API Well Number: 43019500300000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☑

APPLICATION FOR PERMIT TO DRILL

1. WELL NAME and NUMBER
Cane Creek Unit 36-1

2. TYPE OF WORK
DRILL NEW WELL ◉ REENTER P&A WELL ○ DEEPEN WELL ○

3. FIELD OR WILDCAT
BIG FLAT

4. TYPE OF WELL
Oil Well Coalbed Methane Well: NO

5. UNIT or COMMUNITIZATION AGREEMENT NAME
CANE CREEK

6. NAME OF OPERATOR
FIDELITY E&P COMPANY

7. OPERATOR PHONE
720 931-6459

8. ADDRESS OF OPERATOR
1700 Lincoln Street Ste 2800, Denver, CO, 80203

9. OPERATOR E-MAIL
Robert.Sencenbaugh@fidelityepco.com

10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)
ML-40571

11. MINERAL OWNERSHIP
FEDERAL ○ INDIAN ○ STATE ◉ FEE ○

12. SURFACE OWNERSHIP
FEDERAL ○ INDIAN ○ STATE ◉ FEE ○

13. NAME OF SURFACE OWNER (if box 12 = 'fee')

14. SURFACE OWNER PHONE (if box 12 = 'fee')

15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')

16. SURFACE OWNER E-MAIL (if box 12 = 'fee')

17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')

18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS
YES ○ (Submit Commingling Application) NO ◉

19. SLANT
VERTICAL ○ DIRECTIONAL ○ HORIZONTAL ◉

20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	267 FSL 774 FWL	SWSW	36	25.0 S	19.0 E	S
Top of Uppermost Producing Zone	267 FSL 774 FWL	SWSW	36	25.0 S	19.0 E	S
At Total Depth	870 FNL 700 FWL	NWNW	36	25.0 S	19.0 E	S

21. COUNTY
GRAND

22. DISTANCE TO NEAREST LEASE LINE (Feet)
267

23. NUMBER OF ACRES IN DRILLING UNIT
1951

25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)
2700

26. PROPOSED DEPTH
MD: 11301 TVD: 7638

27. ELEVATION - GROUND LEVEL
5797

28. BOND NUMBER
190017646/104891324

29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE
Municipal

Hole, Casing, and Cement Information

String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
COND	26	20	0 - 80	94.0	J-55 Buttress	0.0	Class G	81	1.17	15.0
SURF	17.5	13.375	0 - 1055	54.5	J-55 Buttress	9.0	Type III	303	2.47	12.3
							Type III	200	2.14	14.2
I1	12.25	9.625	0 - 4050	40.0	L-80 Buttress	9.0	Class G	660	1.25	14.4
							Class G	250	1.25	14.4
Prod	8.5	7	0 - 3850	29.0	P-110 Other	16.5	Class G	800	1.44	12.7
			3850 - 7850	32.0	HCP-110 LT&C	16.5	Class G	350	1.73	12.0
			7850 - 11301	29.0	P-110 Other	16.5	None			

ATTACHMENTS

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES

- ☑ WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER
- ☑ COMPLETE DRILLING PLAN
- ☐ AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)
- ☐ FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER
- ☑ DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)
- ☑ TOPOGRAPHICAL MAP

NAME Joy Gardner **TITLE** Sr. Engineering Tech **PHONE** 720 956-5763

SIGNATURE **DATE** 02/07/2013 **EMAIL** joy.gardner@fidelityepco.com

API NUMBER ASSIGNED
43019500300000

APPROVAL
Permit Manager

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RECEIVED: April 10, 2013

Fidelity Exploration & Production Company Eight Point Plan

CANE CREEK 36-1
SEC 36 / T25S / R19E, SWSW, 267' FSL & 774 FWL
GRAND COUNTY, UTAH

1. & 2. ESTIMATED TOPS & ANTICIPATED OIL, GAS, & WATER ZONES:

FORMATION	TVD-RKB (ft)	Sub-Sea (ft)	Lithology	Objective
Windgate Sand	N/A		Sandstone	
Chinle	Surface		Sand/Shale	
Moenkopi	258	+5,560	Sand/Shale	
Cutler	722	+5,096	Sandstone	
Honaker Trail	2,173	+3,645	Sand/Evaporite	
Paradox	3,617	+2,201	Salt/Clastics	Secondary
Cane Creek Shale	7,405	-1,587	Shale	Primary
T.D.	7,650			
T.D. (LATERAL MD)	±11,301			

Estimated TD: **7,638' TVD/ 11,301' MD** **Anticipated BHP: ±5,759 Psig**

1. Lost circulation in all intervals.
2. Cement isolation is installed to surface of the well isolating all zones by cement and casing.

3. PRESSURE CONTROL EQUIPMENT:

Intermediate & Production Hole – 10,000 Psig
BOP schematic diagrams attached.

4. CASING PROGRAM:

CASING	Hole Size	Length	Size	WEIGHT	Grade	Thread	Collapse	Burst	Tensile
							(psi) a	(psi) b	(1K lbs) c
Conductor	26"	0 – ±80'	20"						
Surface	17 ½"	0' – 1,055'	13 3/8"	54.5#	J-55	BTC	1130/2.1	2730/3.0	909/2.5
Intermediate	12 ¼"	0 – 4,050'	9-5/8"	40.0#	L-80	BTC	3,090/1.5	5,750/1.2	947/2.1
Production	8-1/2"	0 – 3,850'	7"	29#	P-110	BTC	8,530/1.3	11,220/2.0	955/2.1
Production	8-1/2"	3,850 – 7,850'	7"	32#	HCP-110	BTC	11,890/1.9	12,460/2.0	955/2.1
Production	8-1/2"	7,850 – 11,301'	7"	29#	P-110	BTC	8,530/1.3	11,220/2.0	955/2.1

Surface based on full evacuation: a=9.0 ppg fluid on backside, b=9.0 ppg inside, & c=9.0 ppf fluid + 100K overpull.
Intermediate based on full evacuation: a=9.0 ppg fluid on backside, b=9.0 ppg inside, & c=9.0 ppf fluid + 100K overpull.
Production based on full evacuation: a=16.5 ppg fluid on backside, b=16.5 ppg inside, & c=16.5 ppf fluid + 100K overpull

All casing will be new or inspected.

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Fidelity Exploration & Production Company Eight Point Plan

CANE CREEK 36-1
SEC 36 / T25S / R19E, SWSW, 267' FSL & 774 FWL
GRAND COUNTY, UTAH

5. Float Equipment:

Surface Hole Procedure (0'- 1050'±)
Guide Shoe
Insert Float Collar (PDC drillable)
Centralizers: 1-5' above shoe, top of jts. #2 and #3 then every 5th joint to surface. (23 total)

Intermediate Hole Procedure (0'- 4,050±)
Guide Shoe
Insert Float Collar (PDC drillable)
Centralizers: 1-5' above shoe, top of jts. #2 and #3 then every 3rd joint to surface. (33 total)

Production Hole Procedure (0' - TD):
Float shoe, 1 joint casing, float collar and balance of casing to surface. Thread lock float shoe, top and bottom of float collar, and top of 2nd joint. Two centralizers on the shoe joint, then every joint to ± 4,000'. (170 Total)

6. MUD PROGRAM

Interval	Mud Type	Mud Wt.	PV / YP	OWR
0' – 1,000'	Air Mist	0- 9.0 ppg	---	---
1,000' - 4,050'	Air Mist/Aerated Water	0 – 9.0 ppg	---	---
4,050'- 11,301'	Oil Based Mud	13.5-16.5 ppg	22-32 / 12-22	+/-90:10

Production Hole Procedure (4,050' - TD): Anticipated mud weight 13.5 – 16.5 ppg depending on actual wellbore conditions encountered while drilling.

An oil based mud (OBM) system will be used to prevent fluid interaction with the salts and shales. LCM sweeps, pills, etc., will be used to prevent fluid loss. Adequate amounts of weighting material will be on hand as needed for well control.

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7. VARIANCE REQUESTS:

Reference: **Onshore Oil and Gas Order No. 1**
Onshore Oil and Gas Order No. 2 – Section E: Special Drilling Operations

- Fidelity E&P. requests a variance to regulations requiring a straight run blooie line to be 100' in length. (Where possible, a straight run blooie line will be used).
- Fidelity E&P requests a variance to regulations requiring the blooie line to be 100' in length. To reduce location excavation, the blooie line will be approximately 75' in length.

Fidelity Exploration & Production Company Eight Point Plan

CANE CREEK 36-1
SEC 36 / T25S / R19E, SWSW, 267' FSL & 774 FWL
GRAND COUNTY, UTAH

- Fidelity E&P requests a variance to regulations, during air drilling operations only, requiring dedusting equipment. Dust during air drilling operations is controlled by water mist.
- Fidelity E&P requests a variance to regulations, during air drilling operations only, requiring an automatic igniter or continuous pilot light on the blooie line. (Not required on aerated water system).
- Fidelity E&P requests a variance that compressors are located in the opposite direction from the blooie line a minimum of 100 feet from the well bore. (Air Compressors are rig mounted).

8. EVALUATION PROGRAM:

Mud Logs: Mud log from 1,055' to TD.
Open-hole Logs: Triple-Combo, ECS, OBM FMI

9. CEMENT PROGRAM:

Surface Hole Procedure (Surface – 1,050'±):

Lead: **303 sks** Type III Halliburton cement + 2% Sodium Silicate + 2% Gypsum. Yield = 2.47 ft^3/sk @ 12.30 ppg
Tail: **200 sks** Type III Halliburton cement + 2% Sodium Silicate + 2% Gypsum. Yield = 2.14 ft^3/sk @ 14.20 ppg.
Top Out: As necessary with Class "G" cement with 2% $CaCl_2$, ¼#/sk LCM mixed at 15.6 ppg, 1.18 ft^3/sk., 5.2 gps water.
Note: Cement volumes will be calculated to bring lead cement to surface.

Intermediate Hole Procedure (Surface – 4,050'±):

Lead: **660 sks** 66 pps Class G + 14 pps Pozz + 0.2% Sodium Silicate + 2 pps Gypsum. Yield = 1.25 ft^3/sk @ 14.40 ppg
Tail: **250 sks** 66 pps Class G + 14 pps Pozz + 0.2% Sodium Silicate + 2 pps Gypsum + Nitrogen. Yield = 1.25 ft^3/sk @ 14.4 ppg
Top Out: As necessary with Class "G" cement with 2% $CaCl_2$, ¼#/sk LCM mixed at 15.6 ppg, 1.18 ft^3/sk., 5.2 gps water.

Production Hole Procedure (4,300 – TD):

Lead: **800 sks** Weighted Class G + 10% Silica Flour + 25% 100 Mesh sand. Yield = 1.44 ft^3/sk @ 16.80 ppg.
Tail: **350 sks** Class G cement + 75 pps Hematite. Yield = 1.73 ft^3/sk @ 18.00 ppg.

Note: The above number of sacks is based on gauge-hole calculation, 0% excess.
Final Cement volumes will be based upon gauge-hole plus 30% excess and the actual depth drilled to.

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Fidelity Exploration & Production Company Eight Point Plan

CANE CREEK 36-1
SEC 36 / T25S / R19E, SWSW, 267' FSL & 774 FWL
GRAND COUNTY, UTAH

10. ABNORMAL CONDITIONS:

Surface Hole (Surface – 1,055'±):
Lost circulation.

Intermediate & Production Hole (1,055'± - TD):
Lost circulation zones and over pressure in the production zone.

11. STANDARD REQUIRED EQUIPMENT:

A. Choke Manifold
B. Upper and Lower Kelly Cock
C. Stabbing Valve
D. Visual Mud Monitoring

12. HAZARDOUS CHEMICALS:

No chemicals subject to reporting under SARA title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling of this well.

(Attachment: BOP Schematic Diagram)

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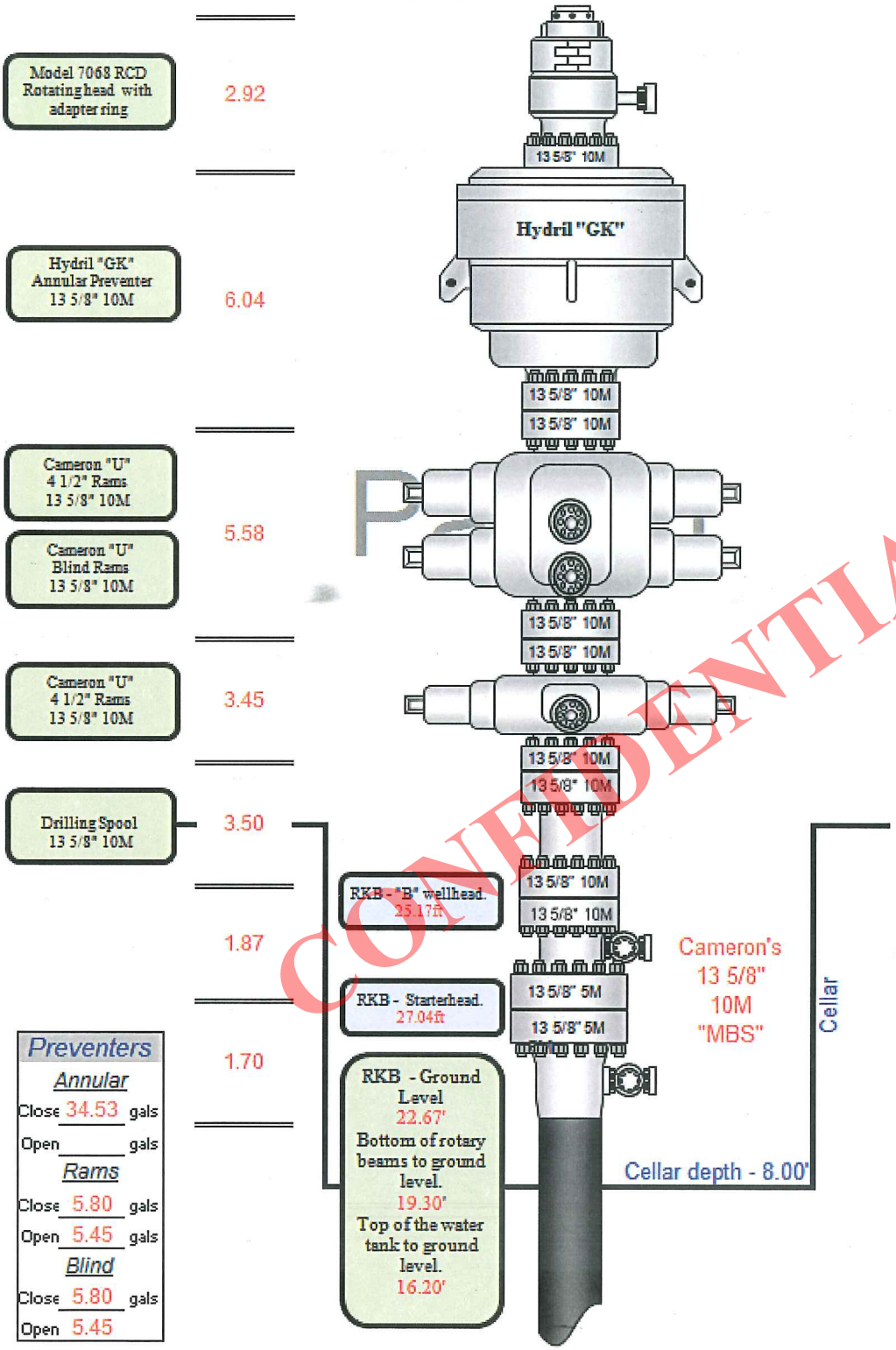
Fidelity Exploration & Production Company Eight Point Plan

CANE CREEK 36-1
SEC 36 / T25S / R19E, SWSW, 267' FSL & 774 FWL
GRAND COUNTY, UTAH



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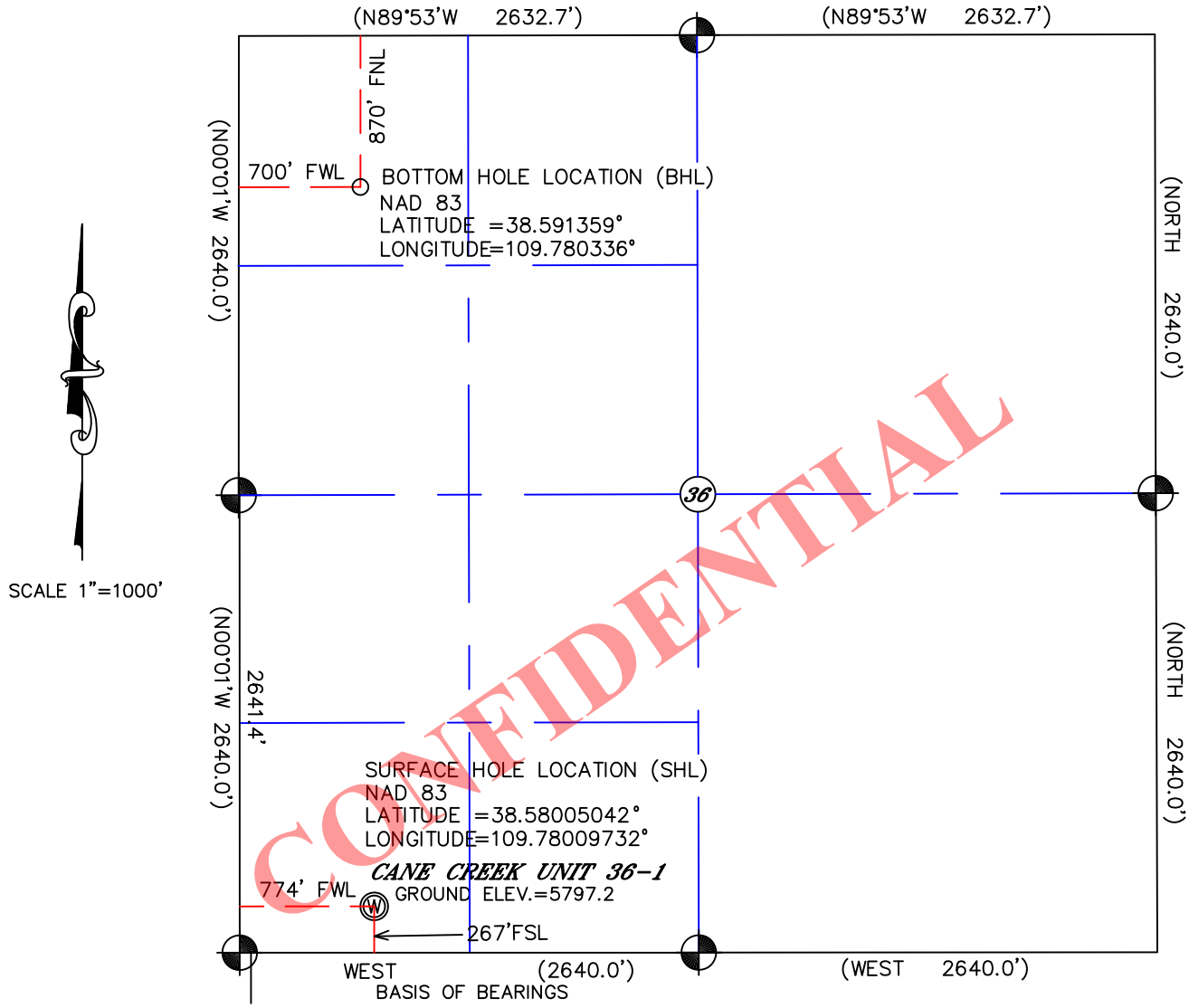
API Well Number: 43019500300000

SECTION 36, T 25 S, R 19 E, SLM



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NOTES: DATA IN PARENTHESIS IS OF RECORD. ALL OTHER DATA IS SURVEYED DATA.

ELEVATIONS ARE BASED ON A G.P.S. 2 HOUR STATIC OPUS OBSERVATION.

LEGEND

FOUND GOVERNMENT MONUMENT

SET T-POST WITH LATH AT PROPOSED WELL LOCATION

TIMOTHY M. KEOGH

01-21-13
DATE

REGISTERED LAND SURVEYOR No171004 TIMOTHY M. KEOGH STATE OF UTAH

KEOGH LAND SURVEYING

45 EAST CENTER STREET MOAB, UTAH, 84532

A SURVEY OF

CANE CREEK UNIT 36-1

WITHIN SECTION 36, T 25 S, R 19 E, SLM,
GRAND COUNTY, UTAH

PREPARED FOR

FIDELITY EXPLORATION & PRODUCTION CO.

DATE: 01-21-13	DRAWN BY: TMK	CHECKED BY: TMK
SCALE: 1"=1000'	F.B.# TDC1	36-1 CCU.DWG

RECEIVED: February 07, 2013

API Well Number: 43019500300000

FIDELITY EXPLORATION & PRODUCTION CO.

CANE CREEK UNIT 36-1

WITHIN SECTION 36, T 25 S, R 19 E, SLM, GRAND COUNTY, UTAH

PHOTO: CENTER–NORTH

CAMERA ANGLE: SITE SOUTH

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PHOTO: CENTER–EAST

CAMERA ANGLE: SITE WEST

KEOGH LAND SURVEYING
45 EAST CENTER STREET MOAB, UTAH, 84532

LOCATION PHOTOS

TAKEN BY: SGARNER | DATE: 2–15–12 | SURVEYED 2–10–12

API Well Number: 43019500300000

FIDELITY EXPLORATION & PRODUCTION CO.

CANE CREEK UNIT 36-1

WITHIN SECTION 36, T 25 S, R 19 E, SLM, GRAND COUNTY, UTAH

PHOTO: CENTER–SOUTH

CAMERA ANGLE: SITE NORTH

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PHOTO: CENTER–WEST

CAMERA ANGLE: SITE EAST

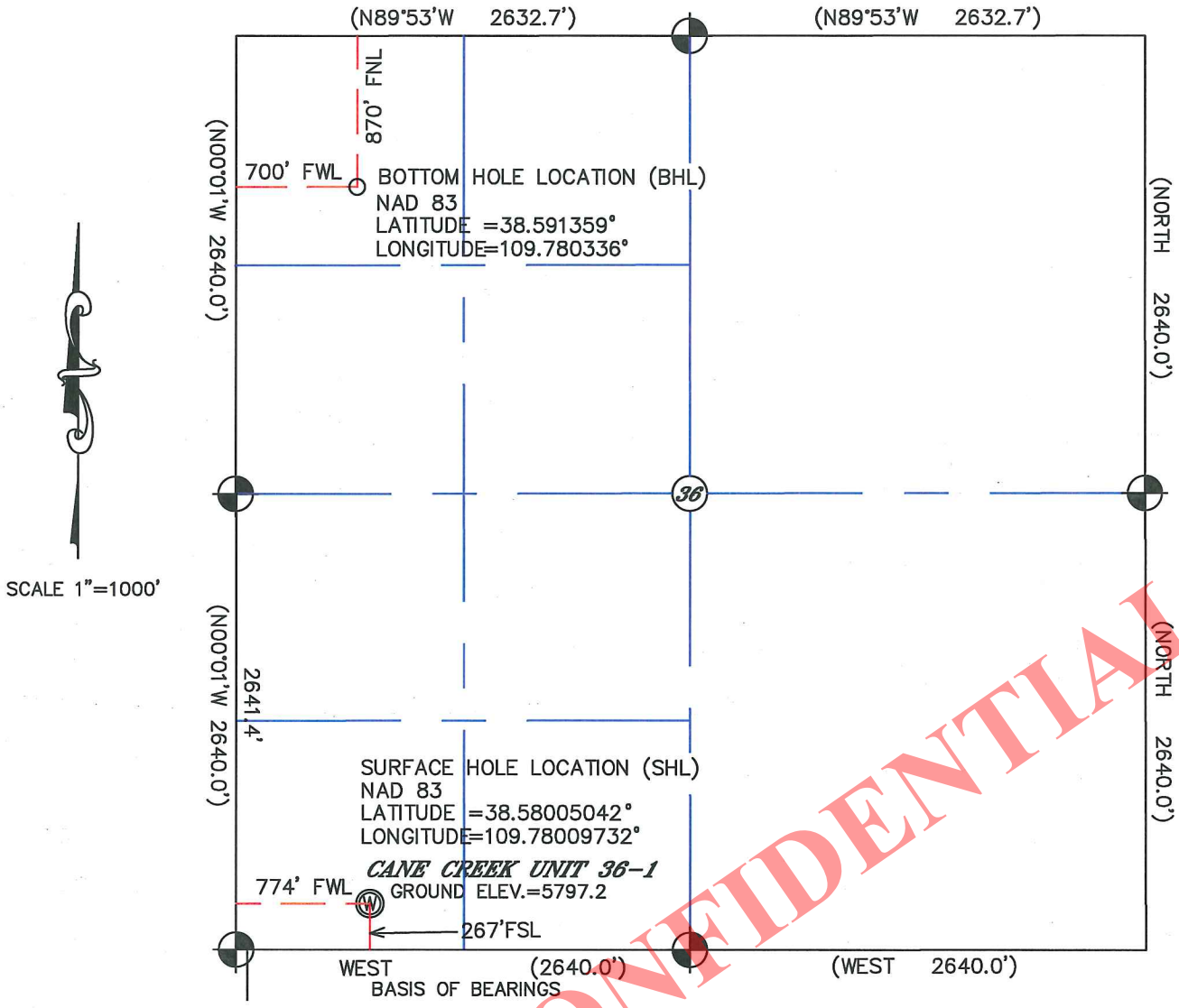
KEOGH LAND SURVEYING
45 EAST CENTER STREET MOAB, UTAH, 84532

LOCATION PHOTOS

TAKEN BY: SGARNER | DATE: 2–15–12 | SURVEYED 2–10–12

API Well Number: 43019500300000

SECTION 36, T 25 S, R 19 E, SLM



CONFIDENTIAL

NOTES: DATA IN PARENTHESIS IS OF RECORD. ALL OTHER DATA IS SURVEYED DATA.

ELEVATIONS ARE BASED ON A G.P.S. 2 HOUR STATIC OPUS OBSERVATION.

LEGEND

FOUND GOVERNMENT MONUMENT

SET T-POST WITH LATH AT PROPOSED WELL LOCATION

REGISTERED LAND SURVEYOR No171004 TIMOTHY M. KEOGH STATE OF UTAH

TIMOTHY M. KEOGH

01-21-13
DATE

KEOGH LAND SURVEYING

45 EAST CENTER STREET MOAB, UTAH, 84532

A SURVEY OF

CANE CREEK UNIT 36-1

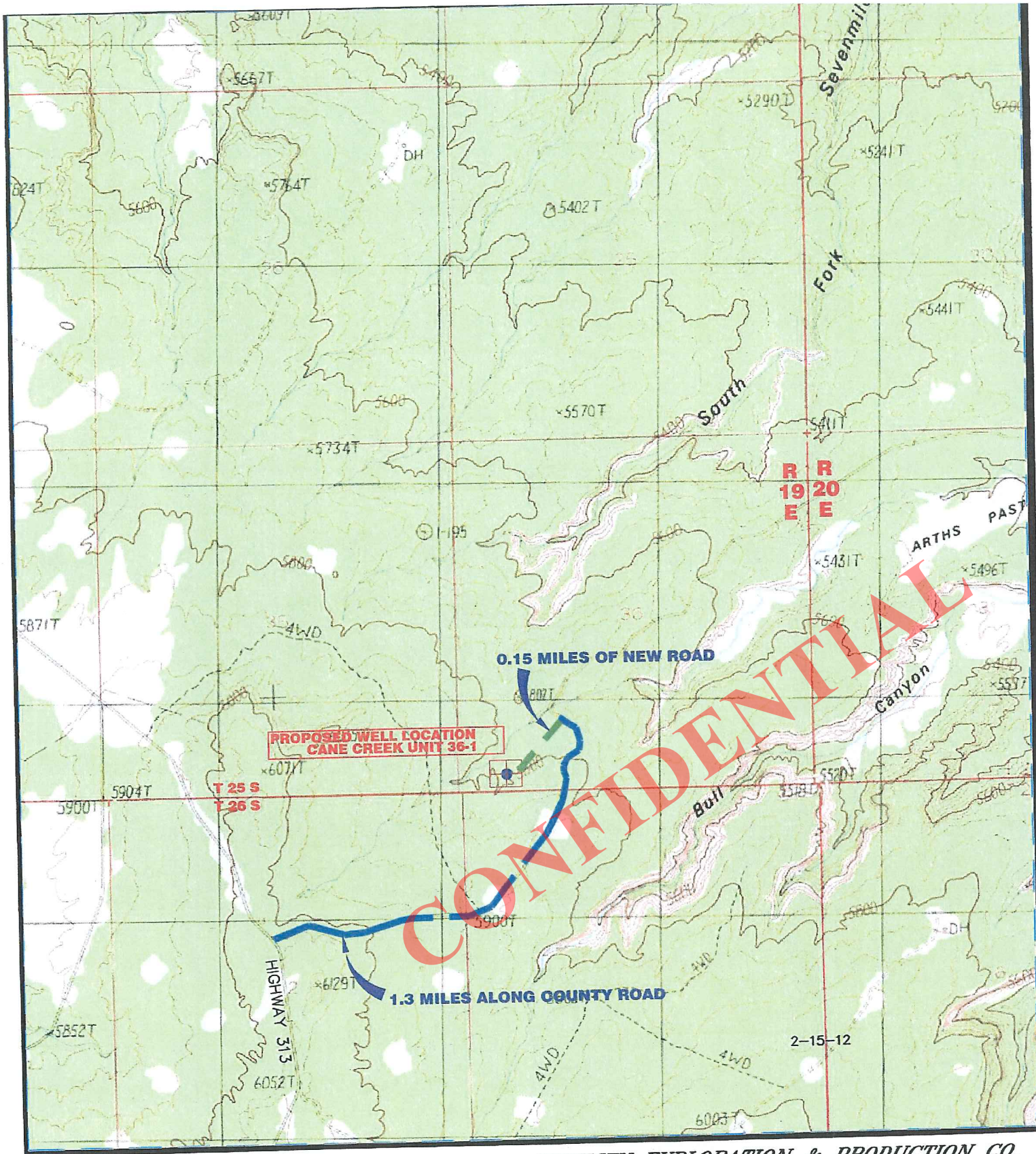
WITHIN SECTION 36, T 25 S, R 19 E, SLM,
GRAND COUNTY, UTAH

PREPARED FOR

FIDELITY EXPLORATION & PRODUCTION CO.

DATE: 01-21-13	DRAWN BY: TMK	CHECKED BY: TMK
SCALE: 1"=1000'	F.B.# TDC1	36-1 CCU.DWG

API Well Number: 43019500300000



LEGEND

- PROPOSED WELL
- PROPOSED ACCESS TO SUBJECT WELL
- ROAD TO OTHER WELLS
- EXISTING ROAD TO BE IMPROVED

FIDELITY EXPLORATION & PRODUCTION CO.

PROPOSED ACCESS TO

CANE CREEK UNIT 36-1

WITHIN SECTION 36, T 25 S, R 19 E, SLM, GRAND COUNTY, UTAH

267 FT. FSL & 774 FT. FWL.

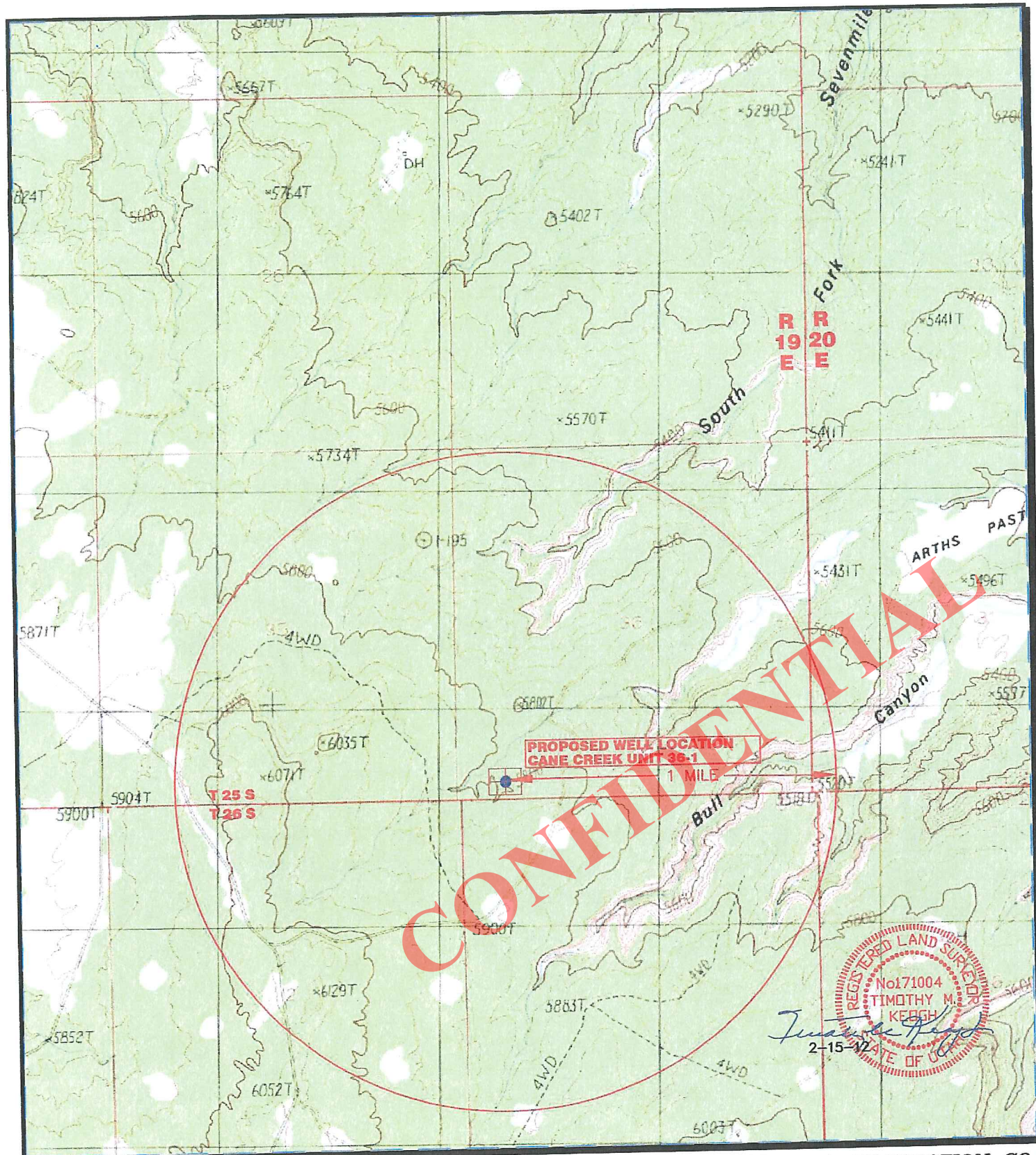
TOPOGRAPHIC MAP "B"

DATE: 2-09-12	
SCALE: 1"=2000'	
DRAWN BY: TMK	REVISED:
SURVEYED 2-15-12	

KEOGH LAND SURVEYING

45 EAST CENTER STREET MOAB, UTAH, 84532

API Well Number: 43019500300000



LEGEND

- PROPOSED WELL
- PROPOSED ACCESS TO SUBJECT WELL
- ROAD TO OTHER WELLS
- EXISTING ROAD TO BE IMPROVED

FIDELITY EXPLORATION & PRODUCTION CO.

PROPOSED ACCESS TO

CANE CREEK UNIT 36-1

WITHIN SECTION 36, T 25 S, R 19 E, SLM, GRAND COUNTY, UTAH

267 FT. FSL & 774 FT. FWL.

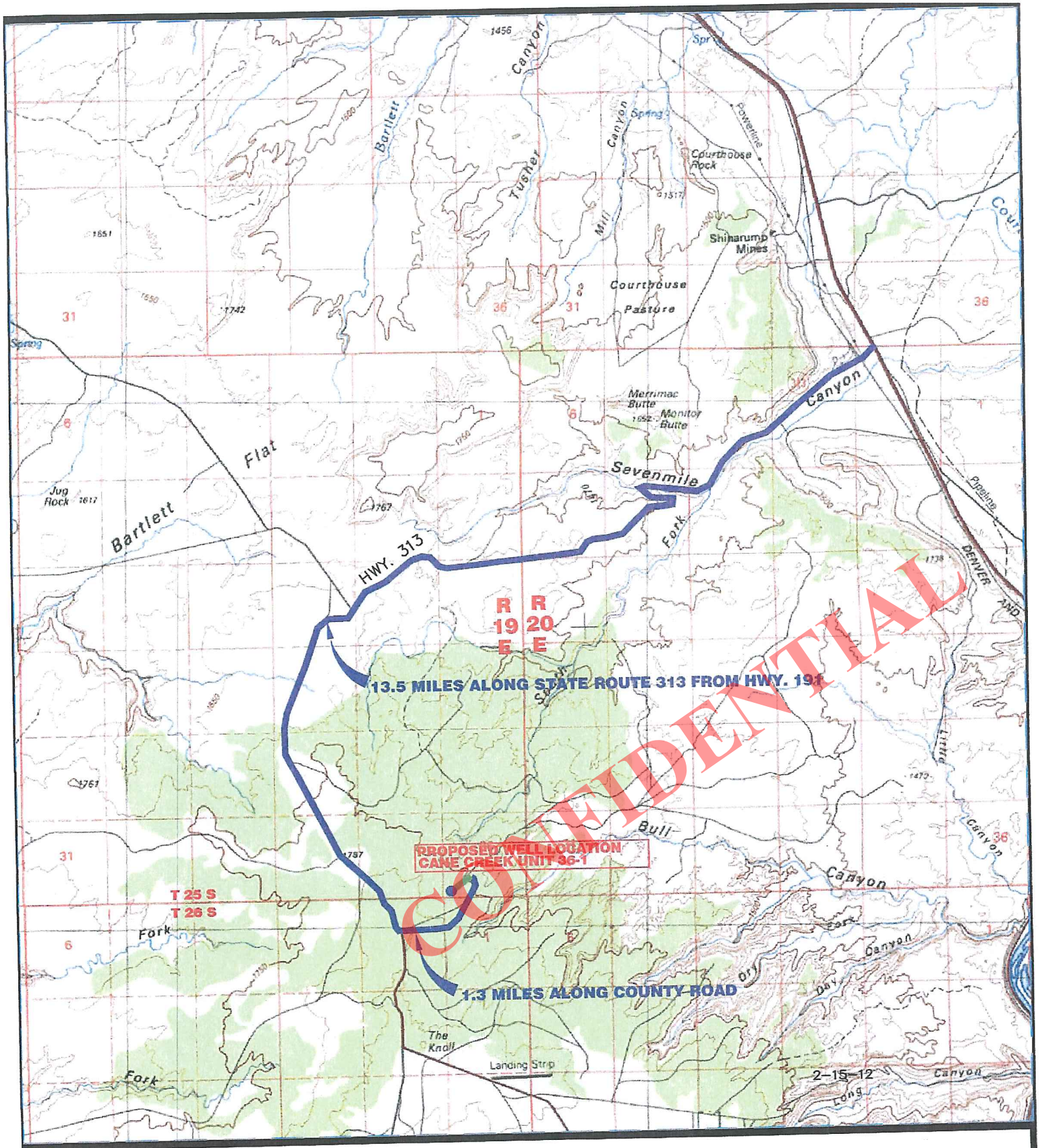
TOPOGRAPHIC MAP "C"

DATE: 2-15-12	
SCALE: 1"=2000'	
SURVEYED 2-15-12	
DRAWN BY: TMK	REVISED:

KEOGH LAND SURVEYING

45 EAST CENTER STREET MOAB, UTAH, 84532

API Well Number: 43019500300000



LEGEND

- PROPOSED WELL
- PROPOSED ACCESS TO SUBJECT WELL
- ROAD TO OTHER WELLS
- EXISTING ROAD TO BE IMPROVED
- EXISTING ROAD

TOPOGRAPHIC MAP "A"

DATE: 2-15-12	
SCALE: 1:100000	
DRAWN BY: TMK	REVISED:
SURVEYED 2-15-12	

FIDELITY EXPLORATION & PRODUCTION CO.

PROPOSED ACCESS TO

CANE CREEK UNIT 36-1

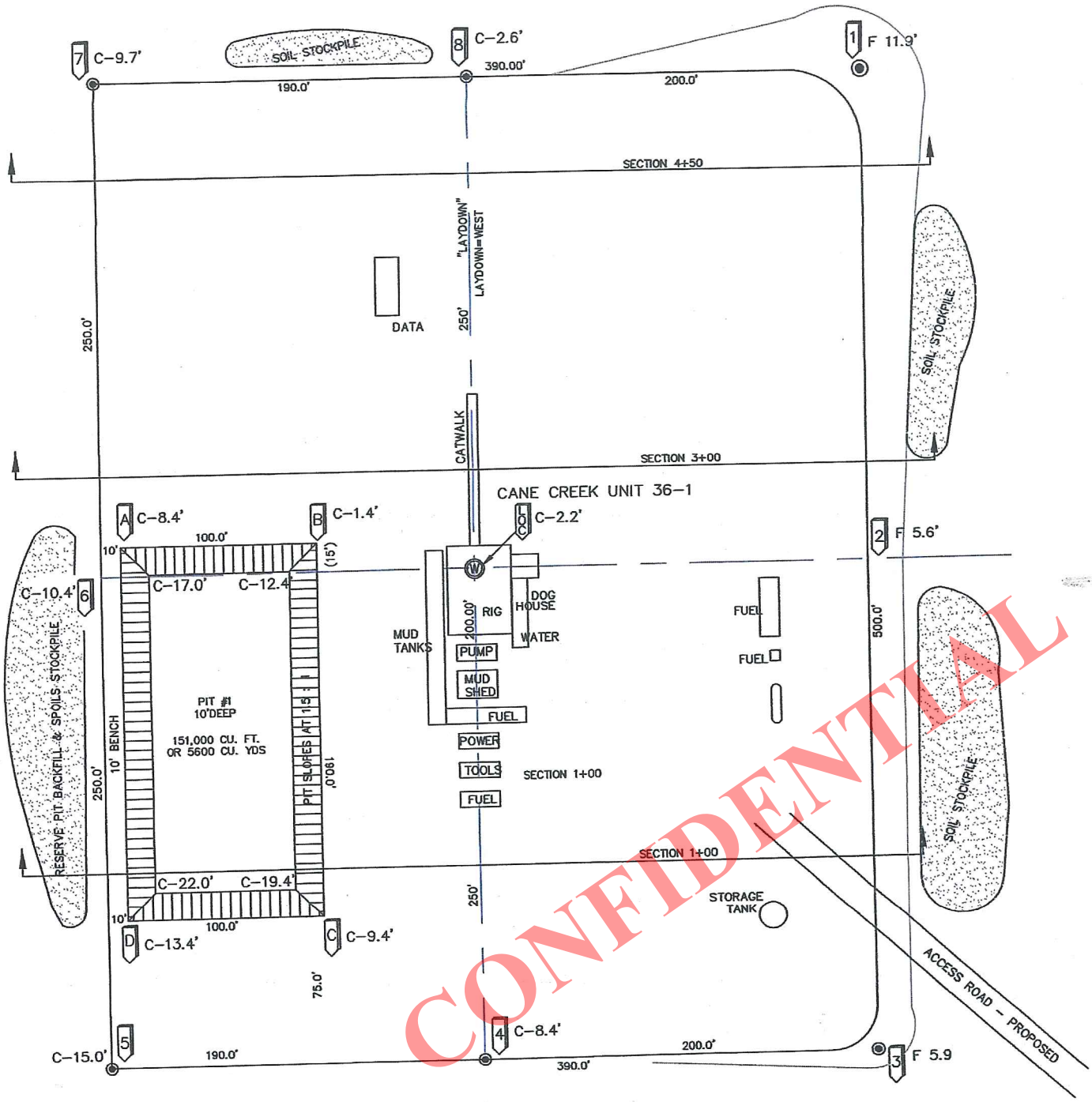
WITHIN SECTION 36, T 25 S, R 19 E, SLM, GRAND COUNTY, UTAH

267 FT. FSL & 774 FT. FWL.

KEOGH LAND SURVEYING

45 EAST CENTER STREET MOAB, UTAH, 84532

API Well Number: 43019500300000



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ELEVATION OF ORIGINAL GROUND AT LOCATION STAKE=5797.2
FINISHED GRADE ELEVATION AT LOCATION STAKE =5795.0

SCALE: 1"=60'

REGISTERED LAND SURVEYOR
No171004
TIMOTHY M. KEOGH
STATE OF UTAH

FEB. 15, 2012

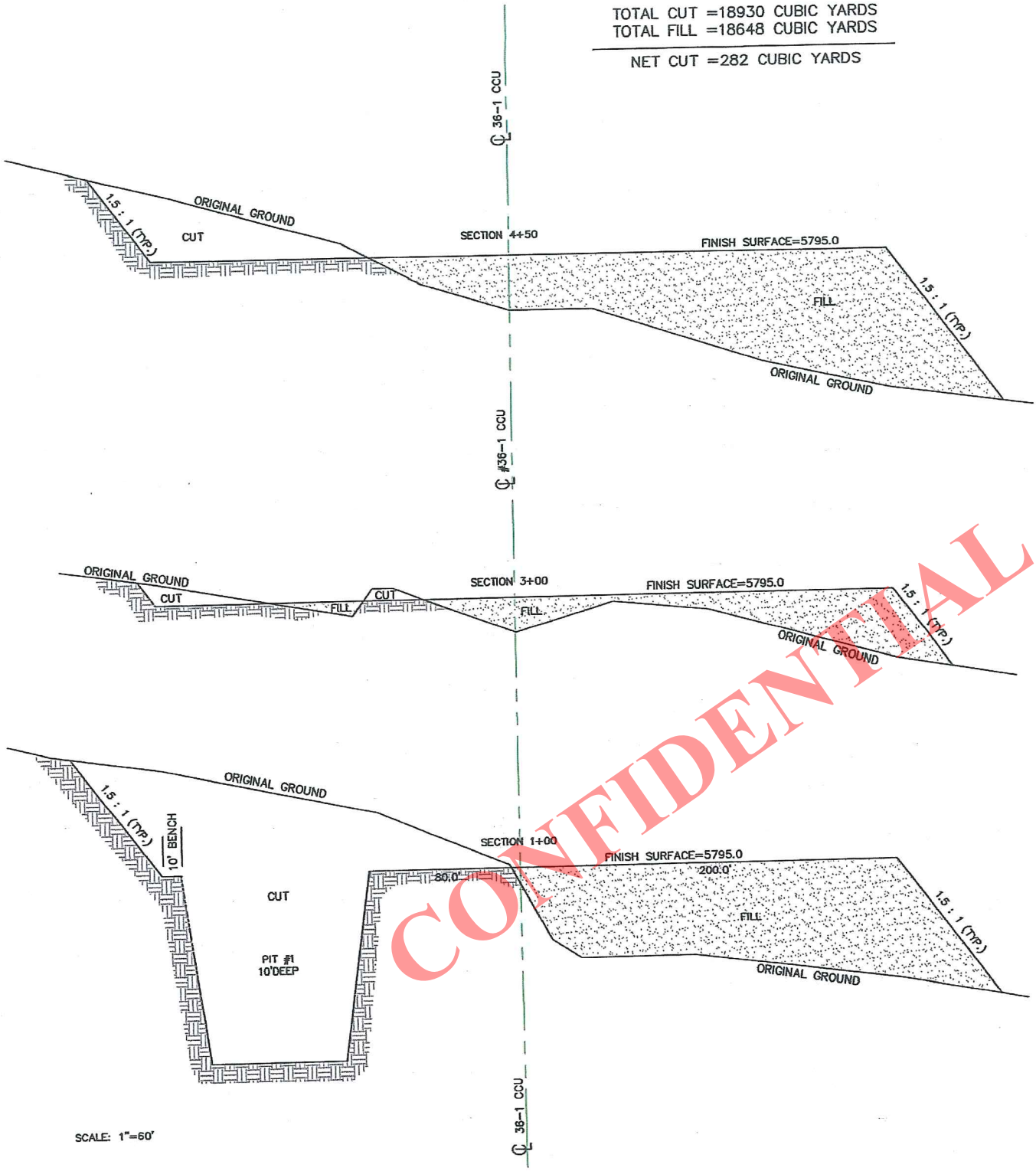
KEOGH LAND SURVEYING
45 EAST CENTER STREET MOAB, UTAH, 84532

LOCATION LAYOUT FOR
CANE CREEK UNIT 36-1
WITHIN SECTION 36, T 25 S, R 19 E, SLM, GRAND COUNTY, UTAH
PREPARED FOR
FIDELITY EXPLORATION & PRODUCTION CO.

API Well Number: 43019500300000

TOTAL CUT =18930 CUBIC YARDS
TOTAL FILL =18648 CUBIC YARDS

NET CUT =282 CUBIC YARDS



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REGISTERED LAND SURVEYOR
No171004
TIMOTHY M. KEOGH
STATE OF UTAH

FEB. 15, 2012

KEOGH LAND SURVEYING
45 EAST CENTER STREET MOAB, UTAH, 84532

CROSS SECTIONS
CANE CREEK UNIT 36-1
WITHIN SECTION 36, T 25 S, R 19 E, SLM, GRAND COUNTY, UTAH
PREPARED FOR
FIDELITY EXPLORATION & PRODUCTION CO.

API Well Number: 43019500300000

FIDELITY Exploration & Production Company
An MDU Resources Group company

Cane Creek Unit #36-1
ST01
Sec 36 T25S R19E
Grand County, UT

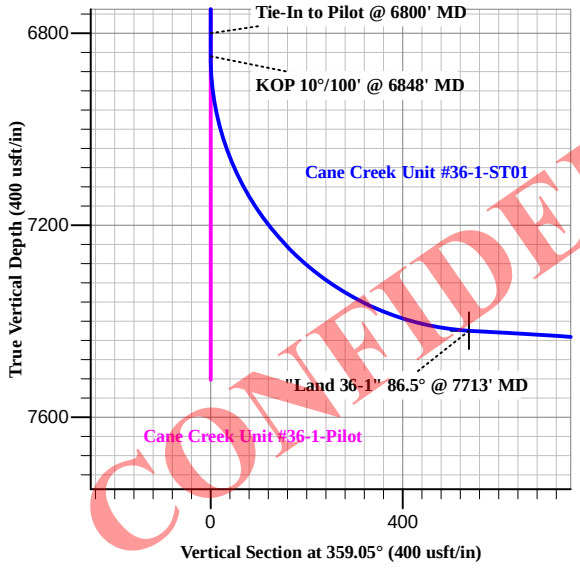
PATHFINDER
A Schlumberger Company

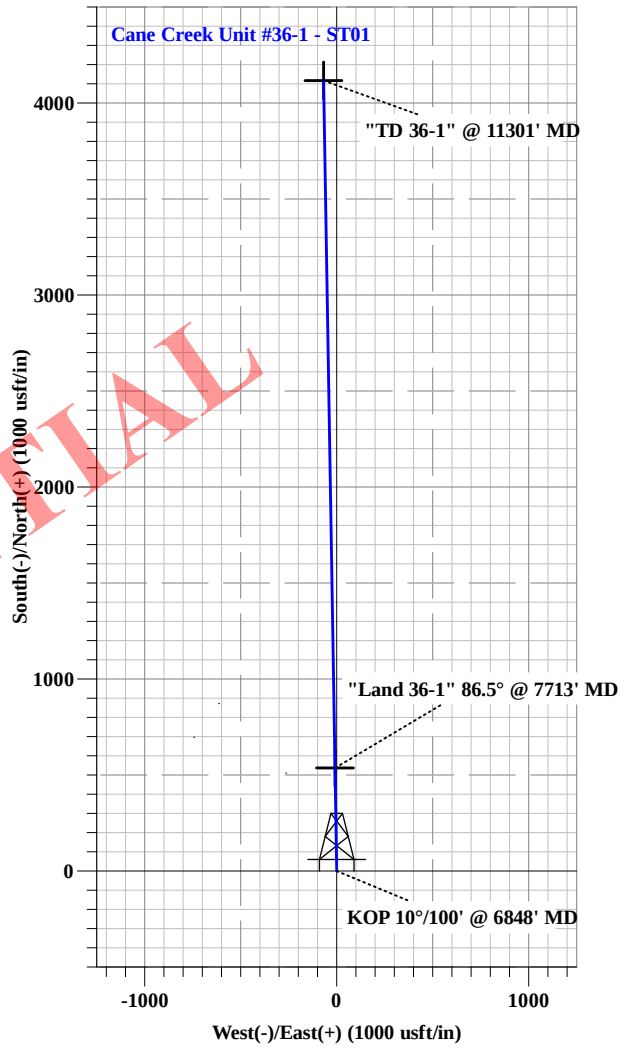
Ground Level: 5795.0
KB: 23'

WELL DETAILS: Cane Creek Unit #36-1			
	Ground Level:	5795.0	
Northing	Easting	Latitude	Longitude
94605.10	2491926.40	38° 34' 48.250 N	109° 46' 45.919 W

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
CCU 36-1 PBHL	7638.0	4119.0	-68.2	98722.00	2491779.00	Point
CCU 36-1 Land	7420.2	538.2	-8.9	95143.03	2491907.15	Point





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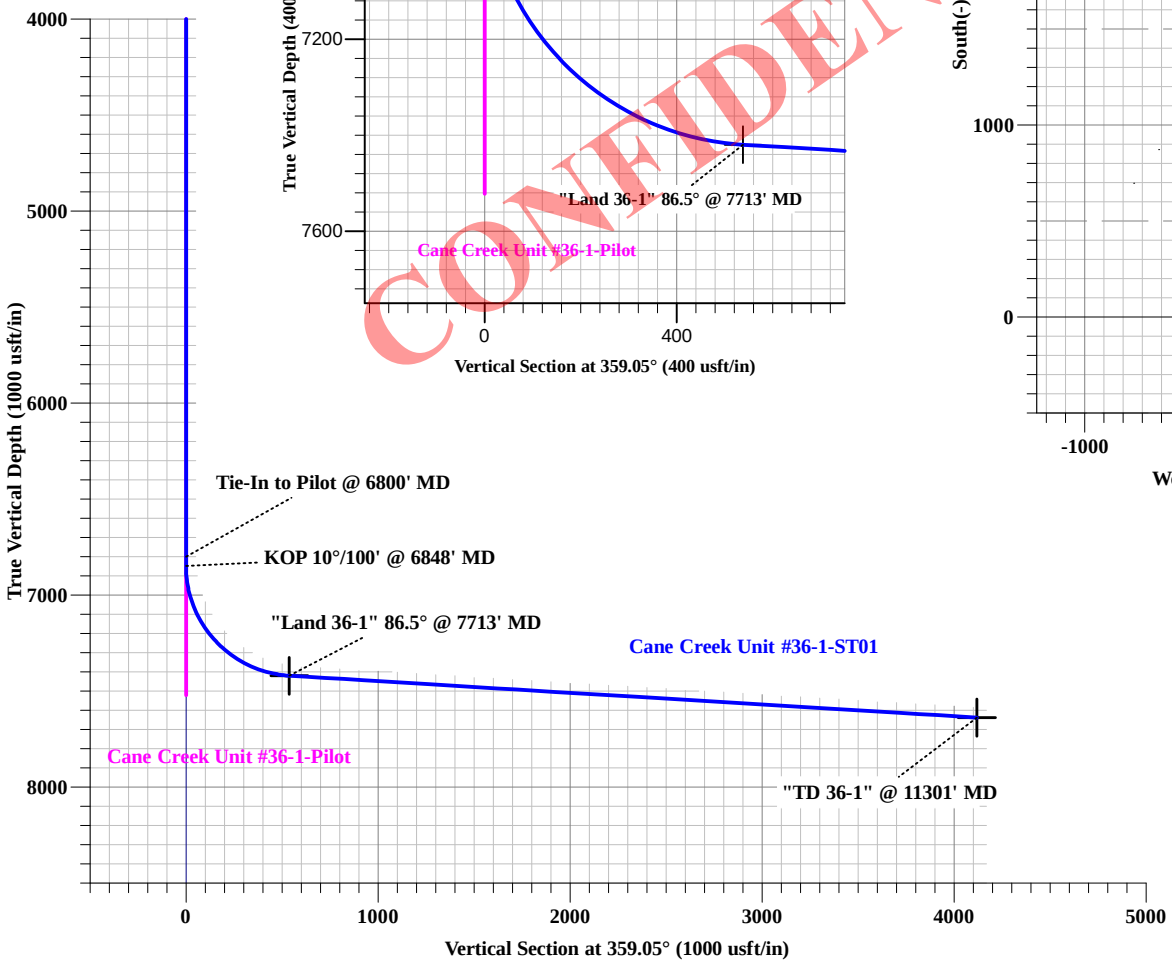

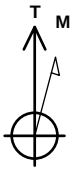

Azimuths to True North
Magnetic North: 10.78°

Magnetic Field
Strength: 51341.3snT
Dip Angle: 64.60°
Date: 2013/01/25
Model: IGRF2010

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
6800.0	0.00	0.00	6800.0	0.0	0.0	0.00	0.00	0.0	
6848.3	0.00	0.00	6848.3	0.0	0.0	0.00	0.00	0.0	
7713.5	86.52	359.05	7420.2	538.1	-8.9	10.00	359.05	538.2	
11301.5	86.52	359.05	7638.0	4119.0	-68.2	0.00	0.00	4119.5	CCU 36-1 PBHL

Plan: Design #1 (Cane Creek Unit #36-1/ST01)

Created By: Breck Enoch Date: 25-Jan-2013

API Well Number: 43019500300000

Fidelity Exploration & Production Co.

Grand County, UT
Sec 36 T25S R19E
Cane Creek Unit #36-1

ST01

Plan: Design #1

CONFIDENTIAL

Standard Planning Report

25 January, 2013

RECEIVED: February 07, 2013

FIDELITY Exploration & Production Company
An MDU Resources Group company

Pathfinder
Planning Report

PATHFINDER
A Schlumberger Company

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well Cane Creek Unit #36-1
Company:	Fidelity Exploration & Production Co.	**TVD Reference:**	WELL @ 5818.0usft (Original Well Elev)
Project:	Grand County, UT	**MD Reference:**	WELL @ 5818.0usft (Original Well Elev)
Site:	Sec 36 T25S R19E	**North Reference:**	True
Well:	Cane Creek Unit #36-1	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	ST01		
Design:	Design #1		

Project Grand County, UT

Map System:	US State Plane 1927 (Exact solution)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Utah Central 4302		

Site Sec 36 T25S R19E

Site Position:		**Northing:**	94,605.10 usft	**Latitude:**	38° 34' 48.250 N
From:	Map	**Easting:**	2,491,926.40 usft	**Longitude:**	109° 46' 45.919 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	1.10 °

Well Cane Creek Unit #36-1

Well Position	**+N/-S**	0.0 usft	**Northing:**	94,605.10 usft	**Latitude:**	38° 34' 48.250 N
	+E/-W	0.0 usft	**Easting:**	2,491,926.40 usft	**Longitude:**	109° 46' 45.919 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**		**Ground Level:**	5,795.0 usft

Wellbore ST01

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2013/01/25	10.78	64.60	51,341

Design Design #1

Audit Notes:

Version:		**Phase:**	PROTOTYPE	**Tie On Depth:**	6,800.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	359.05

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
6,800.0	0.00	0.00	6,800.0	0.0	0.0	0.00	0.00	0.00	0.00	
6,848.3	0.00	0.00	6,848.3	0.0	0.0	0.00	0.00	0.00	0.00	
7,713.5	86.52	359.05	7,420.2	538.1	-8.9	10.00	10.00	0.00	359.05	
11,301.5	86.52	359.05	7,638.0	4,119.0	-68.2	0.00	0.00	0.00	0.00	CCU 36-1 PBHL

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Pathfinder
Planning Report

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Company:	Fidelity Exploration & Production Co.	**TVD Reference:**	WELL @ 5818.0usft (Original Well Elev)
Project:	Grand County, UT	**MD Reference:**	WELL @ 5818.0usft (Original Well Elev)
Site:	Sec 36 T25S R19E	**North Reference:**	True
Well:	Cane Creek Unit #36-1	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	ST01		
Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00

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FIDELITY Exploration & Production Company
An MDU Resources Group company

Pathfinder
Planning Report

PATHFINDER
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Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well Cane Creek Unit #36-1
Company:	Fidelity Exploration & Production Co.	**TVD Reference:**	WELL @ 5818.0usft (Original Well Elev)
Project:	Grand County, UT	**MD Reference:**	WELL @ 5818.0usft (Original Well Elev)
Site:	Sec 36 T25S R19E	**North Reference:**	True
Well:	Cane Creek Unit #36-1	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	ST01		
Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00
5,700.0	0.00	0.00	5,700.0	0.0	0.0	0.0	0.00	0.00	0.00
5,800.0	0.00	0.00	5,800.0	0.0	0.0	0.0	0.00	0.00	0.00
5,900.0	0.00	0.00	5,900.0	0.0	0.0	0.0	0.00	0.00	0.00
6,000.0	0.00	0.00	6,000.0	0.0	0.0	0.0	0.00	0.00	0.00
6,100.0	0.00	0.00	6,100.0	0.0	0.0	0.0	0.00	0.00	0.00
6,200.0	0.00	0.00	6,200.0	0.0	0.0	0.0	0.00	0.00	0.00
6,300.0	0.00	0.00	6,300.0	0.0	0.0	0.0	0.00	0.00	0.00
6,400.0	0.00	0.00	6,400.0	0.0	0.0	0.0	0.00	0.00	0.00
6,500.0	0.00	0.00	6,500.0	0.0	0.0	0.0	0.00	0.00	0.00
6,600.0	0.00	0.00	6,600.0	0.0	0.0	0.0	0.00	0.00	0.00
6,700.0	0.00	0.00	6,700.0	0.0	0.0	0.0	0.00	0.00	0.00
6,800.0	0.00	0.00	6,800.0	0.0	0.0	0.0	0.00	0.00	0.00
Tie-In to Pilot @ 6800' MD									
6,848.3	0.00	0.00	6,848.3	0.0	0.0	0.0	0.00	0.00	0.00
KOP 10°/100' @ 6848' MD									
6,850.0	0.17	359.05	6,850.0	0.0	0.0	0.0	10.00	10.00	0.00
6,900.0	5.17	359.05	6,899.9	2.3	0.0	2.3	10.00	10.00	0.00
6,950.0	10.17	359.05	6,949.5	9.0	-0.1	9.0	10.00	10.00	0.00
7,000.0	15.17	359.05	6,998.2	20.0	-0.3	20.0	10.00	10.00	0.00
7,050.0	20.17	359.05	7,045.9	35.1	-0.6	35.1	10.00	10.00	0.00
7,100.0	25.17	359.05	7,092.0	54.4	-0.9	54.4	10.00	10.00	0.00
7,150.0	30.17	359.05	7,136.3	77.6	-1.3	77.6	10.00	10.00	0.00
7,200.0	35.17	359.05	7,178.3	104.6	-1.7	104.6	10.00	10.00	0.00
7,250.0	40.17	359.05	7,217.9	135.1	-2.2	135.1	10.00	10.00	0.00
7,300.0	45.17	359.05	7,254.6	169.0	-2.8	169.0	10.00	10.00	0.00
7,350.0	50.17	359.05	7,288.3	205.9	-3.4	206.0	10.00	10.00	0.00
7,400.0	55.17	359.05	7,318.6	245.7	-4.1	245.7	10.00	10.00	0.00
7,450.0	60.17	359.05	7,345.3	287.9	-4.8	287.9	10.00	10.00	0.00
7,500.0	65.17	359.05	7,368.3	332.3	-5.5	332.3	10.00	10.00	0.00
7,550.0	70.17	359.05	7,387.3	378.5	-6.3	378.6	10.00	10.00	0.00
7,600.0	75.17	359.05	7,402.2	426.2	-7.1	426.3	10.00	10.00	0.00
7,650.0	80.17	359.05	7,412.9	475.1	-7.9	475.1	10.00	10.00	0.00
7,700.0	85.17	359.05	7,419.2	524.6	-8.7	524.7	10.00	10.00	0.00
7,713.5	86.52	359.05	7,420.2	538.1	-8.9	538.2	10.00	10.00	0.00
"Land 36-1" 86.5° @ 7713' MD									
7,800.0	86.52	359.05	7,425.5	624.4	-10.3	624.5	0.00	0.00	0.00
7,900.0	86.52	359.05	7,431.5	724.2	-12.0	724.3	0.00	0.00	0.00
8,000.0	86.52	359.05	7,437.6	824.0	-13.6	824.1	0.00	0.00	0.00
8,100.0	86.52	359.05	7,443.7	923.8	-15.3	924.0	0.00	0.00	0.00
8,200.0	86.52	359.05	7,449.7	1,023.6	-16.9	1,023.8	0.00	0.00	0.00
8,300.0	86.52	359.05	7,455.8	1,123.4	-18.6	1,123.6	0.00	0.00	0.00
8,400.0	86.52	359.05	7,461.9	1,223.2	-20.2	1,223.4	0.00	0.00	0.00
8,500.0	86.52	359.05	7,467.9	1,323.0	-21.9	1,323.2	0.00	0.00	0.00
8,600.0	86.52	359.05	7,474.0	1,422.8	-23.6	1,423.0	0.00	0.00	0.00
8,700.0	86.52	359.05	7,480.1	1,522.6	-25.2	1,522.9	0.00	0.00	0.00
8,800.0	86.52	359.05	7,486.2	1,622.4	-26.9	1,622.7	0.00	0.00	0.00
8,900.0	86.52	359.05	7,492.2	1,722.2	-28.5	1,722.5	0.00	0.00	0.00
9,000.0	86.52	359.05	7,498.3	1,822.0	-30.2	1,822.3	0.00	0.00	0.00
9,100.0	86.52	359.05	7,504.4	1,921.9	-31.8	1,922.1	0.00	0.00	0.00
9,200.0	86.52	359.05	7,510.4	2,021.7	-33.5	2,021.9	0.00	0.00	0.00

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Company:	Fidelity Exploration & Production Co.	**TVD Reference:**	WELL @ 5818.0usft (Original Well Elev)
Project:	Grand County, UT	**MD Reference:**	WELL @ 5818.0usft (Original Well Elev)
Site:	Sec 36 T25S R19E	**North Reference:**	True
Well:	Cane Creek Unit #36-1	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	ST01		
Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,300.0	86.52	359.05	7,516.5	2,121.5	-35.1	2,121.7	0.00	0.00	0.00
9,400.0	86.52	359.05	7,522.6	2,221.3	-36.8	2,221.6	0.00	0.00	0.00
9,500.0	86.52	359.05	7,528.6	2,321.1	-38.4	2,321.4	0.00	0.00	0.00
9,600.0	86.52	359.05	7,534.7	2,420.9	-40.1	2,421.2	0.00	0.00	0.00
9,700.0	86.52	359.05	7,540.8	2,520.7	-41.7	2,521.0	0.00	0.00	0.00
9,800.0	86.52	359.05	7,546.9	2,620.5	-43.4	2,620.8	0.00	0.00	0.00
9,900.0	86.52	359.05	7,552.9	2,720.3	-45.0	2,720.6	0.00	0.00	0.00
10,000.0	86.52	359.05	7,559.0	2,820.1	-46.7	2,820.5	0.00	0.00	0.00
10,100.0	86.52	359.05	7,565.1	2,919.9	-48.3	2,920.3	0.00	0.00	0.00
10,200.0	86.52	359.05	7,571.1	3,019.7	-50.0	3,020.1	0.00	0.00	0.00
10,300.0	86.52	359.05	7,577.2	3,119.5	-51.6	3,119.9	0.00	0.00	0.00
10,400.0	86.52	359.05	7,583.3	3,219.3	-53.3	3,219.7	0.00	0.00	0.00
10,500.0	86.52	359.05	7,589.3	3,319.1	-54.9	3,319.5	0.00	0.00	0.00
10,600.0	86.52	359.05	7,595.4	3,418.9	-56.6	3,419.3	0.00	0.00	0.00
10,700.0	86.52	359.05	7,601.5	3,518.7	-58.2	3,519.2	0.00	0.00	0.00
10,800.0	86.52	359.05	7,607.6	3,618.5	-59.9	3,619.0	0.00	0.00	0.00
10,900.0	86.52	359.05	7,613.6	3,718.3	-61.6	3,718.8	0.00	0.00	0.00
11,000.0	86.52	359.05	7,619.7	3,818.1	-63.2	3,818.6	0.00	0.00	0.00
11,100.0	86.52	359.05	7,625.8	3,917.9	-64.9	3,918.4	0.00	0.00	0.00
11,200.0	86.52	359.05	7,631.8	4,017.7	-66.5	4,018.2	0.00	0.00	0.00
11,301.5	86.52	359.05	7,638.0	4,119.0	-68.2	4,119.5	0.00	0.00	0.00

"TD 36-1" @ 11301' MD

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Design Targets

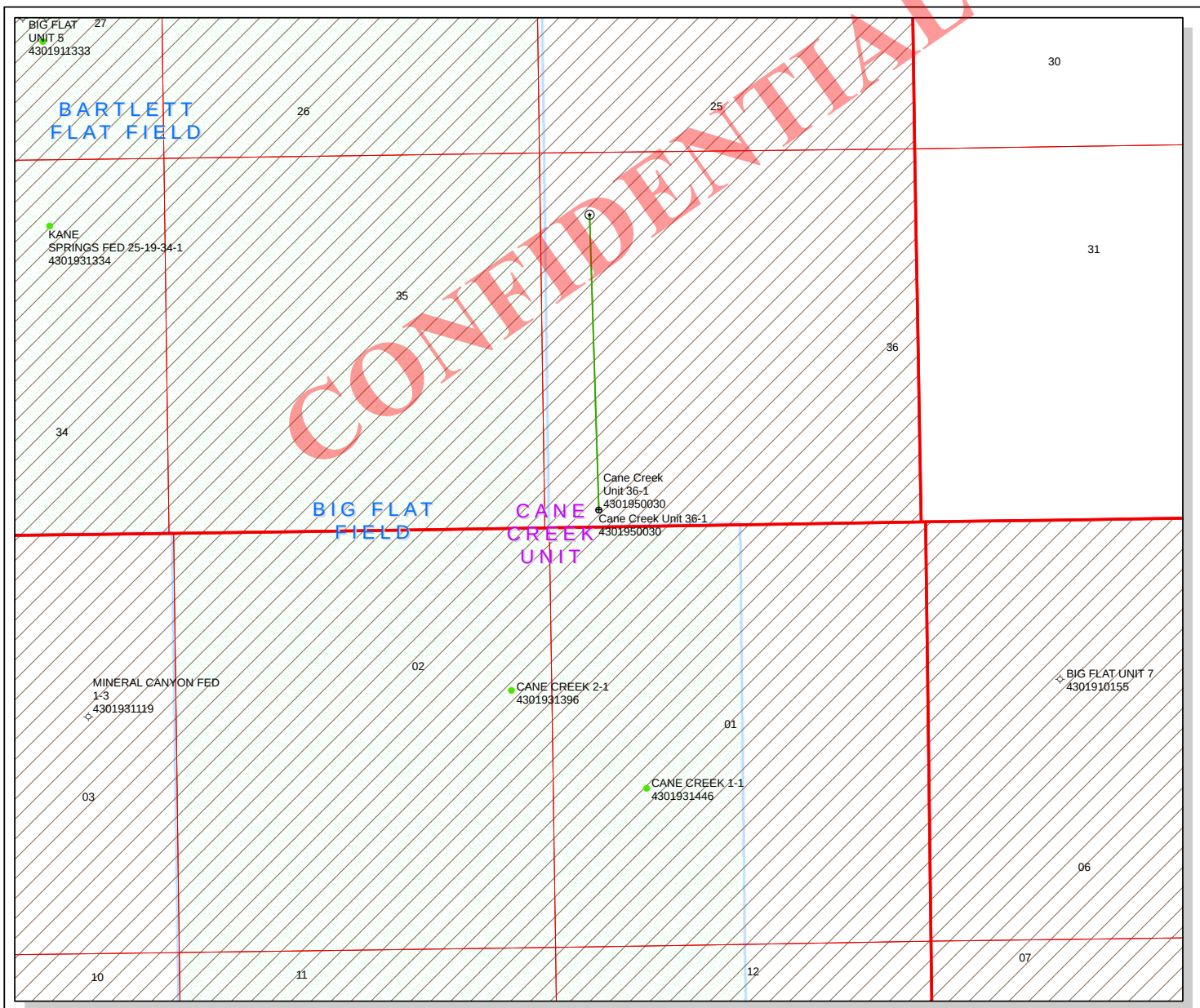
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
CCU 36-1 Land - plan hits target center - Point	0.00	0.00	7,420.2	538.2	-8.9	95,143.03	2,491,907.14	38° 34' 53.569 N	109° 46' 46.031 W
CCU 36-1 PBHL - plan hits target center - Point	0.00	0.00	7,638.0	4,119.0	-68.2	98,722.00	2,491,779.00	38° 35' 28.960 N	109° 46' 46.778 W

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
6,800.0	6,800.0	0.0	0.0	Tie-In to Pilot @ 6800' MD
6,848.3	6,848.3	0.0	0.0	KOP 10°/100' @ 6848' MD
7,713.5	7,420.2	538.1	-8.9	"Land 36-1" 86.5° @ 7713' MD
11,301.5	7,638.0	4,119.0	-68.2	"TD 36-1" @ 11301' MD

RECEIVED: February 07, 2013

API Well Number: 43019500300000



API Number: 4301950030

Well Name: Cane Creek Unit 36-1

Township T25.0S Range R19.0E Section 36

Meridian: SLBM

Operator: FIDELITY E&P COMPANY

Map Prepared:
Map Produced by Diana Mason

Units

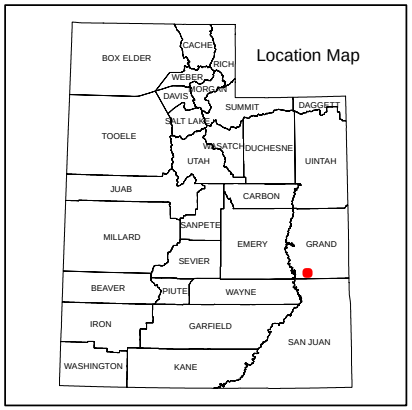
STATUS

- ACTIVE
- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

Fields

STATUS

- Unknown
- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- STORAGE
- TERMINATED



1,750 875 0 1,750 Feet

1:17,106

RECEIVED: February 22, 2013

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:
3160
(UT-922)

February 25, 2013

Memorandum

To: Assistant Field Office Manager Resources, Moab Field Office

From: Michael Coulthard, Petroleum Engineer

Subject: 2013 Plan of Development Cane Creek Unit, Grand and San Juan Counties, Utah.

CONFIDENTIAL

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following well is planned for calendar year 2013 within the Cane Creek Unit, Grand and San Juan Counties, Utah.

API #	WELL NAME	LOCATION
43-019-50030	Cane Creek Unit 36-1	Sec 36 T25S R19E 0267 FSL 0774 FWL
	Lateral 1	Sec 36 T25S R19E 0870 FNL 0700 FWL

This office has no objection to permitting the well at this time.

Michael L. Coulthard

Digitally signed by Michael L. Coulthard
DN: cn=Michael L. Coulthard, o=Bureau of Land Management, ou=Branch of Minerals, email=Michael_Coulthard@blm.gov, c=US
Date: 2013.02.25 12:03:45 -07'00'

bcc: File - Cane Creek Unit
Division of Oil Gas and Mining
Central Files
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:2-25-13

RECEIVED: February 26, 2013

API well Number: 4301950030000

Search Images Mail Drive Calendar Sites Groups Contacts Mobile More

dianawhitney@utah.gov

Mail More 2 of about 95

COMPOSE

Inbox (23)
Starred
Important
Sent Mail
Drafts
BLM (83)
Cabinet
Electronic filing
Eng. Tech
New Permits
Saved
Follow up
Misc
Priority
Tariq
More

Fidelity Approval

Inbox x

Jeff Conley 2:37 PM (16 hours ago)

to Robert.Sencenb., Jim, Lavonne, me, Brad

Hello,

The following well has been approved by SITLA for arch resources as well as paleo with the requirement that paleo spot-check monitoring occur during well pad and access road construction as recommended in the paleo survey report.

(4301950030) Cane Creek Unit 36-1

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People (5)

Jeff Conley
Trust Lands Resource Specialist

Show details

CONFIDENTIAL

API Well Number: 43019500300000

BOPE REVIEW FIDELITY E&P COMPANY Cane Creek Unit 36-1 43019500300000

Well Name	FIDELITY E&P COMPANY Cane Creek Unit 36-1 43019500300000			
String	COND	SURF	I1	Prod
Casing Size(")	20.000	13.375	9.625	7.000
Setting Depth (TVD)	80	1055	4050	7638
Previous Shoe Setting Depth (TVD)	0	80	1055	4050
Max Mud Weight (ppg)	8.3	9.0	9.0	16.5
BOPE Proposed (psi)	0	1000	10000	10000
Casing Internal Yield (psi)	1000	2730	5750	11220
Operators Max Anticipated Pressure (psi)	5759			14.5

Calculations	COND String	20.000	"	
Max BHP (psi)	.052*Setting Depth*MW=	35		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	25	NO	air mist
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	17	NO	
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	17	NO	
Required Casing/BOPE Test Pressure=		80	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi	*Assumes 1psi/ft frac gradient

Calculations	SURF String	13.375	"	
Max BHP (psi)	.052*Setting Depth*MW=	494		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	367	YES	air mist/aerated wtr
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	262	YES	OK
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	280	NO	OK
Required Casing/BOPE Test Pressure=		1055	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		80	psi	*Assumes 1psi/ft frac gradient

Calculations	I1 String	9.625	"	
Max BHP (psi)	.052*Setting Depth*MW=	1895		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	1409	YES	10M BOPE, 10M Hydril annular, double
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	1004	YES	rams, blind rams, OBM
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	1236	NO	OK
Required Casing/BOPE Test Pressure=		4025	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		1055	psi	*Assumes 1psi/ft frac gradient

Calculations	Prod String	7.000	"	
Max BHP (psi)	.052*Setting Depth*MW=	6553		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	5636	YES	10M BOPE, 10M Hydril annular, double
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	4873	YES	rams, blind rams, OBM
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	5764	NO	OK
Required Casing/BOPE Test Pressure=		7638	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		4050	psi	*Assumes 1psi/ft frac gradient

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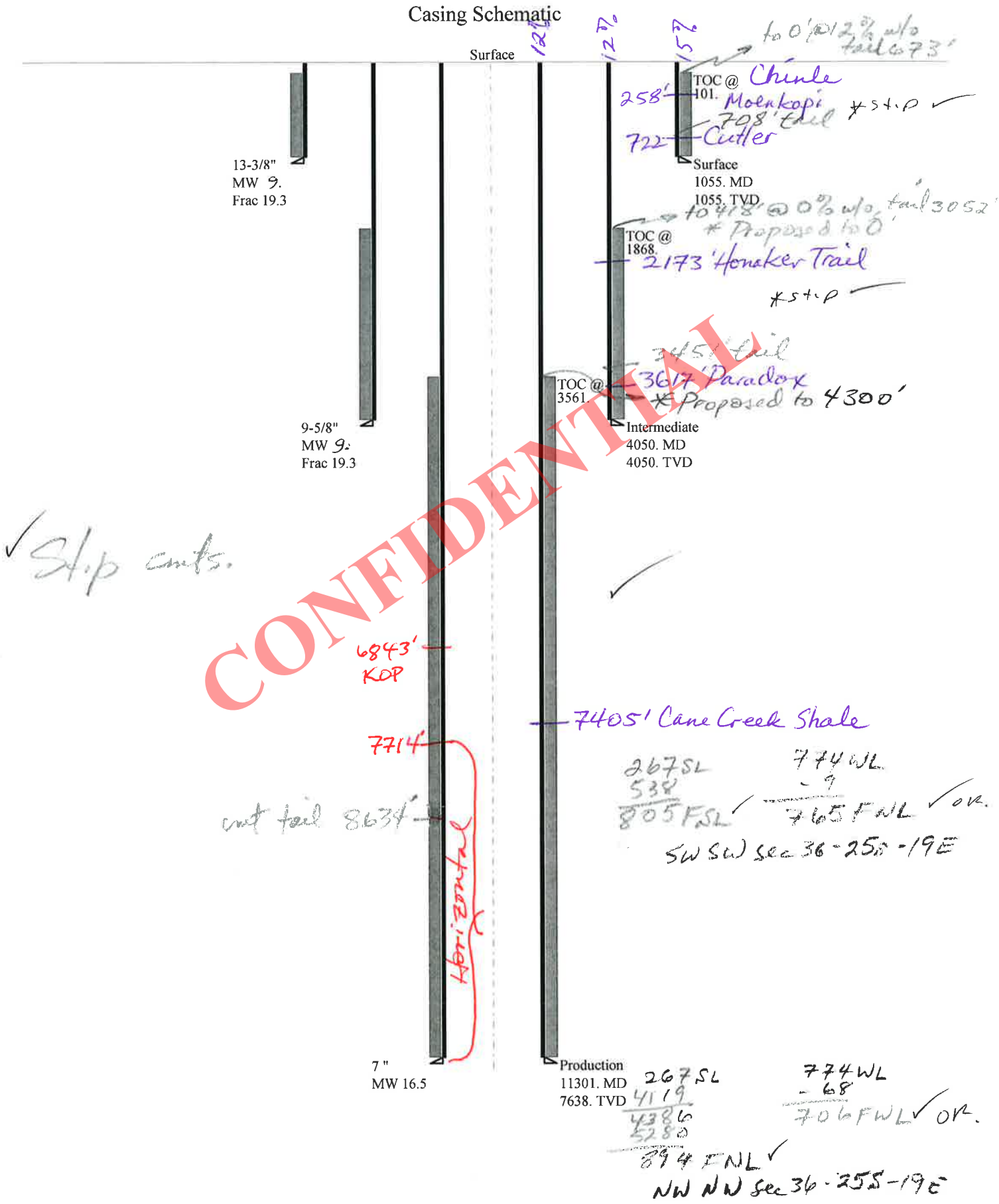
RECEIVED: April 10, 2013

API Well Number: 43019500300000

43019500300000 Cane Creek Unit #36-1

Casing Schematic



CONFIDENTIAL

API Well Number: 43019500300000

Well name:	**43019500300000 Cane Creek Unit #36-1**
Operator:	**FIDELITY E&P COMPANY**
String type:	Surface
Project ID:	43-019-50030
Location:	GRAND COUNTY

Design parameters:

Collapse

Mud weight: 9.000 ppg

Design is based on evacuated pipe.

Burst

Max anticipated surface pressure: 928 psi

Internal gradient: 0.120 psi/ft

Calculated BHP 1,055 psi

No backup mud specified.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Tension:

8 Round STC: 1.80 (J)

8 Round LTC: 1.70 (J)

Buttress: 1.60 (J)

Premium: 1.50 (J)

Body yield: 1.50 (B)

Tension is based on air weight.

Neutral point: 915 ft

Environment:

H2S considered? No

Surface temperature: 74 °F

Bottom hole temperature: 89 °F

Temperature gradient: 1.40 °F/100ft

Minimum section length: 100 ft

Cement top: 101 ft

Non-directional string.

Re subsequent strings:

Next setting depth: 4,050 ft

Next mud weight: 9.000 ppg

Next setting BHP: 1,894 psi

Fracture mud wt: 19.250 ppg

Fracture depth: 1,055 ft

Injection pressure: 1,055 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost ($)
1	1055	13.375	54.50	J-55	Buttress	1055	1055	12.49	14010

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	493	1130	2.291	1055	2730	2.59	57.5	853.2	14.84 B

Prepared by: Helen Sadik-Macdonald
Div of Oil,Gas & Mining
Phone: 801 538-5357
FAX: 801-359-3940

Date: April 8,2013
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 1055 ft, a mud weight of 9 ppg The casing is considered to be evacuated for collapse purposes.
Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

CONFIDENTIAL

API Well Number: 43019500300000

Well name:	**43019500300000 Cane Creek Unit #36-1**
Operator:	**FIDELITY E&P COMPANY**
String type:	Intermediate
Project ID:	43-019-50030
Location:	GRAND COUNTY

Design parameters:

Collapse

Mud weight: 9.000 ppg

Design is based on evacuated pipe.

Burst

Max anticipated surface pressure: 3,159 psi

Internal gradient: 0.220 psi/ft

Calculated BHP 4,050 psi

No backup mud specified.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Tension:

8 Round STC: 1.80 (J)

8 Round LTC: 1.70 (J)

Buttress: 1.60 (J)

Premium: 1.50 (J)

Body yield: 1.50 (B)

Tension is based on air weight.

Neutral point: 3,508 ft

Environment:

H2S considered? No

Surface temperature: 74 °F

Bottom hole temperature: 131 °F

Temperature gradient: 1.40 °F/100ft

Minimum section length: 100 ft

Cement top: 1,868 ft

Non-directional string.

Re subsequent strings:

Next setting depth: 7,638 ft

Next mud weight: 16.500 ppg

Next setting BHP: 6,547 psi

Fracture mud wt: 19.250 ppg

Fracture depth: 4,050 ft

Injection pressure: 4,050 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost ($)
1	4050	9.625	40.00	L-80	Buttress	4050	4050	8.75	62014

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	1894	3090	1.632	4050	5750	1.42	162	916.3	5.66 B

Prepared by: Helen Sadik-Macdonald
Div of Oil,Gas & Mining
Phone: 801 538-5357
FAX: 801-359-3940

Date: April 8,2013
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 4050 ft, a mud weight of 9 ppg The casing is considered to be evacuated for collapse purposes.
Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

CONFIDENTIAL

API Well Number: 43019500300000

Well name:	**43019500300000 Cane Creek Unit #36-1**
Operator:	**FIDELITY E&P COMPANY**
String type:	Production
Project ID:	43-019-50030
Location:	GRAND COUNTY

Design parameters:

Collapse

Mud weight: 16.500 ppg

Design is based on evacuated pipe.

Burst

Max anticipated surface pressure: 4,866 psi

Internal gradient: 0.220 psi/ft

Calculated BHP 6,547 psi

No backup mud specified.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Tension:

8 Round STC:	1.80 (J)
8 Round LTC:	1.80 (J)
Buttress:	1.60 (J)
Premium:	1.50 (J)
Body yield:	1.60 (B)

Tension is based on air weight.

Neutral point: 5,806 ft

Estimated cost: 141,264 ($)

Environment:

H2S considered?	No
Surface temperature:	74 °F
Bottom hole temperature:	181 °F
Temperature gradient:	1.40 °F/100ft
Minimum section length:	100 ft
Cement top:	3,560 ft

Directional well information:

Kick-off point	6848 ft
Departure at shoe:	4119 ft
Maximum dogleg:	10 °/100ft
Inclination at shoe:	86.52 °

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Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost ($)
3	3800	7	29.00	P-110	Buttress	3800	3800	6.059	45921
2	4000	7	32.00	HCP-110	Buttress	7425	7800	6	53038
1	3501	7	29.00	P-110	Buttress	7638	11301	6.059	42305

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
3	3257	8170	2.508	5702	11220	1.97	232.4	929.4	4.00 B
2	6365	10763	1.691	6500	11640	1.79	122.2	1024.9	8.39 B
1	6547	8530	1.303	6547	11220	1.71	6.2	929.4	99.99 B

Prepared by: Helen Sadik-Macdonald
Div of Oil,Gas & Mining
Phone: 801 538-5357
FAX: 801-359-3940

Date: April 8,2013
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 7638 ft, a mud weight of 16.5 ppg The casing is considered to be evacuated for collapse purposes.
Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.
Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Engineering responsibility for use of this design will be that of the purchaser.

ON-SITE PREDRILL EVALUATION
Utah Division of Oil, Gas and Mining

Operator FIDELITY E&P COMPANY
Well Name Cane Creek Unit 36-1
API Number 43019500300000 **APD No** 7627 **Field/Unit** BIG FLAT
Location: 1/4,1/4 SWSW **Sec** 36 **Tw** 25.0S **Rng** 19.0E 267 FSL 774 FWL
GPS Coord (UTM) **Surface Owner**

Participants

Bart Kettle-DOGM, Nicole Nielson-UDWR, Ed Bonner-SITLA, Charlie Harrison-Harrison Oil Field Services, Mike Keller-Fidelity E&P Company and resource staff from Moab BLM including Melanie Hunter, Katie Steens, Larry King, Bonnie Carsons and Ann Maria.

Regional/Local Setting & Topography

Proposed project site is located ~28 miles northwest of Moab Utah, in Grand County Utah. On a regional setting the proposed project is located in the Canyonlands Region of the Colorado Plateau. The Canyonlands Region is renowned for its red rock canyons and spectacular views. Tourism is a growing industry in the region. In close proximity to the proposed project site, Dead Horse State Park, Aches National Park and Canyonlands National Park are popular destinations along with the community of Moab Utah. On a local scale the proposed project site is located near Big Flat between the South Fork of Seven mile Canyon and Bull Canyon. Local points of interest include: Gemini Arch, Gemini Bridges, Arths Pasture, Seven mile Canyon, Long Canyon, Dead Horse Point, Horsetheif Point, Mineral Bottoms, Islands in the Sky, Hell Roaring Canyon, Courthouse Rock and Dubinky Point. Topography at Big Flat is typical of the Canyonlands Region: a series of large sandy mesa's abruptly falling off into steep canyons comprised of alternating layers of sandstone and shale. Climatic conditions within the region are arid, and vegetation is typically sparse. The proposed project site is located on a gentle slope consisting of sandy loam soils deposited on sandstone bedrock. Precipitation is considered a 10-12" precip zone. Soils are dominated by Eolian deposits and are predominantly unstable sands and sandy loams. Vegetation would be described as Pinion-Juniper Woodlands dominated by Utah Juniper and Pinion Pine communities. Water drainage is to the northeast, entering an unnamed wash immediately, Bull Canyon within 2.75 miles and the Colorado River within 9 miles. No perennial water sources where observed in close proximity to the project site.

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Surface Use Plan

Current Surface Use
Recreational
Wildlfe Habitat

New Road Miles	Well Pad		Src Const Material	Surface Formation
0.15	**Width** 390	**Length** 500	Onsite	GLNCN

Ancillary Facilities N

Waste management plan not included in original APD. Additional information requested to address handling procedures of oil base drilling mediums.

Waste Management Plan Adequate? N

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Environmental Parameters

Affected Floodplains and/or Wetlands N

Ephemeral drainage adjacent to proposed project site

Flora / Fauna

Flora
Grass: Needle and thread, Indian Rice Grass, cheat grass.
Forbs: Lomation spp.
Shrubs: Wyoming sage, broom snakeweed, black brush, Mormon tea, Fremont barberry, long flow snow berry, cliffrose and four wing salt brush.
Succulents: Prickly pear cactus spp.

Fauna: Mule deer, big horn sheep, coyote, kit fox, gray fox. Seasonal use by migrating birds such as sage sparrow, cassin finch, house finch, pinion jay, white crowned sparrow, gray crowned rosy finch, blue gray knat catcher, Bewick's wren, black throated sparrow, black capped chickadee, Brewers sparrow, bushtit, western kingbird, chipping sparrow, common nighthawk, Coppers hawk, sharp shin hawk, red tailed hawk, ruff legged hawk, golden eagle, turkey vulture, Downey wood pecker, juniper titmouse, northern shrike, mountain bluebird, mourning dove, pine siskin, sage thrasher, western blue bird, and western meadow lark. . Host of small rodents and reptiles possible such as: Black tailed rabbit, cottontail rabbit, woodrat spp, kangaroo rat spp., deer mouse, pinion mouse, rock squirrel, spotted skunk, and antelope squirrel.

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Soil Type and Characteristics

Reddish orange sands and sandy loams.

Erosion Issues Y

Soils prone to wind and water erosion once disturbed.

Sedimentation Issues N

Site Stability Issues N

Site appears suitable for proposed drilling program. Diversion and rip rap will be required for small drainages on western portion of well pad.

Drainage Diverson Required? Y

Drainage diversion will be required at corner #5 & #7.

Berm Required? N

Erosion Sedimentation Control Required? Y

Interim reclamation should be completed outside of anchors within one year following well pad construction.

Paleo Survey Run? Y **Paleo Potental Observed?** N **Cultural Survey Run?** Y **Cultural Resources?** N

Reserve Pit

Site-Specific Factors		Site Ranking
Distance to Groundwater (feet)	>200	0
Distance to Surface Water (feet)	>1000	0

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Dist. Nearest Municipal Well (ft)	>5280	0	
Distance to Other Wells (feet)	>1320	0	
Native Soil Type	High permeability	20	
Fluid Type	Oil Base Mud Fluid	15	
Drill Cuttings	Salt or Detrimental	10	
Annual Precipitation (inches)	10 to 20	5	
Affected Populations			
Presence Nearby Utility Conduits	Not Present	0	
	Final Score	50	1 Sensitivity Level

Characteristics / Requirements

Proposed drilling system includes the use of a oil based mud drilling system to stabilize hole through Paradox salt zones. As such a 210' x 90' x 10' reserve pit is being proposed along with a closed loop drilling system for oil based drilling mediums.

Proposed drilling program includes a 8252' vertical hole followed by a 5327' lateral. Duration to complete drilling program is anticipated to exceed 30 days. Due to prolonged drilling program pit liners shall be inspected weekly to assure integrity.

Reserve pit fluids at sites with comparable drilling programs within the Paradox formation have had TDS in excess of 50,000 mg/l. Additional reclamation steps may be required for materials high in chlorides. Precautions should be taken while drilling to assure salt or detrimental cuttings are not mixed with normal rock cuttings.

Surface formations are members of the Glen Canyon group and are capable of containing fresh water aquifers. Permeability of soils and underlying sandstones is medium to high. Pit liner of 20 ml for reserve pit shall be properly installed with bedding of sand or felt. Tanks and handling equipment containing oil based drilling materials should be underlain with a 20 mil synthetic liner as secondary containment.

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Closed Loop Mud Required? Y **Liner Required?** **Liner Thickness** **Pit Underlayment Required?**

Other Observations / Comments

Access road is proposed as a 14' running surface with turnouts. Minimal construction will be completed until well is deemed capable of commercial production. Pit run will be placed at wash crossing and portions of road requiring maintenance during drilling operations.

DOGM noted significant concerns regarding reserve/cuttings pit lining, management and reclamation. Pit contents with TDS in excess of 50,000 mg/l are possible, as such additional stipulations and precautions will be required.

Top 6-12" of top soils should be saved and stockpile on the east and southern sides of the well pad. All disturbed soils shall be seeded within 12 months of disturbance.

Bart Kettle	2/22/2013
Evaluator	**Date / Time**

RECEIVED: April 10, 2013

Application for Permit to Drill
Statement of Basis
Utah Division of Oil, Gas and Mining

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
7627	43019500300000	LOCKED	OW	S	No
Operator	FIDELITY E&P COMPANY		**Surface Owner-APD**		
Well Name	Cane Creek Unit 36-1		**Unit**	CANE CREEK	
Field	BIG FLAT		**Type of Work**	DRILL	
Location	SWSW 36 25S 19E S 267 FSL 774 FWL GPS Coord (UTM) 606256E 4270874N				

Geologic Statement of Basis

The proposed well would be spud in sandy soil that has been developed from the Kayenta Formation, which is exposed at the surface at this location. The well location is approximately one mile and a half from the axis of the Cane Creek Anticline. It is reasonable to expect that fractures & joints may result in zones of lost circulation during drilling. There are no underground water rights within one mile of the proposed location; however, Canyonlands Cattle Co. has two rediversion water rights for watering stock. It is unlikely that fresh water will be encountered, at this location, in the Wingate Aquifer. The proposed casing and cementing program should adequately protect any useable groundwater resources encountered during the drilling of this well.

Ammon McDonald — **APD Evaluator**

3/26/2013 — **Date / Time**

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Surface Statement of Basis

On-site evaluation conducted February 29, 2012. In attendance: Bart Kettle-Division of Oil, Gas and Mining (DOGM), Nicole Nielson-Division of Wildlife Resources (UDWR), Ed Bonner-Trust Lands Administration (SITLA), Mike Keller-Fidelity E&P Company, Charlie Harrison-Harrison Oil Field Services and Moab BLM resource staff Melanie Hunter, Katie Steens, Larry King, Bonnie Carsons and Ann Maria.

Proposed project was originally presented as state surface with horizontal leg drilling into federal minerals. As such an on-site evaluation was scheduled by the Moab BLM following a Notice of Staking from operator. Both the Moab BLM and DOGM on-site evaluations were conducted together. Since on-site inspections have been conducted changes to the drilling program have eliminated activity within federal minerals. Submitted application is being processed using original on-site evaluation.

Proposed project is located in an environmentally sensitive region. National Parks, slick rock trails, river rafting and scenic views attract thousands of tourist to the region annually. Due to recent awareness of mineral exploration in the area it is reasonable to expect scrutiny of drilling operations for proposed project. Operator instructed to monitor drilling operations and ROW activity closely. Problems should be addressed immediately. Steps to limit activity during peak tourist season, and hours of the day are recommended.

DOGM is requiring additional precautions for reserve pit and handling of salt laden and oil base mud cuttings. Slopes of pit walls should not exceed 2:1. Pits shall be lined as determined by site evaluation ranking. The geomembrane shall consist of 20 mil string

RECEIVED: April 10, 2013

reinforced LDPE or equivalent liner for reserve pit. The geomembrane liner should be composed of an impervious synthetic material resistant to hydrocarbons, salts and alkaline solutions.

Tanks and equipment handling or storing oil based drilling mediums and chloride laden cuttings will require 20 mil string reinforced geomembrane liner. Liner should be placed over prepared surface containing 12" berms and key trench to secure liner.

Blasting is anticipated for reserve pit, fractured rock should be properly bedded with sand or a felt liner. Liner edges should be secured. Liner should be protected from fluid force or mechanical damage at points of discharge or suction.

Due to anticipated prolonged drilling operations precautions should be taken to prevent punctures from drilling related activities. Weekly inspection of liner should be conducted and recorded. Surface water run off should not be allowed to enter pits.

While drilling three sides of pits should be fenced. Fencing should include reinforced corner braces, 36" woven net wire on the bottom and two strands of barbed wire on top spaced at 6" apart. Following completion of drilling activities pits will require fencing on the fourth side, removal of free standing oil and netting to prevent entry by water fowl.

Pits will require reclamation to be completed one year following the removal of drilling rig. Reclamation measures shall be submitted to DOGM for approval following analysis of pit contents.

CONFIDENTIAL

Bart Kettle	2/22/2013
Onsite Evaluator	**Date / Time**

Conditions of Approval / Application for Permit to Drill

Category	Condition
Drilling	A geomembrane liner with a minimum thickness of 20 mils shall be properly installed and maintained under tanks and equipment storing or handling oil based drilling fluids or salt laden cuttings. Geomembrane liner shall consist of a string reinforced impervious synthetic material, resistant to hydrocarbons, salts and alkaline solutions.
Pits	A representative sample of drill cuttings shall be collected and analyzed prior to disposal at approved facility.
Pits	A closed loop mud circulation system is required while using oil based drilling mediums.
Pits	The reserve pit shall be fenced upon completion of drilling operations. Netting will be required over pit if it contains hydrocarbons or RCRA-exempt hazardous substances.
Pits	Reserve pit liner shall be protected from fluid force or mechanical damage at points of discharge or suction.
Pits	A geomembrane liner with a minimum thickness of 20 mils shall be properly installed and maintained in the reserve pit. The geomembrane liner shall consist of a string reinforced impervious synthetic material, resistant to hydrocarbons, salts and alkaline solutions.
Surface	The Division shall be consulted prior to reclamation of reserve pit and drill cuttings.
Surface	Weekly inspections of liners shall be conducted and documented until materials are removed, or reserve pit is reclaimed.
Surface	Fractured rock in reserve pit area or oil based mud handling areas shall be properly bedded.
Surface	Liner edges must be secured.

RECEIVED: April 10, 2013

Jean Sweet <jsweet@utah.gov>

Oil based handling Doc for 4301950030

1 message

Bart Kettle <bartkettle@utah.gov>
To: Jean Sweet <jsweet@utah.gov>

25S 19E 36

Thu, Mar 21, 2013 at 2:38 PM

Jean,

Can you have this included into the well file for the Cane Creek Unit 36-1, API 43-019-50030.

Bart Kettle
Environmental Scientist
Office 435-613-3734
Cellular 435-820-0862

Oil Based Fluid and cuttings management (2).docx
18K

Oil Based Fluid & Cuttings Management

The following information has been requested by UDOGM for the permit of the Cane Creek 36-1H State Well.

1. How will Oil based materials be handled prior to use for drilling and while drilling?
    a. The oil based mud used from a previous well is transferred to NOV's, (*National Oilwell Varco*), facility in Moab, where it is stored until we are ready for it on the next well. At the appropriate time, it is transferred back out to the location, by truck, and put into the active mud system. Because NOV has a facility in Moab, we do little "mixing of mud" on location because it takes too long. It is pre-prepared and brought out to us where it is put into the active mud pit system or stored in 400 barrel upright tanks.
2. Where and in what will OBM and cuttings be stored?
    a. (See question 5 first). The cuttings come from the shaker/dryers into a small cuttings bin, (about 8' long, 6' wide 4' high). When the small bin fills up it is picked up by a forklift and emptied into a large bin – about 30' long, 8' wide, 8' high. When the large bin is full it is taken to the Klondike facility to empty. And then the process starts over again. These cuttings are never stored in a pit.
3. How will spills be prevented? If there are spills what is the procedure?
    a. Containment. Prevent spread of any released material. Recover material, return to circulation.
4. At what point in the drilling program will the switch to a closed loop system be completed?
        i. We drill with air to the 9-5/8" casing point at approximately 4500'. When we drill out of the 9-5/8" casing we go to oil based mud in a closed loop system.
    b. Will the reserve pit be used after that time?
        i. We use it as a container for fresh water.
5. What is the drying process for OBM cuttings?
    a. After being brought to surface they run over the shale shaker removing the majority of the mud so it can be returned to the active system for continuous use. Then, these cuttings that have been removed from the mud, go across another set of shakers called "drying shakers", removing more mud from them, (that mud goes back for re-use). Then cuttings are transported into a "Vertical Cuttings Dryer" where they are spun until they come out in the aforementioned "small bin". At this point they are likened to large dust. Between the small bin and large bins, cellulose in the form saw dust may be added as an additional absorbent if needed. The technical specifications of the shaking and drying equipment can be obtained if needed. It is standard oilfield equipment, in operation on many drilling locations at any given time in the US.
6. How will you test them?
    a. We don't plan on testing them as they will not be buried in a pit.
7. What is the intended facility if they are removed?
    a. The cuttings will not be stored on location, but be taken to the "Klondike Facility".
8. Do you have estimated volumes of OBM mud that will be needed and what volume of cutting do you anticipate generating?
    a. The estimated volume of mud needed, assuming the well is drilled to the planned depth and no lost circulation is encountered, is a 500 barrel active system on surface plus 772 barrels of hole volume; if the well is drilled to 11,000', for a total of 1,272 barrels or 264.5 cubic yards.

b. Again making the assumption that we drill an 8-1/2" hole from 4500', (previously assumed 9-5/8" casing point), to the assumed total maximum depth of 11,000', we will have excavated 456.21 barrels or 94.8 cubic yards.

9. Anticipated time frames OBM materials will be on well pad?
    a. 25 to 30 days, depending on the actual depth drilled to. We have 8 previous wells and 2 sidetrack wells that can show the case history of time on location.

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 2/7/2013
API NO. ASSIGNED: 43019500300000
WELL NAME: Cane Creek Unit 36-1
OPERATOR: FIDELITY E&P COMPANY (N3155)
PHONE NUMBER: 720 956-5763
CONTACT: Joy Gardner

PROPOSED LOCATION: SWSW 36 250S 190E
Permit Tech Review: ✔

SURFACE: 0267 FSL 0774 FWL
Engineering Review: ✔

BOTTOM: 0870 FNL 0700 FWL
Geology Review: ✔

COUNTY: GRAND
LATITUDE: 38.57999
LONGITUDE: -109.78011
UTM SURF EASTINGS: 606256.00
NORTHINGS: 4270874.00
FIELD NAME: BIG FLAT
LEASE TYPE: 3 - State
LEASE NUMBER: ML-40571
PROPOSED PRODUCING FORMATION(S): CANE CREEK
SURFACE OWNER: 3 - State
COALBED METHANE: NO

CONFIDENTIAL

RECEIVED AND/OR REVIEWED:

- ✔ **PLAT**
- ✔ **Bond:** STATE - 190017646/104891324
- ☐ **Potash**
- ☐ **Oil Shale 190-5**
- ☐ **Oil Shale 190-3**
- ☐ **Oil Shale 190-13**
- ✔ **Water Permit:** Municipal
- ☐ **RDCC Review:**
- ☐ **Fee Surface Agreement**
- ☐ **Intent to Commingle**

Commingling Approved

LOCATION AND SITING:

- ☐ **R649-2-3.**

Unit: CANE CREEK

- ☐ **R649-3-2. General**
- ☐ **R649-3-3. Exception**
- ✔ **Drilling Unit**

Board Cause No: R649-3-2
Effective Date:
Siting:

- ☐ **R649-3-11. Directional Drill**

Comments: Presite Completed

Stipulations:
5 - Statement of Basis - bhill
8 - Cement to Surface -- 2 strings - hmacdonald
13 - Cement Volume Formation (3a) - hmacdonald
27 - Other - bhill

RECEIVED: April 10, 2013

GARY R. HERBERT
Governor
GREGORY S. BELL
Lieutenant Governor

State of Utah
DEPARTMENT OF NATURAL RESOURCES
MICHAEL R. STYLER
Executive Director
Division of Oil, Gas and Mining
JOHN R. BAZA
Division Director

Permit To Drill

****

Well Name: Cane Creek Unit 36-1
API Well Number: 43019500300000
Lease Number: ML-40571
Surface Owner: STATE
Approval Date: 4/10/2013

Issued to:
FIDELITY E&P COMPANY, 1700 Lincoln Street Ste 2800, Denver, CO 80203

Authority:
Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of R649-3-2. The expected producing formation or pool is the CANE CREEK Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:
This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

General:
Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:
Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

In accordance with Utah Admin. R.649-3-21, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

Cement volumes for the 13 3/8" and 9 5/8" casing strings shall be determined from actual hole diameters in order to place cement from the pipe setting depths back to the surface.

Cement volume for the 7" production string shall be determined from actual hole diameter in order to place cement from the pipe setting depth back to 3650' MD in order to adequately isolate the Paradox formation.

Additional Approvals:
The operator is required to obtain approval from the Division of Oil, Gas and mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan - contact Dustin Doucet
- Significant plug back of the well - contact Dustin Doucet
- Plug and abandonment of the well - contact Dustin Doucet

Notification Requirements:
The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well - contact Carol Daniels OR submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at http://oilgas.ogm.utah.gov
- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to cementing or testing casing - contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program - contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well - contact Dan Jarvis

Contact Information:
The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 - office
- Dustin Doucet 801-538-5281 - office
  801-733-0983 - after office hours
- Dan Jarvis 801-538-5338 - office
  801-231-8956 - after office hours

Reporting Requirements:
All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) - due within 5 days of spudding the well
- Monthly Status Report (Form 9) - due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) - due prior to implementation
- Written Notice of Emergency Changes (Form 9) - due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) - due prior to implementation
- Report of Water Encountered (Form 7) - due within 30 days after completion
- Well Completion Report (Form 8) - due within 30 days after completion or plugging

Approved By:

Approved By:

For John Rogers
Associate Director, Oil & Gas

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

5.LEASE DESIGNATION AND SERIAL NUMBER: ML-40571

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: CANE CREEK

1. TYPE OF WELL Oil Well

8. WELL NAME and NUMBER: Cane Creek Unit 36-1

2. NAME OF OPERATOR: FIDELITY E&P COMPANY

9. API NUMBER: 43019500300000

3. ADDRESS OF OPERATOR: 1700 Lincoln Street Ste 2800 , Denver, CO, 80203

PHONE NUMBER: 720 931-6459 Ext

9. FIELD and POOL or WILDCAT: BIG FLAT

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0267 FSL 0774 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 36 Township: 25.0S Range: 19.0E Meridian: S

COUNTY: GRAND

STATE: UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 5/15/2013	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ SPUD REPORT Date of Spud:	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Fidelity exploration would like to request permission to perform a Vertical Seismic Profile on the referenced well. The source will be located approximately 200' to 500' from the well bore on the far North side of the 36-1 well pad, and will take around 8 hours. The VSP will take place once the 7" production casing is cemented and a cement bond log has been run, which should be roughly on the 15th of May, 2013. There will be no additional disturbance to the area.

Approved by the Utah Division of Oil, Gas and Mining

Date: May 02, 2013

By: Dark K Quist

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Joy Gardner	720 956-5763	Sr. Engineering Tech

SIGNATURE	DATE
N/A	4/23/2013

RECEIVED: Apr. 23, 2013

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: ML-40571

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: CANE CREEK

1. TYPE OF WELL Oil Well

8. WELL NAME and NUMBER: Cane Creek Unit 36-1

2. NAME OF OPERATOR: FIDELITY E&P COMPANY

9. API NUMBER: 43019500300000

3. ADDRESS OF OPERATOR: 1700 Lincoln Street Ste 2800 , Denver, CO, 80203

PHONE NUMBER: 720 931-6459 Ext

9. FIELD and POOL or WILDCAT: UNDESIGNATED

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0267 FSL 0774 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 36 Township: 25.0S Range: 19.0E Meridian: S

COUNTY: GRAND

STATE: UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
✓ SPUD REPORT Date of Spud: 5/10/2013	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Fidelity Exploration and Production Company spud referenced well on 5/10/2013. Set 120' of 20" 52.78# conductor pipe and cemented to surface with 15 cu yards C-ment.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
May 16, 2013

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Joy Gardner	720 956-5763	Sr. Engineering Tech

SIGNATURE	DATE
N/A	5/16/2013

RECEIVED: May. 16, 2013

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

5.LEASE DESIGNATION AND SERIAL NUMBER: ML-40571

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: CANE CREEK

1. TYPE OF WELL Oil Well

8. WELL NAME and NUMBER: Cane Creek Unit 36-1

2. NAME OF OPERATOR: FIDELITY E&P COMPANY

9. API NUMBER: 43019500300000

3. ADDRESS OF OPERATOR: 1700 Lincoln Street Ste 2800 , Denver, CO, 80203

PHONE NUMBER: 720 931-6459 Ext

9. FIELD and POOL or WILDCAT: UNDESIGNATED

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0267 FSL 0774 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 36 Township: 25.0S Range: 19.0E Meridian: S

COUNTY: GRAND

STATE: UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 5/20/2013	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	✓ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
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☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Fidelity would like to request permission to drill the Cane Creek horizontally as per the attached directional program. It is anticipated that an 8-1/2" pilot hole will be drilled through the Cane Creek Shale. After evaluation, the well will be plugged back to approximately 6905' and drilled directionally from a kick-off point of 6855' MD to the 7" casing land point of 12,377' MD (8,000' TVD). There the 7" casing will be set and cemented. The actual directional program may be altered as dictated by hole conditions, log evaluation, or core analysis. Bottom hole location is Sec 36, T25S, R19E 1490' FNL, 730' FEL (SENE). Please refer to the attached directional program for details.

Approved by the Utah Division of Oil, Gas and Mining

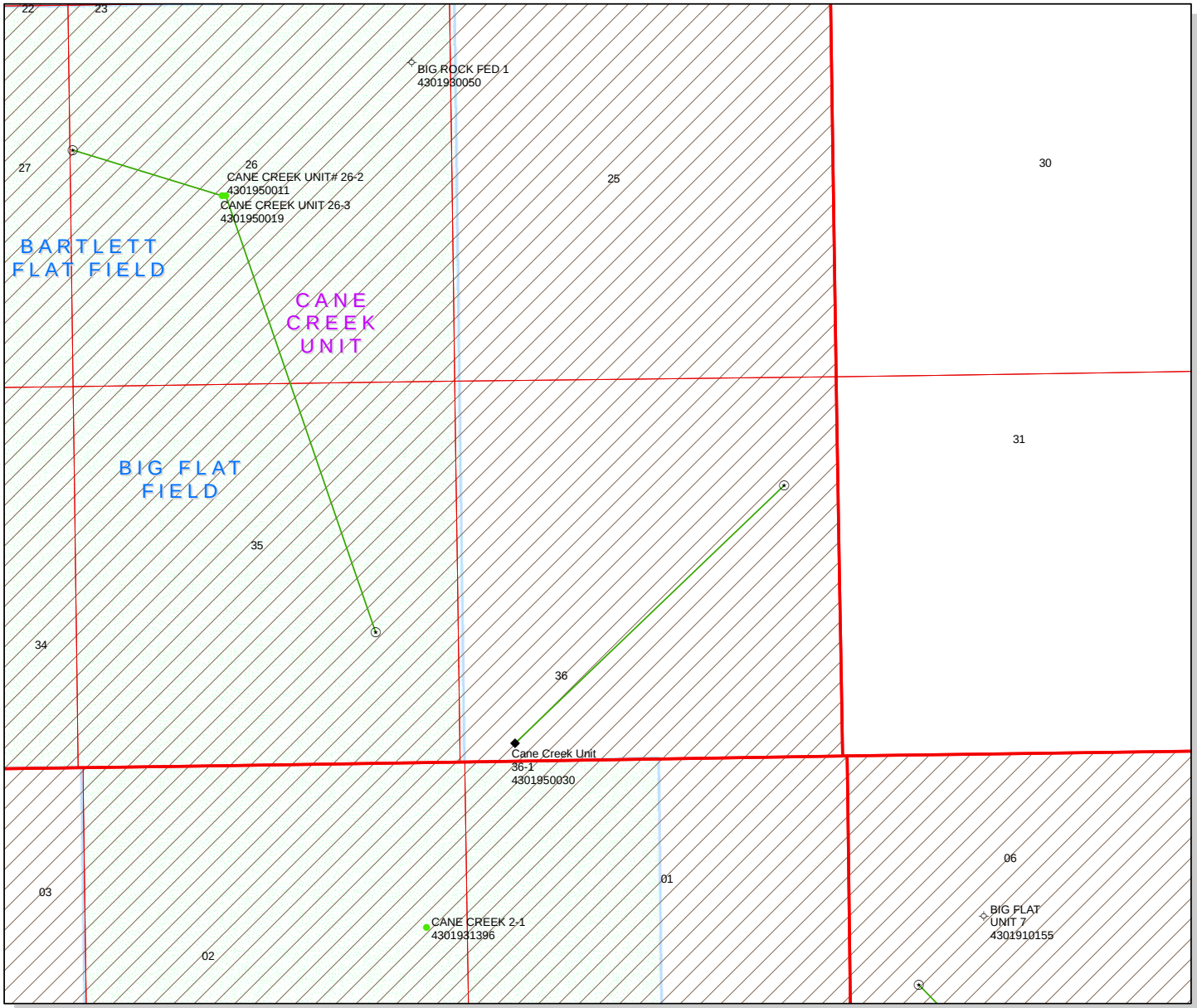
Date: May 20, 2013

By: Dark K Quist

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Joy Gardner	720 956-5763	Sr. Engineering Tech

SIGNATURE	DATE
N/A	5/9/2013

RECEIVED: May. 09, 2013



API Number: 4301950030

Well Name: Cane Creek Unit 36-1

Township T25.0S Range R19.0E Section 36

Meridian: SLBM

Operator: FIDELITY E&P COMPANY

Map Prepared:
Map Produced by Diana Mason

Units

STATUS

- ACTIVE
- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

Fields

STATUS

- Unknown
- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- STORAGE
- TERMINATED

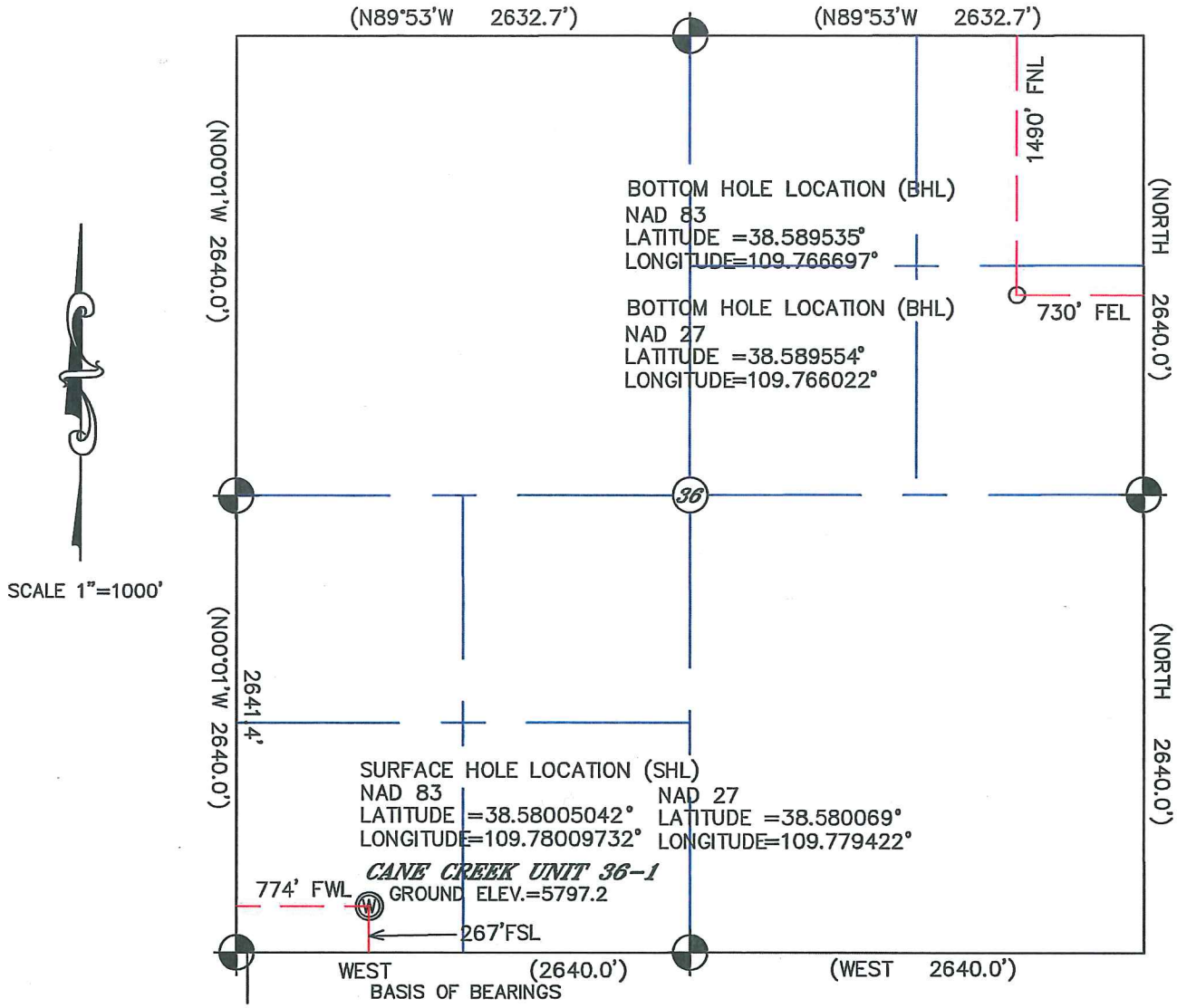
N

1,750 875 0 1,750 Feet

1:17,106

RECEIVED: May. 10, 2013

SECTION 36, T 25 S, R 19 E, SLM



NOTES: DATA IN PARENTHESIS IS OF RECORD. ALL OTHER DATA IS SURVEYED DATA.

ELEVATIONS ARE BASED ON A G.P.S. 2 HOUR STATIC OPUS OBSERVATION.

LEGEND

FOUND GOVERNMENT MONUMENT

(W) SET T-POST WITH LATH AT PROPOSED WELL LOCATION

REGISTERED LAND SURVEYOR No171004 TIMOTHY M. KEOGH STATE OF UTAH

TIMOTHY M. KEOGH

05-08-13
DATE

KEOGH LAND SURVEYING

45 EAST CENTER STREET MOAB, UTAH, 84532

A SURVEY OF

CANE CREEK UNIT 36-1

WITHIN SECTION 36, T 25 S, R 19 E, SLM,
GRAND COUNTY, UTAH

PREPARED FOR

FIDELITY EXPLORATION & PRODUCTION CO.

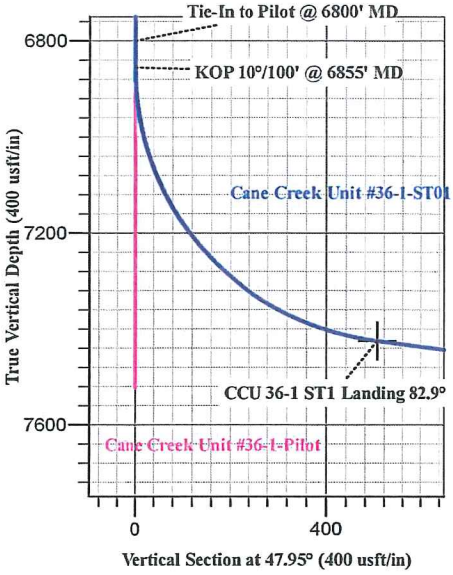
DATE: 05-08-13	DRAWN BY: TMK	CHECKED BY: TMK
SCALE: 1"=1000'	F.B.# TDC1	36-1 CCU.DWG

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Cane Creek Unit #36-1
ST01
Sec 36 T25S R19E
Grand County, UT

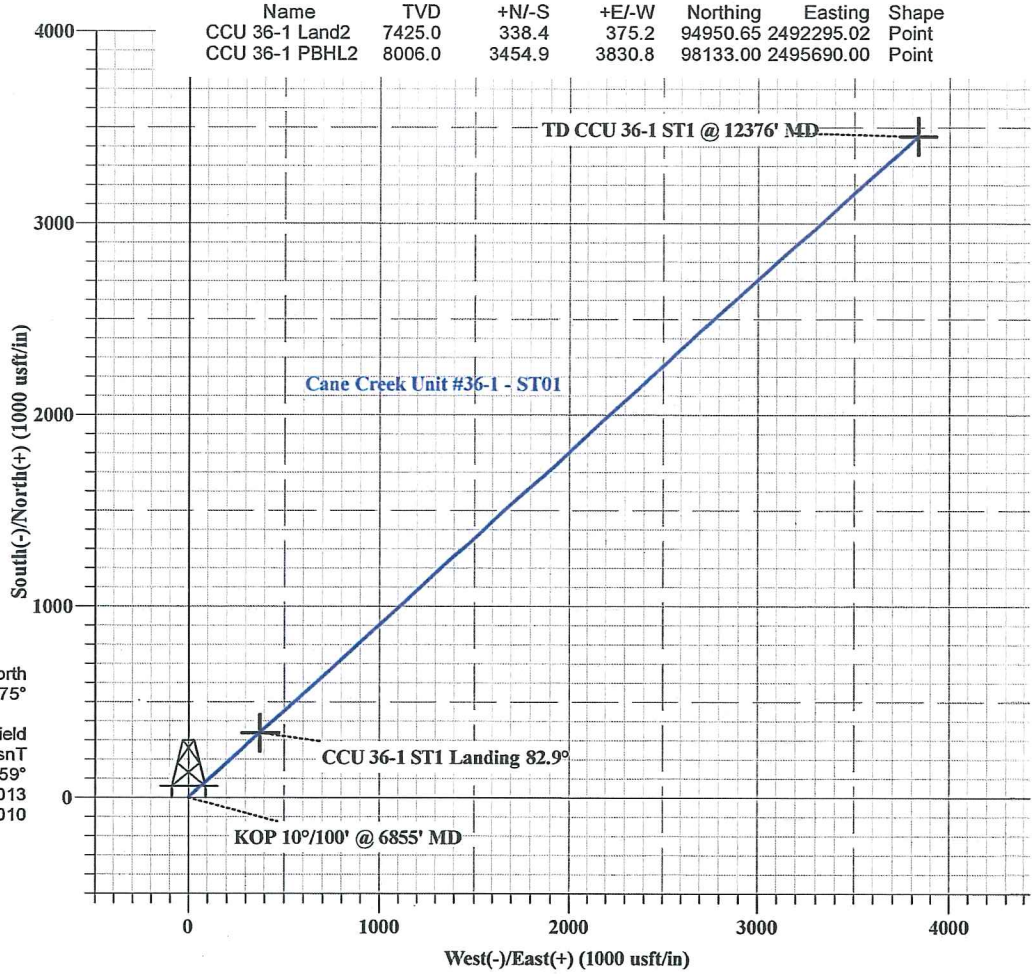
PATHFINDER
A Schlumberger Company

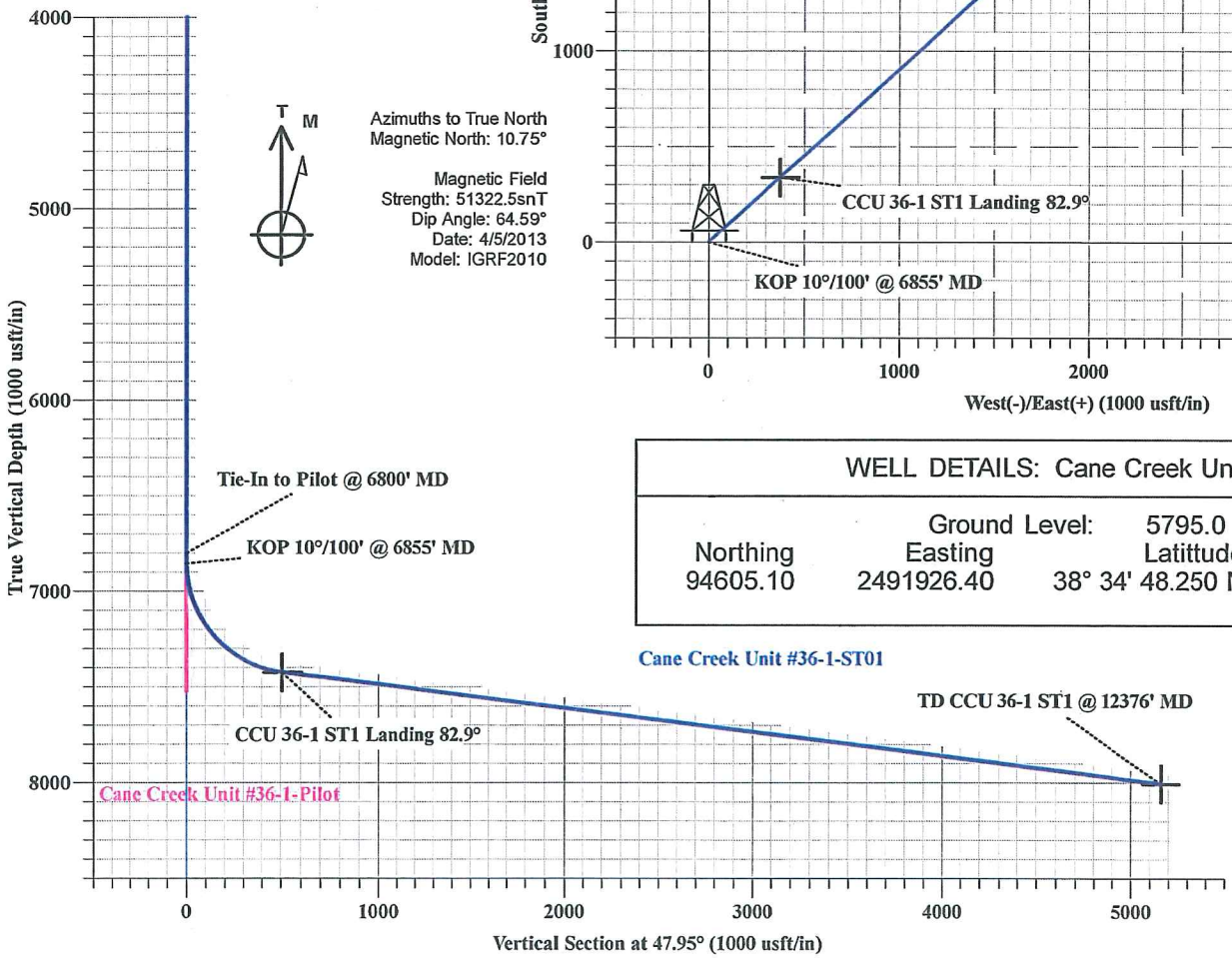
Ground Level: 5795.0
KB: 23'



WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
CCU 36-1 Land2	7425.0	338.4	375.2	94950.65	2492295.02	Point
CCU 36-1 PBHL2	8006.0	3454.9	3830.8	98133.00	2495690.00	Point





WELL DETAILS: Cane Creek Unit #36-1

Ground Level: 5795.0

Northing	Easting	Latitude	Longitude
94605.10	2491926.40	38° 34' 48.250 N	109° 46' 45.919 W

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
6800.0	0.00	0.00	6800.0	0.0	0.0	0.00	0.00	0.0	
6855.0	0.00	0.00	6855.0	0.0	0.0	0.00	0.00	0.0	
7526.7	67.16	47.95	7383.1	234.8	260.4	10.00	47.95	350.6	
7530.2	67.16	47.95	7384.5	237.0	262.8	0.00	0.00	353.9	
7687.5	82.88	47.95	7425.0	338.4	375.2	10.00	0.01	505.3	CCU 36-1 Land2
12376.9	82.88	47.95	8006.0	3454.9	3830.8	0.00	0.00	5158.6	CCU 36-1 PBHL2

Plan: Design #2 (Cane Creek Unit #36-1/ST01)

Created By: Breck Enoch Date: 05-Apr-2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Fidelity Exploration & Production Co.

Grand County, UT
Sec 36 T25S R19E
Cane Creek Unit #36-1

ST01

Plan: Design #2

Standard Planning Report

05 April, 2013

PATHFINDER
A Schlumberger Company

FIDELITY Exploration & Production Company

Pathfinder
Planning Report

PATHFINDER A Schlumberger Company

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well Cane Creek Unit #36-1
Company:	Fidelity Exploration & Production Co.	**TVD Reference:**	WELL @ 5818.0usft (Original Well Elev)
Project:	Grand County, UT	**MD Reference:**	WELL @ 5818.0usft (Original Well Elev)
Site:	Sec 36 T25S R19E	**North Reference:**	True
Well:	Cane Creek Unit #36-1	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	ST01		
Design:	Design #2		

Project Grand County, UT

Map System:	US State Plane 1927 (Exact solution)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Utah Central 4302		

Site Sec 36 T25S R19E

Site Position:		**Northing:**	94,605.10 usft	**Latitude:**	38° 34' 48.250 N
From:	Map	**Easting:**	2,491,926.40 usft	**Longitude:**	109° 46' 45.919 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	1.10 °

Well Cane Creek Unit #36-1

Well Position	**+N/-S**	0.0 usft	**Northing:**	94,605.10 usft	**Latitude:**	38° 34' 48.250 N
	+E/-W	0.0 usft	**Easting:**	2,491,926.40 usft	**Longitude:**	109° 46' 45.919 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**		**Ground Level:**	5,795.0 usft

Wellbore ST01

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	4/5/2013	10.75	64.59	51,323

Design Design #2

Audit Notes:

Version:		**Phase:**	PROTOTYPE	**Tie On Depth:**	6,800.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	47.95

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
6,800.0	0.00	0.00	6,800.0	0.0	0.0	0.00	0.00	0.00	0.00	
6,855.0	0.00	0.00	6,855.0	0.0	0.0	0.00	0.00	0.00	0.00	
7,526.7	67.16	47.95	7,383.1	234.8	260.4	10.00	10.00	0.00	47.95	
7,530.2	67.16	47.95	7,384.5	237.0	262.8	0.00	0.00	0.00	0.00	
7,687.5	82.88	47.95	7,425.0	338.4	375.2	10.00	10.00	0.00	0.01	CCU 36-1 Land2
12,376.9	82.88	47.95	8,006.0	3,454.9	3,830.8	0.00	0.00	0.00	0.00	CCU 36-1 PBHL2

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Well:	Cane Creek Unit #36-1	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	ST01		
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Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00

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Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00
5,700.0	0.00	0.00	5,700.0	0.0	0.0	0.0	0.00	0.00	0.00
5,800.0	0.00	0.00	5,800.0	0.0	0.0	0.0	0.00	0.00	0.00
5,900.0	0.00	0.00	5,900.0	0.0	0.0	0.0	0.00	0.00	0.00
6,000.0	0.00	0.00	6,000.0	0.0	0.0	0.0	0.00	0.00	0.00
6,100.0	0.00	0.00	6,100.0	0.0	0.0	0.0	0.00	0.00	0.00
6,200.0	0.00	0.00	6,200.0	0.0	0.0	0.0	0.00	0.00	0.00
6,300.0	0.00	0.00	6,300.0	0.0	0.0	0.0	0.00	0.00	0.00
6,400.0	0.00	0.00	6,400.0	0.0	0.0	0.0	0.00	0.00	0.00
6,500.0	0.00	0.00	6,500.0	0.0	0.0	0.0	0.00	0.00	0.00
6,600.0	0.00	0.00	6,600.0	0.0	0.0	0.0	0.00	0.00	0.00
6,700.0	0.00	0.00	6,700.0	0.0	0.0	0.0	0.00	0.00	0.00
6,800.0	0.00	0.00	6,800.0	0.0	0.0	0.0	0.00	0.00	0.00
Tie-In to Pilot @ 6800' MD									
6,855.0	0.00	0.00	6,855.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP 10°/100' @ 6855' MD									
6,900.0	4.50	47.95	6,900.0	1.2	1.3	1.8	10.00	10.00	0.00
6,950.0	9.50	47.95	6,949.6	5.3	5.8	7.9	10.00	10.00	0.00
7,000.0	14.50	47.95	6,998.5	12.2	13.5	18.2	10.00	10.00	0.00
7,050.0	19.50	47.95	7,046.3	22.0	24.4	32.9	10.00	10.00	0.00
7,100.0	24.50	47.95	7,092.6	34.5	38.3	51.6	10.00	10.00	0.00
7,150.0	29.49	47.95	7,137.1	49.7	55.1	74.3	10.00	10.00	0.00
7,200.0	34.49	47.95	7,179.5	67.5	74.8	100.8	10.00	10.00	0.00
7,250.0	39.49	47.95	7,219.5	87.6	97.1	130.8	10.00	10.00	0.00
7,300.0	44.49	47.95	7,256.6	110.0	122.0	164.3	10.00	10.00	0.00
7,350.0	49.49	47.95	7,290.7	134.5	149.1	200.8	10.00	10.00	0.00
7,400.0	54.49	47.95	7,321.5	160.9	178.4	240.2	10.00	10.00	0.00
7,450.0	59.49	47.95	7,348.7	188.9	209.5	282.1	10.00	10.00	0.00
7,500.0	64.49	47.95	7,372.2	218.5	242.3	326.2	10.00	10.00	0.00
7,526.7	67.16	47.95	7,383.1	234.8	260.4	350.6	10.00	10.00	0.00
7,530.2	67.16	47.95	7,384.5	237.0	262.8	353.9	0.00	0.00	0.00
7,550.0	69.14	47.95	7,391.8	249.3	276.4	372.2	10.00	10.00	0.00
7,600.0	74.14	47.95	7,407.6	281.1	311.6	419.6	10.00	10.00	0.00
7,650.0	79.14	47.95	7,419.1	313.6	347.7	468.3	10.00	10.00	0.00
7,687.5	82.88	47.95	7,425.0	338.4	375.2	505.3	9.99	9.99	0.00
CCU 36-1 ST1 Landing 82.9°									
7,700.0	82.88	47.95	7,426.6	346.7	384.4	517.7	0.00	0.00	0.00
7,800.0	82.88	47.95	7,438.9	413.2	458.1	616.9	0.00	0.00	0.00
7,900.0	82.88	47.95	7,451.3	479.7	531.8	716.2	0.00	0.00	0.00
8,000.0	82.88	47.95	7,463.7	546.1	605.5	815.4	0.00	0.00	0.00
8,100.0	82.88	47.95	7,476.1	612.6	679.2	914.6	0.00	0.00	0.00
8,200.0	82.88	47.95	7,488.5	679.0	752.9	1,013.9	0.00	0.00	0.00
8,300.0	82.88	47.95	7,500.9	745.5	826.6	1,113.1	0.00	0.00	0.00
8,400.0	82.88	47.95	7,513.3	811.9	900.3	1,212.3	0.00	0.00	0.00
8,500.0	82.88	47.95	7,525.7	878.4	974.0	1,311.5	0.00	0.00	0.00
8,600.0	82.88	47.95	7,538.1	944.8	1,047.6	1,410.8	0.00	0.00	0.00
8,700.0	82.88	47.95	7,550.4	1,011.3	1,121.3	1,510.0	0.00	0.00	0.00
8,800.0	82.88	47.95	7,562.8	1,077.8	1,195.0	1,609.2	0.00	0.00	0.00
8,900.0	82.88	47.95	7,575.2	1,144.2	1,268.7	1,708.5	0.00	0.00	0.00
9,000.0	82.88	47.95	7,587.6	1,210.7	1,342.4	1,807.7	0.00	0.00	0.00
9,100.0	82.88	47.95	7,600.0	1,277.1	1,416.1	1,906.9	0.00	0.00	0.00

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Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,200.0	82.88	47.95	7,612.4	1,343.6	1,489.8	2,006.2	0.00	0.00	0.00
9,300.0	82.88	47.95	7,624.8	1,410.0	1,563.5	2,105.4	0.00	0.00	0.00
9,400.0	82.88	47.95	7,637.2	1,476.5	1,637.1	2,204.6	0.00	0.00	0.00
9,500.0	82.88	47.95	7,649.6	1,543.0	1,710.8	2,303.8	0.00	0.00	0.00
9,600.0	82.88	47.95	7,662.0	1,609.4	1,784.5	2,403.1	0.00	0.00	0.00
9,700.0	82.88	47.95	7,674.3	1,675.9	1,858.2	2,502.3	0.00	0.00	0.00
9,800.0	82.88	47.95	7,686.7	1,742.3	1,931.9	2,601.5	0.00	0.00	0.00
9,900.0	82.88	47.95	7,699.1	1,808.8	2,005.6	2,700.8	0.00	0.00	0.00
10,000.0	82.88	47.95	7,711.5	1,875.2	2,079.3	2,800.0	0.00	0.00	0.00
10,100.0	82.88	47.95	7,723.9	1,941.7	2,153.0	2,899.2	0.00	0.00	0.00
10,200.0	82.88	47.95	7,736.3	2,008.2	2,226.7	2,998.4	0.00	0.00	0.00
10,300.0	82.88	47.95	7,748.7	2,074.6	2,300.3	3,097.7	0.00	0.00	0.00
10,400.0	82.88	47.95	7,761.1	2,141.1	2,374.0	3,196.9	0.00	0.00	0.00
10,500.0	82.88	47.95	7,773.5	2,207.5	2,447.7	3,296.1	0.00	0.00	0.00
10,600.0	82.88	47.95	7,785.9	2,274.0	2,521.4	3,395.4	0.00	0.00	0.00
10,700.0	82.88	47.95	7,798.2	2,340.4	2,595.1	3,494.6	0.00	0.00	0.00
10,800.0	82.88	47.95	7,810.6	2,406.9	2,668.8	3,593.8	0.00	0.00	0.00
10,900.0	82.88	47.95	7,823.0	2,473.4	2,742.5	3,693.1	0.00	0.00	0.00
11,000.0	82.88	47.95	7,835.4	2,539.8	2,816.2	3,792.3	0.00	0.00	0.00
11,100.0	82.88	47.95	7,847.8	2,606.3	2,889.8	3,891.5	0.00	0.00	0.00
11,200.0	82.88	47.95	7,860.2	2,672.7	2,963.5	3,990.7	0.00	0.00	0.00
11,300.0	82.88	47.95	7,872.6	2,739.2	3,037.2	4,090.0	0.00	0.00	0.00
11,400.0	82.88	47.95	7,885.0	2,805.6	3,110.9	4,189.2	0.00	0.00	0.00
11,500.0	82.88	47.95	7,897.4	2,872.1	3,184.6	4,288.4	0.00	0.00	0.00
11,600.0	82.88	47.95	7,909.7	2,938.6	3,258.3	4,387.7	0.00	0.00	0.00
11,700.0	82.88	47.95	7,922.1	3,005.0	3,332.0	4,486.9	0.00	0.00	0.00
11,800.0	82.88	47.95	7,934.5	3,071.5	3,405.7	4,586.1	0.00	0.00	0.00
11,900.0	82.88	47.95	7,946.9	3,137.9	3,479.4	4,685.3	0.00	0.00	0.00
12,000.0	82.88	47.95	7,959.3	3,204.4	3,553.0	4,784.6	0.00	0.00	0.00
12,100.0	82.88	47.95	7,971.7	3,270.8	3,626.7	4,883.8	0.00	0.00	0.00
12,200.0	82.88	47.95	7,984.1	3,337.3	3,700.4	4,983.0	0.00	0.00	0.00
12,300.0	82.88	47.95	7,996.5	3,403.8	3,774.1	5,082.3	0.00	0.00	0.00
12,376.9	82.88	47.95	8,006.0	3,454.9	3,830.8	5,158.6	0.00	0.00	0.00

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
CCU 36-1 Land2 - plan hits target center - Point	0.00	0.00	7,425.0	338.4	375.2	94,950.66	2,492,295.02	38° 34' 51.595 N	109° 46' 41.195 W
CCU 36-1 PBHL2 - plan hits target center - Point	0.00	0.00	8,006.0	3,454.9	3,830.8	98,133.00	2,495,690.00	38° 35' 22.394 N	109° 45' 57.681 W

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Pathfinder
Planning Report

PATHFINDER
A Schlumberger Company

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well Cane Creek Unit #36-1
Company:	Fidelity Exploration & Production Co.	**TVD Reference:**	WELL @ 5818.0usft (Original Well Elev)
Project:	Grand County, UT	**MD Reference:**	WELL @ 5818.0usft (Original Well Elev)
Site:	Sec 36 T25S R19E	**North Reference:**	True
Well:	Cane Creek Unit #36-1	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	ST01		
Design:	Design #2		

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
6,800.0	6,800.0	0.0	0.0	Tie-In to Pilot @ 6800' MD
6,855.0	6,855.0	0.0	0.0	KOP 10°/100' @ 6855' MD
7,687.5	7,425.0	234.8	260.4	CCU 36-1 ST1 Landing 82.9°
12,376.9	8,006.0	237.0	262.8	TD CCU 36-1 ST1 @ 12376' MD

FIDELITY
Exploration & Production Company

May 9, 2013

Diana Mason
State of Utah
Division of Oil, Gas and Mining
P.O.Box 145801
Salt Lake City, UT 84114-5801

Re: Directional Drilling R649-3-11
Cane Creek Unit 36-1– Section 36, 267' FSL, 774' FWL (Surface)
Section 36, 1490' FNL 730' FEL (Bottom hole)
Grand County, Utah

Dear Ms. Mason,

Pursuant to the filing of a sundry for permission to drill the above referenced well horizontally, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-2 pertaining to the Location and Siting of the well.

- The Cane Creek Unit 36-1 well is located within the Cane Creek Unit Area.
- Fidelity Exploration is permitting this well as a directional well in order to minimize surface disturbance. Locating the well at the surface location and directionally drilling from this location will allow us to utilize the existing road and pipelines in the area.
- Furthermore, Fidelity Exploration and Production Company hereby certifies that we are the sole working interest owner within 660 feet of the entire directional well bore, and no portion of the wellbore is closer than 660 feet to a drilling or spacing unit boundary, federally unitized tract within a unit, or boundary line of a lease not committed to the drilling of the well.

Therefore, based on the above state information, Fidelity Exploration and Production Company requests the permit be granted pursuant to R649-3-2.

Respectfully submitted,

Joy Gardner

Joy Gardner
Sr. Engineering Tech

1700 Lincoln Street- Suite 2800, Denver, Colorado 80203 (303) 893-3113; Fax (303) 893-1964

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

5.LEASE DESIGNATION AND SERIAL NUMBER: ML-40571

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: CANE CREEK

1. TYPE OF WELL Oil Well

8. WELL NAME and NUMBER: Cane Creek Unit 36-1

2. NAME OF OPERATOR: FIDELITY E&P COMPANY

9. API NUMBER: 43019500300000

3. ADDRESS OF OPERATOR: 1700 Lincoln Street Ste 2800 , Denver, CO, 80203

PHONE NUMBER: 720 931-6459 Ext

9. FIELD and POOL or WILDCAT: UNDESIGNATED

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0267 FSL 0774 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 36 Township: 25.0S Range: 19.0E Meridian: S

COUNTY: GRAND

STATE: UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 7/3/2013	☐ ACIDIZE	✓ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ SPUD REPORT Date of Spud:	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Due shallow pressure encountered and lost circulation in the production zone, we would like to amend the casing program as per the attached:

Approved by the Utah Division of Oil, Gas and Mining

Date: July 03, 2013

By: Dark K Quist

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Stephanie Masters	307 675-4924	Operations Tech

SIGNATURE	DATE
N/A	7/2/2013

RECEIVED: Jul. 02, 2013

Fidelity Exploration & Production Company Eight Point Plan – Revision for Change in Casing

CANE CREEK 36-1
SEC 36 / T25S / R19E, SWSW, 267' FSL & 774 FWL
GRAND COUNTY, UTAH

1. & 2. ESTIMATED TOPS & ANTICIPATED OIL, GAS, & WATER ZONES:

FORMATION	TVD-RKB (ft)	Sub-Sea (ft)	Lithology	Objective
Windgate Sand	N/A		Sandstone	
Chinle	Surface		Sand/Shale	
Moenkopi	258	+5,560	Sand/Shale	
Cutler	722	+5,096	Sandstone	
Honaker Trail	2,173	+3,645	Sand/Evaporite	
Paradox	3,617	+2,201	Salt/Clastics	Secondary
Cane Creek Shale	7,405	-1,587	Shale	Primary
T.D.	7,650			
T.D. (LATERAL MD)	±12,220			

Estimated TD**: 7,913' TVD/ 12,220' MD** **Anticipated BHP: ±5,759 Psig**

1. Lost circulation in all intervals.
2. Cement isolation is installed to surface of the well isolating all zones by cement and casing.

3. PRESSURE CONTROL EQUIPMENT:

Intermediate & Production Hole – 10,000 Psig
BOP schematic diagrams attached.

4. CASING PROGRAM:

CASING	Hole Size	Length	Size	WEIGHT	Grade	Thread	Collapse	Burst	Tensile
							(psi) a	(psi) b	(1K lbs) c
Conductor	26"	0 – ±80'	20"						
Surface	17 ½"	0' – 1,055'	13 3/8"	54.5#	J-55	BTC	1130/2.1	2730/3.0	909/2.5
Intermediate	12 ¼"	0 – 4,050'	9-5/8"	40.0#	L-80	BTC	3,090/1.5	5,750/1.2	947/2.1
Intermediate	8-1/2"	0 – 3,850'	7"	29#	P-110	BTC	8,530/1.3	11,220/2.0	955/2.1
Intermediate	8-1/2"	3,850 – 7,390'	7"	32#	HCP-110	BTC	11,890/1.9	12,460/2.0	955/2.1
Production	6"	6,300 – 12,220'	4-1/2"	13.5#	P-110	BTC	10,680/1.3	12,410/2.0	338/2.1

Surface based on full evacuation: a=9.0 ppg fluid on backside, b=9.0 ppg inside, & c=9.0 ppf fluid + 100K overpull.
Intermediate based on full evacuation: a=9.0 ppg fluid on backside, b=9.0 ppg inside, & c=9.0 ppf fluid + 100K overpull.
Production based on full evacuation: a=16.5 ppg fluid on backside, b=16.5 ppg inside, & c=16.5 ppf fluid + 100K overpull

All casing will be new or inspected.

RECEIVED: Jul. 02, 2013

Fidelity Exploration & Production Company Eight Point Plan – Revision for Change in Casing

CANE CREEK 36-1
SEC 36 / T25S / R19E, SWSW, 267' FSL & 774 FWL
GRAND COUNTY, UTAH

5. Float Equipment:

Surface Hole Procedure (0'- 1055'±)
Guide Shoe
Insert Float Collar (PDC drillable)
Centralizers: 1-5' above shoe, top of jts. #2 and #3 then every 5th joint to surface. (23 total)

Intermediate Hole Procedure (0'- 4,150±)
Guide Shoe
Insert Float Collar (PDC drillable)
Centralizers: 1-5' above shoe, top of jts. #2 and #3 then every 3rd joint to surface. (33 total)

Production Hole Procedure (0' - TD):
Float shoe, 1 joint casing, float collar and balance of casing to surface. Thread lock float shoe, top and bottom of float collar, and top of 2nd joint. Two centralizers on the shoe joint, then every joint to ± 4,000'.

6. MUD PROGRAM

Interval	Mud Type	Mud Wt.	PV / YP	OWR
0' – 1,055'	Air Mist	---	---	---
1,055' - 4,150'	Air Mist/Aerated Water	---	---	---
4,150'- 12,220'	Oil Based Mud	13.5-16.5 ppg	22-32 / 12-22	+/-90:10

Intermediate & Production Hole Procedure (4,050' - TD): Anticipated mud weight 13.5 – 16.5 ppg depending on actual wellbore conditions encountered while drilling.

An oil based mud (OBM) system will be used to prevent fluid interaction with the salts and shales. LCM sweeps, pills, etc., will be used to prevent fluid loss. Adequate amounts of weighting material will be on hand as needed for well control.

7. VARIANCE REQUESTS:

Reference: **Onshore Oil and Gas Order No. 1**
Onshore Oil and Gas Order No. 2 – Section E: Special Drilling Operations

- Not applicable for revision

RECEIVED: Jul. 02, 2013

Fidelity Exploration & Production Company Eight Point Plan – Revision for Change in Casing

CANE CREEK 36-1
SEC 36 / T25S / R19E, SWSW, 267' FSL & 774 FWL
GRAND COUNTY, UTAH

8. EVALUATION PROGRAM:

Mud Logs: Mud log from 1,055' to TD.
Open-hole Logs: Triple-Combo, ECS, OBM FMI

9. CEMENT PROGRAM:

Surface Hole Procedure (Surface – 1,050'±):

Lead: **303 sks** Type III Halliburton cement + 2% Sodium Silicate + 2% Gypsum. Yield = 2.47 ft^3/sk @ 12.30 ppg
Tail: **200 sks** Type III Halliburton cement + 2% Sodium Silicate + 2% Gypsum. Yield = 2.14 ft^3/sk @ 14.20 ppg.
Top Out: As necessary with Class "G" cement with 2% $CaCl_2$, ¼#/sk LCM mixed at 15.6 ppg, 1.18 ft^3/sk., 5.2 gps water.
Note: Cement volumes will be calculated to bring lead cement to surface.

9-5/8 Intermediate Hole Procedure (Surface – 4,150'±):

Lead: **660 sks** 66 pps Class G + 14 pps Pozz + 0.2% Sodium Silicate + 2 pps Gypsum. Yield = 1.25 ft^3/sk @ 14.40 ppg
Tail: **250 sks** 66 pps Class G + 14 pps Pozz + 0.2% Sodium Silicate + 2 pps Gypsum. Yield = 1.25 ft^3/sk @ 14.4 ppg
Top Out: As necessary with Class "G" cement with 2% $CaCl_2$, ¼#/sk LCM mixed at 15.6 ppg, 1.18 ft^3/sk., 5.2 gps water.

7" Intermediate Hole Procedure (Surface – 7,390'±):

Lead: 425 **sks** 66 pps Class G + 14 pps Pozz + 0.2% Sodium Silicate + 2 pps Gypsum + Hematite. Yield = 1.17 ft^3/sk @ 16.0 ppg
Tail: **100 sks** 66 pps Class G + 14 pps Pozz + 0.2% Sodium Silicate + 2 pps Gypsum + Hematite. Yield = 1.07 ft^3/sk @ 18.0 ppg

Production Hole Procedure (6,300 – TD):

Lead: There will not be a lead slurry.
Tail: ±400* sks Class G cement + 0.04 pps Static Free + 0.5% bwoc KCL + 0.25 pps LCM + 2 pps Kol-Seal (LCM) + 0.2% bwoc CD-32 + 0.5 gps FP-13L + 50%bwoc Barite + 6% bwoc gel + 5.39 gps of water. Yield = 1.40 ft^3/sk @ 18.00 ppg. (**Actual volume depends on final length*).

RECEIVED: Jul. 02, 2013

Fidelity Exploration & Production Company Eight Point Plan – Revision for Change in Casing

CANE CREEK 36-1
SEC 36 / T25S / R19E, SWSW, 267' FSL & 774 FWL
GRAND COUNTY, UTAH

Note: The above number of sacks is based on gauge-hole calculation, 0% excess.
Final Cement volumes will be based upon gauge-hole plus 30% excess and the actual depth drilled to.

10. ABNORMAL CONDITIONS:

Surface Hole (Surface – 1,055'±):
Lost circulation.

Intermediate & Production Hole (1,055'± - TD):
Lost circulation zones and over pressure in the production zone.

11. STANDARD REQUIRED EQUIPMENT:

A. Choke Manifold
B. Upper and Lower Kelly Cock
C. Stabbing Valve
D. Visual Mud Monitoring

12. HAZARDOUS CHEMICALS:

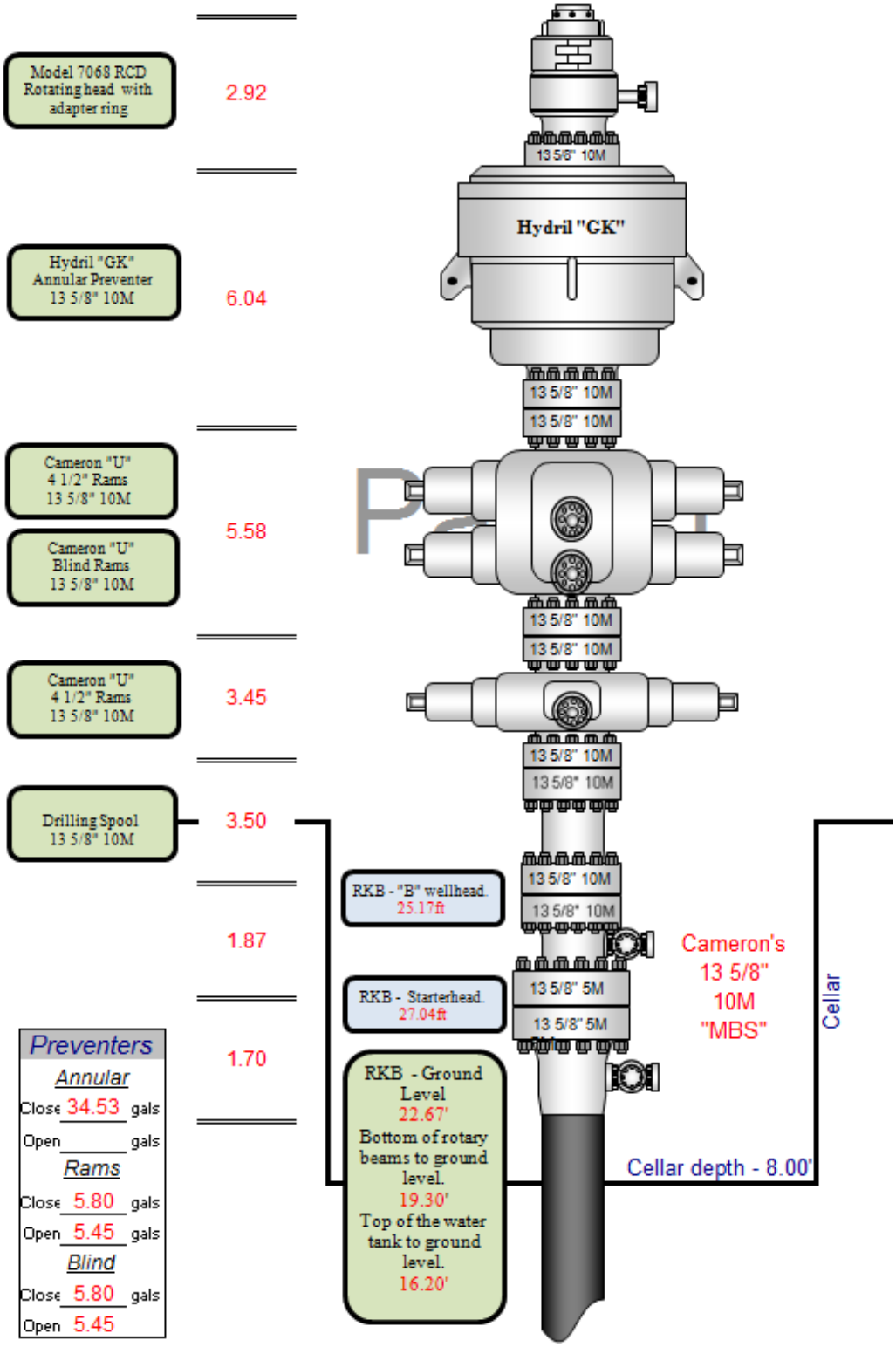
No chemicals subject to reporting under SARA title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling of this well.

(Attachment: BOP Schematic Diagram)

RECEIVED: Jul. 02, 2013

Fidelity Exploration & Production Company Eight Point Plan – Revision for Change in Casing

CANE CREEK 36-1
SEC 36 / T25S / R19E, SWSW, 267' FSL & 774 FWL
GRAND COUNTY, UTAH



RECEIVED: Jul. 02, 2013

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

5.LEASE DESIGNATION AND SERIAL NUMBER: ML-40571

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: CANE CREEK

1. TYPE OF WELL Oil Well

8. WELL NAME and NUMBER: Cane Creek Unit 36-1

2. NAME OF OPERATOR: FIDELITY E&P COMPANY

9. API NUMBER: 43019500300000

3. ADDRESS OF OPERATOR: 1700 Lincoln Street Ste 2800 , Denver, CO, 80203

PHONE NUMBER: 720 931-6459 Ext

9. FIELD and POOL or WILDCAT: UNDESIGNATED

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0267 FSL 0774 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 36 Township: 25.0S Range: 19.0E Meridian: S

COUNTY: GRAND

STATE: UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ SPUD REPORT Date of Spud:	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
✓ DRILLING REPORT Report Date: 7/10/2013	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
July 11, 2013

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Joy Gardner	720 956-5763	Sr. Engineering Tech

SIGNATURE	DATE
N/A	7/10/2013

RECEIVED: Jul. 10, 2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 6/30/2013
Report #: 26, DFS: 20
Daily Depth Progress: 0.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Will Alexander	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
221.90	22.81	39.8	41.2	25.3	91.06	8.94

Target Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0	6/9/2013	142.0	142.0

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
6/29/2013 06:00	6/30/2013 06:00	20	7,521.0	7,521.0	0.00

Operations at Report Time
R/U to Run CBL

Operations Summary
Finish CBL logging run. Rig down SWL equipment. Rig up to run 2 7/8" tubing tail. Run 1325 ft of 2 7/8 tubing. Continue trip with 4.5" drillpipe to 7,521'. Plugged back from 7,521' to 6,350' with 600 sx Plugcem cement at 17.3 ppg. Pulled up to 6,037' and circulated 1-1/2 bottoms up. No cement returns to surface. Pump dry job. POH L/D 2-7/8" Tubing Tail.

Operations Next Report Period
Wait on Cement

Weather	Wellbore
Cloudy	Original Hole

Daily Contacts

Job Contact	Position	Office
Paul Roberts	WSL	(970) 986-4401
Sam Loredo	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	3.00	3.00	11	Complete CBL logging run.Logging Run #3. Hole took 16 bbl of OBM while logging in 22 hrs.	7,521.0	7,521.0
09:00	2.00	5.00	11	Rig down SWL wireline equipment.	7,521.0	7,521.0
11:00	2.50	7.50	6	Rig up and run 1325 ft of 2 7/8" - 6.55 ppf tubing. Rig down tubing handling tools.	7,521.0	7,521.0
13:30	3.50	11.00	6	Trip in hole with 4.5" drillpipe f/ 1325' to 7300'.	7,521.0	7,521.0
17:00	1.00	12.00	5	Wash down from 7,300' to 7,521'.	7,521.0	7,521.0
18:00	2.00	14.00	5	Circulated bottoms up at 3.5 BPM.	7,521.0	7,521.0
20:00	1.00	15.00	12	Held PJSM with Halliburton & Rig Crew. Set single in mousehole. R/U Halliburton lines and equipment. Pumped 29 bbls Tuned Spacer, Plugged back 8-1/2" Pilot Hole from 7,521' to 6,350' with 600 sx Plugcem cement at 17.3 ppg. Displaced with 9 bbls Tuned Spacer and 76.5 bbls OBM.	7,521.0	6,350.0
21:00	2.00	17.00	6	Pulled from 7,521' to 6,037', trip speed 3 min per stand.	6,350.0	6,350.0
23:00	1.50	18.50	5	Dropped wiper ball and circulated 1-1/2 bottoms up at 70 SPM. No cement returns to surface. Pump dry job.	6,350.0	6,350.0
00:30	5.50	24.00	6	POH laid down 2-7/8" Tubing Tail. Monitored displacement on trip tank. L/D Tubing Equipment.	6,350.0	6,350.0

Mud Check: 7,521.0ftKB, 6/29/2013 13:00

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
6/29/2013	7,521.0	16.70	69	33.0	26.000	12.000	14.000				3.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
					6.000	296,843.000			38.0		82.3/17.7

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment

Mud Check: 7,521.0ftKB, 6/29/2013 23:59

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
6/29/2013	7,521.0	16.50	76	35.0	27.000	14.000	16.000				3.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
					68,284.000	254,921.000			37.0		77.8/22.2

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
177.0					

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)

Report Printed: 7/9/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 6/30/2013
Report #: 26, DFS: 20
Daily Depth Progress: 0.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)
6/11/2013	Surface	1,070.0	-4.1	13 3/8	12.615	54.50	J-55	13 3/8	12.615
6/20/2013	Intermediate	4,178.5	33.4	9 5/8	6.681	47.00	HCP-110	9 5/8	6.681

Report Printed: 7/9/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 6/29/2013
Report #: 25, DFS: 19
Daily Depth Progress: 0.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Will Alexander	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
221.90	22.81	39.8	41.2	25.3	91.06	8.94

Target Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0	6/9/2013	142.0	142.0

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
6/28/2013 06:00	6/29/2013 06:00	19	7,521.0	7,521.0	0.00

Operations at Report Time
Run CBL Log

Operations Summary
Trip out of the hole from 2434' to 366'. Work BHA, lay down Directional tool. Clear drill floor for wireline logs. Pre Safety Meeting with SWL and Rig Crew. Rig up Wireline tools. Run #1 - OBM Micro Image Log. Log Tools heldup at 7370 ft. L/D OBMI Logging Tools. M/U Triple Combo Logging Tools, RIH unable to work past 7,370'. Logged up. L/D Triple Combo Tools. M/U CBL Tools and RIH.

Operations Next Report Period
Wait on Cement

Weather	Wellbore
Sunny and Clear	Original Hole

Daily Contacts

Job Contact	Position	Office
Paul Roberts	WSL	(970) 986-4401
Sam Loredo	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	2.00	2.00	6	Trip out of the hole from 2434' to 366ft. Monitor hole on trip tank.	7,521.0	7,521.0
08:00	1.50	3.50	6	Work BHA. Rack back 1 stand of 6 inch collars, breakout Bit, MWD , Monel, Stab and Mud Motor.	7,521.0	7,521.0
09:30	0.50	4.00	6	Makeup Bit and Bit Sub to 6 1/2" collars.	7,521.0	7,521.0
10:00	1.50	5.50	11	Held PJSM with Schlumberger Logging Crew. R/U Equipment and OBMI Logging Tools.	7,521.0	7,521.0
11:30	6.50	12.00	11	RIH to 7,370' with OBMI Logging Tools, unable to go deeper. Logged up. L/D OBMI Logging Tools.	7,521.0	7,521.0
18:00	11.00	23.00	11	M/U Triple Combo Logging Tools, RIH unable to work past 7,370'. Logged up with Triple Combo. L/D Logging Tools.	7,521.0	7,521.0
05:00	1.00	24.00	11	M/U CBL Logging Tools. RIH with CBL Logging Tools.	7,521.0	7,521.0

Mud Check: 7,521.0ftKB, 6/28/2013 13:00

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
6/28/2013	7,521.0	16.60	65	32.0	23.000	12.000	14.000				3.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
					50,063.000	334,388.000			37.0		82.5/17.5

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment

Mud Check: 7,521.0ftKB, 6/28/2013 23:59

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
6/28/2013	7,521.0	16.60	67	33.0	23.000	12.000	14.000				3.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
					47,066.000	342,641.000			37.0		82.5/17.5

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)
6/11/2013	Surface	1,070.0	-4.1	13 3/8	12.615	54.50	J-55	13 3/8	12.615
6/20/2013	Intermediate	4,178.5	33.4	9 5/8	6.681	47.00	HCP-110	9 5/8	6.681

Report Printed: 7/9/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 6/28/2013
Report #: 24, DFS: 18
Daily Depth Progress: 0.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Will Alexander	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
221.90	22.81	39.8	41.2	25.3	91.06	8.94

Target Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0	6/9/2013	142.0	142.0

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
6/27/2013 06:00	6/28/2013 06:00	18	7,521.0	7,521.0	0.00

Operations at Report Time
Trip out of hole with BHA.

Operations Summary
Circulate and attempt to raise weight to 16.2 ppg. Could not stay ahead of cut. Shut down raise weight in active system. Circulate 16.2 ppg around, background gas did not drop below 650 units. Shutdown raise weight in stages to16.8 ppg. Spot 50 bbl LCM Pill. TOH from 7,521' to 6,764'. Flow Check, pumped dry job. TOH from 6,764' to 2,434'.

Operations Next Report Period
Wire Line Logs

Weather	Wellbore
Sunny and Clear	Original Hole

Daily Contacts

Job Contact	Position	Office
Paul Roberts	WSL	(970) 986-4401
Sam Loredo	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	6.00	6.00	5	Circulated and weighted up OBM from 15.8 ppg to 16.0 ppg. Pump 10 bbl 60 ppb Drillchem sweeps every 30 min(25 ppb Blockade, 25 ppb FIT, 10 ppb Drill seal.) Bypass shaker at 09:00 hrs. Circulate at 320 gpm.	7,521.0	7,521.0
12:00	1.50	7.50	5	Shut pumps down. Weight up active system to 16.2 ppg. Build LCM pill , 60 ppb DrillChem.	7,521.0	7,521.0
13:30	2.00	9.50	5	Circulated around 16.2 ppg OBM until 16.2 ppg mud weight in and out. Pump 60 ppb DrillChem Sweeps every 45 min. Shakers bypassed. Circulate at 320 gpm. Max Gas 1265 units, Max Flare 25 ft.	7,521.0	7,521.0
15:30	1.50	11.00	5	Shut pumps down. Weight up active system to 16.5 ppg. Build and weight up LCM pill.	7,521.0	7,521.0
17:00	1.50	12.50	5	Circulated around 16.2 ppg OBM until 16.5 ppg mud weight in and out. Pump 10 LCM sweeps every 45 min. Circulate at 320 gpm. Max Gas 1100 units, Max Falre 8 ft.	7,521.0	7,521.0
18:30	3.00	15.50	5	Transferred 13.5 ppg OBM to active system and weighted up OBM to 16.8 ppg. Monitored well on trip tank. No gain or loss while weighting up OBM.	7,521.0	7,521.0
21:30	2.50	18.00	5	Circulated around 16.8 ppg OBM until 16.8 ppg mud weight in and out. Pump 10 10 bbl LCM sweeps every 45 min. Circulate at reduced rate, 215 gpm.	7,521.0	7,521.0
00:00	1.00	19.00	5	Pumped 50 bbls of LCM Pill (60 ppb DrillChem, 25 Blockade, 25 FIT, 10 Drillseal) and displaced out of bit.	7,521.0	7,521.0
01:00	1.00	20.00	6	TOH slow at 3 Min per stand from 7,521' to 6,764'.	7,521.0	7,521.0
02:00	1.00	21.00	5	Flow check - no flow. Pumped dry job.	7,521.0	7,521.0
03:00	3.00	24.00	6	TOH from 6,764' to 2,434'. Flow Check at 9-5/8" Casing Shoe - No Flow. Monitored displacement on trip tank.	7,521.0	7,521.0

Mud Check: 7,521.0ftKB, 6/27/2013 13:00

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
6/27/2013	7,521.0	16.20	58	30.0	22.000	12.000	14.000				3.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
					5.000	230,317.000			39.0		82/18

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
			16.35	120.0	

Report Printed: 7/9/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 6/28/2013
Report #: 24, DFS: 18
Daily Depth Progress: 0.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Mud Check: 7,521.0ftKB, 6/27/2013 23:59

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
6/27/2013	7,521.0	16.60	69	35.0	25.000	13.000	15.000				3.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
					3.500	371,767.00 0			39.0		82/18

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
275.0				120.0	

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)
6/11/2013	Surface	1,070.0	-4.1	13 3/8	12.615	54.50	J-55	13 3/8	12.615
6/20/2013	Intermediate	4,178.5	33.4	9 5/8	6.681	47.00	HCP-110	9 5/8	6.681

Report Printed: 7/9/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 6/27/2013
Report #: 23, DFS: 17
Daily Depth Progress: 179.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Will Alexander	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
221.90	22.81	39.8	41.2	25.3	91.06	8.94

Target Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0	6/9/2013	142.0	142.0

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
6/26/2013 06:00	6/27/2013 06:00	17	7,342.0	7,521.0	179.00

Operations at Report Time
Circulate Bottoms Up

Operations Summary
Circulate, drilled f/ 7,342' to 7,427'. Rig Service. Drilled from 7,427' to 7,521' TD for Pilot Hole. CBU, Pumped LCM Pill, pull 5 stands and squeezed away 8 bbls. RIH to 7,521'. Circ and mixed DrillChem LCM Pill. CBU & spotted LCM Pill outside string. Pulled to 6,800' and squeezed away 16.38 bbls. Wiper trip to 9-5/8" Casing shoe. Monitor well on trip tanks for 1 hr. Loss to hole past 24 hrs 321 barrels.

Operations Next Report Period
Wire Line Logs

Weather	Wellbore
Sunny and Clear	Original Hole

Daily Contacts

Job Contact	Position	Office
Paul Roberts	WSL	(970) 986-4401
Sam Loredo	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	2.00	2.00	5	Circulate bottoms up. Weeight up Premix tank to 15.8 PPG. Transfer OBM from Premix Tank to active system.	7,342.0	7,342.0
08:00	2.50	4.50	2	Drilled 8-1/2" Pilot Hole From 7,342' to 7,427'. WOB 7-22k, Rotary 0-50 rpm, Q= 423 gpm. P= 3200 psi. MW in/out: 15.8 in / 15.8 ppg out. Bgas: 3000 units, 10-12 ft flare. Cgas: 3500 units. Top of Cane Creek 7,313'.	7,342.0	7,427.0
10:30	0.50	5.00	9	Serviced rig and equipment.	7,427.0	7,427.0
11:00	1.00	6.00	2	Drilled 8-1/2" Pilot Hole From 7,427' to 7,521' TD for Pilot Hole. WOB 7-22k, Rotary 0-50 rpm, Q= 423 gpm. P= 3200 psi. MW in/out: 15.8 in / 15.8 ppg out. Bgas: 3000 units, 10-12 ft flare. Cgas: 3500 units. Pumped LCM pills while drilling.	7,427.0	7,521.0
12:00	1.50	7.50	5	Circulated bottoms up, pumped 30 bbls of 40 PPB LCM Pill and displaced out of string.	7,521.0	7,521.0
13:30	0.50	8.00	6	Pulled 5 stands to down squeeze LCM Pill.	7,521.0	7,521.0
14:00	1.00	9.00	5	Squeezed away 8 bbls of LCM Pill with 10 SPM in 5 min intervals. Max sqeeze pressure 237 psi with 15.8 ppg mud. Avg bleedoff pressure 80 psi after 5min.	7,521.0	7,521.0
15:00	1.50	10.50	5	Circulated bottoms up and mixed DrillChem Pill.	7,521.0	7,521.0
16:30	0.50	11.00	6	TIH 5 stands to 7,521'.	7,521.0	7,521.0
17:00	1.50	12.50	5	Circulate bottoms up. Pumped 50 bbl Drill Chem LCM Pill at 60 ppb. (25 ppb Blockade, 25 ppb FIT, 10 ppb Drillseal) and displaced out of string.	7,521.0	7,521.0
18:30	1.00	13.50	6	TOH slow from 7,521' to 6,800'.	7,521.0	7,521.0
19:30	2.00	15.50	5	Down squeezed away 16.38 bbls in stages with 15 strokes (1.26 BBLS) with 5 min between each stage. Max Squeeze pressure 283 psi, Avg bleedoff pressure 90 psi.	7,521.0	7,521.0
21:30	2.00	17.50	6	Pumped dry job, TOH from 6,800' to 4,134'. Monitored displacement on trip tank. Hole taking proper fill.	7,521.0	7,521.0
23:30	1.00	18.50	6	Monitored well on trip tank for 1 hour.	7,521.0	7,521.0
00:30	4.00	22.50	6	Trip in hole slow at 3 min per stand. Filled pipe 20 stands in.	7,521.0	7,521.0
04:30	1.50	24.00	5	Circulate and condition mud. Circulate bottoms up Max gas 2200 units, Max Flare 60 ft. Lost Total of 321 BBLS OBM in last 24 Hrs.	7,521.0	7,521.0

Mud Check: 7,521.0ftKB, 6/26/2013 13:00

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
6/26/2013	7,521.0	15.80	58	27.0	24.000	12.000	14.000				3.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
					5.200	262,608.000			36.0		82.8/17.2

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
			16.29	120.0	

Report Printed: 7/9/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 6/27/2013
Report #: 23, DFS: 17
Daily Depth Progress: 179.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Mud Check: 7,521.0ftKB, 6/26/2013 23:59

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
6/26/2013	7,521.0	15.85	62	30.0	24.000	13.000	15.000				3.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
					3.600	302,757.00 0			36.0		81.2/18.8

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
			16.36		

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)
4,182.0	7,521.0	3,339.00	6/22/2013 17:40	6/26/2013 12:00	32.65	102.3	21.98	10.67	32.68	67.32

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)
6/11/2013	Surface	1,070.0	-4.1	13 3/8	12.615	54.50	J-55	13 3/8	12.615
6/20/2013	Intermediate	4,178.5	33.4	9 5/8	6.681	47.00	HCP-110	9 5/8	6.681

Report Printed: 7/9/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 6/26/2013
Report #: 22, DFS: 16
Daily Depth Progress: 294.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Will Alexander	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
221.90	22.81	39.8	41.2	25.3	91.06	8.94

Target Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0	6/9/2013	142.0	142.0

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
6/25/2013 06:00	6/26/2013 06:00	16	7,048.0	7,342.0	294.00

Operations at Report Time
Pump LCM/Vanguard Pill

Operations Summary
Circulate, increased mud weight from 13.7 ppg to 15.8 ppg. Repair Mud Pump # 2. Drilled 8-1/2" Pilot Hole from 7,048' to 7,342'. Lost 120 BBLS OBM, Mixed and pumped LCM/Vanguard Pill.

Operations Next Report Period
Trips

Weather	Wellbore
Sunny and Clear	Original Hole

Daily Contacts

Job Contact	Position	Office
Paul Roberts	WSL	(970) 986-4401
Sam Loredo	WSL	(970) 986-4401
Delbert Sullivan	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	12.00	12.00	5	Circulated and raised mud weight in stages from 13.7 PPG to 15.3 PPG. GPM - 423, SPP 2985 psi. BBG 4075 - 3325 Units.	7,048.0	7,048.0
18:00	2.50	14.50	5	Circulated and raised mud weight to 15.8 ppg in stages. GPM - 338, SPP 2275 psi, BGG 3340 - 2855 Units.	7,048.0	7,048.0
20:30	4.50	19.00	8	Circulated while repairing gear end on Mud Pump # 2.	7,048.0	7,048.0
01:00	4.00	23.00	2	Drilled 8-1/2" Pilot Hole From 7,048' to 7,342'. WOB 7-22k, Rotary 0-50 rpm, Q= 423 gpm. P= 3200 psi. MW in/out: 15.8 in / 15.8 ppg out. Bgas: 3000 units, 0 ft flare. Cgas: 3500 units. Top of Cane Creek 7,313'.	7,048.0	7,342.0
05:00	1.00	24.00	5	Lost Circulation, slow pump from 425 gpm to 160 gpm. Lost ~120 bbls OBM. Mixed and pumped LCM/Vanguard Pill, 60 bbl at 40 ppb.	7,342.0	7,342.0

Mud Check: 7,048.0ftKB, 6/25/2013 14:00

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
6/25/2013	7,048.0	15.10	51	26.0	18.000	11.000	13.000				3.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
						280,093.000			34.0		81.8/18.2

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
				120.0	

Mud Check: 7,048.0ftKB, 6/25/2013 23:59

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
6/25/2013	7,048.0	15.85	56	28.0	21.000	11.000	13.000				3.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
					56,337.000	312,433.000			36.0		82/18

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
				113.0	

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)
4,182.0	7,521.0	3,339.00	6/22/2013 17:40	6/26/2013 12:00	32.65	102.3	21.98	10.67	32.68	67.32

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)
6/11/2013	Surface	1,070.0	-4.1	13 3/8	12.615	54.50	J-55	13 3/8	12.615
6/20/2013	Intermediate	4,178.5	33.4	9 5/8	6.681	47.00	HCP-110	9 5/8	6.681

Report Printed: 7/9/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 6/25/2013
Report #: 21, DFS: 15
Daily Depth Progress: 1,454.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Will Alexander	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
221.90	22.81	39.8	41.2	25.3	91.06	8.94

Target Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0	6/9/2013	142.0	142.0

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
6/24/2013 06:00	6/25/2013 06:00	15	5,594.0	7,048.0	1,454.00

Operations at Report Time
Drill 8-1/2" Pilot Hole

Operations Summary
Drilling & sliding 8-1/2" Pilot Hole From 5,585' to 7,048'. circ raise mud wt. to 14.0 ppg.

Operations Next Report Period
Trips

Weather	Wellbore
Cloudy	Original Hole

Daily Contacts

Job Contact	Position	Office
Delbert Sullivan	WSL	(970) 986-4401
Sam Loredo	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	6.00	6.00	2	Drilled 8-1/2" Pilot Hole From 5,585' to 6,155'. WOB 7-22k, Rotary 0-50 rpm, Q= 493 gpm. P= 3200 psi. MW in/out: 13.5 in / 13.5 ppg out. Bgas: 25 units, no flare. Cgas: 0 units.	5,585.0	6,155.0
12:00	4.50	10.50	2	Drilled 8-1/2" Pilot Hole From 6,155' to 6,592'. WOB 7-22k, Rotary 0-50 rpm, Q= 493 gpm. P= 3200 psi. MW in/out: 13.5 in / 13.5 ppg out. Bgas: 25 units, no flare. Cgas: 0 units.	6,155.0	6,592.0
16:30	0.50	11.00	9	Serviced rig and equipment.	6,592.0	6,592.0
17:00	2.75	13.75	8	Removed and rebuild Blackjack Swivel Packing Unit. Installed Swivel Packing.	6,592.0	6,592.0
19:45	0.50	14.25	2	Drilled 8-1/2" Pilot Hole From 6,592' to 6,670'. WOB 7-22k, Rotary 0-50 rpm, Q= 493 gpm. P= 3200 psi. MW in/out: 13.5 in / 13.5 ppg out. Bgas: 25 units, no flare. Cgas: 0 units.	6,592.0	6,670.0
20:15	1.25	15.50	8	Swivel Packing leaking. Repair Swivel Packing.	6,670.0	6,670.0
21:30	2.50	18.00	2	Drilled 8-1/2" Pilot Hole From 6,670' to 6,728'. WOB 7-22k, Rotary 0-50 rpm, Q= 493 gpm. P= 3200 psi. MW in/out: 13.5 in / 13.5 ppg out. Bgas: 5100 units, 10-12 ft intermittent flare. Cgas: 1000 units.	6,670.0	6,728.0
00:00	5.50	23.50	2	Drilled 8-1/2" Pilot Hole From 6,728' to 7,048'. WOB 7-22k, Rotary 0-50 rpm, Q= 493 gpm. P= 3200 psi. MW in/out: 13.7 in / 13.7 ppg out. Bgas: 4100 units, 5-10 ft intermittent flare. Cgas: 1000 units.	6,728.0	7,048.0
05:30	0.50	24.00	5	Circulate and raise mud weight. to 14.0 ppg	7,048.0	7,048.0

Mud Check: 6,508.0ftKB, 6/24/2013 15:00

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
6/24/2013	6,508.0	13.50	48	23.0	19.000	11.000	13.000				3.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
						263,031.00 0			27.0		80.8/19.2

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
	43.0			120.0	

Mud Check: 6,860.0ftKB, 6/24/2013 23:59

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
6/24/2013	6,860.0	13.60	52	19.0	17.000	10.000	12.000				3.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
						346,112.00 0			27.5		80.6/19.4

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
16.0	24.0			111.0	

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)
4,182.0	7,521.0	3,339.00	6/22/2013 17:40	6/26/2013 12:00	32.65	102.3	21.98	10.67	32.68	67.32

Report Printed: 7/9/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 6/25/2013
Report #: 21, DFS: 15
Daily Depth Progress: 1,454.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)
6/11/2013	Surface	1,070.0	-4.1	13 3/8	12.615	54.50	J-55	13 3/8	12.615
6/20/2013	Intermediate	4,178.5	33.4	9 5/8	6.681	47.00	HCP-110	9 5/8	6.681

Report Printed: 7/9/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 6/24/2013
Report #: 20, DFS: 14
Daily Depth Progress: 1,388.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Delbert Sullivan	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
99.16	4.02	60.7	61.3	31.6	97.73	2.27

Target Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0	6/9/2013	142.0	

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
6/23/2013 06:00	6/24/2013 06:00	14	4,197.0	5,585.0	1,388.00

Operations at Report Time
Drill 8-1/2" Pilot Hole

Operations Summary
Fill pits w/ DOBM, Displace well W/ 13.7ppg DOBM, Pump repair, Drilled 8-1/2" Pilot Hole from 4,197' TO 5,585'.

Operations Next Report Period
Drilling

Weather	Wellbore
Sunny and Clear	Original Hole

Daily Contacts

Job Contact	Position	Office
Delbert Sullivan	WSL	(970) 986-4401
Sam Loredo	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	3.50	3.50	5	Pumped 20 BBLS Diesel spacer, Displaced H2O out of hole with 13.6 PPG OBM. Transferred OBM into active system. Pumped OBM through Choke Manifold and Gas Buster.	4,197.0	4,197.0
09:30	4.00	7.50	8	#2 Mud Pump Plug failed at SCR House. Electrician replaced plug on cord for # 2 Mud Pump. Replaced Tugger Line on Off Drillers Side.	4,197.0	4,197.0
13:30	4.50	12.00	2	Drilled 8-1/2" Pilot Hole From 4,197' to 4,510'. WOB 7-20k, Rotary 0-50 rpm, Q= 352-493 gpm. P= 3200 psi. MW in/out: 13.4 in / 13.4 ppg out. Bgas: 25 units, no flare. Cgas: 0 units.	4,197.0	4,510.0
18:00	6.00	18.00	2	Drilled 8-1/2" Pilot Hole From 4,510' to 5,151'. WOB 7-22k, Rotary 0-50 rpm, Q= 493 gpm. P= 3200 psi. MW in/out: 13.5 in / 13.5 ppg out. Bgas: 25 units, no flare. Cgas: 0 units.	4,510.0	5,151.0
00:00	6.00	24.00	2	Drilled 8-1/2" Pilot Hole From 5,151' to 5,585'. WOB 7-22k, Rotary 0-50 rpm, Q= 493 gpm. P= 3200 psi. MW in/out: 13.5 in / 13.5 ppg out. Bgas: 25 units, no flare. Cgas: 0 units.	5,151.0	5,585.0

Mud Check: 4,364.0ftKB, 6/23/2013 15:30

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
6/23/2013	4,364.0	13.60	56	19.0	17.000	10.000	12.000				3.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
						335,919.00 0			27.0		84.9/15.1

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
				98.0	

Mud Check: 5,237.0ftKB, 6/23/2013 23:45

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
6/23/2013	5,237.0	13.50	53	20.0	17.000	11.000	13.000				3.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
						288,923.00 0			27.0		80.8/19.2

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
				116.0	

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)
4,182.0	5,585.0	1,403.00	6/22/2013 17:40	6/24/2013 06:00	11.16	125.7	8.91	2.25	20.16	79.84

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)
6/11/2013	Surface	1,070.0	-4.1	13 3/8	12.615	54.50	J-55	13 3/8	12.615
6/20/2013	Intermediate	4,178.5	33.4	9 5/8	6.681	47.00	HCP-110	9 5/8	6.681

Report Printed: 6/24/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 6/23/2013
Report #: 19, DFS: 13
Daily Depth Progress: 15.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Delbert Sullivan	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
99.16	4.02	60.7	61.3	31.6	97.73	2.27

Target Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0	6/9/2013	142.0	

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
6/22/2013 06:00	6/23/2013 06:00	13	4,182.0	4,197.0	15.00

Operations at Report Time
Fill mud tanks with OBM

Operations Summary
P/U 6" DC's, POH standing back 41 stands of 4-1/2" drill pipe. Test casing to 6,600 psi for 30 min. R/U Gas Buster Lines and Flare Stack. R/U Pollution Pan & Fill-Up Line. M/U BHA. RIH drill out float equip & cement from 4,126' to 4,182'. Drill 8-1/2" hole to 4,197'. Circ clean and spot pill. FIT Test to 18.0 EMW. Cleaned mud tanks, trip tanks, Premix Tank. Filled mud tanks with 13.7 ppg OBM.

Operations Next Report Period
Drilling

Weather	Wellbore
Sunny and Clear	Original Hole

Daily Contacts

Job Contact	Position	Office
Delbert Sullivan	WSL	(970) 986-4401
Sam Loredo	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	0.50	0.50	6	P/U three 6" DC's. R/D Lay Down Machine.	4,182.0	4,182.0
06:30	1.50	2.00	6	POH standing back 41 stands of 4-1/2" Drill Pipe.	4,182.0	4,182.0
08:00	1.00	3.00	15	Held PJSM with Cameron Testers. Test 9-5/8" Casing to 6,600 psi for 30 min on chart. Bled off pressure. R/D Test truck.	4,182.0	4,182.0
09:00	0.50	3.50	9	Serviced rig and equipment.	4,182.0	4,182.0
09:30	3.50	7.00	14	R/U Flare Lines and Box. R/U Pollution Pan, Fill-Up Line. Replaced Air Pump on Koomey. Cleaned out Zeco catch tank.	4,182.0	4,182.0
13:00	1.50	8.50	6	M/U Directional BHA, Orient BHA. Shallow test MWD. M/U Bit.	4,182.0	4,182.0
14:30	2.50	11.00	6	TIH to 4,126'.	4,182.0	4,182.0
17:00	1.00	12.00	2	Drilled out Float Collar at 4,127', cement and Shoe at 4,178', cleaned out rathole to 4,182'. Drilled 8-1/2" hole from 4,182' to 4,197'.	4,182.0	4,197.0
18:00	1.00	13.00	5	Circulated hole clean, spotted LCM Pill out bit.	4,197.0	4,197.0
19:00	0.50	13.50	5	Performed FIT to 18.0 EMW with 1929 psi, OMW 9.1 ppg water. Good Test.	4,197.0	4,197.0
19:30	4.50	18.00	5	Emptied water in mud pits. Cleaned Premix Tank, and Suction Tanks. Shipped OBM to premix tank.	4,197.0	4,197.0
00:00	3.50	21.50	5	Cleaned settling pits, shoveled out settling pit below shakers.	4,197.0	4,197.0
03:30	2.50	24.00	5	Transferred OBM from Tank Farm to Mud Pits.	4,197.0	4,197.0

Mud Check: <depth>ftKB, 6/22/2013 06:00

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
6/22/2013												

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment

Mud Check: 4,197.0ftKB, 6/23/2013 04:00

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
6/23/2013	4,197.0	13.40	75	18.0	15.000	9.000	11.000				3.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
						273,680.00 0			26.0		16.2/83.8

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)
4,182.0	5,585.0	1,403.00	6/22/2013 17:40	6/24/2013 06:00	11.16	125.7	8.91	2.25	20.16	79.84

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 6/23/2013
Report #: 19, DFS: 13
Daily Depth Progress: 15.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)
6/11/2013	Surface	1,070.0	-4.1	13 3/8	12.615	54.50	J-55	13 3/8	12.615
6/20/2013	Intermediate	4,178.5	33.4	9 5/8	6.681	47.00	HCP-110	9 5/8	6.681

Report Printed: 6/24/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 6/22/2013
Report #: 18, DFS: 12
Daily Depth Progress: 0.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Delbert Sullivan	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
99.16	4.02	60.7	61.3	31.6	97.73	2.27

Target Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0	6/9/2013	142.0	

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
6/21/2013 06:00	6/22/2013 06:00	12	4,182.0	4,182.0	0.00

Operations at Report Time
P/U 4-1/2" Drill Pipe

Operations Summary
Ran Scientific Gyro Survey on slickline. Halliburton performed Topout cement job on 13-3/8" x 9-5/8" annulus. L/D 6" DC'S, P/U 129 jts of 4-1/2" Drill pipe. POH stood back 43 stands of DP in derrick. P/U 123 Joints of 4-1/2" Drill Pipe.

Operations Next Report Period
Drilling

Weather	Wellbore
Sunny and Clear	Original Hole

Daily Contacts

Job Contact	Position	Office
Delbert Sullivan	WSL	(970) 986-4401
Sam Loredo	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	4.00	4.00	12	Installed Wear Bushing. Held PJSM with Scientific. R/U Slickline and ran Gyro Survey. Held PJSM with Halliburton. Test lines to 1463 psi. Pumped 20 bbls Super Flush, 5 bbls H2O, 715 sx, 215 bbl, 12.8 ppg cement down 13-3/8" x 9-5/8" annulus for Topout. Stopped pumping cement when max pressure of 500 psi was recorded. Displaced lines with 3 bbls Fresh Water w/ MMCR.	4,182.0	4,182.0
10:00	1.00	5.00	10	R/D Scientific Gyro Survey Tools. R/D Slickline unit. Removed casing bales and installed drilling bales.	4,182.0	4,182.0
11:00	1.50	6.50	14	N/U Orbit Valve and Flow Line.	4,182.0	4,182.0
12:30	2.00	8.50	6	Held PJSM with B&L. R/U Lay Down Machine and equipment. Strap 129 joints of 4-1/2" Drill Pipe on racks.	4,182.0	4,182.0
14:30	1.00	9.50	6	RIH with 5 stands of 6" DC's.	4,182.0	4,182.0
15:30	2.00	11.50	6	POH Laying Down 6" DC'S.	4,182.0	4,182.0
17:30	4.50	16.00	6	RIH picking up 129 joints of 4-1/2" Drill Pipe.	4,182.0	4,182.0
22:00	1.50	17.50	6	POH standing back 43 stands of 4-1/2" Drill Pipe.	4,182.0	4,182.0
23:30	2.00	19.50	6	Load racks with 123 joints of 4-1/2" Drill Pipe. Strap Drill Pipe.	4,182.0	4,182.0
01:30	4.50	24.00	6	RIH picking up 123 joints of 4-1/2" Drill Pipe.	4,182.0	4,182.0

Mud Check: <depth>ftKB, <dttm>

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)
6/11/2013	Surface	1,070.0	-4.1	13 3/8	12.615	54.50	J-55	13 3/8	12.615
6/20/2013	Intermediate	4,178.5	33.4	9 5/8	6.681	47.00	HCP-110	9 5/8	6.681

Report Printed: 6/24/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 6/21/2013
Report #: 17, DFS: 11
Daily Depth Progress: 0.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Delbert Sullivan	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
99.16	4.02	60.7	61.3	31.6	97.73	2.27

Target Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0	6/9/2013	142.0	

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
6/20/2013 06:00	6/21/2013 06:00	11	4,182.0	4,182.0	0.00

Operations at Report Time
W.O.C.

Operations Summary
Circulated hole clean. POH L/D BHA. Rig Service. Held PJSM with B&L Casing Crew. R/U Casing equipment and Pick Up Machine. Ran 9-5/8" casing. Cement 9-5/8" Casing, W.O.C. L/D Landing Joint. Installed and tested 9-5/8" Pack-off.

Operations Next Report Period
Trips

Weather	Wellbore
Sunny and Clear	

Daily Contacts

Job Contact	Position	Office
Delbert Sullivan	WSL	(970) 986-4401
Sam Loredo	WSL	(970) 986-4401
Tucker Yancey	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	1.50	1.50	5	Circulated hole clean.	4,182.0	4,182.0
07:30	2.50	4.00	6	TOH from 4182.0 to BHA.	4,182.0	4,182.0
10:00	2.00	6.00	6	L/D BHA. Removed drilling bales and installed casing bales.	4,182.0	4,182.0
12:00	0.50	6.50	7	Serviced rig and equipment. Pulled wear bushing.	4,182.0	4,182.0
12:30	1.50	8.00	12	Held PJSM with B&L Casing Crew. R/U Casing Tongs and Equipment. R/U Pick Up Machine.	4,182.0	4,182.0
14:00	4.00	12.00	12	Run 9-5/8", 47#, HCP-110, BTC Casing to 2,035'.	4,182.0	4,182.0
18:00	4.00	16.00	12	Ran 9-5/8", 47#, HCP-110, BTC Casing from 2,035' to 4,144'. M/U Casing Hanger and Landing Joint. Land hanger in wellhead. Shoe at 4,178'.	4,182.0	4,182.0
22:00	1.00	17.00	5	Circulated at 100 SPM, 500 BBLS, no returns to surface.	4,182.0	4,182.0
23:00	1.50	18.50	12	Held PJSM with Halliburton. R/D CRT Tool. R/U Cement Head and Lines.	4,182.0	4,182.0
00:30	2.00	20.50	12	Test Lines to 4000 psi. Pumped 10 bbls spacer,drop bottom plug, 118.7 bbls of 13.0 ppg cement, drop top plug, displaced with 302 bbls H2O, bumped plug with 723 psi. Held for 15 min. Bled off pressure, floats held.	4,182.0	4,182.0
02:30	0.50	21.00	12	Held PJSM with Halliburton. R/D cement Head and lines.	4,182.0	4,182.0
03:00	3.00	24.00	13	W.O.C. Removed Landing Joint. L/D Landing Joint. Installed and tested 9-5/8" Pack-off.	4,182.0	4,182.0

Mud Check: <depth>ftKB, <dttm>

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)
6/11/2013	Surface	1,070.0	-4.1	13 3/8	12.615	54.50	J-55	13 3/8	12.615
6/20/2013	Intermediate	4,178.5	33.4	9 5/8	6.681	47.00	HCP-110	9 5/8	6.681

Report Printed: 6/24/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 6/20/2013
Report #: 16, DFS: 10
Daily Depth Progress: 533.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Delbert Sullivan	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
99.16	4.02	60.7	61.3	31.6	97.73	2.27

Target Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0	6/9/2013	142.0	

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
6/19/2013 06:00	6/20/2013 06:00	10	3,649.0	4,182.0	533.00

Operations at Report Time
Cir.

Operations Summary
TIH, est. cir., drill from 3649' to 4182' = 20ft. into salt #2, cir hole clean, survey, short trip

Operations Next Report Period
Run Casing & Cement

Weather	Wellbore
Sunny and Clear	

Daily Contacts

Job Contact	Position	Office
Delbert Sullivan	WSL	(970) 986-4401
Tucker Yancey	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	5.00	5.00	6	Finish picking up new BHA, move jars, TIH, blow hole down @ 3649'	3,649.0	3,649.0
11:00	2.00	7.00	5	Establish cir. with airiated water	3,649.0	3,649.0
13:00	7.50	14.50	2	Drill from 3649' to 3847' with airiated water, (CFM 2250, 5GPH oil, 5GPH soap, 2GPH cor. inhib, 2GPH shale treat, 2GPH defoamer	3,649.0	3,847.0
20:30	0.50	15.00	7	Service rig	3,847.0	3,847.0
21:00	6.00	21.00	2	Drill from 3847' to 4182'with airiated water, (water @ 5 bpm, CFM 2250, 5GPH oil, 5GPH soap, 2GPH cor. inhib, 2GPH shale treat, 2GPH defoamer)	3,847.0	4,182.0
03:00	1.50	22.50	5	Cir. hole clean	4,182.0	4,182.0
04:30	0.50	23.00	10	Survey @ 4130' 3.42*	4,182.0	4,182.0
05:00	1.00	24.00	6	Short Trip	4,182.0	4,182.0

Mud Check: <depth>ftKB, <dttm>

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)
3,649.0	4,182.0	533.00	6/19/2013 13:00	6/20/2013 03:00	14.00	38.1	14.00			100.00

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)
6/11/2013	Surface	1,070.0	-4.1	13 3/8	12.615	54.50	J-55	13 3/8	12.615
6/20/2013	Intermediate	4,178.5	33.4	9 5/8	6.681	47.00	HCP-110	9 5/8	6.681

Report Printed: 6/24/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 6/19/2013
Report #: 15, DFS: 9
Daily Depth Progress: 557.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Delbert Sullivan	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
99.16	4.02	60.7	61.3	31.6	97.73	2.27

Target Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0	6/9/2013	142.0	

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
6/18/2013 06:00	6/19/2013 06:00	9	3,092.0	3,649.0	557.00

Operations at Report Time
TIH

Operations Summary
Drill from 3075' to 3092', survey, drill from 3092' to 3470' service rig, drill from 3470' to 3565', survey, drill from 3565' to 3649', hole watered out, blow hole clean, attempt to fill with water, POOH & lay down hammer & bit, make up new BHA,

Operations Next Report Period
Trips

Weather	Wellbore
Sunny and Clear	

Daily Contacts

Job Contact	Position	Office
Delbert Sullivan	WSL	(970) 986-4401
Tucker Yancey	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	0.50	0.50	2	Drill from 3075' to 3092'	3,075.0	3,092.0
06:30	0.50	1.00	10	Blow hole clean & survey @ 3050' 0.20*	3,092.0	3,092.0
07:00	8.00	9.00	2	Drill from 3092' to 3470', (CFM 5000, 5GPH oil, 18GPH water, 2GPH defoamer,,4GPH soap, 4GPH cor. inhib, 2GPH shale treat). RPM 30/35, WOB 5/10, SPP 450	3,092.0	3,470.0
15:00	0.50	9.50	7	Service rig	3,470.0	3,470.0
15:30	2.00	11.50	2	Drill from 3470' to 3565', (CFM 5000, 5GPH oil, 18GPH water, 2GPH defoamer, 4GPH soap, 4GPH cor. inhib, 2GPH shale treat) RPM 30/35, WOB 5/10, SPP 450	3,470.0	3,565.0
17:30	0.50	12.00	10	Blow hole clean & survey @ 3525' 0.76*	3,565.0	3,565.0
18:00	2.50	14.50	2	Drill from 3565' to 3649', (CFM 5000, 5GPH oil, 18GPH water, 2GPH defoamer, 4GPH soap, 4GPH cor. inhib, 2GPH shale treat) RPM 30/35, WOB 5/10, SPP 450 (hole watered out)	3,565.0	3,649.0
20:30	2.50	17.00	5	Blow hole clean & attempt to fill with water	3,649.0	3,649.0
23:00	4.50	21.50	6	POOH & lay down hammer & bit.	3,649.0	3,649.0
03:30	2.50	24.00	6	Make up 12 1/4" TCI bit, Mud Motor, Shock Sub, pick up 2-8" D.C.	3,649.0	3,649.0

Mud Check: <depth>ftKB, <dttm>

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)
1,070.0	3,649.0	3,152.00	6/16/2013 20:15	6/18/2013 20:30	54.50	57.8	54.50			100.00

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)
6/11/2013	Surface	1,070.0	-4.1	13 3/8	12.615	54.50	J-55	13 3/8	12.615
6/20/2013	Intermediate	4,178.5	33.4	9 5/8	6.681	47.00	HCP-110	9 5/8	6.681

Report Printed: 6/24/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 6/18/2013
Report #: 14, DFS: 8
Daily Depth Progress: 753.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Delbert Sullivan	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
99.16	4.02	60.7	61.3	31.6	97.73	2.27

Target Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0	6/9/2013	142.0	

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
6/17/2013 06:00	6/18/2013 06:00	8	1,766.0	2,519.0	753.00

Operations at Report Time
Drilling

Operations Summary
Drill from 1766' to 2114', survey @ 2070' 0.16*, service rig, drill from 2114' to 2519', survey @ 2555' 0.55*, drill from 2519' to 3075'

Operations Next Report Period
Trips

Weather	Wellbore
Sunny and Clear	

Daily Contacts

Job Contact	Position	Office
Delbert Sullivan	WSL	(970) 986-4401
Tucker Yancey	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	4.50	4.50	2	Drill from 1766' to 2114' (CFM 3600, 5GPH soap, 20GPH water, 7GPH oil, 3GPH corrosion inhibitor, WOB 7/10, RPM 35, SPP 475)	1,766.0	2,114.0
10:30	0.50	5.00	10	Blow hole clean & survey @ 2070' 0.16*	2,114.0	2,114.0
11:00	0.50	5.50	7	Service rig	2,114.0	2,114.0
11:30	8.00	13.50	2	Drill from 2114' to 2519', (CFM 3600, 5GPH soap, 20GPH water, 7GPH oil, 3 GPH cor. inhibit) WOB 7/10, RPM 35, SPP 475	2,114.0	2,591.0
19:30	0.50	14.00	10	Survey @ 2555' 0.55*	2,591.0	2,591.0
20:00	10.00	24.00	2	Drill from 2591' to 3070.' (CFM 3600, 5GPH soap, 20GPH water, 7GPH oil, 3GPH cor. inhib, RPM 35, WOB 7/10, SPP 475	2,591.0	3,070.0

Mud Check: <depth>ftKB, <dttm>

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)
1,070.0	3,649.0	3,152.00	6/16/2013 20:15	6/18/2013 20:30	54.50	57.8	54.50			100.00

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)
6/11/2013	Surface	1,070.0	-4.1	13 3/8	12.615	54.50	J-55	13 3/8	12.615
6/20/2013	Intermediate	4,178.5	33.4	9 5/8	6.681	47.00	HCP-110	9 5/8	6.681

Report Printed: 6/24/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 6/17/2013
Report #: 13, DFS: 7
Daily Depth Progress: 696.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Delbert Sullivan	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
99.16	4.02	60.7	61.3	31.6	97.73	2.27

Target Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0	6/9/2013	142.0	

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
6/16/2013 06:00	6/17/2013 06:00	7	1,070.0	1,766.0	696.00

Operations at Report Time
Drilling

Operations Summary
Finish testing BOPE, & casing to 1900 psi for 30 mins, make up air hammer & bit, TIH, drill float equip, drill formation from 1070' to 1580', survey @ 1550' 0.58*, drill from 1580' to 1766'.

Operations Next Report Period
Drilling

Weather	Wellbore
Sunny and Clear	

Daily Contacts

Job Contact	Position	Office
Delbert Sullivan	WSL	(970) 986-4401
Tucker Yancey	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	4.50	4.50	15	Finish testing BOPE, test casing to 1900 psi for 30 min, rig down test unit & equip.	1,070.0	1,070.0
10:30	1.00	5.50	22	Install wear bushing	1,070.0	1,070.0
11:30	5.50	11.00	6	Rack back 2 more stds. of drill pipe in derrick, make up air hammer & 12 1/4" hammer bit, TIH, tag at 1016', install rotating rubber.	1,070.0	1,070.0
17:00	0.50	11.50	5	Blow hole clean	1,070.0	1,070.0
17:30	2.00	13.50	2	Drill float equip. & cement from 1016' to 1173', CFM 2800, 4GPH soap, 20 GPH H2O, RPM 25, WOB 5/7	1,070.0	1,173.0
19:30	0.50	14.00	6	POOH 2 stds. of drill pipe, run in with remainder of HWDP install rotating rubber	1,173.0	1,173.0
20:00	7.00	21.00	2	Drill from 1173' to 1580', CFM 2800, 4 GPH soap, 20 GPH H2O, RPM 25, WOB 5/7	1,173.0	1,580.0
03:00	0.50	21.50	10	Survey @ 1550' 0.58*	1,580.0	1,580.0
03:30	2.50	24.00	2	Drill from 1580' to 1766', CFM 3600, 4 gph soap, 10 gph H2O, 2 gph corrosion inhibitor, RPM 35, WOB 10	1,580.0	1,766.0

Mud Check: <depth>ftKB, <dttm>

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)
1,070.0	3,649.0	3,152.00	6/16/2013 20:15	6/18/2013 20:30	54.50	57.8	54.50			100.00

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)
6/11/2013	Surface	1,070.0	-4.1	13 3/8	12.615	54.50	J-55	13 3/8	12.615
6/20/2013	Intermediate	4,178.5	33.4	9 5/8	6.681	47.00	HCP-110	9 5/8	6.681

Report Printed: 6/24/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 6/16/2013
Report #: 12, DFS: 6
Daily Depth Progress: 0.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Delbert Sullivan	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
99.16	4.02	60.7	61.3	31.6	97.73	2.27

Target Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0	6/9/2013	142.0	

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
6/15/2013 06:00	6/16/2013 06:00	6	1,070.0	1,070.0	0.00

Operations at Report Time
Testing BOPs

Operations Summary
Nipple up BOPE, test BOPs (Blew seals on test plug 3 times)

Operations Next Report Period
Drilling

Weather	Wellbore
Cloudy	

Daily Contacts

Job Contact	Position	Office
Delbert Sullivan	WSL	(970) 986-4401
Tucker Yancey	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	14.00	14.00	14	Nipple up BOPs,, choke & kill lines, booie line, & hydl. control line, install rotary, change 10K valve on choke manifold.	1,070.0	1,070.0
20:00	10.00	24.00	15	Make up test plug & Testing BOPs, all rams & valves to 250 low & 10,000 high, hy-drill to 250 low & 5000 high, kelly hose & stand pipe valves back to mud pump to 250 low & 4000 high, (blew seals on test plug 3 times) Change valve on choke manifold, repair leak on stand pipe plug leaking	1,070.0	1,070.0

Mud Check: <depth>ftKB, <dttm>

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)
6/11/2013	Surface	1,070.0	-4.1	13 3/8	12.615	54.50	J-55	13 3/8	12.615
6/20/2013	Intermediate	4,178.5	33.4	9 5/8	6.681	47.00	HCP-110	9 5/8	6.681

Report Printed: 6/24/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 6/15/2013
Report #: 11, DFS: 5
Daily Depth Progress: 0.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Delbert Sullivan	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
99.16	4.02	60.7	61.3	31.6	97.73	2.27

Target Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0	6/9/2013	142.0	

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
6/14/2013 06:00	6/15/2013 06:00	5	1,070.0	1,070.0	0.00

Operations at Report Time
nipple up

Operations Summary
Repair draworks, pull rotary table, remove elevators & bails, hook up rig up lines to nipple up bops. nipple up BOPs

Operations Next Report Period
Trips

Weather	Wellbore
Sunny and Clear	

Daily Contacts

Job Contact	Position	Office
Delbert Sullivan	WSL	(970) 986-4401
Tucker Yancey	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	22.00	22.00	8	Repair draworks, received traction motor & shaft, installed, test ran traction motor, change rotation, hooked up chains, replaced guards, retest draworks OK	1,070.0	1,070.0
04:00	1.00	23.00	22	Pull rotary table, remove elevators & bails, hook up rig up lines to top drive to pick up stack.	1,070.0	1,070.0
05:00	1.00	24.00	14	Nipple up BOPs	1,070.0	1,070.0

Mud Check: <depth>ftKB, <dttm>

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)
6/11/2013	Surface	1,070.0	-4.1	13 3/8	12.615	54.50	J-55	13 3/8	12.615
6/20/2013	Intermediate	4,178.5	33.4	9 5/8	6.681	47.00	HCP-110	9 5/8	6.681

Report Printed: 6/24/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 6/14/2013
Report #: 10, DFS: 4
Daily Depth Progress: 0.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Delbert Sullivan	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
99.16	4.02	60.7	61.3	31.6	97.73	2.27

Target Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0	6/9/2013	142.0	

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
6/13/2013 06:00	6/14/2013 06:00	4	1,070.0	1,070.0	0.00

Operations at Report Time
Rig repair

Operations Summary
Repair drawworks

Operations Next Report Period
Nipple up B.O.P.

Weather	Wellbore
Sunny and Clear	

Daily Contacts

Job Contact	Position	Office
Delbert Sullivan	WSL	(970) 986-4401
Tucker Yancey	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	24.00	24.00	8	Rig Repair, (Input shaft on Drawwork sent to shop in Grand Junction.)	1,070.0	1,070.0

Mud Check: <depth>ftKB, <dttm>

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)
6/11/2013	Surface	1,070.0	-4.1	13 3/8	12.615	54.50	J-55	13 3/8	12.615
6/20/2013	Intermediate	4,178.5	33.4	9 5/8	6.681	47.00	HCP-110	9 5/8	6.681

Report Printed: 6/24/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 6/13/2013
Report #: 9, DFS: 3
Daily Depth Progress: 0.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Delbert Sullivan	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
99.16	4.02	60.7	61.3	31.6	97.73	2.27

Target Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0	6/9/2013	142.0	

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
6/12/2013 06:00	6/13/2013 06:00	3	1,070.0	1,070.0	0.00

Operations at Report Time
Rig Repair

Operations Summary
Weld on well head, test well head to 900 psi, nipple up B section, repair draworks

Operations Next Report Period
Repair Rig

Weather	Wellbore
Sunny and Clear	

Daily Contacts

Job Contact	Position	Office
Delbert Sullivan	WSL	(970) 986-4401
Tucker Yancey	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	6.00	6.00	14	Finish welding on A section & test with nitrogen to 900psi, nipple up B section	1,070.0	1,070.0
12:00	18.00	24.00	8	Repair draworks (Removed shaft & sent to Grand Junction for repair)	1,070.0	1,070.0

Mud Check: <depth>ftKB, <dttm>

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)
6/11/2013	Surface	1,070.0	-4.1	13 3/8	12.615	54.50	J-55	13 3/8	12.615
6/20/2013	Intermediate	4,178.5	33.4	9 5/8	6.681	47.00	HCP-110	9 5/8	6.681

Report Printed: 6/24/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 6/12/2013
Report #: 8, DFS: 2
Daily Depth Progress: 0.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Delbert Sullivan	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
99.16	4.02	60.7	61.3	31.6	97.73	2.27

Target Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0	6/9/2013	142.0	

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
6/11/2013 06:00	6/12/2013 06:00	2	1,070.0	1,070.0	0.00

Operations at Report Time
Weld on well head

Operations Summary
Short trip, POOH, PJSM, rig up casing equip, run 13 3/8" casing, fill pipe & circulate, cement 13 3/8" casing, WOC, top out, cut pipe & weld on well head.

Operations Next Report Period
Nipple up B.O.P.

Weather	Wellbore
Sunny and Clear	

Daily Contacts

Job Contact	Position	Office
Delbert Sullivan	WSL	(970) 986-4401
Tucker Yancey	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	1.00	1.00	6	POOH (short trip)	1,070.0	1,070.0
07:00	1.00	2.00	6	TIH & blow hole clean	1,070.0	1,070.0
08:00	3.00	5.00	6	POOH, lay down hammer & bit.	1,070.0	1,070.0
11:00	2.50	7.50	22	Safety meeting & rig up B&L casing equip. to run 13 3/8" casing	1,070.0	1,070.0
13:30	3.00	10.50	12	Make up shoe track & run 25jts. of 13 3/8" BTC, 54.50# J-55 to 1070'	1,070.0	1,070.0
16:30	0.50	11.00	22	Held safety meeting & rig up 13 3/8" cement head	1,070.0	1,070.0
17:00	1.00	12.00	5	Fill pipe & cir. casing cap.(good returns)	1,070.0	1,070.0
18:00	2.50	14.50	12	Cement 13 3/8" casing, Pump 10bbls. water, test lines to 2800#, 20bbls. super flush 101, 10bbls. water, 440sks=170bbls. versacem cement @ 12.3ppg, yield 2.41, .125lbm poly-e-flake, 3lbm pheno seal coarse, 40lb bags, 13.73 gal. fresh water, 220sks=83.3bbls versacem cement @ 12.8ppg, yield 2.14, .125lbm poly-e-flake, 3lbm pheno seal coarse 40lb bags, 11.71 gal fresh water, displace with 155bbls. fresh water, bump plug with 765#, hold for 10mins, blead off press, blead back 1bbl. checked floats, floats holding. (Got 88bbls. cement back to surface)	1,070.0	1,070.0
20:30	4.50	19.00	13	WOC, & do top out job (10bbls. = 23sks, @ 12.3ppg, yield 2.41,)	1,070.0	1,070.0
01:00	5.00	24.00	14	Make rough cut on casing, lay down same, make final cut on casing & install well head	1,070.0	1,070.0

Mud Check: <depth>ftKB, <dttm>

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)
6/11/2013	Surface	1,070.0	-4.1	13 3/8	12.615	54.50	J-55	13 3/8	12.615
6/20/2013	Intermediate	4,178.5	33.4	9 5/8	6.681	47.00	HCP-110	9 5/8	6.681

Report Printed: 6/24/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 6/11/2013
Report #: 7, DFS: 1
Daily Depth Progress: 650.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Delbert Sullivan	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
99.16	4.02	60.7	61.3	31.6	97.73	2.27

Target Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0	6/9/2013	142.0	

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
6/10/2013 06:00	6/11/2013 06:00	1	420.0	1,070.0	650.00

Operations at Report Time
TD @1070'

Operations Summary
Drill 17 1/2" Hole with Hammer from 420 ft to 665 ft. Survey every 300 ft. Blow hole clean,POOH repair drawworks clutch, drill from 665' to 1070', survey, blow hole clean

Operations Next Report Period
Test B.O.P.

Weather	Wellbore
Sunny and Clear	

Daily Contacts

Job Contact	Position	Office
Paul Roberts	WSL	(281) 705-4881
Tucker Yancey	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	3.50	3.50	2	Drill from 420' to 559', RPM 35, WOB 10/15, CFM 4500, air press 300/350psi.	420.0	559.0
09:30	0.50	4.00	10	Survey at 525 ft, Inc= 0.65°. Regulatory Contact: State of Utah- Dan Jarvis -09:30, 6-10-13, Intent to run 13 3/8" Casing and Cement.	559.0	559.0
10:00	1.00	5.00	6	POOH with HWDP, pull rotating rubber TIH with 2 stands. 6 1/4" D.C.s, install rotating rubber.	559.0	559.0
11:00	3.00	8.00	2	Drill from 559' to 665', RPM 35, WOB 10/15, CFM 4500, air press 300/350psi.	559.0	665.0
14:00	2.00	10.00	8	POOH tp repair drawworks clutch	665.0	665.0
16:00	0.50	10.50	7	Service rig	665.0	665.0
16:30	6.00	16.50	8	Repair drawworks clutch.	665.0	665.0
22:30	1.00	17.50	6	TIH to 665'	665.0	665.0
23:30	5.50	23.00	2	Air drill from 665' to 1070', RPM 35, air press 500 psi, CFM 4500, WOB 10/15	665.0	1,070.0
05:00	0.50	23.50	10	Survey @ 1044' , Inc:0.45°.	1,070.0	1,070.0
05:30	0.50	24.00	5	Blow hole clean	1,070.0	1,070.0

Mud Check: <depth>ftKB, <dttm>

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)
142.0	1,070.0	928.00	6/9/2013 21:00	6/11/2013 05:00	19.50	47.6	19.50			100.00

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)
6/11/2013	Surface	1,070.0	-4.1	13 3/8	12.615	54.50	J-55	13 3/8	12.615
6/20/2013	Intermediate	4,178.5	33.4	9 5/8	6.681	47.00	HCP-110	9 5/8	6.681

Report Printed: 6/24/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 6/10/2013
Report #: 6, DFS: 0
Daily Depth Progress: 278.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Paul Roberts	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
7.50	0.00	37.1	37.1		100.00	0.00

Target Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0			

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
6/9/2013 06:00	6/10/2013 06:00	0	142.0	420.0	278.00

Operations at Report Time
Drill 17 1/2" Hole

Operations Summary
Pickup 4 1/2" HWDP, Pickup 6 1/2" and 8" Drill Collars. Rig down B&L Lay down truck.,Finish rig up, make up bit & hammer, press test air lines to 1000psi., surface test hammer, tag @ 142', spud well @ 21:00hrs. drill from 142' to 318', survey @ 287' .48*, POOH w/H.WT., TIH w/6 1/4" D.C.s, drill from 318' to 420'

Operations Next Report Period
Drilling

Weather	Wellbore
Sunny and Clear	Original Hole

Daily Contacts

Job Contact	Position	Office
Paul Roberts	WSL	(281) 705-4881
Tucker Yancey	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	3.50	3.50	1	Pickup 4 1/2" HWDP drillpipe, rack in derrick. Drift all tubulars. Contacted State of Utah- Left message with Carol Daniels Intent to Spud, CCU 361- 06:00 hrs, Jun 9, 2013, Message at 10:30 hrs, 08-Jun-2013.	142.0	142.0
09:30	3.00	6.50	1	Strap and Pickup 12 - 6.25" drill collars.	142.0	142.0
12:30	1.00	7.50	1	Rig down B&L Casing Lay Down Truck.	142.0	142.0
13:30	1.00	8.50	1	Pickup 3 x 8 inch drill collas. Pickup 17 1/2" Hammer and Bit. drift same	142.0	142.0
14:30	3.50	12.00	1	Finish riggung up, put dirt on back side of muffler, move dust control to end of booie line, hook up all pason lines, get rotating head on rig floor, #1 Gen down due to oil saver o-ring blew out,	142.0	142.0
18:00	2.50	14.50	22	Make up hammer & bit, surface test hammer, test lines to 1000psi.	142.0	142.0
20:30	0.50	15.00	23	Install rotating rubber on head, install rotating head, tag @ 142' below rotary	142.0	142.0
21:00	4.00	19.00	2	Spud well, drill from 142ft. to 318ft., RPM 35, air press 250/300, CFM 3000, WOB 10/15	142.0	318.0
01:00	0.50	19.50	10	Survey @ 287', .48*,	318.0	318.0
01:30	1.00	20.50	6	POOH with h.wt.,pull rotating rubber TIH with 2stds. 6 1/4" D.C.s, install rotating rubber	318.0	318.0
02:30	3.50	24.00	2	Drill from 318' to 420', RPM 35, WOB 10/15, CFM 3000, air press 250/300psi	318.0	420.0

Mud Check: <depth>ftKB, <dttm>

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)
142.0	420.0	278.00	6/9/2013 21:00	6/10/2013 06:00	7.50	37.1	7.50			100.00

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)

Report Printed: 6/10/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 6/9/2013
Report #: 5, DFS: -1
Daily Depth Progress:

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Paul Roberts	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
7.50	0.00	37.1	37.1		100.00	0.00

Target Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0			

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
6/8/2013 06:00	6/9/2013 06:00	-1	0.0	0.0	

Operations at Report Time
Pickup Drillpipe

Operations Summary
Prep rig to pickup Top Drive. Pickup Top Drive. Weld on 20 inch conductor. Rig up Blooie Line. rig up floor,stand pipe, tongs, bails elevators, cut & slip drill line, hook up rotary chain, load drill pipe & BHA on pipe racks, hook up air jammer equip. to stand pipe, Pickup drillpipe and HWDP.

Operations Next Report Period
Drilling

Weather	Wellbore
Sunny and Clear	

Daily Contacts

Job Contact	Position	Office
Paul Roberts	WSL	(281) 705-4881
Tucker Yancey	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	0.50	0.50	22	Pre Tour Safety Meeting.	142.0	142.0
06:30	2.00	2.50	1	Prepare floor and derrick to pickup Top Drive.	142.0	142.0
08:30	2.00	4.50	1	Pickup Top Drive with bed truck assist.	142.0	142.0
10:30	3.50	8.00	1	Connect Service loop and Kelly hose. Contacted State of Utah- Left message with Carol Daniels Intent to Spud, CCU 36-1- 06:00 hrs, Jun 9, 2013, Message at 10:30 hrs, 08-Jun-2013.	142.0	142.0
14:00	2.50	10.50	1	Pickup and weld 20 inch riser.	142.0	142.0
16:30	10.00	20.50	1	Rig up rig floor, tong, bails, elevators, air package, stand pipe, rotary chain, repair wires to drawworks, hook up blooie line, cut & slip drill line, load drill pipe & BHA on pipe racks,	142.0	142.0
02:30	3.50	24.00	1	Rig up B&L Lay Down Truck. Pickup 4.5" drillpipe and HWDP.	142.0	142.0

Mud Check: <depth>ftKB, <dttm>

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)

Report Printed: 6/10/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 6/8/2013
Report #: 4, DFS: -2
Daily Depth Progress:

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Paul Roberts	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
7.50	0.00	37.1	37.1		100.00	0.00

Target Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0			

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
6/7/2013 06:00	6/8/2013 06:00	-2	0.0	0.0	

Operations at Report Time
Rig Move

Operations Summary
CCU 36-1: Set Drawworks, A-Legs, balance of derrick. Repair Drawworks Communication Cable, Pin Board, Raise Derrick, String up Blocks. Set Northwestern Air Package. Rig up camps.
CCU 17-1: Rig down Camps, Move to 36-1 location.

Operations Next Report Period
Drilling

Weather	Wellbore
Sunny and Clear	

Daily Contacts

Job Contact	Position	Office
Paul Roberts	WSL	(281) 705-4881
Tucker Yancey	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	0.50	0.50	1	Pre Job Safety Meeting Rig Crews, Tri State Trcuking, Sterling Crane on 36-1 location. Pre Job Safety with Mountain States and HB Rental on 17-1 Location.	142.0	142.0
06:30	6.50	7.00	1	CCU: 17-1: Rig down Camps and Move to CCU 36-1. CCU 36-1: Set Drawworks, Derrick, off driller's side doghouse. Continue rig of backyard. Fire Generators.	142.0	142.0
13:00	2.00	9.00	1	Rig up electrical cords to rig package. Set Zeco Solids control equipment. Set and Rig up camps.	142.0	142.0
15:00	3.00	12.00	8	Damaged plug identified on Drawworks communication line. Repair plug. Crane idle from 1500 to 18:00 hrs while repair made. Set Northwestern Air Package. Set Zeco Solids control equipment. Rig up camps.	142.0	142.0
18:00	3.00	15.00	1	Pin Board on Derrick. Raise Derrick. Hang Blocks. Crane released at 21:00 hrs.	142.0	142.0
21:00	2.50	17.50	1	String up Blocks with Colorado Spooling.	142.0	142.0
23:30	6.50	24.00	1	Operations shut down for the night. Crews working daylight only for rig move.	142.0	142.0

Mud Check: <depth>ftKB, <dttm>

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)

Report Printed: 6/10/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 6/7/2013
Report #: 3, DFS: -3
Daily Depth Progress:

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Paul Roberts	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
7.50	0.00	37.1	37.1		100.00	0.00

Target Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0			

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
6/6/2013 06:00	6/7/2013 06:00	-3	0.0	0.0	

Operations at Report Time
Rig Move.

Operations Summary
Unstack Subbases, Nipple down and unstack BOPE. Install Tubing head and Frac Valve on CCU 17-1. Haul rig equipment to CCU 36-1. Crane moved to CCU 36-1 at 12:00 hrs. Rig up backyard on, set skid rails, subbases, strong backs, floor sections.

Operations Next Report Period
Rig Up & Tear Down

Weather	Wellbore
Sunny and Clear	

Daily Contacts

Job Contact	Position	Office
Paul Roberts	WSL	(281) 705-4881
Sam Loredo	WSL	(970) 986-4401
Tucker Yancey	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	0.50	0.50	22	Pre Job Safety Meeting with Rig Crews, Trs State Trucking and Sterling Crane.	142.0	142.0
06:30	5.50	6.00	1	CCU 17-1: Unstack Subbases. Unstack BOPE. Nipple up Tubing Head, test to 9500 psi. Nipple up Frac Valve. Haul misc loads of rig equipment to to CCU 36-1. Rig down crane and move to 36-1 Location.	142.0	142.0
12:00	8.00	14.00	1	CCU 36-1: Rig up sterling Crane. Set Mats, Rails , Sub Bases, Strong Backs, Floor Sections, Rotary Table.. Set Gas Buster and Barite hopper, Zeco Drying Shakers and C-Fuges. Rig up backyard. CCU 17-1: Move misc loads to 36-1. . Cleanup Liner and general cleanup of location. CCU 17-1: Rig 95% moved. CCU 36-1 75% Rigged Up.	142.0	142.0
20:00	10.00	24.00	22	Operations shut down for the night. Crews working daylight only for rig move. Plan to move camps in morning: 6-7-2013.		

Mud Check: <depth>ftKB, <dttm>

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)

Report Printed: 6/10/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 6/6/2013
Report #: 2, DFS: -4
Daily Depth Progress:

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Paul Roberts	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
7.50	0.00	37.1	37.1		100.00	0.00

Target Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0			

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
6/5/2013 06:00	6/6/2013 06:00	-4	0.0	0.0	

Operations at Report Time
Rig Move

Operations Summary
Scope down Derrick, Remove derrick from rig floor. Set off doghouses, drawworks, floor sections, strongbacks. Pressure wash and inspect all loads prior to leaving location. Move equipment to 36-1 location. Move Distance 7.5 miles.

Operations Next Report Period
Rig Up & Tear Down

Weather	Wellbore
Sunny and Clear	

Daily Contacts

Job Contact	Position	Office
Paul Roberts	WSL	(281) 705-4881
Sam Loredo	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	0.50	0.50	1	Held PJSM with Tri-State moving crew, Sterling Crane Crew, and rig crews.	142.0	142.0
06:30	5.50	6.00	1	Scoped down derrick. Removed Crown section and middle section. Removed board. Set off drillers side and off drillers side doghouses.	142.0	142.0
12:00	6.00	12.00	1	R/D A-Leg section of derrick. Set off Drawworks, Rotatry Table, Floor Plates, Floor section, and strongbacks. Moved mud tanks, generators, SCR house, Diesel Tank and Parts House to 36-1 location. Set Mud Tanks, Drying Shaker Skid, Mud Pumps, SCR House, Generators. Set up containment and set Diesel Tank. Set Parts House.	142.0	142.0
18:00	12.00	24.00	1	Operations shut down for the night. Crews working daylight only for rig move. Move Distance 7.5 miles.	142.0	142.0

Mud Check: <depth>ftKB, <dttm>

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)

Report Printed: 6/10/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 6/5/2013
Report #: 1, DFS: -5
Daily Depth Progress:

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Paul Roberts	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
7.50	0.00	37.1	37.1		100.00	0.00

Target Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0			

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
6/4/2013 06:00	6/5/2013 06:00	-5	0.0	0.0	

Operations at Report Time
Rig Move

Operations Summary
Rig down rig and and equipment. Rig released from Cane Creek 17-1 06:00 hrs, 04-Jun-2013. Lay down top drive track, Spool down blocks. Clean Mud pits, Rig down back yard. Move misc loads to new 36-1 location. Rig 40% moved, 35% Rigged down.

Operations Next Report Period
Rig Up & Tear Down

Weather	Wellbore
Cloudy	

Daily Contacts

Job Contact	Position	Office
Paul Roberts	WSL	(281) 705-4881
Sam Loredo	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	3.00	3.00	1	Skid floor forward. L/D Top Drive and track. Badger cleaning mud tanks.	142.0	142.0
09:00	4.00	7.00	1	Hang Blocks unspooled drilling line. R/D and load out Halliburton MPD Equipment. Badger cleaning mud tanks.	142.0	142.0
13:00	5.00	12.00	1	R/D Backyard. Removed Standpipe and hoses from derrick. Moving drill pipe and misc. loads to 36-1 location. Badger cleaning mud tanks.	142.0	142.0
18:00	12.00	24.00	1	Operations shut down for the night. Rig crews working days only for rig move.	142.0	142.0

Mud Check: <depth>ftKB, <dttm>

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)

Report Printed: 6/10/2013

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

5.LEASE DESIGNATION AND SERIAL NUMBER: ML-40571

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: CANE CREEK

1. TYPE OF WELL Oil Well

8. WELL NAME and NUMBER: Cane Creek Unit 36-1

2. NAME OF OPERATOR: FIDELITY E&P COMPANY

9. API NUMBER: 43019500300000

3. ADDRESS OF OPERATOR: 1700 Lincoln Street Ste 2800 , Denver, CO, 80203

PHONE NUMBER: 720 931-6459 Ext

9. FIELD and POOL or WILDCAT: UNDESIGNATED

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0267 FSL 0774 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 36 Township: 25.0S Range: 19.0E Meridian: S

COUNTY: GRAND

STATE: UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ SPUD REPORT Date of Spud:	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
✓ DRILLING REPORT Report Date: 8/1/2013	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
August 01, 2013

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Joy Gardner	720 956-5763	Sr. Engineering Tech

SIGNATURE	DATE
N/A	8/1/2013

RECEIVED: Aug. 01, 2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 7/31/2013
Report #: 57, DFS: 51.38
Daily Depth Progress: 0.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Paul Roberts	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
448.09	64.93	30.3	38.7	13.1	67.02	32.98

Target Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0	6/9/2013	142.0	142.0

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
7/30/2013 06:00	7/31/2013 06:00	51.38	12,073.0	12,073.0	0.00

Operations at Report Time
Circulate at 7,327'

Operations Summary
Trip out of the hole to 3490 ft. Flow Check, No Flow. Continue trip out to 936 ft. Flow check, well flowing. Shut well in after 3 bbl gain, 60 psi on the annulus. Monitor well while shut-in. Pickup rotating head and strip 15 stands back in hole to 2367 ft. Circulate while holding 400 psi with MPD. Strip in the hole to the shoe at 7322 ft,, holding pressure with MPD. Circulate while building 18.2 ppg kill mud.

Operations Next Report Period
Trips

Weather	Wellbore
Cloudy	Original Hole

Daily Contacts

Job Contact	Position	Office
Sam Loredo	WSL	(970) 986-4401
Paul Roberts	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	0.50	0.50	6	TOH slow from 3,964' to 3,490' monitoring well on trip tank. Hole not taking correct amount of fluid.	12,073.0	12,073.0
06:30	1.00	1.50	6	Flow check well on trip tank. No Flow. Spoke to drilling engineer concerning plan forward.	12,073.0	12,073.0
07:30	1.50	3.00	6	TOH slow from 3,490' to 9,43' monitoring well on trip tank. Hole not taking correct amount of fluid.	12,073.0	12,073.0
09:00	0.50	3.50	6	Flow check. Well flowing, shut well in after 3 bbl gain. SICP = 60 psi. Contact Drilling Engineer.	12,073.0	12,073.0
09:30	1.50	5.00	5	Monitor well SICP 90 psi. Install rotating head rubber and prepare to strip in the hole.	12,073.0	12,073.0
11:00	1.00	6.00	6	Strip in the hole holding pressure with MPD to 2357 ft. Take returns to trip tank, 1.4 bbl per stand.	12,073.0	12,073.0
12:00	2.00	8.00	5	Circulate bottoms up at 2357 ft while holding 400 psi with MPD. Mud weight In/Out 17.6 ppg. Contact Drilling Engineer.	12,073.0	12,073.0
14:00	2.00	10.00	6	Strip in the hole holding pressure with MPD to 4909 ft. Take returns to trip tank, 1.4 bbl per stand. Build KWM in Premix tank.	12,073.0	12,073.0
16:00	0.50	10.50	5	Fill pipe while holding back pressure with MPD. Build KWM at 18.2 ppg in PreMix.	12,073.0	12,073.0
16:30	1.00	11.50	6	Strip in hole f/4909 to 6777 ft holding back pressure with MPD. Take returns to trip tank. Required back pressure to hold well back went over 850 psi, flow increased. Shut well in with Annular Preventer.	12,073.0	12,073.0
17:30	8.50	20.00	5	Circulate gas out of wellbore using driller's method. Holding 1950-1250 psi with MPD. Mud weight in 17.0 ppg, weight out dropped to 9.3 ppg, divert to trip tank. Circulated with MPD until 17.1 PPG in and out.	12,073.0	12,073.0
02:00	0.50	20.50	6	Strip in hole f/6,777' to 7327 ft holding back pressure with MPD. Take returns to trip tank. Shut well in with Annular Preventer.	12,073.0	12,073.0
02:30	3.50	24.00	5	Circulated holding pressure with MPD. Making up 18.2 ppg kill weight OBM in Premix Tank. Fluid Losses Last 24 Hrs = 466 bbls, 420 bbls down hole, 46 bbls contaminated OBM to Slop Tank.	12,073.0	12,073.0

Report Printed: 8/1/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 7/31/2013
Report #: 57, DFS: 51.38
Daily Depth Progress: 0.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Mud Check: 12,073.0ftKB, 7/30/2013 14:00

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
7/30/2013	12,073.0	17.40	68	33.0	23.000	15.000	18.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
					51,294.000	358,449.000			39.0		83.6/16.4

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
			18.16		

Mud Check: 12,073.0ftKB, 7/30/2013 23:59

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
7/30/2013	12,073.0	16.40	62	25.0	21.000	13.000	15.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
					42,663.000	290,295.000			36.0		82.8/17.2

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
466.0			18.16	84.0	

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615
6/20/2013	Intermediate	4,172.0	26.9	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681
7/10/2013	Production	7,322.0	25.1	7	6.184	29.00	P-110	7	6.094

Report Printed: 8/1/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 7/30/2013
Report #: 56, DFS: 50.38
Daily Depth Progress: 0.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Paul Roberts	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
448.09	64.93	30.3	38.7	13.1	67.02	32.98

Target Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0	6/9/2013	142.0	142.0

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
7/29/2013 06:00	7/30/2013 06:00	50.38	12,073.0	12,073.0	0.00

Operations at Report Time
TOH

Operations Summary
Strip out of the hole holding back pressure with MPD to 7325 ft. Circulated bottoms up. Shut in well with MPD. Transfer 15.1 ppg OBM out of the active, transfer 17.1 ppg mud from tank farm to active. Circulate 17.1 ppg kill weight mud around. Flow Check.

Operations Next Report Period
Wire Line Logs

Weather	Wellbore
Thunderstorms	Original Hole

Daily Contacts

Job Contact	Position	Office
Sam Loredo	WSL	(970) 986-4401
Paul Roberts	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	8.50	8.50	6	Strip out of hole from 12,000' to 7325' holding back pressure with HES MPD.	12,073.0	12,073.0
14:30	3.50	12.00	5	Circulated bottoms up. Transferred 15.1 ppg mud out of active system. Transfer 17.0 ppg mud into active system.	12,073.0	12,073.0
18:00	3.50	15.50	5	Circulated and weight up OBM to 17.1 ppg. Pumped 30 bbl dry job. Fluid Losses Last 12 Hrs = 200 bbls downhole during changeover.	12,073.0	12,073.0
21:30	3.00	18.50	6	TOH from 7,325' to 5,345'. Flow check 10 stands out and 5,345', no flow. Hole not taking correct amount of fluid displacement. No flow or loss observed.	12,073.0	12,073.0
00:30	4.00	22.50	5	Empty trip tank to active system. Circulate at 5,345', catch 18.8 ppg pill in Pill Tank.	12,073.0	12,073.0
04:30	1.50	24.00	6	TOH slow from 5,345' to 3,964' monitoring well on trip tank. . Fluid Losses last 12 Hrs = 44 bbls downhole. Total Losses Last 24 Hrs = 244 bbls downhole.	12,073.0	12,073.0

Mud Check: 12,073.0ftKB, 7/29/2013 14:00

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
7/29/2013	12,073.0	17.00	61	30.0	17.000	11.000	15.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
					41,575.000	374,586.000			40.0		85/15

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
200.0					

Mud Check: 12,073.0ftKB, 7/29/2013 23:59

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
7/29/2013	12,073.0	17.40	72	31.0	21.000	13.000	15.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
					54,335.000	341,737.000			39.0		83.6/16.4

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
44.0					

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615
6/20/2013	Intermediate	4,172.0	26.9	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681
7/10/2013	Production	7,322.0	25.1	7	6.184	29.00	P-110	7	6.094

Report Printed: 8/1/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 7/29/2013
Report #: 55, DFS: 49
Daily Depth Progress: 10.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Paul Roberts	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
448.09	64.93	30.3	38.7	13.1	67.02	32.98

Target Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0	6/9/2013	142.0	142.0

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
7/28/2013 06:00	7/29/2013 06:00	49	12,063.0	12,073.0	10.00

Operations at Report Time
Trip Out of Hole

Operations Summary
Drilled 6" Lateral Section from 11,868' to 12,073'. (TD at 08:30 hrs, 7-28-2013). Circulate 3 x Bottoms up, with 2 x LCM sweeps, shaker clean. Strip out of the hole holding back pressure with MPD to 7325 ft. Circulated bottoms up. RIH to 12,073' utilizing MPD. Circulate bottoms up, spot 50 bbl LCM Pill. Strip out of hole utilizing MPD.

Operations Next Report Period
Trips

Weather	Wellbore
Rain	Original Hole

Daily Contacts

Job Contact	Position	Office
Sam Loredo	WSL	(970) 986-4401
Paul Roberts	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	1.50	1.50	2	Drilled 6" Lateral From 12,063' to 12,072'. returns through Halliburton MPD, holding 200 psi backpressure on well. WOB 7-20k, Rotary 0-35 rpm, Q= 219 gpm. P= 3650 psi. MW in/out: 15.1 in / 15.1 ppg out. Bgas: 1300 units, 10 ft flare. Cgas: 3000 units. BOP Drill Men in position: 50 sec.	12,063.0	12,072.0
07:30	0.50	2.00	7	Lubricate Rig. Adjust Top Drive Brake.	12,072.0	12,072.0
08:00	0.50	2.50	2	Drilled 6" Lateral From 12,072' to 12,073'. returns through Halliburton MPD, holding 200 psi backpressure on well. WOB 7-20k, Rotary 0-35 rpm, Q= 219 gpm. P= 3650 psi. MW in/out: 15.1 in / 15.1 ppg out. Bgas: 1300 units, 10 ft flare. Cgas: 3000 units. .	12,072.0	12,073.0
08:30	4.00	6.50	5	Ciirculate hole clean prior to trip. Pump 3 1/2 Bottoms up, shakers clean. Pump 2 x 30 bbl LCM sweeps. Safety Meeting with Rig Crew and MPD prior to Stripping Operation.	12,073.0	12,073.0
12:30	7.50	14.00	6	Wipe hole to 7" Casing shoe at 7,322'. MPD held 960 psi on casing = 18.21 EMW. Fluid Losses Last 12 Hrs = 13 bbls, 10 bbls downhole, 3 bbls to SCE.	12,073.0	12,073.0
20:00	1.50	15.50	5	Circulated bottoms up at 7,327' to remove any gas from the well. Max gas 674 units.	12,073.0	12,073.0
21:30	5.00	20.50	6	Trip in hole to 12,073' utilizing MPD. Filled pipe every 17 stands. No adverse hole condition to report. BOP Trip Drill, Men in position 1 minute.	12,073.0	12,073.0
02:30	2.50	23.00	5	Circulated 2X Bottoms up, spotted 50 bbl LCM Pill.	12,073.0	12,073.0
05:00	1.00	24.00	6	Strip out of hole holding back pressure with HES MPD. Total Losses Last 24 Hrs, 89 bbls, 75 bbls down hole, 14 bbls to SCE, 30 bbls Surface	12,073.0	12,073.0

Mud Check: 12,073.0ftKB, 7/28/2013 14:00

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
7/28/2013	12,073.0	15.10	58	23.0	24.000	19.000	24.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
					10,315.000	370,617.000			33.0		86.6/13.4

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
10.0	3.0		16.77		

Report Printed: 7/29/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 7/29/2013
Report #: 55, DFS: 49
Daily Depth Progress: 10.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Mud Check: 12,073.0ftKB, 7/28/2013 23:59

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
7/28/2013	12,073.0	15.10	61	25.0	32.000	21.000	26.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
					34,001.000	372,399.000			33.0		86.6/13.4

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
109.0	0.0		18.38	100.0	

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)
7,774.0	12,073.0	4,299.00	7/18/2013 05:30	7/28/2013 08:30	196.19	21.9	78.99	117.20	59.74	40.26

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615
6/20/2013	Intermediate	4,172.0	26.9	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681
7/10/2013	Production	7,322.0	25.1	7	6.184	29.00	P-110	7	6.094

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 7/28/2013
Report #: 54, DFS: 48
Daily Depth Progress: 195.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Paul Roberts	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
448.09	64.93	30.3	38.7	13.1	67.02	32.98

Target Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0	6/9/2013	142.0	142.0

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
7/27/2013 06:00	7/28/2013 06:00	48	11,868.0	12,063.0	195.00

Operations at Report Time
Drill 6" Lateral Section

Operations Summary
Drilled 6" Lateral Section from 11,868' to 12,063'.

Operations Next Report Period
Trips

Weather	Wellbore
Rain	Original Hole

Daily Contacts

Job Contact	Position	Office
Sam Loredo	WSL	(970) 986-4401
Paul Roberts	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	6.00	6.00	2	Drilled 6" Lateral From 11,868' to 11,959'. returns through Halliburton MPD, holding 200 psi backpressure on well. WOB 7-20k, Rotary 0-35 rpm, Q= 219 gpm. P= 3650 psi. MW in/out: 15.1 in / 15.1 ppg out. Bgas: 1000 units, 10 ft flare. Cgas: 2300 units. BOP Drill Men in position: 60 sec.	11,868.0	11,959.0
12:00	4.00	10.00	2	Drilled 6" Lateral From 11,959' to 11,977'. returns through Halliburton MPD, holding 200 psi backpressure on well. WOB 7-20k, Rotary 0-35 rpm, Q= 219 gpm. P= 3650 psi. MW in/out: 15.1 in / 15.1 ppg out. Bgas: 1000 units, 10 ft flare. Cgas: 2300 units. Fluid Losses Last 12 Hrs = 27 bbls, 19 bbls down hole, 8 bbls to Solids Control Equipment.	11,959.0	11,977.0
16:00	0.50	10.50	9	Serviced Rig and Equipment.	11,977.0	11,977.0
16:30	2.00	12.50	22	Pulled 1 stand. Changed out rotating head element and gasket. Held 750 psi on casing = 18.21 ECD on well.	11,977.0	11,977.0
18:30	5.50	18.00	2	Drilled 6" Lateral From 11,977' to 12,022'. returns through Halliburton MPD, holding 200 psi backpressure on well. WOB 7-20k, Rotary 0-35 rpm, Q= 219 gpm. P= 3650 psi. MW in/out: 15.1 in / 15.1 ppg out. Bgas: 1300 units, 10 ft flare. Cgas: 3000 units.	11,977.0	12,022.0
00:00	6.00	24.00	2	Drilled 6" Lateral From 12,022' to 12,063'. returns through Halliburton MPD, holding 200 psi backpressure on well. WOB 7-20k, Rotary 0-35 rpm, Q= 219 gpm. P= 3650 psi. MW in/out: 15.1 in / 15.1 ppg out. Bgas: 1300 units, 10 ft flare. Cgas: 3000 units. BOP Drill Men in position: 50 sec. Fluid Losses Last 12 Hrs = 76 bbls, 43 bbls down hole, 3 bbls to SCE, 30 bbls Surface. Total Losses Last 24 Hrs, 103 bbls, 62 bbls down hole, 11 bbls to SCE, 30 bbls Surface.	12,022.0	12,063.0

Mud Check: 11,966.0ftKB, 7/27/2013 14:00

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
7/27/2013	11,966.0	15.10	55	23.0	23.000	17.000	20.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
					14,567.000	366,210.000			33.0		86.6/13.4

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
19.0	8.0		16.93		

Report Printed: 7/29/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 7/28/2013
Report #: 54, DFS: 48
Daily Depth Progress: 195.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Mud Check: 12,031.0ftKB, 7/27/2013 23:59

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
7/27/2013	12,031.0	15.10	57	23.0	25.000	18.000	23.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
					0.000	361,124.00 0			33.0		86.6/13.4

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
43.0	33.0		18.33	112.0	

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)
7,774.0	12,073.0	4,299.00	7/18/2013 05:30	7/28/2013 08:30	196.19	21.9	78.99	117.20	59.74	40.26

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615
6/20/2013	Intermediate	4,172.0	26.9	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681
7/10/2013	Production	7,322.0	25.1	7	6.184	29.00	P-110	7	6.094

Report Printed: 7/29/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 7/27/2013
Report #: 53, DFS: 47
Daily Depth Progress: 295.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Paul Roberts	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
448.09	64.93	30.3	38.7	13.1	67.02	32.98

Target Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0	6/9/2013	142.0	142.0

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
7/26/2013 06:00	7/27/2013 06:00	47	11,562.0	11,857.0	295.00

Operations at Report Time
Drill 6" lateral Section

Operations Summary
Drilling & Sliding 6" Lateral Section from 11,562" to 11,577'. Rig Service. Repair cracked weld in suction line. Drilling & Sliding 6" Lateral Section from 11,577" to 11,868'.

Operations Next Report Period
Drilling

Weather	Wellbore
Sunny and Clear	Original Hole

Daily Contacts

Job Contact	Position	Office
Sam Loredo	WSL	(970) 986-4401
Paul Roberts	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	3.50	3.50	2	Drilled 6" Lateral From 11,562' to 11,577'. returns through Halliburton MPD, holding 200 psi backpressure on well. WOB 7-20k, Rotary 0-35 rpm, Q= 219 gpm. P= 3650 psi. MW in/out: 15.1 in / 15.1 ppg out. Bgas: 450 units, 10 ft flare. Cgas: 2700 units.	11,562.0	11,577.0
09:30	0.50	4.00	7	Lubricate rig. Prep to repair mud suction line.	11,577.0	11,577.0
10:00	1.00	5.00	8	Repair cracked weld on the inlet side of the filter pod on pump suction line.	11,577.0	11,577.0
11:00	7.00	12.00	2	Drilled 6" Lateral From 11,577' to 11,687'. returns through Halliburton MPD, holding 100-200 psi backpressure on well. WOB 7-20k, Rotary 0-35 rpm, Q= 219 gpm. P= 3650 psi. MW in/out: 15.1 in / 15.1 ppg out. Bgas: 450 units, 0-5 ft flare. Cgas: 1800 units. BOP Drill, men in position 1 minute. Fluid Losses Last 12 Hrs = 56 bbls, 43 bbls down hole, 13 bbls to Solids Control Equipment.	11,577.0	11,687.0
18:00	6.00	18.00	2	Drilled 6" Lateral From 11,687' to 11,790'. returns through Halliburton MPD, holding 200 psi backpressure on well. WOB 7-20k, Rotary 0-35 rpm, Q= 219 gpm. P= 3650 psi. MW in/out: 15.1 in / 15.1 ppg out. Bgas: 450 units, 1 -5 ft flare. Cgas: 2300 units. BOP Drill, men in position 1 minute.	11,687.0	11,790.0
00:00	6.00	24.00	2	Drilled 6" Lateral From 11,790' to 11,868'. returns through Halliburton MPD, holding 200 psi backpressure on well. WOB 7-20k, Rotary 0-35 rpm, Q= 219 gpm. P= 3650 psi. MW in/out: 15.1 in / 15.1 ppg out. Bgas: 1000 units, 10 ft flare. Cgas: 2300 units. Fluid Losses Last 12 Hrs = 36 bbls, 28 bbls down hole, 8 bbls to Solids Control Equipment. Total Fluid Lost last 24 hrs, 92 bbls, 71 bbls down hole, 21 bbls to SCE.	11,790.0	11,868.0

Mud Check: 11,608.0ftKB, 7/26/2013 14:00

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
7/26/2013	11,608.0	15.10	54	22.0	22.000	16.000	19.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
					39,665.000	363,259.000			33.0		86.6/13.4

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
43.0	13.0		16.75		

Report Printed: 7/29/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 7/27/2013
Report #: 53, DFS: 47
Daily Depth Progress: 295.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Mud Check: 11,827.0ftKB, 7/26/2013 23:59

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
7/26/2013	11,827.0	15.10	55	23.0	23.000	16.000	19.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
					21,283.000	388,577.000			33.0		86.6/13.4

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
28.0	8.0		18.19	117.0	

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)
7,774.0	12,073.0	4,299.00	7/18/2013 05:30	7/28/2013 08:30	196.19	21.9	78.99	117.20	59.74	40.26

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615
6/20/2013	Intermediate	4,172.0	26.9	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681
7/10/2013	Production	7,322.0	25.1	7	6.184	29.00	P-110	7	6.094

Report Printed: 7/29/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 7/26/2013
Report #: 52, DFS: 46
Daily Depth Progress: 642.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Paul Roberts	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
448.09	64.93	30.3	38.7	13.1	67.02	32.98

Target Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0	6/9/2013	142.0	142.0

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
7/25/2013 06:00	7/26/2013 06:00	46	10,765.0	11,407.0	642.00

Operations at Report Time
Drill 6" Lateral Section

Operations Summary
Drilling & Sliding 6" Lateral Section from 10,758' to 11,562'.

Operations Next Report Period
Drilling

Weather	Wellbore
Sunny and Clear	Original Hole

Daily Contacts

Job Contact	Position	Office
Sam Loredo	WSL	(970) 986-4401
Paul Roberts	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	4.50	4.50	2	Drilled 6" Lateral From 10,758' to 10,838'. returns through Halliburton MPD, holding 200 psi backpressure on well. WOB 7-20k, Rotary 0-35 rpm, Q= 229 gpm. P= 3650 psi. MW in/out: 15.1 in / 15.1 ppg out. Bgas: 1050 units, 10 ft flare. Cgas: 3050 units.	10,758.0	10,838.0
10:30	0.50	5.00	9	Serviced Rig & Equipment. Held BOP Drill, men in position 1 minute.	10,838.0	10,838.0
11:00	7.00	12.00	2	Drilled 6" Lateral From 10,838' to 11,028'. returns through Halliburton MPD, holding 200 psi backpressure on well. WOB 7-20k, Rotary 0-35 rpm, Q= 229 gpm. P= 3650 psi. MW in/out: 15.1 in / 15.1 ppg out. Bgas: 1050 units, 10 ft flare. Cgas: 3050 units. Fluid Losses last 12 Hrs = 9 bbls, 4 bbls down hole, 5 bbls to Solids Control.	10,838.0	11,028.0
18:00	6.00	18.00	2	Drilled 6" Lateral From 11,028' to 11,251'. returns through Halliburton MPD, holding 200 psi backpressure on well. WOB 7-20k, Rotary 0-35 rpm, Q= 229 gpm. P= 3650 psi. MW in/out: 15.1 in / 15.1 ppg out. Bgas: 1050 units, 10 ft flare. Cgas: 3050 units.	11,028.0	11,251.0
00:00	6.00	24.00	2	Drilled 6" Lateral From 11,251' to 11,562'. returns through Halliburton MPD, holding 200 psi backpressure on well. WOB 7-20k, Rotary 0-35 rpm, Q= 229 gpm. P= 3650 psi. MW in/out: 15.1 in / 15.1 ppg out. Bgas: 1050 units, 10 ft flare. Cgas: 3050 units. Held BOP Drill, men in position 1 minute. Fluid Losses Last 12 Hrs = 30 bbls, 14 bbls down hole, 16 bbls to Solids Control.	11,251.0	11,562.0

Mud Check: 10,900.0ftKB, 7/25/2013 14:00

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
7/25/2013	10,900.0	15.10	50	23.0	21.000	16.000	18.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
					44,760.000	375,207.000			33.0		85.3/14.7

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
4.0	5.0		16.65		

Mud Check: 11,349.0ftKB, 7/25/2013 23:59

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
7/25/2013	11,349.0	15.05	52	22.0	23.000	16.000	19.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
					45,967.000	343,385.000			33.0		86.6/13.4

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
14.0	16.0		18.14		

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)
7,774.0	12,073.0	4,299.00	7/18/2013 05:30	7/28/2013 08:30	196.19	21.9	78.99	117.20	59.74	40.26

Report Printed: 7/29/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 7/26/2013
Report #: 52, DFS: 46
Daily Depth Progress: 642.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615
6/20/2013	Intermediate	4,172.0	26.9	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681
7/10/2013	Production	7,322.0	25.1	7	6.184	29.00	P-110	7	6.094

Report Printed: 7/29/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 7/25/2013
Report #: 51, DFS: 45
Daily Depth Progress: 294.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Paul Roberts	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
448.09	64.93	30.3	38.7	13.1	67.02	32.98

Target Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0	6/9/2013	142.0	142.0

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
7/24/2013 06:00	7/25/2013 06:00	45	10,458.0	10,752.0	294.00

Operations at Report Time
Drill 6" Lateral Section

Operations Summary
Drilling & Sliding 6" Lateral Section from 10,458' to 10,758'.

Operations Next Report Period
Drilling

Weather	Wellbore
Cloudy	Original Hole

Daily Contacts

Job Contact	Position	Office
Sam Loredo	WSL	(970) 986-4401
Paul Roberts	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	6.00	6.00	2	Drilled 6" Lateral From 10,458' to 10,587'. returns through Halliburton MPD, holding 200 psi backpressure on well. WOB 7-20k, Rotary 0-35 rpm, Q= 229 gpm. P= 3650 psi. MW in/out: 15.1 in / 15.1 ppg out. Bgas: 3050 units, 10 ft flare. Cgas: 3050 units. BOP Drill - 45 seconds.	10,458.0	10,587.0
12:00	2.50	8.50	2	Drilled 6" Lateral From 10,587' to 10,649'. returns through Halliburton MPD, holding 200 psi backpressure on well. WOB 7-20k, Rotary 0-35 rpm, Q= 229 gpm. P= 3650 psi. MW in/out: 15.1 in / 15.1 ppg out. Bgas: 3050 units, 10 ft flare. Cgas: 3050 units.	10,587.0	10,649.0
14:30	0.50	9.00	9	Serviced Rig and Equipment.	10,649.0	10,649.0
15:00	0.50	9.50	2	Drilled 6" Lateral From 10,649' to 10,656'. returns through Halliburton MPD, holding 200 psi backpressure on well. WOB 7-20k, Rotary 0-35 rpm, Q= 229 gpm. P= 3650 psi. MW in/out: 15.1 in / 15.1 ppg out. Bgas: 3050 units, 10 ft flare. Cgas: 3050 units.	10,649.0	10,656.0
15:30	1.50	11.00	20	Circulated, stand back 1 stand & POH to 10,582'. Troubleshoot iPZIG.	10,656.0	10,656.0
17:00	1.00	12.00	20	Re-Logged with iPZIG from 10,582' to 10,656'. Fluid Losses last 12 hrs = 114 bbls, 92 bbls downhole, 14 bbls to Solids Control.	10,656.0	10,656.0
18:00	6.00	18.00	2	Drilled 6" Lateral From 10,656' to 10,702'. returns through Halliburton MPD, holding 200 psi backpressure on well. WOB 7-20k, Rotary 0-35 rpm, Q= 229 gpm. P= 3650 psi. MW in/out: 15.1 in / 15.1 ppg out. Bgas: 3050 units, 10 ft flare. Cgas: 3050 units. BOP Drill - Men in position 50 seconds.	10,656.0	10,702.0
00:00	6.00	24.00	2	Drilled 6" Lateral From 10,702' to 10,758'. returns through Halliburton MPD, holding 200 psi backpressure on well. WOB 7-20k, Rotary 0-35 rpm, Q= 229 gpm. P= 3650 psi. MW in/out: 15.1 in / 15.1 ppg out. Bgas: 3050 units, 10 ft flare. Cgas: 3050 units. Fluid Losses last 12 Hrs = 40 bbls, 34 bbls down hole, 6 bbls to Solids Control. Total Losses last 24 Hrs = 154 bbls, 126 bbls downhole, 20 bbls to Solids Control.	10,702.0	10,758.0

Mud Check: 10,601.0ftKB, 7/24/2013 14:00

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
7/24/2013	10,601.0	15.10	50	21.0	19.000	13.000	15.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
					97,006.000	265,425.000			33.0		85.1/14.9

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
			16.50	117.0	

Report Printed: 7/29/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 7/25/2013
Report #: 51, DFS: 45
Daily Depth Progress: 294.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Mud Check: <depth>ftKB, 7/25/2013 14:00

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
7/25/2013												

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)
7,774.0	12,073.0	4,299.00	7/18/2013 05:30	7/28/2013 08:30	196.19	21.9	78.99	117.20	59.74	40.26

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615
6/20/2013	Intermediate	4,172.0	26.9	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681
7/10/2013	Production	7,322.0	25.1	7	6.184	29.00	P-110	7	6.094

Report Printed: 7/29/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 7/24/2013
Report #: 50, DFS: 44
Daily Depth Progress: 319.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Paul Roberts	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
448.09	64.93	30.3	38.7	13.1	67.02	32.98

Target Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0	6/9/2013	142.0	142.0

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
7/23/2013 06:00	7/24/2013 06:00	44	10,060.0	10,379.0	319.00

Operations at Report Time
Drill 6" Lateral Section

Operations Summary
Drilling & Sliding 6" Lateral Section from 10,037' to 10,450'.

Operations Next Report Period
Drilling

Weather	Wellbore
Cloudy	Original Hole

Daily Contacts

Job Contact	Position	Office
Delbert Sullivan	WSL	(970) 986-4401
Sam Loredo	WSL	(970) 986-4401
Paul Roberts	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	6.00	6.00	2	Drilled 6" Lateral From 10,037' to 10,150'. returns through Halliburton MPD, holding 200 psi backpressure on well. WOB 7-20k, Rotary 0-35 rpm, Q= 229 gpm. P= 3650 psi. MW in/out: 15.1 in / 15.1 ppg out. Bgas: 3050 units, 10 ft flare. Cgas: 3050 units.	10,037.0	10,150.0
12:00	2.00	8.00	2	Drilled 6" Lateral From 10,150' to 10,174'. returns through Halliburton MPD, holding 200 psi backpressure on well. WOB 7-28k, Rotary 0-35 rpm, Q= 229 gpm. P= 3650 psi. MW in/out: 15.1 in / 15.1 ppg out. Bgas: 3050 units, 10 ft flare. Cgas: 3050 units.	10,150.0	10,174.0
14:00	0.50	8.50	9	Serviced Rig and Equipment.	10,174.0	10,174.0
14:30	3.50	12.00	2	Drilled 6" Lateral From 10,174' to 10,259'. returns through Halliburton MPD, holding 200 psi backpressure on well. WOB 7-20k, Rotary 0-35 rpm, Q= 229 gpm. P= 3650 psi. MW in/out: 15.1 in / 15.1 ppg out. Bgas: 3050 units, 10 ft flare. Cgas: 3050 units. Fluid Losses = 43 BBLS in the last 12 hrs. 37 bbls downhole, 6 bbls to solids equipment.	10,174.0	10,259.0
18:00	6.00	18.00	2	Drilled 6" Lateral From 10,259' to 10,303'. returns through Halliburton MPD, holding 200 psi backpressure on well. WOB 7-20k, Rotary 0-35 rpm, Q= 229 gpm. P= 3650 psi. MW in/out: 15.1 in / 15.1 ppg out. Bgas: 3050 units, 10 ft flare. Cgas: 3050 units.	10,259.0	10,303.0
00:00	6.00	24.00	2	Drilled 6" Lateral From 10,303' to 10,450'. returns through Halliburton MPD, holding 200 psi backpressure on well. WOB 7-20k, Rotary 0-35 rpm, Q= 229 gpm. P= 3650 psi. MW in/out: 15.1 in / 15.1 ppg out. Bgas: 3050 units, 10 ft flare. Cgas: 3050 units. Fluid Losses last 12 hrs = 114 bbls, 108 bbls downhole and 6 bbls to solids control. Total Losses last 24 hrs = 157 bbls, 145 bbls down hole, 12 bbls to solids control.	10,303.0	10,450.0

Mud Check: 10,174.0ftKB, 7/23/2013 14:00

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
7/23/2013	10,174.0	15.10	50	22.0	18.000	13.000	17.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
						376,508.00 0			33.5		86.5/13.5

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
37.0	6.0			110.0	

Report Printed: 7/29/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 7/24/2013
Report #: 50, DFS: 44
Daily Depth Progress: 319.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Mud Check: 10,353.0ftKB, 7/23/2013 23:00

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
7/23/2013	10,353.0	15.10	50	23.0	18.000	13.000	17.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
						365,931.00 0			33.0		86.6/13.4

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
108.0	6.0			112.0	

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)
7,774.0	12,073.0	4,299.00	7/18/2013 05:30	7/28/2013 08:30	196.19	21.9	78.99	117.20	59.74	40.26

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615
6/20/2013	Intermediate	4,172.0	26.9	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681
7/10/2013	Production	7,322.0	25.1	7	6.184	29.00	P-110	7	6.094

Report Printed: 7/29/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 7/23/2013
Report #: 49, DFS: 43
Daily Depth Progress: 568.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Paul Roberts	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
448.09	64.93	30.3	38.7	13.1	67.02	32.98

Target Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0	6/9/2013	142.0	142.0

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
7/22/2013 06:00	7/23/2013 06:00	43	9,460.0	10,028.0	568.00

Operations at Report Time
Drill 6" Lateral Section

Operations Summary
Drilling & Sliding Lateral from 9,460' to 10,037'.

Operations Next Report Period
Drilling

Weather	Wellbore
Sunny and Clear	Original Hole

Daily Contacts

Job Contact	Position	Office
Delbert Sullivan	WSL	(970) 986-4401
Sam Loredo	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	6.00	6.00	2	Drilled 6" Lateral From 9,460' to 9,657'. returns through Halliburton MPD, holding 200 psi backpressure on well. WOB 7-28k, Rotary 0-35 rpm, Q= 229 gpm. P= 3650 psi. MW in/out: 15.3 in / 15.1 ppg out. Bgas: 3000 units, 10 ft flare. Cgas: 3000 units.	9,460.0	9,657.0
12:00	6.00	12.00	2	Drilled 6" Lateral From 9,657' to 9,783'. returns through Halliburton MPD, holding 200 psi backpressure on well. WOB 7-28k, Rotary 0-35 rpm, Q= 229 gpm. P= 3650 psi. MW in/out: 15.3 in / 15.1 ppg out. Bgas: 3000 units, 10-30 ft flare. Cgas: 3000 units. OBM Losses last 12 Hrs = 77 BBLS - 68 bbls Downhole & 9 bbls to solids control.	9,657.0	9,783.0
18:00	6.00	18.00	2	Drilled 6" Lateral From 9,783' to 9,889'. returns through Halliburton MPD, holding 200 psi backpressure on well. WOB 7-28k, Rotary 0-35 rpm, Q= 229 gpm. P= 3650 psi. MW in/out: 15.3 in / 15.1 ppg out. Bgas: 3000 units, 10 ft flare. Cgas: 3000 units.	9,783.0	9,889.0
00:00	6.00	24.00	2	Drilled 6" Lateral From 9,889' to 10,037'. returns through Halliburton MPD, holding 200 psi backpressure on well. WOB 7-28k, Rotary 0-35 rpm, Q= 229 gpm. P= 3650 psi. MW in/out: 15.3 in / 15.1 ppg out. Bgas: 3050 units, 10 ft flare. Cgas: 3050 units. Fluid Losses = 133 BBLS in the last 12 hrs. 127 bbls downhole, 6 bbls to solids equipment. 197 bbls total loss last 24 hrs.	9,889.0	10,037.0

Mud Check: 9,758.0ftKB, 7/22/2013 15:00

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
7/22/2013	9,758.0	15.30	51	24.0	19.000	15.000	18.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
						303,213.000			34.0		84.8/15.2

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
52.0	12.0			114.0	

Mud Check: 9,943.0ftKB, 7/22/2013 15:00

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
7/22/2013	9,943.0	15.20	51	24.0	20.000	15.000	19.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
						287,260.000			34.0		85.6/14.4

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
127.0	6.0			114.0	

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)
7,774.0	12,073.0	4,299.00	7/18/2013 05:30	7/28/2013 08:30	196.19	21.9	78.99	117.20	59.74	40.26

Report Printed: 7/29/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 7/23/2013
Report #: 49, DFS: 43
Daily Depth Progress: 568.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615
6/20/2013	Intermediate	4,172.0	26.9	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681
7/10/2013	Production	7,322.0	25.1	7	6.184	29.00	P-110	7	6.094

Report Printed: 7/29/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 7/22/2013
Report #: 48, DFS: 42
Daily Depth Progress: 424.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Delbert Sullivan	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
335.84	34.98	32.7	39.3	13.8	73.83	26.17

Target Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0	6/9/2013	142.0	142.0

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
7/21/2013 06:00	7/22/2013 06:00	42	9,036.0	9,460.0	424.00

Operations at Report Time
Drill 6" Lateral Section

Operations Summary
Drilling & Sliding 6" Lateral from 9,030' to 9,460'.

Operations Next Report Period
Drilling

Weather	Wellbore
Sunny and Clear	Original Hole

Daily Contacts

Job Contact	Position	Office
Delbert Sullivan	WSL	(970) 986-4401
Sam Loredo	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	6.00	6.00	2	Drilled 6" Lateral From 9,030' to 9,130'. returns through Halliburton MPD, holding 200 psi backpressure on well. WOB 7-28k, Rotary 0-35 rpm, Q= 229 gpm. P= 3650 psi. MW in/out: 15.1 in / 15.1 ppg out. Bgas: 400 units, 0 ft flare. Cgas: 200 units.	9,030.0	9,130.0
12:00	6.00	12.00	2	Drilled 6" Lateral From 9,130' to 9,209'. returns through Halliburton MPD, holding 200 psi backpressure on well. WOB 7-28k, Rotary 0-35 rpm, Q= 229 gpm. P= 3650 psi. MW in/out: 15.1 in / 15.1 ppg out. Bgas: 400 units, 0 ft flare. Cgas: 200 units.	9,130.0	9,209.0
18:00	6.00	18.00	2	Drilled 6" Lateral From 9,209' to 9,320'. returns through Halliburton MPD, holding 200 psi backpressure on well. WOB 7-28k, Rotary 0-35 rpm, Q= 229 gpm. P= 3650 psi. MW in/out: 15.1 in / 15.1 ppg out. Bgas: 400 units, 0 ft flare. Cgas: 200 units.	9,209.0	9,320.0
00:00	2.50	20.50	2	Drilled 6" Lateral From 9,320' to 9,415'. returns through Halliburton MPD, holding 200 psi backpressure on well. WOB 7-28k, Rotary 0-35 rpm, Q= 229 gpm. P= 3650 psi. MW in/out: 15.3 in / 15.1 ppg out. Bgas: 3300 units, 0 ft flare. Cgas: 3600 units.	9,320.0	9,415.0
02:30	1.00	21.50	5	Circulated bottoms up. Raising mud weight to 15.3 PPG.	9,415.0	9,415.0
03:30	2.50	24.00	2	Drilled 6" Lateral From 9,415' to 9,460'. returns through Halliburton MPD, holding 200 psi backpressure on well. WOB 7-28k, Rotary 0-35 rpm, Q= 229 gpm. P= 3650 psi. MW in/out: 15.3 in / 15.1 ppg out. Bgas: 3300 units, 0 ft flare. Cgas: 3600 units.	9,415.0	9,460.0

Mud Check: 9,178.0ftKB, 7/21/2013 16:00

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
7/21/2013	9,178.0	15.10	49	24.0	20.000	15.000	18.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
						331,541.000			32.5		84.4/15.6

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
25.0	4.0			114.0	

Mud Check: 9,415.0ftKB, 7/22/2013 00:00

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
7/22/2013	9,415.0	15.30	50	24.0	20.000	13.000	17.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
						318,813.000			33.5		85/15

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
68.0	9.0			113.0	

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)
7,774.0	9,460.0	1,686.00	7/18/2013 05:30	7/22/2013 06:00	83.94	20.1	26.62	57.32	68.29	31.71

Report Printed: 7/22/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 7/22/2013
Report #: 48, DFS: 42
Daily Depth Progress: 424.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615
6/20/2013	Intermediate	4,172.0	26.9	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681
7/10/2013	Production	7,322.0	25.1	7	6.184	29.00	P-110	7	6.094

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 7/21/2013
Report #: 47, DFS: 41
Daily Depth Progress: 286.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Delbert Sullivan	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
335.84	34.98	32.7	39.3	13.8	73.83	26.17

Target Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0	6/9/2013	142.0	142.0

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
7/20/2013 06:00	7/21/2013 06:00	41	8,726.0	9,012.0	286.00

Operations at Report Time
Drill 6" Lateral Section

Operations Summary
Drilling & Sliding 6" Lateral from 8,670' to 9,030'.

Operations Next Report Period
Drilling

Weather	Wellbore
Cloudy	Original Hole

Daily Contacts

Job Contact	Position	Office
Delbert Sullivan	WSL	(970) 986-4401
Sam Loredo	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	6.00	6.00	2	Drilled 6" Lateral From 8,670' to 8,784'. returns through Halliburton MPD, holding 200 psi backpressure on well. WOB 7-28k, Rotary 0-35 rpm, Q= 229 gpm. P= 3590 psi. MW in/out: 15.1 in / 15.1 ppg out. Bgas: 1200 units, 0 ft flare. Cgas: 1000 units.	8,670.0	8,784.0
12:00	4.00	10.00	2	Drilled 6" Lateral From 8,784' to 8,846'. returns through Halliburton MPD, holding 200 psi backpressure on well. WOB 7-28k, Rotary 0-35 rpm, Q= 229 gpm. P= 3590 psi. MW in/out: 15.1 in / 15.1 ppg out. Bgas: 1200 units, 0 ft flare. Cgas: 1000 units.	8,784.0	8,846.0
16:00	0.50	10.50	9	Serviced Rig and Equipment.	8,846.0	8,846.0
16:30	7.50	18.00	2	Drilled 6" Lateral From 8,846' to 8,974'. returns through Halliburton MPD, holding 200 psi backpressure on well. WOB 7-28k, Rotary 0-35 rpm, Q= 229 gpm. P= 3650 psi. MW in/out: 15.1 in / 15.1 ppg out. Bgas: 400 units, 0 ft flare. Cgas: 200 units.	8,846.0	8,974.0
00:00	6.00	24.00	2	Drilled 6" Lateral From 8,974' to 9,030'. returns through Halliburton MPD, holding 200 psi backpressure on well. WOB 7-28k, Rotary 0-35 rpm, Q= 229 gpm. P= 3650 psi. MW in/out: 15.1 in / 15.1 ppg out. Bgas: 400 units, 0 ft flare. Cgas: 200 units.	8,974.0	9,030.0

Mud Check: 8,838.0ftKB, 7/20/2013 15:00

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
7/20/2013	8,838.0	15.10	48	22.0	20.000	15.000	18.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
						341,737.00 0			32.5		85.2/14.8

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
24.0	8.0			114.0	

Mud Check: 9,017.0ftKB, 7/20/2013 23:00

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
7/20/2013	9,017.0	15.10	50	23.0	21.000	16.000	19.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
						280,875.00 0			32.0		83.8/16.2

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
24.0	6.0			110.0	

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)
7,774.0	9,460.0	1,686.00	7/18/2013 05:30	7/22/2013 06:00	83.94	20.1	26.62	57.32	68.29	31.71

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615
6/20/2013	Intermediate	4,172.0	26.9	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681
7/10/2013	Production	7,322.0	25.1	7	6.184	29.00	P-110	7	6.094

Report Printed: 7/22/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 7/20/2013
Report #: 46, DFS: 40
Daily Depth Progress: 474.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Delbert Sullivan	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
335.84	34.98	32.7	39.3	13.8	73.83	26.17

Target Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0	6/9/2013	142.0	142.0

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
7/19/2013 06:00	7/20/2013 06:00	40	8,182.0	8,656.0	474.00

Operations at Report Time
Drill 6" Lateral Section

Operations Summary
Drilling & Sliding 6" Lateral from 8,165' to 8,670'.

Operations Next Report Period
Drilling

Weather	Wellbore
Sunny and Clear	Original Hole

Daily Contacts

Job Contact	Position	Office
Delbert Sullivan	WSL	(970) 986-4401
Sam Loredo	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	2.50	2.50	2	Drilled 6" Lateral From 8,165' to 8,277'. returns through Halliburton MPD, holding 200 psi backpressure on well. WOB 7-28k, Rotary 0-35 rpm, Q= 229 gpm. P= 3590 psi. MW in/out: 15.1 in / 15.1 ppg out. Bgas: 3000 units, 0 ft flare. Cgas: 3500 units.	8,165.0	8,277.0
08:30	0.50	3.00	9	Serviced Rig and Equipment.	8,277.0	8,277.0
09:00	3.00	6.00	2	Drilled 6" Lateral From 8,277' to 8,386'. returns through Halliburton MPD, holding 200 psi backpressure on well. WOB 7-28k, Rotary 0-35 rpm, Q= 229 gpm. P= 3590 psi. MW in/out: 15.1 in / 15.1 ppg out. Bgas: 3000 units, 0 ft flare. Cgas: 3500 units.	8,277.0	8,386.0
12:00	6.00	12.00	2	Drilled 6" Lateral From 8,386' to 8,506'. returns through Halliburton MPD, holding 200 psi backpressure on well. WOB 7-28k, Rotary 0-35 rpm, Q= 229 gpm. P= 3590 psi. MW in/out: 15.1 in / 15.1 ppg out. Bgas: 3000 units, 0 ft flare. Cgas: 3500 units.	8,386.0	8,506.0
18:00	6.00	18.00	2	Drilled 6" Lateral From 8,506' to 8,577'. returns through Halliburton MPD, holding 200 psi backpressure on well. WOB 7-28k, Rotary 0-35 rpm, Q= 229 gpm. P= 3590 psi. MW in/out: 15.1 in / 15.1 ppg out. Bgas: 1200 units, 0 ft flare. Cgas: 1000 units.	8,506.0	8,577.0
00:00	6.00	24.00	2	Drilled 6" Lateral From 8,577' to 8,670'. returns through Halliburton MPD, holding 200 psi backpressure on well. WOB 7-28k, Rotary 0-35 rpm, Q= 229 gpm. P= 3590 psi. MW in/out: 15.1 in / 15.1 ppg out. Bgas: 1200 units, 0 ft flare. Cgas: 1000 units.	8,577.0	8,670.0

Mud Check: 8,453.0ftKB, 7/19/2013 15:00

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
7/19/2013	8,453.0	15.10	48	23.0	18.000	14.000	17.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
						323,057.000			33.0		85.1/14.9

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
				114.0	

Mud Check: 8,595.0ftKB, 7/19/2013 15:00

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
7/19/2013	8,595.0	15.10	51	22.0	19.000	14.000	17.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
						321,065.000			33.0		85.1/14.9

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
				105.0	

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)
7,774.0	9,460.0	1,686.00	7/18/2013 05:30	7/22/2013 06:00	83.94	20.1	26.62	57.32	68.29	31.71

Report Printed: 7/22/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 7/20/2013
Report #: 46, DFS: 40
Daily Depth Progress: 474.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615
6/20/2013	Intermediate	4,172.0	26.9	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681
7/10/2013	Production	7,322.0	25.1	7	6.184	29.00	P-110	7	6.094

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 7/19/2013
Report #: 45, DFS: 39
Daily Depth Progress: 349.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Delbert Sullivan	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
335.84	34.98	32.7	39.3	13.8	73.83	26.17

Target Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0	6/9/2013	142.0	142.0

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
7/18/2013 06:00	7/19/2013 06:00	39	7,781.0	8,130.0	349.00

Operations at Report Time
Drill 6" Lateral Section

Operations Summary
Drilling & Sliding 6" Lateral from 7,780' to 8,165'.

Operations Next Report Period
Drilling

Weather	Wellbore
Cloudy	Original Hole

Daily Contacts

Job Contact	Position	Office
Delbert Sullivan	WSL	(970) 986-4401
Sam Loredo	WSL	(970) 986-4401
Tucker Yancey	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	6.00	6.00	2	Drilled 6" Lateral From 7,780' to 7,934'. returns through Halliburton MPD, holding 323 psi backpressure on well. WOB 7-18k, Rotary 0-35 rpm, Q= 229 gpm. P= 3590 psi. MW in/out: 15.1 in / 15.1 ppg out. Bgas: 3000 units, 10 ft flare. Cgas: 3500 units.	7,780.0	7,934.0
12:00	5.50	11.50	2	Drilled 6" Lateral From 7,934' to 7,992'. returns through Halliburton MPD, holding 323 psi backpressure on well. WOB 7-28k, Rotary 0-35 rpm, Q= 229 gpm. P= 3590 psi. MW in/out: 15.1 in / 15.1 ppg out. Bgas: 3000 units, 0 ft flare. Cgas: 3500 units.	7,934.0	7,992.0
17:30	0.50	12.00	9	Serviced rig and equipment.	7,992.0	7,992.0
18:00	6.00	18.00	2	Drilled 6" Lateral From 7,992' to 8,058'. returns through Halliburton MPD, holding 200 psi backpressure on well. WOB 7-28k, Rotary 0-35 rpm, Q= 229 gpm. P= 3590 psi. MW in/out: 15.1 in / 15.1 ppg out. Bgas: 3000 units, 0 ft flare. Cgas: 3500 units. Held BOP Drill with crew.	7,992.0	8,058.0
00:00	6.00	24.00	2	Drilled 6" Lateral From 8,058' to 8,165'. returns through Halliburton MPD, holding 200 psi backpressure on well. WOB 7-28k, Rotary 0-35 rpm, Q= 229 gpm. P= 3590 psi. MW in/out: 15.1 in / 15.1 ppg out. Bgas: 3000 units, 0 ft flare. Cgas: 3500 units.	8,058.0	8,165.0

Mud Check: 8,095.0ftKB, 7/18/2013 23:00

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
7/18/2013	8,095.0	15.10	48	20.0	19.000	12.000	15.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
						308,859.00 0			32.5		84.6/15.4

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
84.0	27.0				

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)
7,774.0	9,460.0	1,686.00	7/18/2013 05:30	7/22/2013 06:00	83.94	20.1	26.62	57.32	68.29	31.71

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615
6/20/2013	Intermediate	4,172.0	26.9	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681
7/10/2013	Production	7,322.0	25.1	7	6.184	29.00	P-110	7	6.094

Report Printed: 7/22/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 7/18/2013
Report #: 44, DFS: 38
Daily Depth Progress: 7.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Delbert Sullivan	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
335.84	34.98	32.7	39.3	13.8	73.83	26.17

Target Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0	6/9/2013	142.0	142.0

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
7/17/2013 06:00	7/18/2013 06:00	38	7,774.0	7,781.0	7.00

Operations at Report Time
Drillling

Operations Summary
Finish L/D curve BHA, M/U lateral BHA, & test MWD tools, TIH, service rig, TIH to 7232', pull trip nipple & install rotating rubber, TIH to 7516', displace 17.3 with 15.1ppg, drain buster, cycle pumps, bring P-ZIG on line, log from 7513' to 7543', change swivel packing, log well from 7513' to 7774', Drill from 7774' to 7781'

Operations Next Report Period
Drilling

Weather	Wellbore
Sunny and Clear	Original Hole

Daily Contacts

Job Contact	Position	Office
Delbert Sullivan	WSL	(970) 986-4401
Tucker Yancey	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	4.00	4.00	6	Finish laying down curve BHA, pick up Lateral BHA, service test dir. tools	7,774.0	7,774.0
10:00	1.50	5.50	6	TIH to 2000' @ 1min per std. fill pipe	7,774.0	7,774.0
11:30	0.50	6.00	7	Service rig	7,774.0	7,774.0
12:00	4.50	10.50	6	TIH from 2000' to 7232', filling pipe every 2000'	7,774.0	7,774.0
16:30	0.50	11.00	22	Pull trip nipple & install rotating rubber	7,774.0	7,774.0
17:00	0.50	11.50	6	TIH from 7232' to 7516'	7,774.0	7,774.0
17:30	1.00	12.50	5	Pump LCM pill & displace 17.3ppg KWM out of hole with 15.1ppg mud	7,774.0	7,774.0
18:30	1.00	13.50	5	Drain gas buster of 17.3ppg mud, bring pump back on line, cycle pump, bring P-ZIG up on line, BOP DRILL	7,774.0	7,774.0
19:30	1.50	15.00	5	Log well with P-ZIG from 7516' to 7774', hold back press on well bore with MPD =300psi.	7,774.0	7,774.0
21:00	4.50	19.50	8	Repair & change swivel packing	7,774.0	7,774.0
01:30	4.00	23.50	5	Log with P-ZIG from 7513' to 7774'	7,774.0	7,774.0
05:30	0.50	24.00	2	Slide from 7774' to 7781'	7,774.0	7,781.0

Mud Check: 7,774.0ftKB, 7/17/2013 15:00

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
7/17/2013	7,774.0	15.10	48	24.0	20.000	14.000	17.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
						276,613.000			32.0		83.8/16.2

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment

Mud Check: <depth>ftKB, 7/17/2013 23:00

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
7/17/2013		15.10	49	22.0	20.000	14.000	17.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
						341,399.000			32.0		83.8/16.2

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
98.0	12.0				

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)
7,774.0	9,460.0	1,686.00	7/18/2013 05:30	7/22/2013 06:00	83.94	20.1	26.62	57.32	68.29	31.71

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615
6/20/2013	Intermediate	4,172.0	26.9	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681
7/10/2013	Production	7,322.0	25.1	7	6.184	29.00	P-110	7	6.094

Report Printed: 7/22/2013

FIDELITY Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 7/17/2013
Report #: 43, DFS: 37
Daily Depth Progress: 48.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Delbert Sullivan	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
335.84	34.98	32.7	39.3	13.8	73.83	26.17

Target Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0	6/9/2013	142.0	142.0

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
7/16/2013 06:00	7/17/2013 06:00	37	7,726.0	7,774.0	48.00

Operations at Report Time
POOH

Operations Summary
Drill from 7727' to 7774', service rig, circulate hole clean, shut down & monitor well, displace hole with 17.3 ppg KWM, shut down monitor well & build 200 bbls of 17.3 ppg mud, finish displacment, spot LCM pill, pump slug, strip 5 stds, monitor well, POOH,

Operations Next Report Period
Drilling

Weather	Wellbore
Thunderstorms	Original Hole

Daily Contacts

Job Contact	Position	Office
Delbert Sullivan	WSL	(970) 986-4401
Tucker Yancey	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	4.00	4.00	2	Rotate & slide from 7727' to 7774'	7,727.0	7,774.0
10:00	0.50	4.50	7	Service rig	7,774.0	7,774.0
10:30	2.50	7.00	5	Circulate hole clean, & build 17.3 ppg kill mud (max gas 1522 units)	7,774.0	7,774.0
13:00	2.00	9.00	5	Shut in well, trap 800 psi. on well bore w/MPD, transfer 15.1ppg mud from suction pit to tank farm, transfer 17.3 ppg KWM from pre mix to suction.	7,774.0	7,774.0
15:00	1.50	10.50	5	Displace 15.1 ppg mud from hole with 17.3 ppg KWM @ 3bpm holding a ECD of 17.3 ppg with MPD	7,774.0	7,774.0
16:30	2.50	13.00	5	Shut down, monitor well thru MPD (no flow), drain gas buster, build 200 bbls. of 17.3 ppg mud	7,774.0	7,774.0
19:00	1.50	14.50	5	Finish displacing 17.3 ppg KWM in hole, pump 40 bbl LCM pill, 40 bbl mud, 40 bbls, slug, 5 bbl mud chaser.	7,774.0	7,774.0
20:30	1.00	15.50	6	Strip out of hole 5 stands holding 150 psi on well bore.	7,774.0	7,774.0
21:30	0.50	16.00	22	Monitor well on trip tank, (no gain no loss)	7,774.0	7,774.0
22:00	8.00	24.00	6	POOH, laying down curve BHA	7,774.0	7,774.0

Mud Check: 7,774.0ftKB, 7/16/2013 16:00

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
7/16/2013	7,774.0	17.20	53	30.0	17.000	11.000	14.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
						311,194.00 0			38.0		82.3/17.7

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
168.0	10.0			112.0	

Mud Check: 7,774.0ftKB, 7/16/2013 23:00

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
7/16/2013	7,774.0	17.30	54	30.0	17.000	11.000	15.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
						324,818.00 0			38.5		82.9/17.1

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
49.0	0.0			101.0	

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)
7,328.0	7,774.0	446.00	7/14/2013 13:30	7/16/2013 10:15	27.50	16.2	16.75	10.75	39.09	60.91

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615
6/20/2013	Intermediate	4,172.0	26.9	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681
7/10/2013	Production	7,322.0	25.1	7	6.184	29.00	P-110	7	6.094

Report Printed: 7/22/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 7/16/2013
Report #: 42, DFS: 36
Daily Depth Progress: 148.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Delbert Sullivan	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
335.84	34.98	32.7	39.3	13.8	73.83	26.17

Target Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0	6/9/2013	142.0	142.0

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
7/15/2013 06:00	7/16/2013 06:00	36	7,578.0	7,726.0	148.00

Operations at Report Time
CIR.

Operations Summary
Drilling from 7578' to 7704', service rig, drill from 7704' to 7710', cir. out gas & raise mud wt. to 14.8ppg, drill from 7710' to 7727', cir. out gas & raise mud wt. to 15.1ppg (MAX GAS 4661 units, with 25' flare) mud cut to 11.3ppg

Operations Next Report Period
Trips

Weather	Wellbore
Sunny and Clear	Original Hole

Daily Contacts

Job Contact	Position	Office
Delbert Sullivan	WSL	(970) 986-4401
Tucker Yancey	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	16.50	16.50	2	Rotate & slide from 7578' to 7704'	7,578.0	7,704.0
22:30	0.50	17.00	7	service rig	7,704.0	7,704.0
23:00	0.50	17.50	2	Drill from 7704' to 7710'	7,704.0	7,710.0
23:30	3.50	21.00	5	Shut in well & cir. out gas 5600 units, mud cut to 11.3ppg, raise mud wt. to 14.8ppg	7,710.0	7,710.0
03:00	1.50	22.50	2	Drill from 7710' to 7727'	7,710.0	7,727.0
04:30	0.50	23.00	5	Cir out gas & raise mud wt. to 15.1ppg. 4661 units	7,727.0	7,727.0

Mud Check: 7,665.0ftKB, 7/15/2013 15:00

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
7/15/2013	7,665.0	14.50	50	22.0	19.000	13.000	16.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
						313,339.000			29.5		82.3/17.7

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
87.0	20.0			112.0	

Mud Check: 7,710.0ftKB, 7/15/2013 15:00

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
7/15/2013	7,710.0	14.80	50	20.0	19.000	14.000	16.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
						288,010.000			31.0		83.3/16.7

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
2.0	5.0			106.0	

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)
7,328.0	7,774.0	446.00	7/14/2013 13:30	7/16/2013 10:15	27.50	16.2	16.75	10.75	39.09	60.91

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615
6/20/2013	Intermediate	4,172.0	26.9	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681
7/10/2013	Production	7,322.0	25.1	7	6.184	29.00	P-110	7	6.094

Report Printed: 7/22/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 7/15/2013
Report #: 41, DFS: 35
Daily Depth Progress: 247.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Delbert Sullivan	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
234.65	22.81	38.7	40.1	24.5	90.91	9.09

Target Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0	6/9/2013	142.0	142.0

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
7/14/2013 06:00	7/15/2013 06:00	35	7,328.0	7,578.0	247.00

Operations at Report Time
Drilling @ 7578'

Operations Summary
P/U DIR. BHA, L/D/ D.C.s,TIH, install RCD rubber, TIH, drill F/ 7328' to 7550', repair rig, drill F/ 7550' to 7578', (37 bbls. of mud lost down hole in past 24hrs.)

Operations Next Report Period
Drilling

Weather	Wellbore
Sunny and Clear	Original Hole

Daily Contacts

Job Contact	Position	Office
Delbert Sullivan	WSL	(970) 986-4401
Tucker Yancey	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	2.50	2.50	6	Make up directional BHA, & scribe MWD tools	7,328.0	7,328.0
08:30	0.50	3.00	6	Lay down 3 D.C.s	7,328.0	7,328.0
09:00	2.00	5.00	6	TIH to 3410', filling pipe every 2000'	7,328.0	7,328.0
11:00	0.50	5.50	22	Pull trip nipple & install rotating rubber	7,328.0	7,328.0
11:30	1.50	7.00	6	TIH to 7328' filling pipe every 2000'	7,328.0	7,328.0
13:00	11.00	18.00	2	Rotate & slide drilling from 7328' to 7550'	7,328.0	7,550.0
00:00	3.50	21.50	8	Rig went in dark, repair rig, generators went down.(SHUT IN WELL FOR SAFETY)	7,550.0	7,550.0
03:30	2.50	24.00	2	Slide from 7550' to 7578'	7,550.0	7,578.0

Mud Check: <depth>ftKB, 7/14/2013 14:00

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
7/14/2013		14.50	49	19.0	18.000	11.000	14.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
						297,922.00 0			28.0		82.6/17.4

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
	5.0			105.0	

Mud Check: 7,394.0ftKB, 7/14/2013 14:00

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
7/14/2013	7,394.0	15.10	52	24.0	20.000	13.000	16.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
						340,421.00 0			31.0		82.6/17.4

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
	10.0			100.0	

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)
7,328.0	7,578.0	250.00	7/14/2013 13:30	7/16/2013 00:00	10.25	24.4	8.75	1.50	14.63	85.37

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615
6/20/2013	Intermediate	4,172.0	26.9	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681
7/10/2013	Production	7,322.0	25.1	7	6.184	29.00	P-110	7	6.094

Report Printed: 7/15/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 7/14/2013
Report #: 40, DFS: 34
Daily Depth Progress: 6.30

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Delbert Sullivan	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
234.65	22.81	38.7	40.1	24.5	90.91	9.09

Target Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0	6/9/2013	142.0	142.0

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
7/13/2013 06:00	7/14/2013 06:00	34	7,322.0	7,328.3	6.30

Operations at Report Time
P/U BHA

Operations Summary
Pick up drill pipe, rotating rubber, pick up drill pipe, drill cement & float equip. to 7228', POOH 2stds, repair top drive, TIH 2 stds., drill float equip. & formation to 7328', F.I.T. = 18.0ppg with 15.1ppg mud, POOH,.

Operations Next Report Period
Drilling

Weather	Wellbore
Sunny and Clear	Original Hole

Daily Contacts

Job Contact	Position	Office
Delbert Sullivan	WSL	(970) 986-4401
Tucker Yancey	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	2.00	2.00	6	Pick up 4" drill pipe, filling pipe every 2000'	7,322.0	7,322.0
08:00	0.50	2.50	22	Pull trip nipple & install rotating rubber	7,322.0	7,322.0
08:30	1.00	3.50	6	Pick up 4" drill pipe, , tagged @ 7225'	7,322.0	7,322.0
09:30	4.00	7.50	2	Drill cement & landing collar from 7225' to 7228' (TOP DRIVE STOPPED ROTATING)	7,322.0	7,322.0
13:30	0.50	8.00	6	Rack back 2stds. fill trip tank	7,322.0	7,322.0
14:00	5.50	13.50	8	Trouble shoot & repair top drive, (lube pump & rotary on top drive)	7,322.0	7,322.0
19:30	0.50	14.00	6	TIH to 7228'	7,322.0	7,322.0
20:00	4.50	18.50	2	Drill cement, float eqip. & formation to 7328'	7,322.0	7,328.0
00:30	0.50	19.00	22	FIT test with 15.1ppg mud to 1125psi. for 30 mins. = 18.0ppg.	7,328.0	7,328.0
01:00	4.50	23.50	6	Pump slug & POOH	7,328.0	7,328.0
05:30	0.50	24.00	6	Make up Dir. BHA	7,328.0	7,328.0

Mud Check: 7,328.0ftKB, 7/13/2013 14:00

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
7/13/2013	7,328.0	15.10	54	22.0	18.000	12.000	16.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
						312,383.000			31.5		71.6/28.4

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
				91.0	

Mud Check: 7,333.0ftKB, 7/13/2013 14:00

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
7/13/2013	7,333.0	15.00	53	24.0	20.000	13.000	16.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
						219,429.000			31.5		71.6/28.4

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
				110.0	

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)
7,322.0	7,328.3	6.30	7/13/2013 22:00	7/14/2013 00:30	2.50	2.5	2.50			100.00

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615
6/20/2013	Intermediate	4,172.0	26.9	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681
7/10/2013	Production	7,322.0	25.1	7	6.184	29.00	P-110	7	6.094

Report Printed: 7/15/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 7/13/2013
Report #: 39, DFS: 33
Daily Depth Progress: 0.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Delbert Sullivan	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
234.65	22.81	38.7	40.1	24.5	90.91	9.09

Target Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0	6/9/2013	142.0	142.0

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
7/12/2013 06:00	7/13/2013 06:00	33	7,322.0	7,322.0	0.00

Operations at Report Time
TIH, P/U Drill Pipe

Operations Summary
R/U lay down truck, pick up 4" pipe, rotating rubber, cut drill line, service rig, cir., POOH, strap BHA, P/U BHA pusjh pipe & H.wt. pipe, strap 123jts. 4" drill pipe, pick up pipe.

Operations Next Report Period
Trips

Weather	Wellbore
Sunny and Clear	Original Hole

Daily Contacts

Job Contact	Position	Office
Delbert Sullivan	WSL	(970) 986-4401
Tucker Yancey	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	0.50	0.50	22	Rig lay down truck to pick up pipe	7,322.0	7,322.0
06:30	8.00	8.50	6	pick up 138jts. 4" XT39 drill pipe	7,322.0	7,322.0
14:30	0.50	9.00	22	pull trip nipple, install new rotating rubber on 4" drill pipe	7,322.0	7,322.0
15:00	1.50	10.50	21	Slip & cut 112' of drill line, reset crown-o-matic	7,322.0	7,322.0
16:30	0.50	11.00	7	service rig	7,322.0	7,322.0
17:00	1.00	12.00	5	Cir. & cond. mud, build slug, pump same	7,322.0	7,322.0
18:00	2.50	14.50	6	POOH	7,322.0	7,322.0
20:30	2.00	16.50	22	Strap & calb. BHA (BIT, BIT SUB, 3DC, X-O, 60-4" PUSH PIPE, 45 H.WT.)	7,322.0	7,322.0
22:30	4.50	21.00	6	Pick up bha & push pipe	7,322.0	7,322.0
03:00	1.00	22.00	22	Load & starp 123jtd. of 4" drill pipe on racks	7,322.0	7,322.0
04:00	2.00	24.00	6	Picking up 4" drill pipe	7,322.0	7,322.0

Mud Check: 7,333.0ftKB, 7/12/2013 16:00

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
7/12/2013	7,333.0	15.00	50	24.0	18.000	14.000	17.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
						309,239.00 0			32.0		82.4/17.6

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
	18.0			110.0	

Mud Check: 7,333.0ftKB, 7/12/2013 23:00

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
7/12/2013	7,333.0	15.00	53	24.0	18.000	14.000	17.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
						301,151.00 0			32.0		82.4/17.6

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
	0.0			110.0	

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615
6/20/2013	Intermediate	4,172.0	26.9	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681
7/10/2013	Production	7,322.0	25.1	7	6.184	29.00	P-110	7	6.094

Report Printed: 7/15/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 7/12/2013
Report #: 38, DFS: 32
Daily Depth Progress: 0.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Delbert Sullivan	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
234.65	22.81	38.7	40.1	24.5	90.91	9.09

Target Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0	6/9/2013	142.0	142.0

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
7/11/2013 06:00	7/12/2013 06:00	32	7,322.0	7,322.0	0.00

Operations at Report Time
R/U to p/u drill pipe

Operations Summary
Nipple down BOPs, repair wear bushing, nipple up BOPs, change rams,change wear sub on top drive, make up bails & elevators, make up test jt. and test plug, test bops, TEST CASING TO 2500# FOR 30 MINS. (119BBLS. MUD LOST TO HOLE IN LAST 24hrs. (BEHIND LINER)

Operations Next Report Period

Weather	Wellbore
Sunny and Clear	Original Hole

Daily Contacts

Job Contact	Position	Office
Delbert Sullivan	WSL	(970) 986-4401
Tucker Yancey	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	6.00	6.00	14	Nipple down flow line, trip nipple, catch pan, kill line, turn buckles & koomey lines, pull rotary, pick up bops	7,322.0	7,322.0
12:00	1.00	7.00	14	remove broken bolts from pack off, install wear bushing, install new bolts	7,322.0	7,322.0
13:00	2.00	9.00	14	Stab BOPs, torque bolts with cameron torque tools	7,322.0	7,322.0
15:00	8.00	17.00	14	Nipple up choke hose, flow line, koomey lines, change pipe rams, install catch pan, install rotary, fill up line, trip nipple, bails & elevators, change wear sub on top drive to XT39(load 4" drill pipe on racks & strap same)	7,322.0	7,322.0
23:00	1.00	18.00	15	make up test jt., test plug & rig up cameron testers,	7,322.0	7,322.0
00:00	6.00	24.00	15	testing bops, all rams & valves to 250 low & 10,000 high, hy-drill to 250 low & 5000 high, (TEST CASING TO 2500# FOR 30 MINS) rig down testers	7,322.0	7,322.0

Mud Check: 7,333.0ftKB, 7/11/2013 14:00

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
7/11/2013	7,333.0	15.50	50	26.0	18.000	15.000	18.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
						301,097.00 0			34.0		81.8/18.2

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
119.0					

Mud Check: 7,333.0ftKB, 7/11/2013 23:00

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
7/11/2013	7,333.0	15.50	52	26.0	20.000	15.000	18.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
						293,633.00 0			34.0		81.8/18.2

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
0.0					

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615
6/20/2013	Intermediate	4,172.0	26.9	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681
7/10/2013	Production	7,322.0	25.1	7	6.184	29.00	P-110	7	6.094

Report Printed: 7/15/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 7/11/2013
Report #: 37, DFS: 31
Daily Depth Progress: 0.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Delbert Sullivan	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
234.65	22.81	38.7	40.1	24.5	90.91	9.09

Target Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0	6/9/2013	142.0	142.0

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
7/10/2013 06:00	7/11/2013 06:00	31	7,322.0	7,322.0	0.00

Operations at Report Time

Operations Summary
Polish hanger, circulate, L/D 4-1/2" DP, R/U casing equip. run Tie Back, tag up, test seals to 1000 psi, space out, drain stack, set seals assy & hang off in well head, test casing & seal to 1500 psi for 10 mins., set pack off, went to pull running tool, bolts sheared off of the wear bushing, wear bushing came out on the running tool.

Operations Next Report Period
Test B.O.P.

Weather	Wellbore
Sunny and Clear	Original Hole

Daily Contacts

Job Contact	Position	Office
Delbert Sullivan	WSL	(970) 986-4401
Tucker Yancey	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	1.00	1.00	5	Polish liner hanger (liner top @ 3,775')	7,322.0	7,322.0
07:00	1.50	2.50	5	Circ bottoms up @ 6 bpm & build slug, pump slug	7,322.0	7,322.0
08:30	4.00	6.50	6	Lay down 4 1/2" drill pipe	7,322.0	7,322.0
12:30	1.50	8.00	22	Held safety meeting & rig up casing equip. to run 7" tie back	7,322.0	7,322.0
14:00	10.50	18.50	12	Running 7" Tie Back 29#, BTC, P110, tag @ 3,775'	7,322.0	7,322.0
00:30	0.50	19.00	22	Test seal to 1000psi.	7,322.0	7,322.0
01:00	2.00	21.00	12	Space out, land seal assy. & hanger, test casing & seal assembly to 1500 psi for 10 min	7,322.0	7,322.0
03:00	3.00	24.00	22	Lay down landing jt., rig down casing equip., make up and set pack off, tightened lock downs, went to pull running tool and bolts sheared off wear bushing. Wear bushing came out on running tool.	7,322.0	7,322.0

Mud Check: 7,333.0ftKB, 7/10/2013 14:00

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
7/10/2013	7,333.0	15.00	50	25.0	18.000	14.000	17.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
						301,654.000			31.0		82.6/17.4

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment

Mud Check: 7,333.0ftKB, 7/10/2013 23:00

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
7/10/2013	7,333.0	15.50	52	26.0	18.000	14.000	17.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
						305,767.000			33.0		82.8/17.2

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615
6/20/2013	Intermediate	4,172.0	26.9	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681
7/10/2013	Production	7,322.0	25.1	7	6.184	29.00	P-110	7	6.094

Report Printed: 7/15/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 7/10/2013
Report #: 36, DFS: 30
Daily Depth Progress: 0.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Delbert Sullivan	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
234.65	22.81	38.7	40.1	24.5	90.91	9.09

Target Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0	6/9/2013	142.0	142.0

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
7/9/2013 06:00	7/10/2013 06:00	30	7,322.0	7,322.0	0.00

Operations at Report Time
TIH

Operations Summary
Finish cement job,set & test liner packer, reverse out, rig down halb., cir., & monitor well, service rig, laying down drill pipe, tih, lay down pipe, TIH with polish mill assy.

Operations Next Report Period
Run Casing & Cement

Weather	Wellbore
Sunny and Clear	Original Hole

Daily Contacts

Job Contact	Position	Office
Delbert Sullivan	WSL	(970) 986-4401
Tucker Yancey	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	1.50	1.50	12	Mix & pump 40bbls. tuned spacer @ 18.9ppg, YIELD .9, 28.3bbls. lead cement @ 19.0ppg,yield 1.72 90sks., 71.2bbls. tail cement @ 19.0ppg,yield 1.72, 240sks, shut down drop plug, dart lqanded @ 40bbls. displaced, blew dart with 2200psi.total displacement 170.5bbls. landed plug with 1500psi. held for 30 mins. bleed off press.(TOTAL DISPLACEMENT 120BBLS MUD, 10BBLS. SPACER, 40.5BBLS. MUD)	7,322.0	7,322.0
07:30	2.00	3.50	5	Set liner hanger packer & test to 1500 psi. Reverse cir. 83bbls. of contamated mud, cement & spacer	7,322.0	7,322.0
09:30	1.50	5.00	22	Held safety meeting, rig down Halb. cementers & cement head	7,322.0	7,322.0
11:00	2.00	7.00	5	Cir. bottoms up & build slug	7,322.0	7,322.0
13:00	0.50	7.50	22	Monitor well, no flow, rig up lay down machine	7,322.0	7,322.0
13:30	0.50	8.00	7	Service rig	7,322.0	7,322.0
14:00	0.50	8.50	5	Fill trip tank & pump slug	7,322.0	7,322.0
14:30	5.00	13.50	6	Lay down 4 1/2" drill pipe & hanger setting tool	7,322.0	7,322.0
19:30	1.00	14.50	6	TIH with 4 1/2" drill pipe	7,322.0	7,322.0
20:30	3.00	17.50	6	Lay down 4 1/2" drill pipe	7,322.0	7,322.0
23:30	0.50	18.00	6	TIH 15stds	7,322.0	7,322.0
00:00	3.00	21.00	6	Lay down 4 1/2" drill pipe	7,322.0	7,322.0
03:00	3.00	24.00	6	Make up polish mill assy. & TIH,pull trip nipple, install rotating rubber	7,322.0	7,322.0

Mud Check: 7,322.0ftKB, 7/9/2013 14:00

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
7/9/2013	7,322.0	17.50	85	40.0	30.000	21.000	23.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
					20,111.000	292,676.000			38.0		80.6/19.4

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment

Mud Check: 7,333.0ftKB, 7/9/2013 23:59

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
7/9/2013	7,333.0	16.00	65	29.0	25.000	18.000	21.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
					26,818.000	302,818.000			35.0		80/20

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)

Report Printed: 7/15/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 7/10/2013
Report #: 36, DFS: 30
Daily Depth Progress: 0.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615
6/20/2013	Intermediate	4,172.0	26.9	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681
7/10/2013	Production	7,322.0	25.1	7	6.184	29.00	P-110	7	6.094

Report Printed: 7/15/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 7/9/2013
Report #: 35, DFS: 29
Daily Depth Progress: 0.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Delbert Sullivan	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
234.65	22.81	38.7	40.1	24.5	90.91	9.09

Target Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0	6/9/2013	142.0	142.0

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
7/8/2013 06:00	7/9/2013 06:00	29	7,322.0	7,322.0	0.00

Operations at Report Time
cementing liner

Operations Summary
Run 7" liner, R/D casing tools, clean floor, TIH, cir. LCM, R/U cementers, test lines, pump 80bbls. mud to seat ball in ball catcher, set hanger with 3600psi. blew ball with 4000psi. shoe set @ 7321' (MUD LOSS TO HOLE IN LAST 24hrs. 288bbls.)

Operations Next Report Period
Trips

Weather	Wellbore
Sunny and Clear	Original Hole

Daily Contacts

Job Contact	Position	Office
Delbert Sullivan	WSL	(970) 986-4401
Tucker Yancey	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	1.50	1.50	12	Run 7" liner, total of 80jts., make up liner hanger	7,322.0	7,322.0
07:30	1.00	2.50	12	Rig down B & L casing running equip.	7,322.0	7,322.0
08:30	0.50	3.00	22	Clean oil base mud from rig floor	7,322.0	7,322.0
09:00	9.00	12.00	6	TIH with 4 1/2" drill pipe & liner	7,322.0	7,322.0
18:00	7.50	19.50	5	make up 15ft. pup jt. tag bottom @ 7322', cir. & cond mud. (pump 15mins. swap returns to MPD, pump 65bbl LCM pill mixed @ 70lb/bbl. @ 23:30hrs. pumped 2nd. LCM pill 65bbls. mixed @ 70lbs/bbl, first LCM pill got back to surface @ 23:45hrs. left 2nd. LCM pill in 9 5/8" casing	7,322.0	7,322.0
01:30	1.00	20.50	22	Drop ball, rig up cement head & cementers, held safety meeting	7,322.0	7,322.0
02:30	2.00	22.50	5	Test lines, pump 80bbls. mud to seat ball in ball catcher, set hanger with 3600psi., ball catcher blew @ 4000psi. liner shoe @ 7321'	7,322.0	7,322.0
04:30	1.50	24.00	12	Mix & pump 40bbls. spacer @ 18.9ppg, 28.3bbls. lead cement @ 19.0ppg, 71.2bbls. tail cement @ 19.0ppg. shut down drop plug., dart landed @ 40bbls. displaced & blew dart with 2200psi.	7,322.0	7,322.0

Mud Check: 7,322.0ftKB, 7/8/2013 14:00

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
7/8/2013	7,322.0	17.30	79	37.0	30.000	21.000	23.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
					74,497.000	319,990.000			38.0		82.3/17.7

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment

Mud Check: 7,333.0ftKB, 7/8/2013 23:59

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
7/8/2013	7,333.0	17.50	86	40.0	30.000	19.000	22.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
					49,404.000	299,838.000			40.0		78.3/21.7

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
179.0	40.0			96.0	

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615
6/20/2013	Intermediate	4,172.0	26.9	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681
7/10/2013	Production	7,322.0	25.1	7	6.184	29.00	P-110	7	6.094

Report Printed: 7/15/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 7/8/2013
Report #: 34, DFS: 28
Daily Depth Progress: 0.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Will Alexander	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
221.90	22.81	39.8	41.2	25.3	91.06	8.94

Target Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0	6/9/2013	142.0	142.0

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
7/7/2013 06:00	7/8/2013 06:00	28	7,322.0	7,322.0	0.00

Operations at Report Time
Running 7" liner

Operations Summary
Build & pump slug, POOH, monitor well, POOH, monitor well, POOH, L/D Dir. BHA, pull wear bushing, rig up to run 7" P110 32# BTC casing, make up shoe track & run 7" casing 70 jts. run at report time(mud loss to hole in last 24 hrs. 348 bbls)

Operations Next Report Period
Run Casing & Cement

Weather	Wellbore
Sunny and Clear	Original Hole

Daily Contacts

Job Contact	Position	Office
Will Alexander	WSL	(720) 917-3025
Tucker Yancey	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	2.50	2.50	22	Fill trip tank with 17.1 ppg & build & pump 22 ppg slug	7,322.0	7,322.0
08:30	1.50	4.00	6	POOH 10 stds., slow due to hole condition	7,322.0	7,322.0
10:00	0.50	4.50	22	Monitor well; No flow	7,322.0	7,322.0
10:30	2.00	6.50	6	POOH to shoe	7,322.0	7,322.0
12:30	0.50	7.00	22	Monitor well: No flow	7,322.0	7,322.0
13:00	4.50	11.50	6	POOH	7,322.0	7,322.0
17:30	3.00	14.50	6	Lay down directional BHA, pull wear bushing	7,322.0	7,322.0
20:30	2.50	17.00	22	Held safety meeting & rig up 7" casing equipuipment	7,322.0	7,322.0
23:00	7.00	24.00	12	Make up shoe track & run 70jts. = 3086' 7", 32#, P110, BTC casing. Auto-Fill Floats failed at joint 28.	7,322.0	7,322.0

Mud Check: 7,322.0ftKB, 7/7/2013 13:00

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
7/7/2013	7,322.0	17.20	79	37.0	29.000	22.000	24.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
					72,382.000	294,691.000			40.0		81.7/18.3

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment

Mud Check: 7,322.0ftKB, 7/7/2013 23:59

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
7/7/2013	7,322.0	17.25	80	37.0	30.000	22.000	24.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
					79,266.000	293,803.000			40.0		81.7/18.3

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
16.0					

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)
6/11/2013	Surface	1,070.0	-4.1	13 3/8	12.615	54.50	J-55	13 3/8	12.615
6/20/2013	Intermediate	4,178.5	33.4	9 5/8	6.681	47.00	HCP-110	9 5/8	6.681

Report Printed: 7/9/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 7/7/2013
Report #: 33, DFS: 27
Daily Depth Progress: 94.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Will Alexander	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
221.90	22.81	39.8	41.2	25.3	91.06	8.94

Target Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0	6/9/2013	142.0	142.0

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
7/6/2013 06:00	7/7/2013 06:00	27	7,228.0	7,322.0	94.00

Operations at Report Time
monitor well

Operations Summary
Drill from 7228' to 7322', cir., strip out 1std. repair seals on rotating rubber head, cir., short trip, cir. strip out of hole to 6400', displace well with 20ppg kill mud,

Operations Next Report Period
Trips

Weather	Wellbore
Sunny and Clear	Original Hole

Daily Contacts

Job Contact	Position	Office
Paul Roberts	WSL	(970) 986-4401
Tucker Yancey	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	3.50	3.50	2	Rotate & slide from 7228' to 7322'	7,228.0	7,322.0
09:30	0.50	4.00	5	Cir. & cond. mud	7,322.0	7,322.0
10:00	1.00	5.00	6	Strip out of hole 1std. holding 519psi. on back side with halb. MPD, rotating rubber started leaking	7,322.0	7,322.0
11:00	2.00	7.00	22	Close hy-drill, pull rotating rubber, change seal in halb. head, reinstall rotating rubber	7,322.0	7,322.0
13:00	2.00	9.00	5	Cir. & cond. mud high gas 1560 units., mud cut 17.0ppg	7,322.0	7,322.0
15:00	4.00	13.00	6	Strip out of hole to 6300ft. holding back press on well with halb. MPD	7,322.0	7,322.0
19:00	1.50	14.50	5	Cir. hole clean, high gas 973 units.mud cut to 16.9ppg.	7,322.0	7,322.0
20:30	1.50	16.00	6	Strip out of hole from 7322' to 6400' holding 550psi. on back side with halb. MPD	7,322.0	7,322.0
22:00	3.50	19.50	22	Transfer 17.1ppg mud from active pit to tank farm, finish building 20.0ppg KWM & transfer to active system	7,322.0	7,322.0
01:30	1.00	20.50	5	Displace 17.1 ppg mud out of hole with 20.0 ppg KWM thru MPD system, holding back press on well.	7,322.0	7,322.0
02:30	2.00	22.50	22	Building 20.0 ppg KWM to finish displacement	7,322.0	7,322.0
04:30	1.50	24.00	5	Displace 17.1ppg mud out of hole with 20.0 ppg KWM	7,322.0	7,322.0

Mud Check: 7,322.0ftKB, 7/6/2013 14:00

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
7/6/2013	7,322.0	17.10	67	35.0	31.000	22.000	24.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
					87,134.000	294,253.000			39.0		82/18

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
			17.84	115.0	

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)
6,442.0	7,322.0	880.00	7/4/2013 12:45	7/6/2013 09:00	101.25	8.7	92.09	9.16	9.05	90.95

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)
6/11/2013	Surface	1,070.0	-4.1	13 3/8	12.615	54.50	J-55	13 3/8	12.615
6/20/2013	Intermediate	4,178.5	33.4	9 5/8	6.681	47.00	HCP-110	9 5/8	6.681

Report Printed: 7/9/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 7/6/2013
Report #: 32, DFS: 26
Daily Depth Progress: 440.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Will Alexander	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
221.90	22.81	39.8	41.2	25.3	91.06	8.94

Target Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0	6/9/2013	142.0	142.0

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
7/5/2013 06:00	7/6/2013 06:00	26	6,788.0	7,228.0	440.00

Operations at Report Time
Drilling

Operations Summary
Change swab & liner on #1 mud pump, work on stroke counter on #2. Drill from 6788' to 6846', change swab & liner on #1 mud pump,Pason working on stroke counter on #2, drill from 6846' to 7229" (mud loss to hole in last 24hrs 18 bbls)last sample 7180' 100% salt.

Operations Next Report Period
Run Casing & Cement

Weather	Wellbore
Sunny and Clear	Original Hole

Daily Contacts

Job Contact	Position	Office
Paul Roberts	WSL	(970) 986-4401
Tucker Yancey	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	3.00	3.00	8	Change swab & liner on #1 mud pump & work on stroke counter on #2 mud pump	6,788.0	6,788.0
09:00	3.00	6.00	2	Drill from 6788' to 6846'. Flowing thru MPD, holding 270 psi WHP.	6,788.0	6,846.0
12:00	3.50	9.50	8	Change swab & liner on #1 mud pump, pason working on stroke counter on #2 mud pump	6,846.0	6,846.0
15:30	14.50	24.00	2	Rotate & Slide from 6846' to 7228' flowing thru MPD, holding 300 back press on well, raise mud wt. to 17.0 ppg, high gas 2283 units, 10ft. flare.	6,846.0	7,228.0

Mud Check: 6,846.0ftKB, 7/5/2013 14:00

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
7/5/2013	6,846.0	16.80	62	34.0	28.000	20.000	22.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
					88,649.000	269,914.000			36.0		81.2/18.8

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
			17.48		

Mud Check: 7,135.0ftKB, 7/5/2013 23:59

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
7/5/2013	7,135.0	17.15	68	41.0	31.000	22.000	24.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
					49,663.000	314,816.000			39.5		80.2/19.8

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
7.0	10.0		19.10	124.0	

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)
6,442.0	7,322.0	880.00	7/4/2013 12:45	7/6/2013 09:00	101.25	8.7	92.09	9.16	9.05	90.95

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)
6/11/2013	Surface	1,070.0	-4.1	13 3/8	12.615	54.50	J-55	13 3/8	12.615
6/20/2013	Intermediate	4,178.5	33.4	9 5/8	6.681	47.00	HCP-110	9 5/8	6.681

Report Printed: 7/9/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 7/5/2013
Report #: 31, DFS: 25
Daily Depth Progress: 346.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Will Alexander	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
221.90	22.81	39.8	41.2	25.3	91.06	8.94

Target Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0	6/9/2013	142.0	142.0

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
7/4/2013 06:00	7/5/2013 06:00	25	6,442.0	6,788.0	346.00

Operations at Report Time
Drilling

Operations Summary
Trip in hole with build assembly. Break circulation at the shoe,test flow through MPD equipment. Continue trip in the hole to 6350 ft, wash and ream 1 stand. Drill from 6442' to 6445', cir. change rotating rubber, drill from 6445' to 6788'.

Operations Next Report Period
Run Casing & Cement

Weather	Wellbore
Sunny and Clear	Original Hole

Daily Contacts

Job Contact	Position	Office
Paul Roberts	WSL	(970) 986-4401
Tucker Yancey	WSL	(970) 986-4401
Sam Loredo	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	3.50	3.50	6	Trip in the hole from 320 ft to 4180 ft. Fill pipe at 2100'. Remove flow nipple and install rotating head rubber at 3100', after HWDP in the hole.	6,442.0	6,442.0
09:30	1.50	5.00	5	Fill pipe and break circulation at the shoe 4178 ft. Test flow through HES MPD equipment.	6,442.0	6,442.0
11:00	1.50	6.50	6	Continue trip in the hole f/4185' to 6350'.	6,442.0	6,442.0
12:30	0.50	7.00	5	Fill pipe & ream to bottom @ 6442'	6,442.0	6,442.0
13:00	0.50	7.50	2	Slide Drill from 6442' to 6445', to kickoff cement plug.	6,442.0	6,445.0
13:30	0.50	8.00	5	Cir. & cond. hole. Max Gas 2757 units, 20 ft flare, 4 point mud cut on bottoms up. Circulate till bottoms up gas out of the hole.	6,445.0	6,445.0
14:00	2.00	10.00	22	Change out rotating rubber. Refer to Lesson Learned for procedure to expedite rotating head rubber change.	6,445.0	6,445.0
16:00	5.00	15.00	2	Slide & rotate from 6445' to 6540 ft. Mud weight 16.8 ppg, Bgas : 750-1200 units. Mud Cut 0.1-0.3 pnts. Calculated Gain 2-3 bph.	6,445.0	6,540.0
21:00	9.00	24.00	2	Slide & rotate from 6540' to 6788 ft. Mud weight 16.8 ppg, Flowing thru MPD system, Start on Full Open Choke, 50 psi WH pressure, Increase pressure to 160-180 psi. On MPD Bgas : 225-275 units, Cgas: No Increase. Mud Cut: 0.0 pnts. ECD with 180 psi on WH: 18.4 ppg.	6,540.0	6,788.0

Mud Check: 6,445.0ftKB, 7/4/2013 14:00

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
7/4/2013	6,445.0	16.80	74	36.0	32.000	23.000	25.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
					46,259.000	293,242.000			37.0		79.4/20.6

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
			17.50		

Mud Check: 6,659.0ftKB, 7/4/2013 23:59

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
7/4/2013	6,659.0	16.80	72	37.0	33.000	23.000	25.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
					46,259.000	293,242.000			38.0		79/21

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
15.0			17.50	114.0	

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)
6,442.0	7,322.0	880.00	7/4/2013 12:45	7/6/2013 09:00	101.25	8.7	92.09	9.16	9.05	90.95

Report Printed: 7/9/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 7/5/2013
Report #: 31, DFS: 25
Daily Depth Progress: 346.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)
6/11/2013	Surface	1,070.0	-4.1	13 3/8	12.615	54.50	J-55	13 3/8	12.615
6/20/2013	Intermediate	4,178.5	33.4	9 5/8	6.681	47.00	HCP-110	9 5/8	6.681

Report Printed: 7/9/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 7/4/2013
Report #: 30, DFS: 24
Daily Depth Progress: 0.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Will Alexander	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
221.90	22.81	39.8	41.2	25.3	91.06	8.94

Target Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0	6/9/2013	142.0	142.0

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
7/3/2013 06:00	7/4/2013 06:00	24	7,521.0	7,521.0	0.00

Operations at Report Time
Trip in hole with build assembly

Operations Summary
Trip in to 4,100'. CBU. RIH tagged firm cement @ 6,140'. Drilled out cement from 6,140' to 6,353'. Repair # 1 mud pump & troubleshoot Top Drive. Drilled out cement f/ 6,353' to 6,442'. CBU, pumped dry job. POH L/D Jars & 6" DC's. M/U Curve BHA.

Operations Next Report Period
Drilling

Weather	Wellbore
Sunny and Clear	Original Hole

Daily Contacts

Job Contact	Position	Office
Paul Roberts	WSL	(970) 986-4401
Sam Loredo	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	2.50	2.50	6	Trip in hole to 4,100'.	6,100.0	6,100.0
08:30	1.50	4.00	5	Circulated bottoms up.	6,100.0	6,100.0
10:00	1.50	5.50	6	Trip in hole, tagged firm cement at 6,140'.	6,100.0	6,140.0
11:30	1.00	6.50	2	Drilled out cement from 6,140' to 6,172'.	6,140.0	6,172.0
12:30	1.00	7.50	5	Circulated bottoms up.	6,172.0	6,172.0
13:30	2.50	10.00	2	Drilled out cement from 6,172' to 6,353'. WOB 7-35K, 392 GPM, SPP 2500 psi.	6,172.0	6,353.0
16:00	4.00	14.00	8	Replaced swab in mud pump # 1 and trouble shoot Top Drive.	6,353.0	6,353.0
20:00	0.50	14.50	9	Serviced Rig and Equipment.	6,353.0	6,353.0
20:30	1.00	15.50	2	Drilled out cement from 6,353' to 6,442'. WOB 15-35K, 392 GPM, SPP 2500 psi.	6,353.0	6,442.0
21:30	1.00	16.50	5	Circulated bottoms up. pumped dry job.	6,442.0	6,442.0
22:30	4.50	21.00	6	TOH from 6,442' to BHA. L/D Jars. Pick up 1 joint of 4-1/2" HWDP.	6,442.0	6,442.0
03:00	3.00	24.00	6	Pickup Directional Tools. Orient and verify toolface offset. Shallow test Motor and MWD.Makeup bit.	6,442.0	6,442.0

Mud Check: 6,174.0ftKB, 7/3/2013 13:00

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
7/3/2013	6,174.0	16.80	72	37.0	32.000	18.000	20.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
					30,070.000	301,702.000			36.0		79.7/20.3

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
			17.40		

Mud Check: 6,442.0ftKB, 7/3/2013 23:59

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
7/3/2013	6,442.0	16.80	78	38.0	33.000	24.000	26.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
					35,727.000	274,757.000			36.0		78.1/21.9

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
0.0	0.0		17.40		

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)
6/11/2013	Surface	1,070.0	-4.1	13 3/8	12.615	54.50	J-55	13 3/8	12.615
6/20/2013	Intermediate	4,178.5	33.4	9 5/8	6.681	47.00	HCP-110	9 5/8	6.681

Report Printed: 7/9/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 7/3/2013
Report #: 29, DFS: 23
Daily Depth Progress: 0.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Will Alexander	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
221.90	22.81	39.8	41.2	25.3	91.06	8.94

Target Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0	6/9/2013	142.0	142.0

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
7/2/2013 06:00	7/3/2013 06:00	23	7,521.0	7,521.0	0.00

Operations at Report Time
W.O.C.

Operations Summary
Trip in hole from 2200' to 6500'. Wash to 6590 ft. Circulate to level mud system. Pre Job Safety meeting with HES , rig up cement equipment. Balance 500 ft plug. POH 7 stands. Circulated clean. POH L/D 2-7/8" Tubing. R/D Tubing Equip. W.O.C. M/U BHA, RIH.

Operations Next Report Period
Drilling

Weather	Wellbore
Cloudy	Original Hole

Daily Contacts

Job Contact	Position	Office
Paul Roberts	WSL	(970) 986-4401
Sam Loredo	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	1.50	1.50	6	Trip in hole with tubing tail from 2,200' to 6,590'.	6,600.0	6,600.0
07:30	2.50	4.00	5	Circulated bottoms up. Held PJSM with Halliburton. R/U Swedge and lines.	6,600.0	6,600.0
10:00	1.00	5.00	12	Pumped 34 bbls Tuned Spacer, 35 bbls Plugcem cement at 17.5 ppg, displaced with 5.8 bbls Tuned Spacer and 72 bbls OBM.	6,600.0	6,100.0
11:00	1.00	6.00	6	POH slow at 3 min per stand from 6,590' to 5,900'.	6,100.0	6,100.0
12:00	3.00	9.00	5	Pumped wiper ball and circulated 1-1/2 bottoms up. Tuned Spacer, 15 bbl in returns, no cement.	6,100.0	6,100.0
15:00	4.00	13.00	6	POH L/D 26 Jts of 2-7/8" Tubing. R/D Tubing Equipment.	6,100.0	6,100.0
19:00	9.00	22.00	13	W.O.C. Performed maintenance on Top Drive, Draw Works, and mud pumps. Monitor hole on trip tank while WOC.	6,100.0	6,100.0
04:00	2.00	24.00	6	M/U BHA, RIH to 1,929'. Filled drill pipe.	6,100.0	6,100.0

Mud Check: 5,900.0ftKB, 7/2/2013 13:00

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
7/2/2013	5,900.0	16.80	73	35.0	30.000	16.000	18.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
					3.300	329,668.000			36.0		81.2/18.8

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment

Mud Check: 6,100.0ftKB, 7/2/2013 23:59

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
7/2/2013	6,100.0	16.80	82	38.0	29.000	16.000	18.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
					28,390.000	28,390.000			36.0		79.7/20.3

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)
6/11/2013	Surface	1,070.0	-4.1	13 3/8	12.615	54.50	J-55	13 3/8	12.615
6/20/2013	Intermediate	4,178.5	33.4	9 5/8	6.681	47.00	HCP-110	9 5/8	6.681

Report Printed: 7/9/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 7/2/2013
Report #: 28, DFS: 22
Daily Depth Progress: 0.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Will Alexander	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
221.90	22.81	39.8	41.2	25.3	91.06	8.94

Target Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0	6/9/2013	142.0	142.0

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
7/1/2013 06:00	7/2/2013 06:00	22	7,521.0	7,521.0	0.00

Operations at Report Time
RIH with Tubing Tail

Operations Summary
Wash down and tagged cement at 6,350'. Drill cement from 6,350' to 6,600'. Circulated and weighted mud to 16.8 ppg. Pumped dry job. TOH, stood back BHA. R/U 2-7/8" Tubing Equipment. RIH picking up 26 joints of 2-7/8" Tubing. RIH with tubing tail on 4-1/2" DP.

Operations Next Report Period
Wait on Cement

Weather	Wellbore
Sunny and Clear	Original Hole

Daily Contacts

Job Contact	Position	Office
Paul Roberts	WSL	(970) 986-4401
Sam Loredo	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	2.00	2.00	6	Washed down from 5,893', tagged cement at 6,350'.	6,350.0	6,350.0
08:00	2.00	4.00	2	Drilled out cement from 6,350' to 6,520'. WOB required 3-18k.	6,350.0	6,520.0
10:00	2.50	6.50	5	Circulated bottoms up. Weighted up to 16.0 PPG. Flow check while weighting up, 1.2 bbl returned to trip tank while monitoring.	6,520.0	6,520.0
12:30	0.50	7.00	2	Drilled out cement from 6,520' to 6,600.0. WOB required 3-20k, plug not solid.	6,520.0	6,600.0
13:00	4.00	11.00	5	Circulated hole clean. Raised mud weight to 16.5 ppg and circulated around until 16.5 ppg in and out. Monitor hole on trip tank while waiting up, 1 bbl returned in 1 hr.	6,600.0	6,600.0
17:00	5.00	16.00	5	Circulated and raised mud weight to 16.8 ppg. Mixed dry job. Final Gas 340 units , no flare.	6,600.0	6,600.0
22:00	5.00	21.00	6	Pumped dry job. TOH slow to 9-5/8" Shoe. Flow checked 10 stands out and at shoe, No Flow. Trip out and stand back BHA. Monitoring fluid displacement on trip tank.	6,600.0	6,600.0
03:00	2.00	23.00	6	R/U 2-7/8" Tubing Equipment. RIH picking up 26 joints of 2-7/8" Tubing. R/D Tubing Equipment.	6,600.0	6,600.0
05:00	1.00	24.00	6	RIH with 2-7/8" Tubing Tail on 4-1/2" Drill Pipe to 2200 ft.	6,600.0	6,600.0

Mud Check: 6,600.0ftKB, 7/1/2013 13:00

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
7/1/2013	6,600.0	16.00	60	28.0	23.000	15.000	17.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
					65,501.000	243,670.000			35.0		18.5/81.5

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment

Mud Check: 6,600.0ftKB, 7/1/2013 23:59

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
7/1/2013	6,600.0	16.80	72	35.0	30.000	16.000	18.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
					49,335.000	309,914.000			38.0		80.6/19.4

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)
6/11/2013	Surface	1,070.0	-4.1	13 3/8	12.615	54.50	J-55	13 3/8	12.615
6/20/2013	Intermediate	4,178.5	33.4	9 5/8	6.681	47.00	HCP-110	9 5/8	6.681

Report Printed: 7/9/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 7/1/2013
Report #: 27, DFS: 21
Daily Depth Progress: 0.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Will Alexander	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
221.90	22.81	39.8	41.2	25.3	91.06	8.94

Target Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0	6/9/2013	142.0	142.0

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
6/30/2013 06:00	7/1/2013 06:00	21	7,521.0	7,521.0	0.00

Operations at Report Time
RIH to tag cement

Operations Summary
Ran CBL Log, R/D Logging Tools & Equip. Test BOP with Cameron Testers. R/D Test Equipment. M/U BHA, RIH to 4,110'. Slip and cut off 100 ft of drilling line. Trip In Hole to tag cement.

Operations Next Report Period
Drilling

Weather	Wellbore
Sunny and Clear	Original Hole

Daily Contacts

Job Contact	Position	Office
Paul Roberts	WSL	(970) 986-4401
Sam Loredo	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	2.50	2.50	11	Held PJSM with Wire Line Crew. Ran CBL R/D Logging Tools & Equipment.	6,350.0	6,350.0
08:30	0.50	3.00	9	Serviced Rig and equipment.	6,350.0	6,350.0
09:00	1.00	4.00	6	Moved 31 Joints of 4.50" HWDP to pipe racks. Strap HWDP.	6,350.0	6,350.0
10:00	0.50	4.50	15	Pulled Wear Bushing.	6,350.0	6,350.0
10:30	9.00	13.50	15	Test BOPE and components to 250 / 10K. R/D Test Equipment.	6,350.0	6,350.0
19:30	0.50	14.00	15	Installed Wear Bushing	6,350.0	6,350.0
20:00	1.50	15.50	6	Stripped Rotating Head Bushing on Stand of DP. Installed Trip Nipple.	6,350.0	6,350.0
21:30	0.50	16.00	6	M/U Bit, Bit Sub, (3) DC's.	6,350.0	6,350.0
22:00	2.50	18.50	6	Trip In Hole P/U 31 Joints of 4-1/2" HWDP, Ran 7 stands of HWDP out of derrick.	6,350.0	6,350.0
00:30	0.50	19.00	6	Pulled Trip Nipple and Installed Rotating Head Bushing.	6,350.0	6,350.0
01:00	1.50	20.50	6	Trip In Hole from 1,651' to 4,110'. Filled pipe every 20 stands.	6,350.0	6,350.0
02:30	2.00	22.50	21	Slipped and Cut Off 100 ft of drilling line.	6,350.0	6,350.0
04:30	1.50	24.00	6	Trip in hole from 4,110'.	6,350.0	6,350.0

Mud Check: 6,350.0ftKB, 6/30/2013 13:00

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
6/30/2013	6,350.0	16.50	72	35.0	26.000	14.000	17.000				3.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
					58,101.000	224,312.000			37.0		79.4/20.6

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment

Mud Check: 6,350.0ftKB, 6/30/2013 23:59

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
6/30/2013	6,350.0	15.10	57	22.0	17.000	10.000	12.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
					6,004.000	283,510.000			32.0		80.9/19.1

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)
6/11/2013	Surface	1,070.0	-4.1	13 3/8	12.615	54.50	J-55	13 3/8	12.615
6/20/2013	Intermediate	4,178.5	33.4	9 5/8	6.681	47.00	HCP-110	9 5/8	6.681

Report Printed: 7/9/2013

43 019 50030

FIDELITY EXPLORATION & PRODUCTION CO.

CANE CREEK UNIT State 36-1

SW/SW SEC 36, T25S, R19E

GRAND COUNTY, UTAH

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

GEOLOGY REPORT
by

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RECEIVED
AUG 26 2013
DIV. OF OIL, GAS & MINING

WELL DATA SUMMARY
FIDELITY EXPLORATION AND PRODUCTION
CANE CREEK UNIT STATE 36-1

OPERATOR:	**FIDELITY EXPLORATION & PRODUCTION CO.**
ADDRESS:	1700 Lincoln, Suite 2800, Denver, CO. 80203
WELL NAME:	**CANE CREEK UNIT STATE 36-1**
API #:	43-019-50030
SURFACE LOCATION:	SEC. 36, T25S, R19E SW/SW 267' FSL & 774' FWL Grand County, Utah
FIELD:	Big Flat (Cane Creek Unit)
COUNTY, STATE	Grand, Utah
BASIN:	Paradox
WELL TYPE:	Horizontal Pennsylvanian Cane Creek
BASIS OF PROSPECT:	Production from Cane Creek in near by wells
ELEVATION:	GL: 5793' KB: 5820'
SPUD DATE:	9 June, 2013
TD DATE:	28 July, 2013
HORIZONTAL TARGET:	Cane Creek
KICK-OFF POINT:	6,442' MD
BOTTOM HOLE LOCATION:	3511.52' N & 3606.39' E 1501' FNL & 896' FEL, SE/NE SEC 36, T25S, R19E
FINAL VERTICAL SECTION:	5,029.91'
PROGNOSIS AZIMUTH	47.95°

WELL DATA SUMMARY
FIDELITY EXPLORATION AND PRODUCTION
CANE CREEK UNIT STATE 36-1

FINAL CLOSURE AZIMUTH:	45.76°
TOTAL DRILLING DAYS	50
STATUS OF WELL:	Waiting Completion
CONTRACTOR:	Frontier Drilling Rig #10
TOOLPUSHER:	Allen Nelson, Kenny Kelly
FIELD SUPERVISORS:	Delbert Sullivan, Tucker Yancy, Paul Roberts, Sam Larado
MUD COMPANY:	NOV Bariod DJ Groetken, Clark Slevers, Eric Mascarenas, Martin Martinez
MUD TYPE:	Air/water to 4,182' . Oil Base Mud 4,182' to 12,073' TD
WELLSITE GEOLOGISTS:	Hal Schmidt, Sam Spencer
PROSPECT GEOLOGIST:	Robert Flook, Dave Koval, Dave List, Fidelity.
ROCK SAMPLING:	30' Lagged Samples to Cane Creek 10' and 30' Lagged Samples in Cane Creek Two sets of dry sample cuts were collected.
DIRECTIONAL DRILLERS:	Pathfinder Doug Tanner, Johnathan Rice, Gus Van Pelt
MWD:	Pathfinder Paul Foreman, Dustin Easley, Stewart Robertson
CASING:	20" Conductor @ 142' : 13 3/8" @ 1,067' 9 5/8" @ 4172' : 7" @ 7,321' 4 1/2" Liner @ 12,063'

WELL DATA SUMMARY
FIDELITY EXPLORATION AND PRODUCTION
CANE CREEK UNIT STATE 36-1

HOLE SIZE:	17 1/2" base 20" conductor 142' to 1,070'
	12 1/4" 1,070' to 4,182'
	8 1/2" 4,182' to 7,521' TD Vertical pilot hole
	8 1/2" Curve KOP 6,442' to 7,322'
	6" 7,322' to 12,073'
CORES and DST's:	None
LOGS	None
WIRELINE:	Schlumber, Vernal, Utah, Vertical Pilot Hole 1,067' to 7,365'
	Sconic Scanner, Tripple Combo, Oil Base Micro Imager
	TD not reached by wireline. 7365' Logger bridged off in LCM

KEY OFFSET WELLS	Fidelity Exploration	Fidelity Exploration
	Cane Creek Unit 1-1	Cane Creek Unit 26-2 Pilot
	NE/SW Sec 1, T26S, R19E	W/2 Sec 26, T25S, R19E
	Grand County, Utah	Grand County, Utah

FIDELITY EXPLORATION AND PRODUCTION
DISTRIBUTION
CANE CREEK UNIT STATE 36-1

DISTRIBUTION	Geological Report	Final Mud Log prints	Digital mud log	Well Cuttings
Fidelity Exploration and Production Co. Drilling Manager Bruce Houtchens 1700 Lincoln St. Suite 2800, Denver CO 80203	3	3	3	0
Dave Koval Fidelity Exploration and Production 1700 Lincoln St. Suite 2800 Denver, CO 80203	1	1	1	0
Fidelity E&P Co. Bob Flook 1700 Lincoln Suite 2800 Denver CO 80203	1	1	1	1
State of Utah Division Oil Gas and Mining P.O. Box 145801 1594 W. Temple Suite 1210 Salt Lake City, UT 84114-5801	1	0	1	1
Bureau of Land Management Moab Field Office 82 E. Dogwood Moab, UT 84532	1	0	0	0

GEOLOGICAL REPORT

INTRODUCTION

The Fidelity Exploration & Production Co. Cave Creek Unit State #36-1, located in SW SW, Section 36, T25S, R19E spud near the top of Jurassic, Wingate Sandstone on June 9, 2013. The vertical pilot hole was drilled to a total depth of 7521'(driller) bottoming in the Pennsylvanian, Paradox Formation, Salt # 23 on June 26, 2013. The pilot hole was plugged back with cement to 6140' in order to kick off and drill a horizontal lateral in a defined target zone within the Cane Creek Shale member.

A horizontal lateral was kicked off from 6442' and directionally drilled with an approximate build rate of 6 degrees per 100 feet at an average azimuth of 46 degrees to 7322', where the decision was made to run and cement 7 inch casing to protect the potentially productive Clastic 18/19 from formation damage and avoid mud loss when drilling into the Cane Creek Shale objective. A six inch diameter hole was then drilled to the Cane Creek Shale objective. The lateral followed the downward dipping formation to total depth of 12,073'.

A 24 hour, two man geologist well site service began on June 12, 2013 at 1070', the base of surface casing. An MSI chromatograph was used to record total gas along with the various gas components of C-1 through C-4. The total gas readings were displayed on the rig electronic data recorder screen "Pason" for viewing by operating personnel at the rig. The total gas and the various gas components recorded were plotted at lagged depth to compile a permanent mudlog record of drilling parameters, the lithology drilled, along with hydro carbon shows.

36-1 PILOT HOLE

JURASSIC,TRIASSIC, PERMIAN

The well spudded near top, Jurassic, Wingate Sandstone and was drilled with air/water to 1070'in the Triassic, Moenkopi Formation where 13 3/8 inch surface casing was set and cemented. Geologic service started at this depth. Air/ water continued to be used as a drilling medium as drilling resumed using a 12 ¼" air hammer bit.

The Moenkopi consisted of red, rust colored sandstone, very fine to fine grained, becoming coarser grained from 1200 to 1400 feet. Samples consisted largely of loose quartz sand grains and any clusters recovered were friable and calcareous. Due to drilling with air and water any shale or siltstone was washed out of the samples due to being pulverized by the hammer action of the bit.

The Permian, Cutler Group was picked at 1400'based on correlation with offset wells and the drilled lithology of thick, massive, red-maroon, very fine to coarse grained, calcareous sandstone. At 1650' some white, very fine to fine grained sandstone was encountered along with dark red-brown, silty shale and brown, maroon, very sandy siltstone. Mica and pink feldspar were also noted. At 2000' the color of the sediments being drilled slowly began changing to gray. Sandstone was the dominate lithology to 2150'. It was white to clear and composed of very coarse to coarse size quartz with minor amounts of feldspar. Red brown, very micaeous shale was present from 2150' to 2200'. Limestone, light to medium gray with black shale partings or laminae was present along with thin interbedded white, very fine to fine grained sandstone to 2700'. Traces of crinoids fossils were present in the limestone from 2400' to 2600'.

PENNSYLVANIAN

Honaker Trail Formation

The Honaker Trail Formation was picked at 2700' at the base of a maroon, calcareous, siltstone where the lithology changed to light gray, micro crystalline limestone and white, fine to medium grained sandstone.

The interval from 2700' to 3150' consisted of light to medium gray, oolitic, cherty, limestones and thin interbeds of white, very fine to medium grained, calcareous sandstone. From 3150' to 3550' the lithology was light to medium gray, tan to cream colored limestone. The limestone is generally micro-crystalline, hard and contains traces of fossils, ools and white chert. A zone from 3150' to 3668' contains thin beds of black, brittle, sub-fissile shale interbedded with light gray-brown, micro crystalline, dense limestone. Minor amounts of gas ,to 232 units, was recorded while drilling this zone from the black shale beds.

Paradox Formation

The Paradox formation was picked at 3668'. Lithology consisted of limestone, light brown in color, micro-crystaline to dense, with traces of light gray to white chert. Gas was recorded through the interval peaking at 703 units at 3748'and 403 units at 3847', both of which are enhanced by downtime from connections being made at those depths.

Top of the Ismay member was 3848' based on an increase in penetration rate and correlation to offset wells. The Ismay member consists of limestone, light brown in color, micro-crystalline to dense with a trace of white chert.

The top of Salt #1 was interpreted at 3901' based entirely on drill rate. The salt dissolved as it was being drilled and was not seen in samples.

Clastic #1 was topped at 4068' and consisted of interbedded black shale, dolomite, anhydrite and limestone. The black shale was sooty, platey and brittle. Limestone was brown gray to light brown and micro crystalline. Anhydrite was white, massive, fine crystalline and opaque. Dolomite was brown-gray, micro crystalline, dense, hard and tight.

The top of Salt #2 at 4162' was interpreted from an increase in drill rate. Drilling was halted at 4182' after penetrating 20 feet of Salt #2. Intermediate 9 5/8 inch P110 47lb BTC casing was then run and cemented at 4178.

After a successful FIT, drilling continued using an 8 ½" diameter PDC bit, mud motor and oil base invert mud system. With the change to oil base mud, more meaningful gas detection became possible because of the absence of air diluting the drilling fluid. While drilling ahead gas increases were recorded from various zones as detailed below.

Clastic #2: Gas increased to 165 units from 4288' to 4318' primarily from black, organic, carbonaceous, shale and light to medium gray, very fine crystalline dolomite . Gas composition was methane and ethane. Mud weight was 13.6 ppg.

Clastic # 10: The interval from 5610' to 5646' gave a gas increase to 3175 units. Samples indicated the zone was composed of light gray, micro crystalline, calcareous dolomite and black, organic, sooty shale. Mud weight was 13.5 ppg. Methane through Butane gases were recorded by the chromatograph.

Clastic # 12: Gas to 683 units was recorded from 5826' to 5842'. Samples in the interval indicate the gas is coming from dolomite and black shale similar in lithology to that described above.

Clastic #18/19: Black, sooty, soft shale and brown-gray, micro crystalline, dolomite with a trace of oil was logged at 6717' to 6762'. This interval gave a gas increase to 5116 units which necessitated running returning mud flow through the gas buster where a 15 foot flare resulted along with gas leveling out at 3800 units. Methane through butane gases were recorded. Mud weight was cut to 13.3 ppg from 13.5 ppg. As drilling continued, mud weight was raised to 13.7 ppg at 6780'.

Background gas continued to be elevated at 3000 to 4000 units while drilling ahead to 7049' in Clastic #20. Stopped and circulated at 7049', raising mud weight and pumping LCM sweeps. At 15.0ppg the flare died and at 15.8 the background gas was reduced from 4000 to 3000 units. Drilling proceeded in Salt #21 to top of the Cane Creek Shale at 7313', Background gas remained steady at 3000 tp 3500 units.

CANE CREEK SHALE 7313' (-1498') sample

The upper one third "A zone" of the Cane Creek Shale is composed of alternating thin beds of anhydrite, black shale and dolomite. Anhydrite tends to predominate towards the top of the interval.Black, radioactive, carbonaceous, sooty shale and light to medium gray, silty, argillaceous dolomite predominate in the middle of the Cane Creek "B zone" and this is the principal productive interval in the shale. The lower third "C zone" is composed of alternating beds of anhydrite, dolomite and black shale. The anhydrite beds are up to 4+ feet thick and are the dominate lithology in the interval.

The top of the Cane Creek Shale "A zone" was 7313' based on drill rate and gamma ray. While drilling at 7342' over 120 bbls of mud was lost, prior to samples lagging to the surface. Returns were regained by pumping LCM sweeps. While pumping LCM sweeps, over 100 bbls were lost to the formation in one hour. Mud loss continued to be a problem while drilling forward in the formation so periodic 10 bbl LCM sweeps were employed to maintain circulation to total depth of 7521' Downtime gas peaked at 4870 units at 7342' with background gas settling at 4027 units. Background gas slowly decreased to 1500 units at the base of the Cane Creek. Mud weight while drilling the Cane Creek was maintained at 15.8 ppg

The sudden loss of mud at 7342' and continued mud loss while drilling, indicates the formation is fractured and capable of oil production.

The base of the formation and top of Salt #22 was picked at 7399' based on gamma ray, drill rate and samples. The top of Clastic #22 was picked at 7400' and the top of Salt #23 at 7421' based on correlation to the 26-2 well located a few miles to the north. Clastic #22 was composed of dolomite with traces of black shale in the samples. A correlation to the 17-1H well to the south indicates that the base of the Cane Creek may be at 7421' and the 10 foot thick Salt #22 here, has changed to anhydrite in the 17-1H well. Total depth at 7521' was chosen to allow electric logs to completely evaluate the Cane Creek interval. Unfortunately, the electric log tool hit a bridge at 7370', probably due to the large amount of LCM in the hole, and would not go to bottom. The decision was made to not make a clean out trip, due to problems with lost circulation and hydrocarbons entering the well bore which were

encountered in tripping out of the hole after reaching total depth. Electric logs were run in the pilot hole as planned, but only the upper part of the Cane Creek was logged due to failure of getting the logging tool to bottom because of hole fill from LCM. The vertical pilot hole was then plugged back with cement in order to kick off and drill a horizontal lateral.

HORIZONTAL LATERAL 36-1

The lateral was kicked off the plug at 6442' into Salt #17 and then drilled into Clastic #17 at 6470'. At 6540' returns were routed through Halliburton's MPD system. Mud wt at this point was 16.8 ppg, ECD 18.52.

Clastic 18/19 was topped at 6779'md, 6761 tvd. At 6875' gas increased from 370 units to 2285 units with a 10 ft. flare and stayed high to 6922' where it slowly decreased to 1000 units as mud weight was increased to 17.1, ECD 19.0. Salt #20 and Clastic #20 were drilled and then Salt#21 at 7150'md, 7072'tvd. At 7322' it was decided to run 7 inch casing early, before landing in the Cane Creek, to avoid a possible significant mud loss should the formation be highly fractured.

After casing was set and cemented, drilling of the curve continued with a 6 inch PDC bit and 1.75 bend mud motor. Mud weight was cut back to 15.1 ppg and then lowered to 14.8/14.5 while drilling the Cane Creek which was penetrated at 7498'md, 7293' tvd. Minor gas increases to 120-145 units were recorded to 7650' where a fault was encountered. Salt was present to 7660' where the top of the Cane Creek was again penetrated. While drilling ahead, gas increased at 7685' to 3850 units, then to 4660 and 5614 units with a 30' flare plus a 20 bbl increase in mud volume. Mud weight was cut from 14.8 to 13.3. Gas slowly decreased to 1100 units as the mud weight was raised to 15.1, ECD 18.15.

Landing was at 7774' at an approximate inclination of 85 degrees generally parallel to formation dip. Drilling was halted at this depth in order to trip out and change the bottom hole assembly to a lateral configuration. At trip out a new bit, mud motor with a 1.5 deg. bend and IPZIG tool for near bit gamma ray information comprised the lateral BHA.

Drilling resumed with the new lateral BHA, drilling ahead in the target B zone dolomite, following the downward dipping formation. Gas increased at 7897' to 3269 units with a 20' flare and mud was cut from 15.1 to 14.8 ppg.

Drilling ahead to 8000', gas continued high in the 3400 unit range with numerous 10 and 20 foot flares. At 8000' to 8090'numerous mud motor stalls were noted, possibly indicating fractures with gas variable from 2000 to 3600 units.From 8100' to 8600' gas was elevated to the 3000 unit range with an occasional 20 to 30 ft. flare and 4000 unit increase at 8300'and 8450'. Mud weights of 15.1 ppg and ECD 17.54 were present in the interval. Lithology was primarily B zone dolomite.

From 8700' to 8900' variable gas peaks of 3000 to 4000 units were recorded with 15 to 30' flares from the A and B zones. Upon drilling into the C zone at 8920', with an increase in tight anhydrite, gas decreased to a background of 400 units.

At 9100' to 9420' dolomites in the C zone gave gas increases from 2000 to 4000 units. Mud weight was 15.1 ppg and ECD 17.66.

The B zone was re-entered at 9630' and at 9760' to 9800' gas increased to 3600 units with a 30' flare. This show may be related to fracturing as a mud motor stall was recorded at 9777. Numerous slides in

the interval may also contribute to the show as coming off bottom causes some slight swabbing of the hole which could bring gas into the mud flow. At 9930', a gas increase to 3100 units and a 10' flare are associated with a slide.

From 10,100' to 10,700' gas increases over 3000 units and 20' flares are associated with mud motor stalls and sliding in B zone dolomite and B-1 black shales.

Despite sliding up to try and match the structural dip as it flattened and stay in the formation, the bit drilled out the base of the Cane Creek Shale at 10,770' and into the underlying Salt #22. Seismic indicated that by drilling forward at a hole angle of 85 degrees the Cane Creek Shale could be re-entered as it dipped steeply northward again. This was successful as the base of the Cane Creek Shale was penetrated at 11,546'. Drilling continued through the C zone to 11,612' where Salt was encountered due to crossing a fault. Salt was drilled until at 11,671', the bit again drilled into the base of the Cane Creek. The C zone was drilled in this up thrown block and then the lower part of the B zone. Gas increases were variable to 2000 units. Sliding to stay in the B zone became very difficult and then impossible. As a result the hole angle was too steep to stay in the flatter dipping formation and the C zone was again drilled from 11,970' to 12073' where TD was called.

Based on the hydrocarbon shows encountered in this well it is anticipated that this well can be completed as a commercial oil producer from the Cane Creek Shale. In addition, Clastic 18/19 had excellent shows and with nearby production having been established in the zone, it should produce as well.

Hal Schmidt

Consulting Geologist

DAILY DRILLING SUMMARY
FIDELITY EXPLORATION AND PRODUCTION
CANE CREEK UNIT STATE 36-1

DAY	DATE 2013	DEPTH 06:00 HRS	24 HR FOOTAGE	BIT #	24 HR MUD LOSSES	24 HR ACTIVITY	FORMATION
1	9-Jun	142'	264'	1		MU Hammer, Test air lines to 1000 psi.Tag @ 142'. Drill f/ 142' to 318' Survey @ 287' = 0.48°. Drill f/ 318' to 406'	Kayenta Wingate
2	10-Jun	406'	664'	1		Drill 406' to 559' Survey @ 525' = 0.65°. Rack back 3 stands HWPD. Drill f/ 559' to 665'. TOOH repair drum clutch. TIH. Drill f/ 665' to 1,070'. Survey @ 1,044 = 0.45°. Pump sweep, clean hole.	Wingate Chinle Moenkopi
3	11-Jun	1,070'	0'	1		Short trip 7 Stands. Blow hole. TOOH. LD hammer. RU casers. PJSM w/ casers. Run 25 jts 54# J-55 BTC, RD casers. PJSM w/ Cementers. RU cementers. Test cement lines to 2500 psi. Cement casing. Pump 10 bbl H2O spacer. 20 bbl super flush, 10 bbl H2O spacer. 189 bbl 12.3 ppg lead cmt 440 sx. 84 bbl 12.8 ppg tail 220 sx. pump plug. displace w/ 159 bbl H2O. Bump plug w/ 767 psi. hold for 15 min. WOC. Remove chain off draw works traction motor. Remove cmt head. for top job. Cut off conductor and 13 3/8" casing. Dreess casing. Weld on well head.	Moenkopi
4	12-Jun	1,070'	0'			Weld well head. Remove drum shaft draw works and # 2 traction motor. Take to machine shop in Grand Junction. Rig Repair	Moenkopi
5	13-Jun	1,070'	0'			Wait on parts	Moenkopi
6	14-Jun	1,070'	0'			Wait on parts. Wait on crane mechanic. Repair crane. Lift traction motor and shaft to draw works. Install draw works parts. Guards. Fill w/ oil. LD casing bails.	Moenkopi
7	15-Jun	1,070'	0'			Nipple up. Test Hy-drill 250 psi low, 5000 psi high. Test Rams valves 250 low, 10000 psi high. Test Kelly hose stand pipe all lines back to pumps 250 psi low, 4000 psi high. Test casing to 1900 psi. (Called Dan Jarvis, Utah DOGM, left voice mail Testing BOP).	Moenkopi
8	16-Jun	1,070'	665'	2		Test IBOP, TIW valve, Dart valve. PU Hammer/ Bit, TIH Unload hole, Drill Float cement, Shoe, Drill 1,070' to 1,080' w/ Mist. Dry up hole, Drill w/ Air dusting f/ 1,080' to 1,173' POOH 2 stands. PU 1 single + 1 stand HWDP, TIH Drill f/ 1,173' to 1,580' Survey @ 1,550' = 0.58°. Drill f/ 1,580' to 1,735'	Moenkopi
9	17-Jun	1,735'	1,322'	2		Drill f/ 1,735' to 2,114' Blow hole clean. Survey @ 2,070' + 0.16°. Rig service. Drill f/ 2,114' to 2,587' Survey @ 2,555' = 0.55°. Drill f/ 2,587' to 3,057'	Moenkopi Cutler Honaker Trail

DAILY DRILLING SUMMARY
FIDELITY EXPLORATION AND PRODUCTION
CANE CREEK UNIT STATE 36-1

DAY	DATE 2013	DEPTH 06:00 HRS	24 HR FOOTAGE	BIT #	24 HR MUD LOSSES	24 HR ACTIVITY	FORMATION
10	18-Jun	3,057'	592'	2 / 3		Drill f/ 3,057' to 3,092' Blow hole clean, Survey @ 3,050' = 0.2°. Drill f/ 3,092' to 3,470' Rig service. Drill f/ 3,470' to 3,565' Blow hole clean, Survey @ 3,525' 0.76°. Drill f/ 3,565' to 3,649' Hole got wet. Pump 530 bbl H2O down hole. TOOH. LD Hammer/bit. PU 2 8" DC's, Shock sub, 4 6" DC's, Mudmotor/ tri cone bit, TIH	Honaker trail
11	19-Jun	3,649'	533'	3		TIH, Break circulation every 1000', drilling ahead w/ mudmotor/areated water f/ 3,649' to 3,847' Rig service. Drill f/ 3,847' to 4,182'. Circulate. Short trip.	Honaker trail Paradox Salt Section
12	20-Jun	4,182'	0'			TIH, pump 600 bbl H2O down hole, TOOH, LD bit/ RU lay down truck. LD motor/ 8"DC's, 6" DC's, RU casers. Run 9 5/8" 47# HCP-110 BTC casing. RD casers. RU cementers, PJSM w/ cementers, Test lines to 4,000 psi. Pump 10 bbl H2O spacer.Pump 118 bbl cmt 13 ppg N2, Pump pulg, Displace w/ 302 bbl H2O, Bump plug and hold 730# for 15 min, float held. RD cementers, LD landing joint, Set pack off, Test B section	Paradox Salt Section
13	21-Jun	4,182'	0'			Set wear bushing, Run Gryo, survey every 100'.Top job cement. 101.5 bbl cmt. Hold pressure 20 min. RU cementers, RU Lay down truck, nipple up orbit valve, Flow line, Run in 5 stands 6" DC's, LD 15 6" DC's, RD Bloie line. PU 4 1/2" DP, Rabbitt every joint.	Paradox Salt Section
14	22-Jun	4,182'	15'			PU 1 stand 6" DC's. Rack back pipe. Test casing to 6600#. Rig service. RU polution pan, Bar hoppers, flare lines. PU Directional tools. TIH, Drill Float/Shoe Drill f/ 4,182' to 4,197' FIT 18.0 MWE, Clean pits	Paradox Salt Section
15	23-Jun	4,197'	1,410'	4	37	Move OBM to pits, Prime pumps w/ diesel, blow pop off, blew electrical cords to pump 2. Repair electrical. Displace water w/ OBM. Drill f/ 4,197' to 5,607'	Paradox Salt Section
16	24-Jun	5,607'	1,442'	4	69	Drill f/ 5,607' to 6,592' XO swivle packing/black jack packing. Drill f/ 6,592' to 6,671' Repair swivel Black Jack. Drill f/ 6,671' to 7,049'. Circulate and condition mud. Raise mud wt .	Paradox Salt Section
17	25-Jun	7,049'	293'	4	56	Circulate and condition mud, raise mud wt. to 15.8 ppg. Replace oiler pump on mud pump # 2. Drill f/ 7,049' to 7,342'. Lost returns. Pump61 bbl LCM sweep, 40 ppb	Paradox Salt Section Cane Creek

DAILY DRILLING SUMMARY
FIDELITY EXPLORATION AND PRODUCTION
CANE CREEK UNIT STATE 36-1

DAY	DATE 2013	DEPTH 06:00 HRS	24 HR FOOTAGE	BIT #	24 HR MUD LOSSES	24 HR ACTIVITY	FORMATION
18	26-Jun	7,342'	179'	4	321	Regain returns, Drill f/ 7,342' to 7,427'. Hole taking mud. Slow pump strokes to 90 SPM. Hole still loosing. Pump 30 bbl, 40 ppb LCM pill. Rig service. Drill f/ 7,427' to 7,521' TD Pilot Hole. Circulate. POOH 5 stands. Pump 30 bbl 40 ppb LCM pill, Squeeze in to formation through kill line. Circulate, TIH to TD Circulate. Pump 50 bbl 60#/bbl LCM sweep. pull 7 stds. Squeeze LCM in to formation.pump slug. Short trip to Casing shoe at 4,172' Monitor well for flow 1 Hr. TIH.	Paradox Salt Section Cane Creek
19	27-Jun	7,521'	0'	4	450	Circulate out gas. Raising mud wt f/ 15.8 to 16.5 ppg.Pumping LCM sweeps, Raise mud wt to 16.8. spot LCM pill, TOOH	Paradox Salt Section Cane Creek
20	28-Jun	7,521'	0'	4	337	TOOH, LD directional tools, PJSM w/ SLB, RU loggers, Sonic Scanner 1st run, hit bridge at 7350' work tool to 7370' log out, xo tools. 2nd run Platform Express, 3rd run OBMI cement bond log cased hole.	Paradox Salt Section Cane Creek
21	29-Jun	7,521'	-1,171'		177	Run OBMI, rig down loggers, PU 2 7/8" tubing, TIH to 7300' wash to bottom, Circulate BU. RU cementers. Test lines, Cement plug back 102 bbl cmt, Pull 15 stands, Circulate out, Pump Wiper ball,pump slug. TOOH LD 2 7/8" tubing.	Paradox Salt Section
22	30-Jun	6,350'	250'		30	wear bushing, RU testers. Test BOP, equipment and lines, 250 psi low 10,000 psi high, Test Hydrill, mud lines, valves 250 low, 4000 psi high, Install wear bushing. TIH to dress cement, TIH to 4100', slip and cut drilling line. TIH	Paradox Salt Section
23	1-Jul	6,600'	0'	5	0	TIH tag cmt @ 5845' wash cement down, high gas cut mud.wash cement to 6600', C&C mud raise mud wt to 16.7 ppg. pump slug TOOH, PU 2 7/8" tubing TIH	Paradox Salt Section
24	2-Jul	6,600'	-460'		3	TIH, Circulate BU. Cement plug back pump 34.2 bbl spacer, 35.5 bbl cmt, 5.8 bbl tail spacer, TOOH 7 stands, Circulate out spacer, Pump slug, flow check, TOOH, WOC	Paradox Salt Section
25	3-Jul	6,140'	302'	RR5	28	PU bit/ TIH wash down to 5,900, TIH Tag cmt @ 6,140' Drill cement to 6,353' work on pumps/top drive. Drill cement to 6,442', circulate BU. Pump slug, TOOH, LD bit, PU Directional tools.	Paradox Salt Section
26	4-Jul	6,442'	347'	6	26	TIH, Fill pipe. TIH, circulate out gas. Start drilling curve at 6,442' to 6,789'	Paradox Salt Section
27	5-Jul	6,789'	439'	6	37	Swab out on # 1 pump, Repair swab, Drill f/ 6,789' to 6,846' work on pump storke counter. Drill f/ 6,846' to 7,228'	Paradox Salt Section

DAILY DRILLING SUMMARY
FIDELITY EXPLORATION AND PRODUCTION
CANE CREEK UNIT STATE 36-1

DAY	DATE 2013	DEPTH 06:00 HRS	24 HR FOOTAGE	BIT #	24 HR MUD LOSSES	24 HR ACTIVITY	FORMATION
28	6-Jul	7,228'	94'	6	332	Drill curve f/ 7,228' to 7,322' Circulate and condition mud. Strip out 1 stand, close annular, replace bowl on rotating head, Circulate BU. Strip out, short trip to 6300' Strip back in hole, Circulate BU, Spot 20 ppg mud in annulus,	Paradox Salt Section
29	7-Jul	7,322'	0'	6	109	TOOH, flow check, TOOH, Lay down directional tools, RU casers, Run 7" Liner.	Paradox Salt Section
30	8-Jul	7,322'	0'		219	Run 7" liner, Mak up hanger, TIH w/ 4 1/2" DP, Tag bottom. Circulate, RU cementers, test lines Set hanger. Pump Super flush, Pump cement,	Paradox Salt Section
31	9-Jul	7,322'	0'		0	Pump cement. Reverse circulate out, WOC, RU lay down truck, Pump slug, LD 4 1/2" DP. TIH w/ mill dress cement,	Paradox Salt Section
32	10-Jul	7,322'	0'		119	Mill hanger, Lay down the rest of 4 1/2" DP. Run 7" casing Tie back. Tag hanger, Test seals. P/U Hanger assembly, & space out. Test casing and seale to 1500psi 15 min. LD hanger assembly, RD Casres. PU Pack off, Drain stack, Set pack off, Pack off test plug seperated from bottom seal. (Left 119 bbl OBM backside 7" Tieback.)	Paradox Salt Section
33	11-Jul	7,322'	0'		0	Nipple down, Separate stack from well head. Remove broken bolts from pack off, Install wear bushing, replace bolts. Nipple up, stack, Load 4" DP on racks. Test choke, Test BOP.	Paradox Salt Section
33	12-Jul	7,322'	0'	7	18	Test BOP, PU 4" XT-39 DP, Slip and cut drilling line, Rig service. Rack back drill pipe, PU 3 4" DC's, Bit, PU 4" XT-39 DP, 4" HWDP. TIH	Paradox Salt Section
33	13-Jul	7,322'	6'	7	0	PU/TIH w 4" XT-39 DP. Wash to 7228' Trouble shoot top drive, Pull 2 stands. Work on top drive, repair wireing, TIH 2 stands, Drill landing collar, Float.Shoe, 15' foormation f/ 7,322' to 7,328' F.I.T to 18 # MWE. Pump slug, TOOH	Cane Creek
33	14-Jul	7,328'	237'	8	10	TOOH LD bit, PU directional tools. TIH drill f/ 7,328' to 7,550', Rig generators down 3 hrs. Drill f/ 7,550' to 7,565'	Cane Creek
34	15-Jul	7,565'	162'	8	107	Drill curve f/ 7,565' to 7,704' work on top drive hydraulic lines, Circulate out gas, Drill f 7,704 to 7,710' Took 20 bbl KICK, Shut in well, C&C raise mud wt f/ 14.2 to 14.8 ppg, drill f/ 7,710' to 7,727', C&C mud wt to 15 ppg	Cane Creek
35	16-Jul	7,727'	47'	8	168	Drill f/ 7,727' to 7,774' Rig service. C&C, Shut in well, transfer 17.3 ppg mud into active mud system. Displace hole w/ 17.3 ppg. Flow check, NO FLOW. Build 200 bbl 17.3 ppg mud, Pump slug, TOOH, LD directional tools	Cane Creek

DAILY DRILLING SUMMARY
FIDELITY EXPLORATION AND PRODUCTION
CANE CREEK UNIT STATE 36-1

DAY	DATE 2013	DEPTH 06:00 HRS	24 HR FOOTAGE	BIT #	24 HR MUD LOSSES	24 HR ACTIVITY	FORMATION
36	17-Jul	7,774'	6'	9	49	pipe, TIH, Circulate out 17.3 ppg mud w/ 15.1 ppg mud. Log IPZIG tool over Cane Creek, work on top drive wash pipe. Log IPZIG tool over Cane Creek. Drill f/ 7,774' to 7,780'	Cane Creek
37	18-Jul	7,780'	370'	9	126	Drill f/ 7,780' to 7,992' Rig service, Drill f/ 7,992' to 8,150'	Cane Creek
38	19-Jul	8,150'	506'	9	56	Drill f/ 8,150' to 8,277' Rig service. Drill f/ 8,277' to 8,656'	Cane Creek
39	20-Jul	8,656'	374'	9	63	Drill f/ 8,656' to 8,846' Rig service. Drill f/ 8,846' to 9,030'	Cane Creek
40	21-Jul	9,030'	434'	9	54	Drill f/ 9,030' to 9,415' Circulate out gas. Drill f/ 9,415' to 9,464'	Cane Creek
41	22-Jul	9,464'	584'	9	120	Drill f/ 9,464' to 10,048'	Cane Creek
42	23-Jul	10,048'	410'	9	164	Drill f/ 10,048' to 10,074' Rig service. Drill f/ 10,074' to 10,458'	Cane Creek
43	24-Jul	10,458'	301'	9	220	Drill f/ 10,458' to 10,649' Rig service. Drill f/ 10,458' to 10,656'. Pull 1 stand, Re-log gamma. Drill f/ 10,656' to 10,759'.	Cane Creek
44	25-Jul	10,759'	778'	9	46	Drill f/ 10,759' to 10,838'. Rig service. Drill f/ 10,838' to 11,534'	Paradox Salt Section
45	26-Jul	11,537'	328'	9	57	Drill f/ 11,537' to 11,577' Rig service. Work on suction line in pump house, Drill f/ 11,577' to 11,865'.	Cane Creek
46	27-Jul	11,865'	195'	9	47	Drill f/ 11,865' to 11,977' Rig service, XO rotating head. Drill f/ 11,977' to 12,060'	Cane Creek
47	28-Jul	12,060'	13'	9	53	Drill f/ 12,060' to 12,073' TD was called. Rig service. Circulate, Pull 1 stand Circulate, Strip out to shoe @ 7,321' Circulate. Strip back to bottom. Circulate	Cane Creek
48	29-Jul	12,073'	0'	9	257	Circulate, Strip out holding 1000psi back pressure w/ MPD. To 7"shoe @ 7324'. Displace 15.1 mud in hole w/ 1`7.1 ppg mud. Flow check, pump slug, pull 10 stands. Flow check. TOOH Flow check every 5 stands. No flow Hole not taking proper fill amounts	Cane Creek
49	30-Jul	12,073'	0'	9	+72	TOOH to 3500' Flow check, No flow, hole not taking proper fill amounts. TOOH to 943' Flow check 3 bbl gain. Strip back in hole, C&C raise mud to 18.2 circulate 17.6 in 9.3 out 30' flare in 800 strokes. C&C, Circulate holding 18.5 MWE Downhole. Build 18.2 Kill mud	Cane Creek

DAILY DRILLING SUMMARY
FIDELITY EXPLORATION AND PRODUCTION
CANE CREEK UNIT STATE 36-1

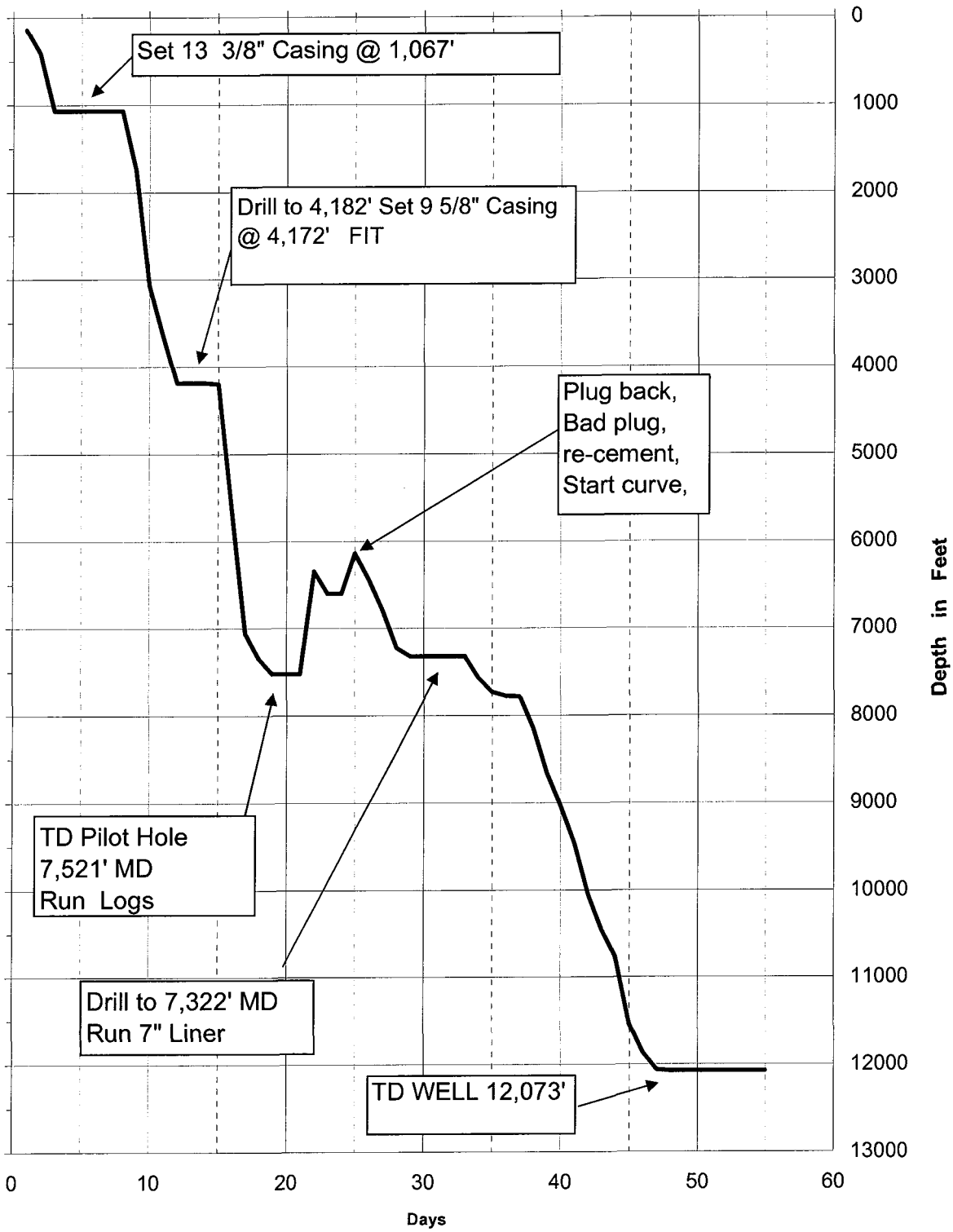
DAY	DATE 2013	DEPTH 06:00 HRS	24 HR FOOTAGE	BIT #	24 HR MUD LOSSES	24 HR ACTIVITY	FORMATION
50	31-Jul	12,073'	0'	9	459	Circulate holding 18.5 MWE Downhole. Build 18.2 Kill mud, Shut down trap pressure. Transfer 18.2 mud to active pits from pre-mix. Pump 40bbl 18.2 40 #/bbl LCM, Circulat over top of of hole, Monitor on trip tank. Well flowed 1.5 bbl in 1 hr 110 psi on casing. Pump 18.2 mud. Monitor well.	Cane Creek
51	1-Aug	12,073'	0'	9	749	Monitor well, C&C get 18 ppg all the way around, Pull 5 stands. Hole not taking mud. TIH to 7,333' spot LCM pill, squeeze w/ 300psi. Trip ou whlie pumping out of hole.	Cane Creek
52	2-Aug	12,073'	0'	9	189	TOOH strip and pump out, holding back pressure, Pull rotating head, install trip nipple, POOH, rack back directional tools, RU Lay Down truck, Make up shoe/ auto fill floats. Run 4 1/2" Liner	Cane Creek
53	3-Aug	12,073'	0'		10	Run 4 1/2" liner, Make up hanger. RD lay down truck/ casers. TIH w/ 4 1/2" liner on 4" Drill pipe to 7,297' Break circualtion TIH to 7,745' Circ BU	Cane Creek
54	4-Aug	12,073'	0'		103	to 10,607' Circ BU. TIH to 11,343' Circ BU. TIH w/ liner to 12,073' Circ BU	Cane Creek
55	5-Aug	12,073'	0'			Circ BU Pump balls, Set hanger, pump diesel spacer, super flush, pump cement, Geologists released.	Cane Creek

BIT RECORD
FIDELITY EXPLORATION AND PRODUCTION
CANE CREEK STATE 36-1

OPERATOR:	FIDELITY EXPLORATION & PRODUCTION CO.	CONTRACTOR:	Frontier Drilling Rig #10	SPUD DATE:	9 June, 2013
WELL NAME:	CANE CREEK UNIT STATE 36-1	RIG MAKE:	Full Circle 142' Bootstrap 1000 HP Diesel Electric		
LOCATION:	SEC. 36, T25S, R19E	PUMPS:	2 China 1600 12"	TD DEPTH/ DATE:	12,073' 28 July 2013
GROUND LEVEL:	5,793'				
KELLY BUSHING:	5,820'				

Bit #	Size	Make	Type	Jets	Serial #	Depth In	Depth Out	Ftg	Hours	Ft/Hr	Vert. Dev.
1	17 1/2"	NUMA	Hammer	Open	194688	142'	1,070'	928'	20	46.4	0.60
2	12 1/4"	NUMA	Hammer	Open	208361	1,070'	3,649'	2,579'	46.5	55.5	0.76
3	12 1/4"	REED	R40AP	3x20	D153698	3,649'	4,182'	533'	13	41.0	1
4	8 1/2"	RMB	RMB566X	6x16	121383	4,182'	7,521'	3,339'	44.5	75.0	3
5	8 1/2"	RMB	GX28DXO	3x20	518701	5,845'	6,600'	755'	5	151.0	Dress Cement
RR5	8 1/2"	RMB	GX28DXO	3x20	518701	6,140'	6,442'	302'	4.5	67.1	Dress Cement
6	8 1/2"	SEC	MMD64M	6x18	12138583	6,442'	7,322'	880'	35.5	24.8	Curve
7	6"	HTC	STX-1	3x16	5201876	7,322'	7,328'	6'	4.5	1.3	Cement Shoe
8	6"	PDC Logic	PTL-613-S6	6x18	S08315	7,328'	7,774'	446'	33	13.5	Curve
9	6"	PDC Logic	PTL-613	6X18	S08190	7,774'	12,073'	4,299'	220	19.5	Lateral

TIME VS DEPTH
FIDELITY EXPLORATION AND PRODUCTION
CANE CREEK UNIT STATE 36-1



FORMATION TOPS
FIDELITY EXPLORATION AND PRODUCTION
CANE CREEK UNIT STATE 36-1

Well Name:	Fidelity Cane Creek Unit # State 36-1				
Location:	Sec 36, T25S, R 19E				
Elevation:	KB:	5,820'			
FORMATION / ZONE	Prognosis	Prognosis Subsea	Sample top	Sample top Sub Sea	Thickness
Wingate	Surface		Surface		
Chinle	250'	5,570'	250'	5,570'	360'
Moenkopi	610'	5,210'	610'	5,210'	790'
Cutler	1,095'	4,725'	1,400'	4,420'	1,300'
Honaker Trail	2,289'	3,531'	2,700'	3,120'	968'
Paradox Formation	3,685'	2,135'	3,668'	2,152'	233'
Salt 1	3,921'	1,899'	3,901'	1,919'	167'
Clastic # 1	4,069'	1,751'	4,068'	1,752'	94'
Salt # 2	4,152'	1,668'	4,162'	1,658'	20'
Intermediate Casing Pt.	4,172'	1,648'	4,182'	1,638'	76'
Clastic 2	4,232'	1,588'	4,258'	1,562'	82'
Salt 3	4,312'	1,508'	4,340'	1,480'	143'
Clastic 3	4,414'	1,406'	4,483'	1,337'	44'
Salt 4	4,449'	1,371'	4,527'	1,293'	104'
Clastic 4	4,577'	1,243'	4,631'	1,189'	69'
Salt 5	4,640'	1,180'	4,700'	1,120'	240'
Clastic 5	4,882'	938'	4,940'	880'	38'
Salt 6	4,910'	910'	4,978'	842'	160'
Clastic 7	5,074'	746'	5,138'	682'	54'
Salt 8	5,120'	700'	5,192'	628'	128'
Clastic 8	5,232'	588'	5,320'	500'	40'
Salt 9	5,292'	528'	5,360'	460'	154'
Clastic 9	5,445'	375'	5,514'	306'	32'
Salt 10	5,492'	328'	5,546'	274'	60'
Clastic 10	5,552'	268'	5,606'	214'	128'
Salt 12	5,693'	127'	5,734'	86'	90'
Clastic 12	5,808'	12'	5,824'	-4'	17'
Salt 13	5,838'	-18'	5,841'	-21'	115'
Clastic 14	6,014'	-194'	5,956'	-136'	755'
Clastic 18/19	6,928'	-1,108'	6,711'	-891'	61'
Salt 20	6,981'	-1,161'	6,772'	-952'	263'
Clastic 20	7,111'	-1,291'	7,035'	-1,215'	27'
Salt 21	7,120'	-1,300'	7,062'	-1,242'	251'
Top Cane Creek	7,263'	-1,443'	7,313'	-1,493'	31'
Cane Creek Shale B	7,288'	-1,468'	7,344'	-1,524'	8'
Horizontal Tartget	7,298'	-1,478'	7,352'	-1,532'	47'
Base Cane Creek Sh.	7,361'	-1,541'	7,399'	-1,579'	
Salt 22	7,377'	-1,557'	7,399'	-1,579'	122'
TD	7,426'	-1,606'	7,521'	-1,701'	

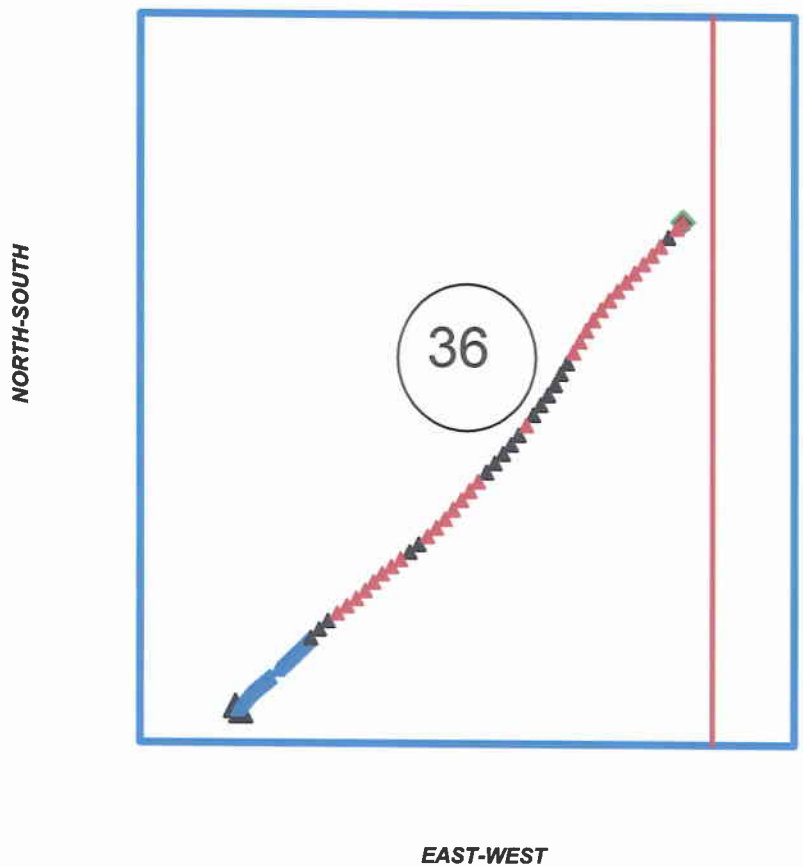
FIDELITY EXPLORATION AND PRODUCTION
INVERT MUD REPORTS
CANE CREEK UNIT STATE 36-1

DATE 2013	DEPTH	Flow Line Temp	WT	FV	PV	YP	GELS	API FILT	OIL/WATER	ELECTRIC STABILITY	CORRECTED SOLIDS	NaCl % wt	CaCl2 % wt	MgCl2 % wt	24 HOUR MUD LOSSES
23-Jun	4364	98	13.60	56	19	17	10/12	3	84.9/15.1	740	22.58	1.75	35.18	10.37	37
24-Jun	6508	116	13.50	48	23	19	11/13	3	80.8/19.2	770	22.45	3.97	29.21	9.09	69
25-Jun	7048	120	15.80	51	26	19	11/13	3	81.8/18.2	810	29.36	2.83	31.96	10.86	56
26-Jun	7521	120	15.80	58	27	27	12/14	3	82.8/17.2	1010	31.67	3.11	31.23	11.37	321
27-Jun	7521	120	16.20	58	30	22	12/14	3	82/18	809	30.62	1.24	37.08	20.29	450
28-Jun	7521	na	16.60	65	32	23	12/14	3	82.5/17.5	820	34.58	3.82	29.57	4.04	337
29-Jun	7521	na	16.70	69	33	26	12/14	3	82.3/17.7	702	34.10	2.83	31.96	9.60	0
30-Jun	6350	na	16.50	72	35	26	14/17	3	79.4/20.6	575	32.31	4.47	28.12	10.86	177
1-Jul	6600	100	16.00	60	22	17	10/12	3	81.5/18.5	526	29.00	0.47	28.99	6.72	30
2-Jul	5900	108	16.80	73	35	30	16/18	2	81.3/18.8	682	34.32	3.07	26.98	1.11	0
3-Jul	6174	99	16.80	72	37	32	18/20	2	79.7/20.3	579	34.55	2.42	24.77	0.53	3
4-Jul	6445	109	16.80	74	36	32	23/25	2	79.4/20.6	652	35.62	3.72	23.58	0.00	28
5-Jul	6846	115	16.80	62	34	28	20/22	2	81.3/18.8	850	33.99	6.97	23.44	2.21	26
6-Jul	7322	115	17.10	67	35	31	22/24	2	82/18	773	37.45	6.84	23.72	0.60	37
7-Jul	7322	99	17.20	79	37	29	22/24	2	81.7/18.3	898	38.24	5.68	24.91	1.80	332
8-Jul	7322	100	17.30	79	37	30	21/23	2	82.3/17.7	841	36.41	5.81	25.53	0.59	109
9-Jul	7322	98	17.50	85	40	30	21/23	2	80.6/19.4	847	36.18	1.60	26.2	2.86	219
10-Jul	7322	na	15.50	50	26	18	15/18	2	81.8/18.2	690	31.80	5.50	26.11	2.71	119
11-Jul	7322	na	15.00	51	24	18	14/17	2	82.4/17.6	621	29.92	5.43	26.2	2.17	18
12-Jul	7322	108	15.00	51	24	18	14/17	2	82.4/17.6	621	29.92	5.43	26.2	2.17	18
13-Jul	7,233	110	15.00	53	24	20	13/16	2	81.8/18.2	670	28.15	6.36	24.55	7.37	0
14-Jul	7362	100	15.10	52	24	20	13/16	2	82.6/17.4	730	28.98	4.62	27.84	1.61	10
15-Jul	7665	112	14.50	50	22	19	13/16	2	82.3/17.7	806	27.62	5.63	25.50	1.05	107
16-Jul	7774	108	17.20	53	30	17	11/14	2	82.3/17.7	717	36.30	5.83	25.45	1.19	168
17-Jul	7774	na	15.10	48	24	20	14/17	2	83.8/16.2	920	30.12	6.42	24.12	2.40	49
18-Jul	7974	110	15.10	49	23	19	14/17	2	83.7/16.3	1029	30.49	2.00	28.25	3.62	126
19-Jul	8453	114	15.10	48	23	18	14/17	2	85.1/14.9	1260	31.10	3.42	28.27	3.25	56
20-Jul	8838	114	15.10	48	22	20	15/18	2	85.2/14.8	1227	30.92	4.20	27.73	1.30	63
21-Jul	9178	114	15.10	49	24	20	15/18	2	84.4/15.6	1142	31.07	1.94	27.41	1.27	54

FIDELITY EXPLORATION AND PRODUCTION
INVERT MUD REPORTS
CANE CREEK UNIT STATE 36-1

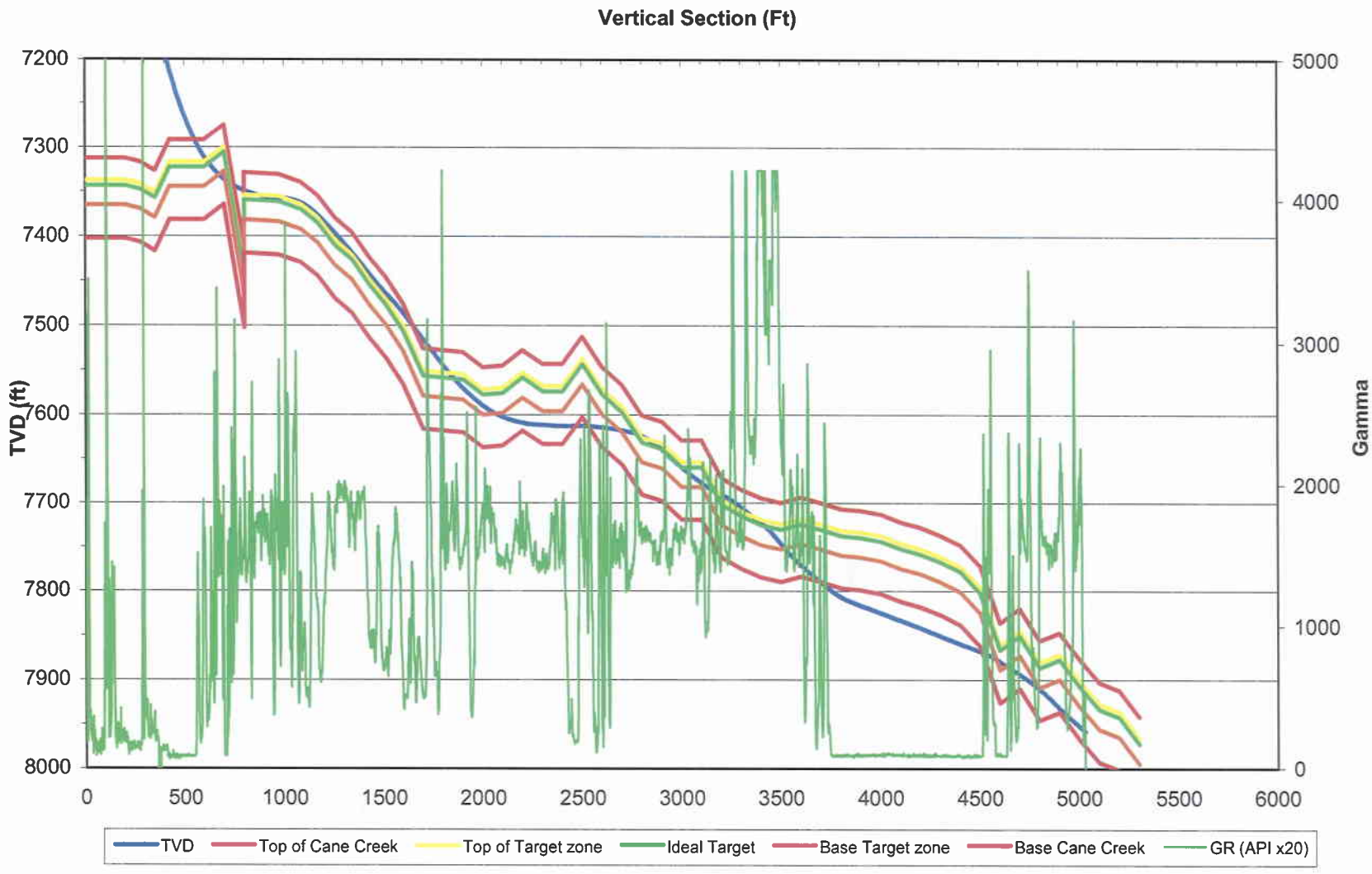
DATE 2013	DEPTH	Flow Line Temp	WT	FV	PV	YP	GELS	API FILT	OIL/WATER	ELECTRIC STABILITY	CORRECTED SOLIDS	NaCl % wt	CaCl2 % wt	MgCl2 % wt	24 HOUR MUD LOSSES
22-Jul	9758	114	15.30	51	24	19	15/18	2	84.4/15.2	1237	31.97	4.22	27.42	3.91	120
23-Jul	10174	110	15.10	49	22	18	13/17	2	86.5/13.5	1198	31.96	3.35	30.12	1.14	164
24-Jul	10601	117	15.10	50	21	19	13/15	2	85.1/14.9	1143	31.49	7.67	22.31	1.27	220
25-Jul	10900	119	15.10	50	23	21	16/18	2	86.6/13.4	1201	31.31	3.40	30.58	2.10	46
26-Jul	11593	112	15.10	54	22	22	16/19	2	86.6/13.4	1510	30.91	3.20	31.58	4.20	57
27-Jul	11966	116	15.10	56	23	23	17/20	2	86.6/13.4	1554	30.87	1.10	32.67	4.90	47
28-Jul	12073	114	15.10	58	23	24	19/24	2	86.6/13.4	1625	30.00	0.76	35.56	8.08	53
29-Jul	12073	109	17.00	61	30	17	11/15	2	85/15	745	38.17	3.15	31.14	2.78	257
30-Jul	12073	99	17.40	68	33	23	15/18	2	83.6/16.4	997	37.21	3.92	29.32	1.91	+72
31-Jul	12073	90	18.20	75	46	33	19/23	2	84.2/15.8	1098	40.34	1.67	35.45	5.99	459
1-Aug	12073	90	18.20	89	41	22	14/17	2	80.2/19.6	892	39.89	3.27	25.18	13.63	749
2-Aug	5759	na	18.10	76	42	12	7/10	2	80.7/19.3	644	38.96	7.10	23.29	12.05	189
3-Aug	12073	100	15.10	49	23	11	8/11	2	81.5/18.5	595	27.97	6.18	24.81	19.71	10
4-Aug	12073	99	15.20	50	21	13	9/12	2	83.1/16.9	655	27.50	3.98	28.93	21.49	103

FIDELITY E&P CO.
CANE CREEK UNIT State 36-1
SEC 36, T25S R19E
GRAND COUNTY,
UTAH

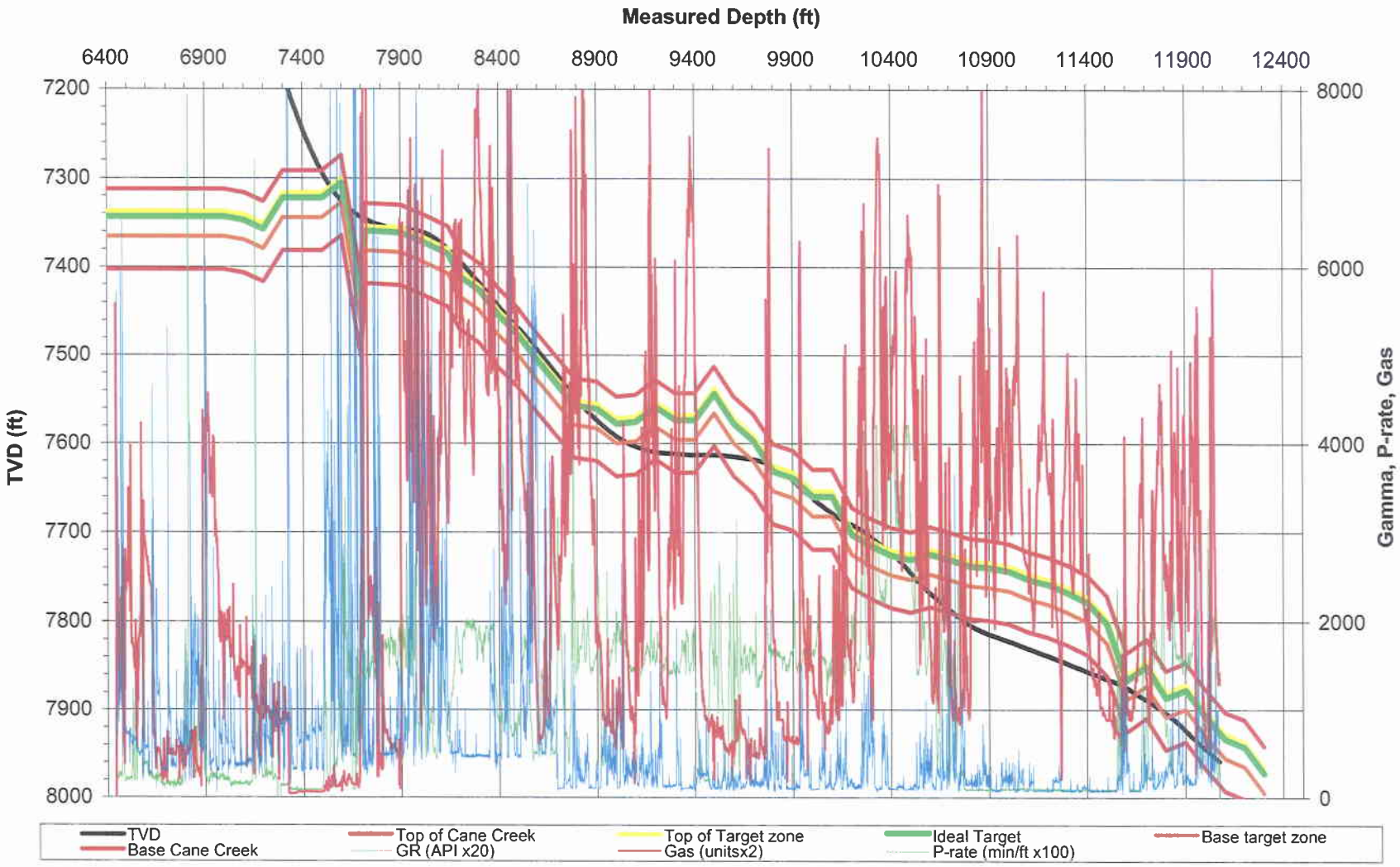


- SHL
- BHL
- Build
- Lateral In Zone
- Section Lines
- Out Of Zone
- Hard Line 660' Set back

Cane Creek Unit State 36-1 Gamma vs. Vertical Section



Fidelity Cane Creek Unit State 36-1 TVD vs. GR, ROP, Gas



FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

5.LEASE DESIGNATION AND SERIAL NUMBER: ML-40571

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: CANE CREEK

1. TYPE OF WELL Oil Well

8. WELL NAME and NUMBER: Cane Creek Unit 36-1

2. NAME OF OPERATOR: FIDELITY E&P COMPANY

9. API NUMBER: 43019500300000

3. ADDRESS OF OPERATOR: 1700 Lincoln Street Ste 2800 , Denver, CO, 80203

PHONE NUMBER: 720 931-6459 Ext

9. FIELD and POOL or WILDCAT: UNDESIGNATED

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0267 FSL 0774 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 36 Township: 25.0S Range: 19.0E Meridian: S

COUNTY: GRAND

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ SPUD REPORT Date of Spud:	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
✓ DRILLING REPORT Report Date: 9/17/2013	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
October 02, 2013

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Joy Gardner	720 956-5763	Sr. Engineering Tech

SIGNATURE	DATE
N/A	9/17/2013

RECEIVED: Sep. 17, 2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Completion - Paradox Executive Daily No Costs

Report for: 8/31/2013
Report #: 14

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	8/13/2013 21:00

Operator	Completions Start Date	Completions Finished Date	Well Status
Fidelity E&P			DRLG

Job Category	Job Typ	Job SubTyp	Planned Start Date	Start Date	End Date
Completion	Original	Completion	8/19/2013		

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date

Daily Operations

Report Start Date	Report End Date
8/31/2013 06:00	9/1/2013 06:00

Operations at Report Time
TOOH, TIH notched collar, SI, Flow & monitor, TIH, SI

Operations Summary
TOOH, TIH notched collar, SI, flow & monitor, TIH, SI.

Operations Next Report Period

Weather	Wellbore
Sunny and Clear	Original Hole

Daily Contacts

Job Contact	Position	Office
Paul Nicholas	Company Man / WSL	(307) 321-0544

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	1.00	1.00	GOP	Crew travel		
07:00	0.50	1.50	SMTG	Hold safety meeting and discuss job.		
07:30	1.50	3.00	TRIP	TOOH w/ RBP. LD the plug.		
09:00	1.00	4.00	TRIP	TIH w/ notched collar assembly as follows: 2 7/8" notched collar, 1 jnt of 2 7/8" 6.5# N-80 EUE 8rd tbg, X nipple (2.313" ID), 104 jnts of 2 7/8" tbg. Ld the tbg in the rig slips, EOT @ 3300'. Prep to circ hole.		
10:00	2.00	6.00	CTU	Circ out the 18.7 ppg invert in reverse as follows: 10 bbls of diesel, 115 bbls of 11.5 ppg CACL water. Circ into the rig tank. SI & monitor pressures.		
12:00	1.00	7.00	WTST	SI for 45 min. SITP- 260# SICP- 320# Open well to tank. The tbg and csg blew right down. The tbg is on a slight vac and the csg is on a 1/4" flow.		
13:00	2.00	9.00	WTST	Tbg- slight vac Csg- 1/4" flow watch flow on the well for a negative test. End of test shows: Tbg- slight vac & Csg- 1/4" flow.		
15:00	2.00	11.00	TRIP	Cont toTIH w/ notched collar. Total jnts in the hole is 227 jnts, EOT @ 7117'. LD the tbg in the rig slips. SI tbg, csg & BOPs. Secure system.		
17:00	1.00	12.00	SDFN	Secure Well / SDFN / Travel		
18:00	12.00	24.00	SDFN	SDFN		

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)	Prop Run?
										No
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615	No
6/20/2013	Intermediate	4,172.0	26.8	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681	No
7/10/2013	Production	7,322.0	25.2	7	6.184	29.00	P-110	7	6.094	No
8/6/2013	Production	12,063.0	7,144.8	4 1/2	3.920	13.50	P-110	4 1/2	3.826	No

Rods

Rod Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Rod Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Tubing

Tubing Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Tubing Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Stimulations & Treatments

Date	Type	String	Wellbore	Stim/Treat Company	StimTreat Supervisor

Report Printed: 9/17/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Completion - Paradox Executive Daily No Costs

Report for: 8/31/2013
Report #: 14

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	8/13/2013 21:00

Stim/Treat Fluids

Fluid Name	Fluid Type	Dens Fluid (°A...	pH	Filter Size (in)	Description

Fluid Additives

Additive	Amount	Units	Concentration (%)

Stim/Treat Stages

Stage Type	Stg #	Start Date	End Date	Top (ftKB)	Btm (ftKB)	Stim/Treat Fluid	Vol Clean Pu...	Vol Slurry (bbl)

Initial Fluid Rate (gpm)	Initial Rate Bottom Hole (gpm)	Tubing Pressure Start (psi)	Casing Pressure Start (psi)	Bottom Hole Pressure Start (psi)

Final Fluid Rate (gpm)	Final Rate Bottom Hole (gpm)	Pressure Tubing End (psi)	Casing Pressure End (psi)	Pressure BH End (psi)

Stim/Treat Additives

Additive	Type	Amount	Units	Sand Size	Conc (lb/gal)	Conc BH (lb/gal)

Perforations

Date	Type	Top (ftKB)	Btm (ftKB)	Wellbore	Zone	Shot...	Ente...	String Perforated

Perforation Statuses

Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Status

Report Printed: 9/17/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Completion - Paradox Executive Daily No Costs

Report for: 8/30/2013
Report #: 13

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	8/13/2013 21:00

Operator	Completions Start Date	Completions Finished Date	Well Status
Fidelity E&P			DRLG

Job Category	Job Typ	Job SubTyp	Planned Start Date	Start Date	End Date
Completion	Original	Completion	8/19/2013		

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date

Daily Operations

Report Start Date	Report End Date
8/30/2013 06:00	8/31/2013 06:00

Operations at Report Time
TOOH, TIH w/ retrieving tools, retieve plug, TOOH, leave kill string

Operations Summary
TOOH, TIH w/ retrieving tools, retrieve plug, TOOH, leave kill string.

Operations Next Report Period

Weather	Wellbore
Sunny and Clear	Original Hole

Daily Contacts

Job Contact	Position	Office
Paul Nicholas	Company Man / WSL	(307) 321-0544

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	1.00	1.00	GOP	Crew travel		
07:00	0.50	1.50	SMTG	Hold safety meeting and discuss job.		
07:30	1.50	3.00	CTU	Circ the hole in reverse. Role the hole 2 bottoms up. Heavy solids during the circ, run over the shaker.		
09:00	0.50	3.50	GOP	Prep to TOOH.		
09:30	3.00	6.50	TRIP	TOOH w/ 7" scraper assembly. LD scraper. Prep to TIH w/ retrieving tools.		
12:30	2.50	9.00	TRIP	TIH w/ Baker retrieving tools as follows: Baker retrieving tool, 4' X 2 7/8" perf pup, 1 jnt of 2 7/8" 6.5# N-80 EUE 8rd tbg, X nipple (2.313" ID), TIH on 2 7/8" 6.5# N-80 EUE 8rd tbg. Latch onto the RBP and release. NO response from the well. LD 3 jnts of tbg and pups. Prep to test under the plug.		
15:00	1.25	10.25	GOP	Press test the csg. Pump up to 1500# in 250# increments. Hold each increment for 10 min, hold the 1500# for 15 min. Good tests, no press loss. BD the csg.		
16:15	1.25	11.50	TRIP	TOOH w/ RBP. Std back 40 stds, leave a kill string in the hole. Fill the hole during the TOOH. SI tbg, csg and BOPs.		
17:30	1.00	12.50	SDFN	Secure Well / SDFN / Travel		
18:30	11.50	24.00	SDFN	SDFN		

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)	Prop Run?
										No
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615	No
6/20/2013	Intermediate	4,172.0	26.8	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681	No
7/10/2013	Production	7,322.0	25.2	7	6.184	29.00	P-110	7	6.094	No
8/6/2013	Production	12,063.0	7,144.8	4 1/2	3.920	13.50	P-110	4 1/2	3.826	No

Rods

Rod Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Rod Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Tubing

Tubing Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Tubing Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Stimulations & Treatments

Date	Type	String	Wellbore	Stim/Treat Company	StimTreat Supervisor

Report Printed: 9/17/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Completion - Paradox Executive Daily No Costs

Report for: 8/30/2013
Report #: 13

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	8/13/2013 21:00

Stim/Treat Fluids

Fluid Name	Fluid Type	Dens Fluid (°A...	pH	Filter Size (in)	Description

Fluid Additives

Additive	Amount	Units	Concentration (%)

Stim/Treat Stages

Stage Type	Stg #	Start Date	End Date	Top (ftKB)	Btm (ftKB)	Stim/Treat Fluid	Vol Clean Pu...	Vol Slurry (bbl)

Initial Fluid Rate (gpm)	Initial Rate Bottom Hole (gpm)	Tubing Pressure Start (psi)	Casing Pressure Start (psi)	Bottom Hole Pressure Start (psi)

Final Fluid Rate (gpm)	Final Rate Bottom Hole (gpm)	Pressure Tubing End (psi)	Casing Pressure End (psi)	Pressure BH End (psi)

Stim/Treat Additives

Additive	Type	Amount	Units	Sand Size	Conc (lb/gal)	Conc BH (lb/gal)

Perforations

Date	Type	Top (ftKB)	Btm (ftKB)	Wellbore	Zone	Shot...	Ente...	String Perforated

Perforation Statuses

Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Status

Report Printed: 9/17/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Completion - Paradox Executive Daily No Costs

Report for: 8/29/2013
Report #: 12

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	8/13/2013 21:00

Operator	Completions Start Date	Completions Finished Date	Well Status
Fidelity E&P			DRLG

Job Category	Job Typ	Job SubTyp	Planned Start Date	Start Date	End Date
Completion	Original	Completion	8/19/2013		

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date

Daily Operations

Report Start Date	Report End Date
8/29/2013 06:00	8/30/2013 06:00

Operations at Report Time
Circ the pre-mix tank, circ hole, TOOH, TIH 7" scraper, circ the hole, SD.

Operations Summary
Circ the pre-mix tank, circ hole, TOOH, TIH 7" scraper, circ hole, SD.

Operations Next Report Period

Weather	Wellbore
Sunny and Clear	Original Hole

Daily Contacts

Job Contact	Position	Office
Paul Nicholas	Company Man / WSL	(307) 321-0544

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	1.00	1.00	GOP	Crew travel		
07:00	0.50	1.50	SMTG	Hold safety meeting and discuss job.		
07:30	1.00	2.50	GOP	Circ the pre-mix tank. Check mud wt, wt @ 18.7 ppg.		
08:30	3.00	5.50	CTU	Reverse circ and role the hole w/ conditioned mud 18.7 ppg mud. Circ 3 bottoms up. The solids were still heavy on the 3rd BU. Prep to TOOH w/ notched collar.		
11:30	3.00	8.50	TRIP	TOOH w/ notched collar and 2 7/8" tbg. The tbg was draining slow during the trip.		
14:30	3.50	12.00	TRIP	TIH, TIH bit and 7" csg scraper as follows: 6" 3 bladed drag bit, Weatherford 7" csg scraper, BS, 1 jnt of 2 7/8" 6.5# N-80 EUE 8rd tbg, X nipple (2.313" ID), followed by 2 7/8" 6.5# N-80 EUE 8rd tbg, Stop half way during the TIH and circ 1 BU. Heavy solids in the returns. Cont TIH. Tag the plug and PU 1.5'. Prep to circ the hole.		
18:00	1.00	13.00	CTU	Reverse circ and role the hole with the conditioned 18.7 ppg mud. Circ 1 BU. Returning heavy solids.		
19:00	0.50	13.50	GOP	SD & secure the mud system. SI tbg, csg and BOPs.		
19:30	1.00	14.50	SDFN	Secure Well / SDFN / Travel		
20:30	9.50	24.00	SDFN	SDFN		

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)	Prop Run?
										No
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615	No
6/20/2013	Intermediate	4,172.0	26.8	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681	No
7/10/2013	Production	7,322.0	25.2	7	6.184	29.00	P-110	7	6.094	No
8/6/2013	Production	12,063.0	7,144.8	4 1/2	3.920	13.50	P-110	4 1/2	3.826	No

Rods

Rod Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Rod Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Tubing

Tubing Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Tubing Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Stimulations & Treatments

Date	Type	String	Wellbore	Stim/Treat Company	StimTreat Supervisor

Report Printed: 9/17/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Completion - Paradox Executive Daily No Costs

Report for: 8/29/2013
Report #: 12

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	8/13/2013 21:00

Stim/Treat Fluids

Fluid Name	Fluid Type	Dens Fluid (°A...	pH	Filter Size (in)	Description

Fluid Additives

Additive	Amount	Units	Concentration (%)

Stim/Treat Stages

Stage Type	Stg #	Start Date	End Date	Top (ftKB)	Btm (ftKB)	Stim/Treat Fluid	Vol Clean Pu...	Vol Slurry (bbl)

Initial Fluid Rate (gpm)	Initial Rate Bottom Hole (gpm)	Tubing Pressure Start (psi)	Casing Pressure Start (psi)	Bottom Hole Pressure Start (psi)

Final Fluid Rate (gpm)	Final Rate Bottom Hole (gpm)	Pressure Tubing End (psi)	Casing Pressure End (psi)	Pressure BH End (psi)

Stim/Treat Additives

Additive	Type	Amount	Units	Sand Size	Conc (lb/gal)	Conc BH (lb/gal)

Perforations

Date	Type	Top (ftKB)	Btm (ftKB)	Wellbore	Zone	Shot...	Ente...	String Perforated

Perforation Statuses

Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Status

Report Printed: 9/17/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Completion - Paradox Executive Daily No Costs

Report for: 8/28/2013
Report #: 11

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	8/13/2013 21:00

Operator	Completions Start Date	Completions Finished Date	Well Status
Fidelity E&P			DRLG

Job Category	Job Typ	Job SubTyp	Planned Start Date	Start Date	End Date
Completion	Original	Completion	8/19/2013		

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date

Daily Operations

Report Start Date	Report End Date
8/28/2013 06:00	8/29/2013 06:00

Operations at Report Time
Condition 18.4 ppg mud, build 18.7 ppg mud, circ hole, condition mud.

Operations Summary
Condition the 18.4 ppg mud, build 18.7 ppg mud, circ hole, condtion mud.

Operations Next Report Period

Weather	Wellbore
Sunny and Clear	

Daily Contacts

Job Contact	Position	Office
Paul Nicholas	Company Man / WSL	(307) 321-0544

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	1.00	1.00	GOP	Crew travel		
07:00	0.50	1.50	SMTG	Hold safety meeting and discuss job.		
07:30	1.25	2.75	GOP	MI Zeco mechanic and change out the 13" pump with a 12" pump on the pre-mix tank.		
08:45	4.50	7.25	GOP	Circ and cond the mud with the pre-mix pump. Role the tank over the shaker with the rig pump. Dropping out a good amount of solids. Ended up getting a large amount of solids from the mud in the well. Solids (Vanguard) & LCM. MW @ 18.4 ppg. Mixed 32 sxs of Hematite. Ending MW @ 18.7 ppg.		
13:15	2.00	9.25	CTU	begin to circ the hole in reverse. Pump 1.0 bpm @ 900#. Pumping 18.7 ppg mud in and 18.7 ppg out. Pump 120 bbls, pump a total of 245 bbls (hole volume). Prep to cond more mud.		
15:15	2.75	12.00	GOP	Begin to condition more mud for circulating the hole. Dealing with the mud from the hole. the mud is full of solids, Vanguard & LCM. Pumping the mud over the shaker to clear it of the solids. Condition the mud, bottom gauge @ 14.5" top gauge @ 30". Gained 15.5", conditioned 77.5 bbls of mud from the well. Total bbls in the pre-mix tank is 150 bbls. Checked mud wt, MW @ 18.4 ppg.		
18:00	0.50	12.50	GOP	SD and secure mud system. SI tbg, csg and BOPs.		
18:30	1.00	13.50	SDFN	Secure Well / SDFN / Travel		
19:30	10.50	24.00	SDFN	SDFN		

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)	Prop Run?
										No
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615	No
6/20/2013	Intermediate	4,172.0	26.8	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681	No
7/10/2013	Production	7,322.0	25.2	7	6.184	29.00	P-110	7	6.094	No
8/6/2013	Production	12,063.0	7,144.8	4 1/2	3.920	13.50	P-110	4 1/2	3.826	No

Rods

Rod Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Rod Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Tubing

Tubing Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Tubing Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Stimulations & Treatments

Date	Type	String	Wellbore	Stim/Treat Company	StimTreat Supervisor

Report Printed: 9/17/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Completion - Paradox Executive Daily No Costs

Report for: 8/28/2013
Report #: 11

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	8/13/2013 21:00

Stim/Treat Fluids

Fluid Name	Fluid Type	Dens Fluid (°A...	pH	Filter Size (in)	Description

Fluid Additives

Additive	Amount	Units	Concentration (%)

Stim/Treat Stages

Stage Type	Stg #	Start Date	End Date	Top (ftKB)	Btm (ftKB)	Stim/Treat Fluid	Vol Clean Pu...	Vol Slurry (bbl)

Initial Fluid Rate (gpm)	Initial Rate Bottom Hole (gpm)	Tubing Pressure Start (psi)	Casing Pressure Start (psi)	Bottom Hole Pressure Start (psi)

Final Fluid Rate (gpm)	Final Rate Bottom Hole (gpm)	Pressure Tubing End (psi)	Casing Pressure End (psi)	Pressure BH End (psi)

Stim/Treat Additives

Additive	Type	Amount	Units	Sand Size	Conc (lb/gal)	Conc BH (lb/gal)

Perforations

Date	Type	Top (ftKB)	Btm (ftKB)	Wellbore	Zone	Shot...	Ente...	String Perforated

Perforation Statuses

Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Status

Report Printed: 9/17/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Completion - Paradox Executive Daily No Costs

Report for: 8/27/2013
Report #: 10

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	8/13/2013 21:00

Operator	Completions Start Date	Completions Finished Date	Well Status
Fidelity E&P			DRLG

Job Category	Job Typ	Job SubTyp	Planned Start Date	Start Date	End Date
Completion	Original	Completion	8/19/2013		

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date

Daily Operations

Report Start Date	Report End Date
8/27/2013 06:00	8/28/2013 06:00

Operations at Report Time
Condition the 18.6 ppg mud, 190 bbls, build 18.7 ppg mud, circ hole, condition mud.

Operations Summary
Condition the 18.6 ppg mud, 190 bbls, build 18.7 ppg mud, circ hole, conditon mud.

Operations Next Report Period

Weather	Wellbore
Sunny and Clear	

Daily Contacts

Job Contact	Position	Office

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	1.00	1.00	GOP	Crew travel		
07:00	0.50	1.50	SMTG	Hold safety meeting and discuss job.		
07:30	1.50	3.00	GOP	MI Zeco mechanics and electrician. Repair the pre-mix pump, bad fuse and connections.		
09:00	3.50	6.50	GOP	Circ and condition the mud with the pre-mix pump. Role the tank over the shaker with the rig pump. Dropping out a good amount of solids. This is the second time over the shaker. pumping over the shaker @ 1.4 bpm. MW @ 18.6 ppg+. Mix mud w/ hematite and raise mud wt to 18.7 ppg. Add another 4 sxs, total sxs @ 160 sxs. Mud is at a consistent 18.7 ppg. Run 90 bbls over the shaker a total of 2 times. Drop out the solids. Gained another 3rd in the solids tank.		
12:30	0.75	7.25	TRIP	TIH and tag up. PU 2' and Ld the tbg in the rig slips. Prep to reverse circ the hole.		
13:15	3.25	10.50	CTU	Begin the circ the hole in reverse. Pump @ 1.0 bpm @ 900#. 15 min into the job, pumping 18.7 ppg mud in and 18.7 ppg mud out. With 45 bbls away the return mud started to get thicker. The return mud is being returned into the rig tank to keep it separated from the conditioned mud. The rig pump was able to pump 125 bbls from the pre-mix tank before the suction sucked air. SD circulating the well. Switch the lines to suck out of the mud storage tank. Prep to clean more mud.		
16:30	1.50	12.00	GOP	Pump and clean the mud from the mud storage tank. Pump the mud over the shaker @ 3/4 bpm, Wt @ 18.4 ppg.		
18:00	0.50	12.50	GOP	Secure mud system. SI tbg, csg and BOPs.		
18:30	1.00	13.50	SDFN	Secure Well / SDFN / Travel		
19:30	10.50	24.00	SDFN	SDFN		

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)	Prop Run?
										No
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615	No
6/20/2013	Intermediate	4,172.0	26.8	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681	No
7/10/2013	Production	7,322.0	25.2	7	6.184	29.00	P-110	7	6.094	No
8/6/2013	Production	12,063.0	7,144.8	4 1/2	3.920	13.50	P-110	4 1/2	3.826	No

Rods

Rod Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Rod Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Tubing

Tubing Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Report Printed: 9/17/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Completion - Paradox Executive Daily No Costs

Report for: 8/27/2013
Report #: 10

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	8/13/2013 21:00

Tubing Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Stimulations & Treatments

Date	Type	String	Wellbore	Stim/Treat Company	StimTreat Supervisor

Stim/Treat Fluids

Fluid Name	Fluid Type	Dens Fluid (°A...	pH	Filter Size (in)	Description

Fluid Additives

Additive	Amount	Units	Concentration (%)

Stim/Treat Stages

Stage Type	Stg #	Start Date	End Date	Top (ftKB)	Btm (ftKB)	Stim/Treat Fluid	Vol Clean Pu...	Vol Slurry (bbl)

Initial Fluid Rate (gpm)	Initial Rate Bottom Hole (gpm)	Tubing Pressure Start (psi)	Casing Pressure Start (psi)	Bottom Hole Pressure Start (psi)

Final Fluid Rate (gpm)	Final Rate Bottom Hole (gpm)	Pressure Tubing End (psi)	Casing Pressure End (psi)	Pressure BH End (psi)

Stim/Treat Additives

Additive	Type	Amount	Units	Sand Size	Conc (lb/gal)	Conc BH (lb/gal)

Perforations

Date	Type	Top (ftKB)	Btm (ftKB)	Wellbore	Zone	Shot...	Ente...	String Perforated

Perforation Statuses

Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Status

Report Printed: 9/17/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Completion - Paradox Executive Daily No Costs

Report for: 8/26/2103
Report #: 9

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	8/13/2013 21:00

Operator	Completions Start Date	Completions Finished Date	Well Status
Fidelity E&P			DRLG

Job Category	Job Typ	Job SubTyp	Planned Start Date	Start Date	End Date
Completion	Original	Completion	8/19/2013		

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date

Daily Operations

Report Start Date	Report End Date
8/26/2103 06:00	8/27/2103 06:00

Operations at Report Time
Condition the 178.8 ppg mud, 180 bbls, built 18.8 ppg mud, SDFN.

Operations Summary
Condition the 17.8 ppg mud, 180 bbls, built 18.6 ppg mud, SDFN.

Operations Next Report Period

Weather	Wellbore
Rain	Original Hole

Daily Contacts

Job Contact	Position	Office

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	1.00	1.00	GOP	Crew travel		
07:00	0.50	1.50	SMTG	Hold safety meeting and discuss job.		
07:30	3.50	5.00	GOP	Continue to condition and clean the 17.8 ppg invert mud. unable to pump the mud more than 1/3 bpm do to heavy solids in the mud. (Vanguard and LCM). Clean up the mud, pump over the pre-mix shaker. Pump the mud from the holding tank to the pre-mix tank. Breaking out large amounts of solids (Vanguard and LCM). Ran 35 bbls of 17.8 ppg mud over the shaker one time. A total of 180 bbls. Run the circ pump on the pre-mix tank to keep the mud circulated.		
11:00	6.00	11.00	GOP	Build and mix 18.6 ppg invert mud. Add 156 sxs of Hematite and 1 drum of wetting agent to the mud for wt. Condition and circulate the mud well.		
17:00	0.50	11.50	GOP	Circ pump on the pre-mix tank went down. Called out a mechanic for in the morning to repair the pump. SD system and secure.		
17:30	1.00	12.50	SDFN	SDFN		
18:30	11.50	24.00	SDFN	SDFN		

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)	Prop Run?
										No
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615	No
6/20/2013	Intermediate	4,172.0	26.9	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681	No
7/10/2013	Production	7,322.0	25.1	7	6.184	29.00	P-110	7	6.094	No
8/6/2013	Production	12,063.0	7,144.8	4 1/2	3.920	13.50	P-110	4 1/2	3.826	No

Rods

Rod Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Rod Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Tubing

Tubing Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Tubing Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Stimulations & Treatments

Date	Type	String	Wellbore	Stim/Treat Company	StimTreat Supervisor

Stim/Treat Fluids

Fluid Name	Fluid Type	Dens Fluid (°A...	pH	Filter Size (in)	Description

Fluid Additives

Additive	Amount	Units	Concentration (%)

Report Printed: 8/27/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Completion - Paradox Executive Daily No Costs

Report for: 8/26/2103
Report #: 9

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	8/13/2013 21:00

Stim/Treat Stages

Stage Type	Stg #	Start Date	End Date	Top (ftKB)	Btm (ftKB)	Stim/Treat Fluid	Vol Clean Pu...	Vol Slurry (bbl)

Initial Fluid Rate (gpm)	Initial Rate Bottom Hole (gpm)	Tubing Pressure Start (psi)	Casing Pressure Start (psi)	Bottom Hole Pressure Start (psi)

Final Fluid Rate (gpm)	Final Rate Bottom Hole (gpm)	Pressure Tubing End (psi)	Casing Pressure End (psi)	Pressure BH End (psi)

Stim/Treat Additives

Additive	Type	Amount	Units	Sand Size	Conc (lb/gal)	Conc BH (lb/gal)

Perforations

Date	Type	Top (ftKB)	Btm (ftKB)	Wellbore	Zone	Shot...	Ente...	String Perforated

Perforation Statuses

Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Status

Report Printed: 8/27/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Completion - Paradox Executive Daily No Costs

Report for: 8/25/2103
Report #: 8

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	8/13/2013 21:00

Operator	Completions Start Date	Completions Finished Date	Well Status
Fidelity E&P			DRLG

Job Category	Job Typ	Job SubTyp	Planned Start Date	Start Date	End Date
Completion	Original	Completion	8/19/2013		

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date

Daily Operations

Report Start Date	Report End Date
8/25/2103 06:00	8/26/2103 06:00

Operations at Report Time
Condition the 17.8 ppg mud, 145 bbls, SDFN

Operations Summary
Condition the 17.8 ppg mud, 145 bbls, SDFN

Operations Next Report Period

Weather	Wellbore
Sunny and Clear	

Daily Contacts

Job Contact	Position	Office

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	1.00	1.00	SDFN	SDFN		
07:00	1.00	2.00	GOP	Crew travel		
08:00	0.50	2.50	SMTG	Hold safety meeting and discuss job.		
08:30	8.50	11.00	GOP	Begin to condition and clean up the 17.8 ppg mud. Unable to pump the mud more than 1/3 bpm do to the large amounts of solids and LCM in the mud. Clean up the mud, pump over the pre-mix shaker. Pump the mud from the holding tank to the pre-mix tank. Breaking out large amounts of solids and LCM. Ran a total of 145 bbls over the shaker, one time. Run the circulating pump on the pre-mix tank to keep the mud circulated.		
17:00	0.50	11.50	GOP	SD pumps and shaker. Secure tanks and well.		
17:30	1.00	12.50	SDFN	Secure Well / SDFN / Travel		
18:30	11.50	24.00	SDFN	SDFN		

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)	Prop Run?
										No
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615	No
6/20/2013	Intermediate	4,172.0	26.9	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681	No
7/10/2013	Production	7,322.0	25.1	7	6.184	29.00	P-110	7	6.094	No
8/6/2013	Production	12,063.0	7,144.8	4 1/2	3.920	13.50	P-110	4 1/2	3.826	No

Rods

Rod Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Rod Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Tubing

Tubing Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Tubing Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Stimulations & Treatments

Date	Type	String	Wellbore	Stim/Treat Company	StimTreat Supervisor

Stim/Treat Fluids

Fluid Name	Fluid Type	Dens Fluid (°A...	pH	Filter Size (in)	Description

Fluid Additives

Additive	Amount	Units	Concentration (%)

Report Printed: 8/27/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Completion - Paradox Executive Daily No Costs

Report for: 8/25/2103
Report #: 8

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	8/13/2013 21:00

Stim/Treat Stages

Stage Type	Stg #	Start Date	End Date	Top (ftKB)	Btm (ftKB)	Stim/Treat Fluid	Vol Clean Pu...	Vol Slurry (bbl)

Initial Fluid Rate (gpm)	Initial Rate Bottom Hole (gpm)	Tubing Pressure Start (psi)	Casing Pressure Start (psi)	Bottom Hole Pressure Start (psi)

Final Fluid Rate (gpm)	Final Rate Bottom Hole (gpm)	Pressure Tubing End (psi)	Casing Pressure End (psi)	Pressure BH End (psi)

Stim/Treat Additives

Additive	Type	Amount	Units	Sand Size	Conc (lb/gal)	Conc BH (lb/gal)

Perforations

Date	Type	Top (ftKB)	Btm (ftKB)	Wellbore	Zone	Shot...	Ente...	String Perforated

Perforation Statuses

Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Status

Report Printed: 8/27/2013

FIDELITY Exploration & Production Company
An MDU Resources Group company

Daily Completion - Paradox Executive Daily No Costs

Report for: 8/24/2103
Report #: 7

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	8/13/2013 21:00

Operator	Completions Start Date	Completions Finished Date	Well Status
Fidelity E&P			DRLG

Job Category	Job Typ	Job SubTyp	Planned Start Date	Start Date	End Date
Completion	Original	Completion	8/19/2013		

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date

Daily Operations

Report Start Date	Report End Date
8/24/2103 06:00	8/25/2103 06:00

Operations at Report Time
Fabricate and build the mud system, clean out the pre-mix tank, test mud system.

Operations Summary
Fabricate and build the mud system, clean out the pre-mix tank, test the mud system.

Operations Next Report Period

Weather	Wellbore
Sunny and Clear	

Daily Contacts

Job Contact	Position	Office

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	1.00	1.00	SDFN	SDFN		
07:00	1.00	2.00	GOP	Crew travel		
08:00	0.25	2.25	SMTG	Hold safety meeting and discuss job.		
08:15	6.25	8.50	GOP	Fabricate and build on the pre-mix tank. Fabricate and build the circulating line to the possum belly (return line). Fabricate and build the trough from the shaker to the solids tank. NU the suction lines from the pre-mix tank to the rig pump. RU the return line from the manifold to the possum belly on the shaker.		
14:30	1.50	10.00	CTU	MI Badger to clean out the pre-mix tank. The tank has debris and large rocks in it. Cleaned out the tank with Badger super sucker.		
16:00	1.00	11.00	GOP	Test the rig pump, return system and the shaker. Move 20 bbls of 17.8 ppg mud to the pre-mix tank.		
17:00	1.00	12.00	SDFN	Secure Well / SDFN / Travel		
18:00	12.00	24.00	SDFN	SDFN		

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)	Prop Run?
										No
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615	No
6/20/2013	Intermediate	4,172.0	26.9	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681	No
7/10/2013	Production	7,322.0	25.1	7	6.184	29.00	P-110	7	6.094	No
8/6/2013	Production	12,063.0	7,144.8	4 1/2	3.920	13.50	P-110	4 1/2	3.826	No

Rods

Rod Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Rod Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Tubing

Tubing Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Tubing Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Stimulations & Treatments

Date	Type	String	Wellbore	Stim/Treat Company	StimTreat Supervisor

Stim/Treat Fluids

Fluid Name	Fluid Type	Dens Fluid (°A...	pH	Filter Size (in)	Description

Fluid Additives

Additive	Amount	Units	Concentration (%)

Report Printed: 8/27/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Completion - Paradox Executive Daily No Costs

Report for: 8/24/2103
Report #: 7

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	8/13/2013 21:00

Stim/Treat Stages

Stage Type	Stg #	Start Date	End Date	Top (ftKB)	Btm (ftKB)	Stim/Treat Fluid	Vol Clean Pu...	Vol Slurry (bbl)

Initial Fluid Rate (gpm)	Initial Rate Bottom Hole (gpm)	Tubing Pressure Start (psi)	Casing Pressure Start (psi)	Bottom Hole Pressure Start (psi)

Final Fluid Rate (gpm)	Final Rate Bottom Hole (gpm)	Pressure Tubing End (psi)	Casing Pressure End (psi)	Pressure BH End (psi)

Stim/Treat Additives

Additive	Type	Amount	Units	Sand Size	Conc (lb/gal)	Conc BH (lb/gal)

Perforations

Date	Type	Top (ftKB)	Btm (ftKB)	Wellbore	Zone	Shot...	Ente...	String Perforated

Perforation Statuses

Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Status

Report Printed: 8/27/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Completion - Paradox Executive Daily No Costs

Report for: 8/23/2103
Report #: 6

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	8/13/2013 21:00

Operator	Completions Start Date	Completions Finished Date	Well Status
Fidelity E&P			DRLG

Job Category	Job Typ	Job SubTyp	Planned Start Date	Start Date	End Date
Completion	Original	Completion	8/19/2013		

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date

Daily Operations

Report Start Date	Report End Date
8/23/2103 06:00	8/24/2103 06:00

Operations at Report Time
Unload mud from NOV, WO tanks, spot pre-mix tank and solids tank, check for leaks, drain tank.

Operations Summary
Unload mud from NOV, WO tanks, spot re-mix tank and solids tank, check for leaks, clean rank.

Operations Next Report Period

Weather	Wellbore
Rain	

Daily Contacts

Job Contact	Position	Office

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	1.00	1.00	SDFN	SDFN		
07:00	1.00	2.00	GOP	Crew travel		
08:00	0.50	2.50	SMTG	Hold safety meeting and discuss job.		
08:30	1.50	4.00	GOP	Unload the mud needed to raise the mud wt. The mud is from NOV. Store on location for future use.		
10:00	5.50	9.50	WOV	WO Zeco tanks.		
15:30	2.50	12.00	GOP	Tanks are on location. Spot the pre-mix tank and the solids tank.Hook up the pre-mix pump motor and the shaker to the 125 amp generator. Fill the pre-mix tank half full to check for leaks. Use the CACL water that is on location. There were no leaks that could not be repaired. All leaks have been repaired. Start the pump on the pre-mix tank. The pump has a knock in it, SD the pump. Drain the tank and store the water in the CACL water tank. The Zeco hand will tear into the pump in the morning to determine the problem.		
18:00	1.00	13.00	SDFN	Secure Well / SDFN / Travel		
19:00	11.00	24.00	SDFN	SDFN		

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)	Prop Run?
										No
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615	No
6/20/2013	Intermediate	4,172.0	26.9	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681	No
7/10/2013	Production	7,322.0	25.1	7	6.184	29.00	P-110	7	6.094	No
8/6/2013	Production	12,063.0	7,144.8	4 1/2	3.920	13.50	P-110	4 1/2	3.826	No

Rods

Rod Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Rod Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Tubing

Tubing Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Tubing Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Stimulations & Treatments

Date	Type	String	Wellbore	Stim/Treat Company	StimTreat Supervisor

Stim/Treat Fluids

Fluid Name	Fluid Type	Dens Fluid (°A...	pH	Filter Size (in)	Description

Report Printed: 8/27/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Completion - Paradox Executive Daily No Costs

Report for: 8/23/2103
Report #: 6

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	8/13/2013 21:00

Fluid Additives

Additive	Amount	Units	Concentration (%)

Stim/Treat Stages

Stage Type	Stg #	Start Date	End Date	Top (ftKB)	Btm (ftKB)	Stim/Treat Fluid	Vol Clean Pu...	Vol Slurry (bbl)

Initial Fluid Rate (gpm)	Initial Rate Bottom Hole (gpm)	Tubing Pressure Start (psi)	Casing Pressure Start (psi)	Bottom Hole Pressure Start (psi)
Final Fluid Rate (gpm)	Final Rate Bottom Hole (gpm)	Pressure Tubing End (psi)	Casing Pressure End (psi)	Pressure BH End (psi)

Stim/Treat Additives

Additive	Type	Amount	Units	Sand Size	Conc (lb/gal)	Conc BH (lb/gal)

Perforations

Date	Type	Top (ftKB)	Btm (ftKB)	Wellbore	Zone	Shot...	Ente...	String Perforated

Perforation Statuses

Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Status

Report Printed: 8/27/2013

FIDELITY Exploration & Production Company
An MDU Resources Group company

Daily Completion - Paradox Executive Daily No Costs

Report for: 8/22/2103
Report #: 5

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	8/13/2013 21:00

Operator	Completions Start Date	Completions Finished Date	Well Status
Fidelity E&P			DRLG

Job Category	Job Typ	Job SubTyp	Planned Start Date	Start Date	End Date
Completion	Original	Completion	8/19/2013		

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date

Daily Operations

Report Start Date	Report End Date
8/22/2103 06:00	8/23/2103 06:00

Operations at Report Time
Move mud, lay lines, WO pre-mix tank from Zeco.

Operations Summary
Move mud, lay lines, WO pre-mix tank from Zeco.

Operations Next Report Period

Weather	Wellbore
Sunny and Clear	

Daily Contacts

Job Contact	Position	Office

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	1.00	1.00	SDFN	SDFN		
07:00	1.00	2.00	GOP	Crew travel		
08:00	0.50	2.50	SMTG	Hold safety meeting and discuss job.		
08:30	8.50	11.00	GOP	WO pre-mix tank from Zeco. Move over 282 bbls of 17.8 ppg inverted mud to the 400 bbls mud tank. Set up lines for the pre-mix tank. Send the rig crew home.		
17:00	3.00	14.00	GOP	The pre-mix did not show up. Zeco said that when the tank was being cleaned in their yard that it was leaking. It was leaking around a door on the tank. The welder was repairing the leaking area. The tank will leave the yard in the morning.		
20:00	1.00	15.00	SDFN	Secure Well / SDFN / Travel		
21:00	9.00	24.00	SDFN	SDFN		

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)	Prop Run?
										No
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615	No
6/20/2013	Intermediate	4,172.0	26.9	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681	No
7/10/2013	Production	7,322.0	25.1	7	6.184	29.00	P-110	7	6.094	No
8/6/2013	Production	12,063.0	7,144.8	4 1/2	3.920	13.50	P-110	4 1/2	3.826	No

Rods

Rod Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Rod Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Tubing

Tubing Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Tubing Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Stimulations & Treatments

Date	Type	String	Wellbore	Stim/Treat Company	StimTreat Supervisor

Stim/Treat Fluids

Fluid Name	Fluid Type	Dens Fluid (°A...	pH	Filter Size (in)	Description

Fluid Additives

Additive	Amount	Units	Concentration (%)

Report Printed: 8/27/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Completion - Paradox Executive Daily No Costs

Report for: 8/22/2103
Report #: 5

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	8/13/2013 21:00

Stim/Treat Stages

Stage Type	Stg #	Start Date	End Date	Top (ftKB)	Btm (ftKB)	Stim/Treat Fluid	Vol Clean Pu...	Vol Slurry (bbl)

Initial Fluid Rate (gpm)	Initial Rate Bottom Hole (gpm)	Tubing Pressure Start (psi)	Casing Pressure Start (psi)	Bottom Hole Pressure Start (psi)

Final Fluid Rate (gpm)	Final Rate Bottom Hole (gpm)	Pressure Tubing End (psi)	Casing Pressure End (psi)	Pressure BH End (psi)

Stim/Treat Additives

Additive	Type	Amount	Units	Sand Size	Conc (lb/gal)	Conc BH (lb/gal)

Perforations

Date	Type	Top (ftKB)	Btm (ftKB)	Wellbore	Zone	Shot...	Ente...	String Perforated

Perforation Statuses

Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Status

Report Printed: 8/27/2013

FIDELITY Exploration & Production Company
An MDU Resources Group company

Daily Completion - Paradox Executive Daily No Costs

Report for: 8/21/2103
Report #: 4

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	8/13/2013 21:00

Operator	Completions Start Date	Completions Finished Date	Well Status
Fidelity E&P			DRLG

Job Category	Job Typ	Job SubTyp	Planned Start Date	Start Date	End Date
Completion	Original	Completion	8/19/2013		

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date

Daily Operations

Report Start Date	Report End Date
8/21/2103 06:00	8/22/2103 06:00

Operations at Report Time
TIH, tag @ 7086', tirp, SI.

Operations Summary
TIH, tag @ 7086', trip, SI

Operations Next Report Period

Weather	Wellbore
Sunny and Clear	

Daily Contacts

Job Contact	Position	Office

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	1.00	1.00	SDFN	SDFN		
07:00	1.00	2.00	GOP	Crew travel		
08:00	0.50	2.50	SMTG	Hold safety meeting and discuss job.		
08:30	2.00	4.50	TRIP	Cont to TIH w/ notched collar assembly. Tag w/ 226 jnts of 2 7/8" tbg @ 7086'. TOOH 10 stds, hang off the tbg in the rig slips. SI tbg, csg and BOPs. The pe-mix tank is hung up in Vernal and will be on location tomorrow.		
10:30	1.00	5.50	SDFN	Secure Well / SDFN / Travel		
11:30	18.50	24.00	SDFN	SDFN		

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)	Prop Run?
										No
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615	No
6/20/2013	Intermediate	4,172.0	26.9	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681	No
7/10/2013	Production	7,322.0	25.1	7	6.184	29.00	P-110	7	6.094	No
8/6/2013	Production	12,063.0	7,144.8	4 1/2	3.920	13.50	P-110	4 1/2	3.826	No

Rods

Rod Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Rod Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Tubing

Tubing Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Tubing Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Stimulations & Treatments

Date	Type	String	Wellbore	Stim/Treat Company	StimTreat Supervisor

Stim/Treat Fluids

Fluid Name	Fluid Type	Dens Fluid (°A...	pH	Filter Size (in)	Description

Fluid Additives

Additive	Amount	Units	Concentration (%)

Stim/Treat Stages

Stage Type	Stg #	Start Date	End Date	Top (ftKB)	Btm (ftKB)	Stim/Treat Fluid	Vol Clean Pu...	Vol Slurry (bbl)

Initial Fluid Rate (gpm)	Initial Rate Bottom Hole (gpm)	Tubing Pressure Start (psi)	Casing Pressure Start (psi)	Bottom Hole Pressure Start (psi)

Final Fluid Rate (gpm)	Final Rate Bottom Hole (gpm)	Pressure Tubing End (psi)	Casing Pressure End (psi)	Pressure BH End (psi)

Report Printed: 8/27/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Completion - Paradox Executive Daily No Costs

Report for: 8/21/2103
Report #: 4

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	8/13/2013 21:00

Stim/Treat Additives

Additive	Type	Amount	Units	Sand Size	Conc (lb/gal)	Conc BH (lb/gal)

Perforations

Date	Type	Top (ftKB)	Btm (ftKB)	Wellbore	Zone	Shot...	Ente...	String Perforated

Perforation Statuses

Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Status

Report Printed: 8/27/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Completion - Paradox Executive Daily No Costs

Report for: 8/20/2103
Report #: 3

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	8/13/2013 21:00

Operator	Completions Start Date	Completions Finished Date	Well Status
Fidelity E&P			DRLG

Job Category	Job Typ	Job SubTyp	Planned Start Date	Start Date	End Date
Completion	Original	Completion	8/19/2013		

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date

Daily Operations

Report Start Date	Report End Date
8/20/2103 06:00	8/21/2103 06:00

Operations at Report Time
Test BOPs, Unload tbg, Tally and TIH notched collar to 2200', SI well.

Operations Summary
Test BOPs, unload tbg, tally aand TIH notched collar to 2200', SI well.

Operations Next Report Period

Weather	Wellbore
Sunny and Clear	

Daily Contacts

Job Contact	Position	Office

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	1.00	1.00	GOP	Crew travel		
07:00	0.50	1.50	SMTG	Hold safety meeting and discuss job. RU Cameron to test the BOPs.		
07:30	7.50	9.00	BOPT	Test the BOPs. Test the 10,000# equip to 250# (low) and 8000# (high). Test the 5000# equip to 250# (low) and 4500# (high). The annular would not test. Replaced the annular rubber and retested. All tests are good. Unload 230 jnts of 2 7/8" 6.5# N-80 EUE 8rd tbg onto the rig racks.		
15:00	1.00	10.00	GOP	Prep the tbg for TIH. Tally top row of tbg.		
16:00	1.00	11.00	TRIP	TIH notched collar string as follows: Notched collar, (1) jnt of 2 7/8" 6.5# N-80 EUE 8rd tbg, Xnipple (2.313" ID), (69) jnts of 2 7/8" 6.5# N-80 EUE 8rd tbg. Ld the tbg in the rig slips. EOT @ 2200'. SI tbg, csg & BOPs.		
17:00	1.00	12.00	SDFN	Secure Well / SDFN / Travel		
18:00	12.00	24.00	SDFN	SDFN		

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)	Prop Run?
										No
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615	No
6/20/2013	Intermediate	4,172.0	26.9	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681	No
7/10/2013	Production	7,322.0	25.1	7	6.184	29.00	P-110	7	6.094	No
8/6/2013	Production	12,063.0	7,144.8	4 1/2	3.920	13.50	P-110	4 1/2	3.826	No

Rods

Rod Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Rod Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Tubing

Tubing Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Tubing Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Stimulations & Treatments

Date	Type	String	Wellbore	Stim/Treat Company	StimTreat Supervisor

Stim/Treat Fluids

Fluid Name	Fluid Type	Dens Fluid (°A...	pH	Filter Size (in)	Description

Fluid Additives

Additive	Amount	Units	Concentration (%)

Report Printed: 8/27/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Completion - Paradox Executive Daily No Costs

Report for: 8/20/2103
Report #: 3

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	8/13/2013 21:00

Stim/Treat Stages

Stage Type	Stg #	Start Date	End Date	Top (ftKB)	Btm (ftKB)	Stim/Treat Fluid	Vol Clean Pu...	Vol Slurry (bbl)

Initial Fluid Rate (gpm)	Initial Rate Bottom Hole (gpm)	Tubing Pressure Start (psi)	Casing Pressure Start (psi)	Bottom Hole Pressure Start (psi)

Final Fluid Rate (gpm)	Final Rate Bottom Hole (gpm)	Pressure Tubing End (psi)	Casing Pressure End (psi)	Pressure BH End (psi)

Stim/Treat Additives

Additive	Type	Amount	Units	Sand Size	Conc (lb/gal)	Conc BH (lb/gal)

Perforations

Date	Type	Top (ftKB)	Btm (ftKB)	Wellbore	Zone	Shot...	Ente...	String Perforated

Perforation Statuses

Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Status

Report Printed: 8/27/2013

FIDELITY Exploration & Production Company
An MDU Resources Group company

Daily Completion - Paradox Executive Daily No Costs

Report for: 8/19/2103
Report #: 2

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	8/13/2013 21:00

Operator	Completions Start Date	Completions Finished Date	Well Status
Fidelity E&P			DRLG

Job Category	Job Typ	Job SubTyp	Planned Start Date	Start Date	End Date
Completion	Original	Completion	8/19/2013		

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date

Daily Operations

Report Start Date	Report End Date
8/19/2103 06:00	8/20/2103 06:00

Operations at Report Time
Set anchors, MIRU #21, ND frac valve, NU BOPs, RU pump and tanks

Operations Summary
Set anchors, MIRU #21, ND frac valve, NU BOPs, RU pump and lines.

Operations Next Report Period

Weather	Wellbore
Sunny and Clear	

Daily Contacts

Job Contact	Position	Office

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	1.00	1.00	GOP	Crew travel		
07:00	1.50	2.50	SMTG	Hold safety meeting and discuss job. Set anchors and test to 20,000lbs.		
08:30	3.50	6.00	SRIGUP	MIRU Monument rig #21. MI rig equip. MI tanks and completion fluids. MI 380 bbls of #2 diesel and 90 bbls of 9.2 ppg CACL water.		
12:00	4.00	10.00	BOPI	ND the frac valve. NU Vision 10,000# BOPs and 5000# annular. RU pump and lines.		
16:00	1.00	11.00	SDFN	Secure Well / SDFN / Travel		
17:00	13.00	24.00	SDFN	SDFN		

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)	Prop Run?
										No
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615	No
6/20/2013	Intermediate	4,172.0	26.9	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681	No
7/10/2013	Production	7,322.0	25.1	7	6.184	29.00	P-110	7	6.094	No
8/6/2013	Production	12,063.0	7,144.8	4 1/2	3.920	13.50	P-110	4 1/2	3.826	No

Rods

Rod Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Rod Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Tubing

Tubing Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Tubing Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Stimulations & Treatments

Date	Type	String	Wellbore	Stim/Treat Company	StimTreat Supervisor

Stim/Treat Fluids

Fluid Name	Fluid Type	Dens Fluid (°A...	pH	Filter Size (in)	Description

Fluid Additives

Additive	Amount	Units	Concentration (%)

Stim/Treat Stages

Stage Type	Stg #	Start Date	End Date	Top (ftKB)	Btm (ftKB)	Stim/Treat Fluid	Vol Clean Pu...	Vol Slurry (bbl)

Initial Fluid Rate (gpm)	Initial Rate Bottom Hole (gpm)	Tubing Pressure Start (psi)	Casing Pressure Start (psi)	Bottom Hole Pressure Start (psi)
Final Fluid Rate (gpm)	Final Rate Bottom Hole (gpm)	Pressure Tubing End (psi)	Casing Pressure End (psi)	Pressure BH End (psi)

Report Printed: 8/27/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Completion - Paradox Executive Daily No Costs

Report for: 8/19/2103
Report #: 2

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	8/13/2013 21:00

Stim/Treat Additives

Additive	Type	Amount	Units	Sand Size	Conc (lb/gal)	Conc BH (lb/gal)

Perforations

Date	Type	Top (ftKB)	Btm (ftKB)	Wellbore	Zone	Shot...	Ente...	String Perforated

Perforation Statuses

Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Status

Report Printed: 8/27/2013

FIDELITY Exploration & Production Company
An MDU Resources Group company

Daily Completion - Paradox Executive Daily No Costs

Report for: 8/18/2013
Report #: 1

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	8/13/2013 21:00

Operator	Completions Start Date	Completions Finished Date	Well Status
Fidelity E&P			DRLG

Job Category	Job Typ	Job SubTyp	Planned Start Date	Start Date	End Date
Completion	Original	Completion	8/19/2013		

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date

Daily Operations

Report Start Date	Report End Date
8/18/2013 06:00	8/19/2103 06:00

Operations at Report Time
Clean up around location

Operations Summary
Clean up around location

Operations Next Report Period

Weather	Wellbore
Sunny and Clear	

Daily Contacts

Job Contact	Position	Office

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	4.00	4.00	GOP	Clean up around location. Clean up the tarp around the wellhead. Move equip awqy from the wellhead.		
10:00	1.00	5.00	SDFN	Secure Well / SDFN / Travel		
11:00	15.00	20.00	SDFN	SDFN		

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)	Prop Run?
										No
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615	No
6/20/2013	Intermediate	4,172.0	26.9	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681	No
7/10/2013	Production	7,322.0	25.1	7	6.184	29.00	P-110	7	6.094	No
8/6/2013	Production	12,063.0	7,144.8	4 1/2	3.920	13.50	P-110	4 1/2	3.826	No

Rods

Rod Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Rod Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Tubing

Tubing Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Tubing Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Stimulations & Treatments

Date	Type	String	Wellbore	Stim/Treat Company	StimTreat Supervisor

Stim/Treat Fluids

Fluid Name	Fluid Type	Dens Fluid (°A...	pH	Filter Size (in)	Description

Fluid Additives

Additive	Amount	Units	Concentration (%)

Stim/Treat Stages

Stage Type	Stg #	Start Date	End Date	Top (ftKB)	Btm (ftKB)	Stim/Treat Fluid	Vol Clean Pu...	Vol Slurry (bbl)

Initial Fluid Rate (gpm)	Initial Rate Bottom Hole (gpm)	Tubing Pressure Start (psi)	Casing Pressure Start (psi)	Bottom Hole Pressure Start (psi)
Final Fluid Rate (gpm)	Final Rate Bottom Hole (gpm)	Pressure Tubing End (psi)	Casing Pressure End (psi)	Pressure BH End (psi)

Stim/Treat Additives

Additive	Type	Amount	Units	Sand Size	Conc (lb/gal)	Conc BH (lb/gal)

Report Printed: 8/27/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Completion - Paradox Executive Daily No Costs

Report for: 8/18/2013
Report #: 1

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	8/13/2013 21:00

Perforations

Date	Type	Top (ftKB)	Btm (ftKB)	Wellbore	Zone	Shot...	Ente...	String Perforated

Perforation Statuses

Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Status

Report Printed: 8/27/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 8/14/2013
Report #: 71, DFS: 65.38
Daily Depth Progress: 0.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	8/13/2013 21:00

Operator	Surface Legal Location
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Delbert Sullivan	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	8/13/2013 21:00

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
448.09	64.93	30.3	38.7	13.1	67.02	32.98

Target Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0	6/9/2013	142.0	142.0

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
8/13/2013 06:00	8/14/2013 06:00	65.38	12,073.0	12,073.0	0.00

Operations at Report Time
rigging down

Operations Summary
Rigging down & moving rig, nipple down bops, nipple up tubing head & test, nipple up dry hole tree. move pallet materials & liquid mud to 26-3RE

Operations Next Report Period

Weather	Wellbore
	Original Hole

Daily Contacts

Job Contact	Position	Office
Delbert Sullivan	WSL	(970) 986-4401
Tucker Yancey	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	12.00	12.00	1	Rigging down & moving rig, load out pallet material & liquid mud, send to 26-3RE, nipple down & load out BOPs,		
18:00	3.00	15.00	14	Nipple up tubing head, packed off to 10,000#, tested to 9000# , install dry hole tree		

Mud Check: <depth>ftKB, <dttm>

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615
6/20/2013	Intermediate	4,172.0	26.9	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681
7/10/2013	Production	7,322.0	25.1	7	6.184	29.00	P-110	7	6.094
8/6/2013	Production	12,063.0	7,144.8	4 1/2	3.920	13.50	P-110	4 1/2	3.826

Report Printed: 8/19/2013

FIDELITY Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Executive

Report for: 8/13/2013
Report #: 70, DFS: 64.38
Daily Depth Progress: 0.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location	Well Status	On Production Date
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL	DRLG	

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Delbert Sullivan	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
448.09	64.93	30.3	38.7	13.1	67.02	32.98

Target Depth (ftKB)	Total Depth Reached Date	Total Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0	7/28/2013	12,073.00	6/9/2013	142.0	142.0

AFE Number	Code 1	AFE Amount (Cost)
130058	Drilling	8,316,600.00

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
8/12/2013 06:00	8/13/2013 06:00	64.38	12,073.0	12,073.0	0.00

Operations at Report Time

Operations Summary
Rigging down, moving rig, cleaning rig with thread tek.

Operations Next Report Period

Weather	Wellbore
Sunny and Clear	Original Hole

Report Field Est (Cost)	Cum Field Est (Cost)	AFE + Supp Amount (Cost)	Cum Variance (Cost)
35,135.00	8,023,926.85	8,316,600.00	292,673.15

Daily Contacts

Job Contact	Position	Office
Delbert Sullivan	WSL	(970) 986-4401
Tucker Yancey	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	24.00	24.00	1	Moving rig, dissassemble with crane, load on trucks, cleaning rig with thread tek, moving surface equip. & zeco equip. from 36-1 to 26-3RE, & rigging up zeco & Halliburton on 26-3 RE., Nipple up BOP'S on 26-3 RE.		

Mud Check: <depth>ftKB, <dttm>

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)

Non Productive Time

Problem Type	Problem Sub Type	Start Date	End Date	Start Depth (ft...	End Depth (ftKB)	Dur (hr)

Failed Item	Est Lost Ti...	Est Cost (Cost)	Cost Recovery (...	Accountable Party	Action Taken	Rig

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615
6/20/2013	Intermediate	4,172.0	26.9	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681
7/10/2013	Production	7,322.0	25.1	7	6.184	29.00	P-110	7	6.094
8/6/2013	Production	12,063.0	7,144.8	4 1/2	3.920	13.50	P-110	4 1/2	3.826

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Executive

Report for: 8/12/2013
Report #: 69, DFS: 63.38
Daily Depth Progress: 0.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location	Well Status	On Production Date
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL	DRLG	

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Delbert Sullivan	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
448.09	64.93	30.3	38.7	13.1	67.02	32.98

Target Depth (ftKB)	Total Depth Reached Date	Total Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0	7/28/2013	12,073.00	6/9/2013	142.0	142.0

AFE Number	Code 1	AFE Amount (Cost)
130058	Drilling	8,316,600.00

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
8/11/2013 06:00	8/12/2013 06:00	63.38	12,073.0	12,073.0	0.00

Operations at Report Time
Waiting on rig movers

Operations Summary
Cleaning rig, repairing rig, moving surface equip. to 26-3RE, using crane to rig up surface equip on 26-3RE.

Operations Next Report Period
Rig Up & Tear Down

Weather	Wellbore
Sunny and Clear	

Report Field Est (Cost)	Cum Field Est (Cost)	AFE + Supp Amount (Cost)	Cum Variance (Cost)
35,135.00	7,988,791.85	8,316,600.00	327,808.15

Daily Contacts

Job Contact	Position	Office
Delbert Sullivan	WSL	(970) 986-4401
Tucker Yancey	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	24.00	24.00	1	cleaning rig, repairing rig, waiting on rig movers & crane on frontier 10, moving surface equip. to nabors m40,		

Mud Check: <depth>ftKB, <dttm>

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)

Non Productive Time

Problem Type	Problem Sub Type	Start Date	End Date	Start Depth (ft...	End Depth (ftKB)	Dur (hr)

Failed Item	Est Lost Ti...	Est Cost (Cost)	Cost Recovery (...	Accountable Party	Action Taken	Rig

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615
6/20/2013	Intermediate	4,172.0	26.9	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681
7/10/2013	Production	7,322.0	25.1	7	6.184	29.00	P-110	7	6.094
8/6/2013	Production	12,063.0	7,144.8	4 1/2	3.920	13.50	P-110	4 1/2	3.826

Report Printed: 8/13/2013

FIDELITY Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Executive

Report for: 8/11/2013
Report #: 68, DFS: 62.38
Daily Depth Progress: 0.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location	Well Status	On Production Date
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL	DRLG	

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Delbert Sullivan	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
448.09	64.93	30.3	38.7	13.1	67.02	32.98

Target Depth (ftKB)	Total Depth Reached Date	Total Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0	7/28/2013	12,073.00	6/9/2013	142.0	142.0

AFE Number	Code 1	AFE Amount (Cost)
130058	Drilling	8,316,600.00

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
8/10/2013 06:00	8/11/2013 06:00	62.38	12,073.0	12,073.0	0.00

Operations at Report Time
Rigging down

Operations Summary
Thread tek cleaning rig for release, unstrung block & set on ground, rigging down zeco equip. & moving equip. to 26-3RE, using crane to rig down surface equip. from top of mud pits

Operations Next Report Period
Rig Up & Tear Down

Weather	Wellbore
Sunny and Clear	

Report Field Est (Cost)	Cum Field Est (Cost)	AFE + Supp Amount (Cost)	Cum Variance (Cost)
35,135.00	7,953,656.85	8,316,600.00	362,943.15

Daily Contacts

Job Contact	Position	Office
Delbert Sullivan	WSL	(970) 986-4401
Tucker Yancey	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	24.00	24.00	1	Rig down & cleaning surface equip. Rig down Zeco gas buster,de-gasser, move gas buster to Nabor's M40, using crane to rig down gas buster & surface equip. from mud pits.		

Mud Check: <depth>ftKB, <dttm>

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)

Non Productive Time

Problem Type	Problem Sub Type	Start Date	End Date	Start Depth (ft...	End Depth (ftKB)	Dur (hr)

Failed Item	Est Lost Ti...	Est Cost (Cost)	Cost Recovery (...	Accountable Party	Action Taken	Rig

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615
6/20/2013	Intermediate	4,172.0	26.9	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681
7/10/2013	Production	7,322.0	25.1	7	6.184	29.00	P-110	7	6.094
8/6/2013	Production	12,063.0	7,144.8	4 1/2	3.920	13.50	P-110	4 1/2	3.826

Report Printed: 8/13/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Executive

Report for: 8/10/2013
Report #: 67, DFS: 61.38
Daily Depth Progress: 0.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location	Well Status	On Production Date
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL	DRLG	

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Delbert Sullivan	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
448.09	64.93	30.3	38.7	13.1	67.02	32.98

Target Depth (ftKB)	Total Depth Reached Date	Total Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0	7/28/2013	12,073.00	6/9/2013	142.0	142.0

AFE Number	Code 1	AFE Amount (Cost)
130058	Drilling	8,316,600.00

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
8/9/2013 06:00	8/10/2013 06:00	61.38	12,073.0	12,073.0	0.00

Operations at Report Time
Rigging down

Operations Summary
Finish rigging down top drive, skid floor, lay down top drive, cleaning pits & lines with clean harbor, thread tek cleaning rig for release, move man camps

Operations Next Report Period
Rig Up & Tear Down

Weather	Wellbore
Sunny and Clear	

Report Field Est (Cost)	Cum Field Est (Cost)	AFE + Supp Amount (Cost)	Cum Variance (Cost)
35,135.00	7,918,521.85	8,316,600.00	398,078.15

Daily Contacts

Job Contact	Position	Office
Delbert Sullivan	WSL	(970) 986-4401
Tucker Yancey	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	24.00	24.00	1	Finish rigging down top drive, lay down top drive, clean harbor cleaning pits & lines, thread tek cleaning rig for release, move & rig up man camps on CC26-3, Nabors M-40		

Mud Check: <depth>ftKB, <dttm>

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)

Non Productive Time

Problem Type	Problem Sub Type	Start Date	End Date	Start Depth (ft...	End Depth (ftKB)	Dur (hr)

Failed Item	Est Lost Ti...	Est Cost (Cost)	Cost Recovery (...	Accountable Party	Action Taken	Rig

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615
6/20/2013	Intermediate	4,172.0	26.9	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681
7/10/2013	Production	7,322.0	25.1	7	6.184	29.00	P-110	7	6.094
8/6/2013	Production	12,063.0	7,144.8	4 1/2	3.920	13.50	P-110	4 1/2	3.826

Report Printed: 8/13/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Executive

Report for: 8/9/2013
Report #: 66, DFS: 60.38
Daily Depth Progress: 0.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location	Well Status	On Production Date
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL	DRLG	

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Delbert Sullivan	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
448.09	64.93	30.3	38.7	13.1	67.02	32.98

Target Depth (ftKB)	Total Depth Reached Date	Total Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0	7/28/2013	12,073.00	6/9/2013	142.0	142.0

AFE Number	Code 1	AFE Amount (Cost)
130058	Drilling	8,316,600.00

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
8/8/2013 06:00	8/9/2013 06:00	60.38	12,073.0	12,073.0	0.00

Operations at Report Time
Rigging down

Operations Summary
Lay down pipe, rigging down (CLEAN HARBOR CLEANING MUD TANKS) HALB. MPD RIGGED DOWN, ZECO RIGGING DOWN, RIGGING DOWN TOP DRIVE.

Operations Next Report Period
Rig Up & Tear Down

Weather	Wellbore
Sunny and Clear	

Report Field Est (Cost)	Cum Field Est (Cost)	AFE + Supp Amount (Cost)	Cum Variance (Cost)
109,887.68	7,883,386.85	8,316,600.00	433,213.15

Daily Contacts

Job Contact	Position	Office
Delbert Sullivan	WSL	(970) 986-4401
Tucker Yancey	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	5.00	5.00	6	Lay down 4" drill pipe	12,073.0	12,073.0
11:00	0.50	5.50	22	Rig down laydown truck	12,073.0	12,073.0
11:30	18.50	24.00	1	Cleaning rig, mud pits, wash thru mud lines, kill & choke linesm choke manifold & gas buster with diesel & soap & water, remove catch kan, rig down flow line, orbit valve, rotating head,remove elevators & bails, rigging down top drive	12,073.0	12,073.0

Mud Check: <depth>ftKB, 8/8/2013 13:00

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
8/8/2013												

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)

Non Productive Time

Problem Type	Problem Sub Type	Start Date	End Date	Start Depth (ft...	End Depth (ftKB)	Dur (hr)

Failed Item	Est Lost Ti...	Est Cost (Cost)	Cost Recovery (...	Accountable Party	Action Taken	Rig

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615
6/20/2013	Intermediate	4,172.0	26.9	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681
7/10/2013	Production	7,322.0	25.1	7	6.184	29.00	P-110	7	6.094
8/6/2013	Production	12,063.0	7,144.8	4 1/2	3.920	13.50	P-110	4 1/2	3.826

Report Printed: 8/13/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Executive

Report for: 8/8/2013
Report #: 65, DFS: 59.38
Daily Depth Progress: 0.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location	Well Status	On Production Date
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL	DRLG	

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Delbert Sullivan	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
448.09	64.93	30.3	38.7	13.1	67.02	32.98

Target Depth (ftKB)	Total Depth Reached Date	Total Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0	7/28/2013	12,073.00	6/9/2013	142.0	142.0

AFE Number	Code 1	AFE Amount (Cost)
130058	Drilling	8,316,600.00

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
8/7/2013 06:00	8/8/2013 06:00	59.38	12,073.0	12,073.0	0.00

Operations at Report Time
L/D pipe

Operations Summary
L/D dir. tools, M/U packer, TIH, set packer, test packer, pump slug, lay down pipe,(CLEAN HARBOR CLEANING MUD TANKS)

Operations Next Report Period
Trips

Weather	Wellbore
Sunny and Clear	Original Hole

Report Field Est (Cost)	Cum Field Est (Cost)	AFE + Supp Amount (Cost)	Cum Variance (Cost)
120,077.43	7,773,499.17	8,316,600.00	543,100.83

Daily Contacts

Job Contact	Position	Office
Delbert Sullivan	WSL	(970) 986-4401
Tucker Yancey	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	2.00	2.00	6	Lay down Dir. tools	12,073.0	12,073.0
08:00	0.50	2.50	6	Make up packer assy.	12,073.0	12,073.0
08:30	8.50	11.00	6	TIH with packer to 7100ft.	12,073.0	12,073.0
17:00	0.50	11.50	22	Set packer, top of packer @ 7087.57', bottom @ 7100'	12,073.0	12,073.0
17:30	1.00	12.50	16	Break cir., test packer to 1500psi. & hold for 15mins.	12,073.0	12,073.0
18:30	7.00	19.50	6	Pump slug & lay down drill pipe, lay down packer setting tool	12,073.0	12,073.0
01:30	4.50	24.00	6	TIH 56stds.	12,073.0	12,073.0

Mud Check: 12,073.0ftKB, 8/7/2013 15:00

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
8/7/2013	12,073.0	18.70	73	51.0	21.000	13.000	17.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
						156,691.00 0			45.0		81.8/18.2

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)

Non Productive Time

Problem Type	Problem Sub Type	Start Date	End Date	Start Depth (ft...	End Depth (ftKB)	Dur (hr)

Failed Item	Est Lost Ti...	Est Cost (Cost)	Cost Recovery (...	Accountable Party	Action Taken	Rig

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615
6/20/2013	Intermediate	4,172.0	26.9	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681
7/10/2013	Production	7,322.0	25.1	7	6.184	29.00	P-110	7	6.094
8/6/2013	Production	12,063.0	7,144.8	4 1/2	3.920	13.50	P-110	4 1/2	3.826

Report Printed: 8/13/2013

FIDELITY Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Executive

Report for: 8/7/2013
Report #: 64, DFS: 58.38
Daily Depth Progress: 0.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location	Well Status	On Production Date
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL	DRLG	

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Delbert Sullivan	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
448.09	64.93	30.3	38.7	13.1	67.02	32.98

Target Depth (ftKB)	Total Depth Reached Date	Total Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0	7/28/2013	12,073.00	6/9/2013	142.0	142.0

AFE Number	Code 1	AFE Amount (Cost)
130058	Drilling	8,316,600.00

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
8/6/2013 06:00	8/7/2013 06:00	58.38	12,073.0	12,073.0	0.00

Operations at Report Time
L/D setting tools

Operations Summary
Wait on cement, build mud weight, set KWM, POOH

Operations Next Report Period
Trips

Weather	Wellbore
Sunny and Clear	Original Hole

Report Field Est (Cost)	Cum Field Est (Cost)	AFE + Supp Amount (Cost)	Cum Variance (Cost)
273,999.76	7,653,421.74	8,316,600.00	663,178.26

Daily Contacts

Job Contact	Position	Office
Delbert Sullivan	WSL	(970) 986-4401
Tucker Yancey	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	1.50	1.50	13	WOC, wait on orders, holding 1300 psi. on liner with halb. pump truck	12,073.0	12,073.0
07:30	6.50	8.00	5	Transfer 15.2ppg mud from active system to tank farm, transfer 17.4ppg mud from tank farm to active system & wt. up to 18.7ppg.	12,073.0	12,073.0
14:00	2.50	10.50	5	Displace well with 18.7ppg. KWM, pump at 30spm, cir. thru rig choke, pumped 337bbls. lost 152bbls. (max gas 2074 units, mud cut 13.8ppg, 15ft. flare) returns 17.8ppg when shut down	12,073.0	12,073.0
16:30	3.00	13.50	22	Monitor well bore press, while building mud vol.	12,073.0	12,073.0
19:30	1.00	14.50	5	Finish displacing 18.7ppg, KWM in well bore, 18.7ppg out, 18.7ppg in	12,073.0	12,073.0
20:30	1.00	15.50	22	Shut in well, monitor press., bleed 100psi incriements untill 0psi, open well, monitor on trip tank, no gain no loss, pump slug.	12,073.0	12,073.0
21:30	1.50	17.00	6	Lay down cement head & halb. iron, monitor well on trip tank	12,073.0	12,073.0
23:00	1.50	18.50	21	Slip & cut 200ft. of drill line Monitor well on trip tank	12,073.0	12,073.0
00:30	5.50	24.00	6	POOH	12,073.0	12,073.0

Mud Check: 12,073.0ftKB, 8/6/2013 14:00

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
8/6/2013	12,073.0	18.70	93	57.0	25.000	13.000	17.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
					50,919.000	158,233.000			45.0		81.8/18.2

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
155.0				90.0	

Mud Check: 12,073.0ftKB, 8/6/2013 23:59

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
8/6/2013	12,073.0	18.70	93	57.0	25.000	13.000	17.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
					50,919.000	158,233.000			45.0		81.8/18.2

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
18.0				90.0	

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)

Non Productive Time

Problem Type	Problem Sub Type	Start Date	End Date	Start Depth (ft...	End Depth (ftKB)	Dur (hr)

Failed Item	Est Lost Ti...	Est Cost (Cost)	Cost Recovery (...	Accountable Party	Action Taken	Rig

Report Printed: 8/13/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Executive

Report for: 8/7/2013
Report #: 64, DFS: 58.38
Daily Depth Progress: 0.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615
6/20/2013	Intermediate	4,172.0	26.9	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681
7/10/2013	Production	7,322.0	25.1	7	6.184	29.00	P-110	7	6.094
8/6/2013	Production	12,063.0	7,144.8	4 1/2	3.920	13.50	P-110	4 1/2	3.826

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Executive

Report for: 8/6/2013
Report #: 63, DFS: 57.38
Daily Depth Progress: 0.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location	Well Status	On Production Date
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL	DRLG	

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Delbert Sullivan	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
448.09	64.93	30.3	38.7	13.1	67.02	32.98

Target Depth (ftKB)	Total Depth Reached Date	Total Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0	7/28/2013	12,073.00	6/9/2013	142.0	142.0

AFE Number	Code 1	AFE Amount (Cost)
130058	Drilling	8,316,600.00

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
8/5/2013 06:00	8/6/2013 06:00	57.38	12,073.0	12,073.0	0.00

Operations at Report Time
WOC

Operations Summary
Circulate, rig up cement head, Circulate.,Set hanger, Circulate., Sheer off hanger. Pump Cement. Set Packer. Reverse out, Pump cement back inplace, WOC.,

Operations Next Report Period
Trips

Weather	Wellbore
Sunny and Clear	Original Hole

Report Field Est (Cost)	Cum Field Est (Cost)	AFE + Supp Amount (Cost)	Cum Variance (Cost)
76,413.80	7,379,421.98	8,316,600.00	937,178.02

Daily Contacts

Job Contact	Position	Office
Paul Roberts	WSL	(970) 986-4401
Tucker Yancey	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	1.00	1.00	5	Ciriculate hole clean, @ 12 SPM, 1bpm.	12,073.0	12,073.0
07:00	1.00	2.00	22	Rig up Baker Cement head.	12,073.0	12,073.0
08:00	3.50	5.50	5	Cir. hole @ 3 BPM. Bgas 1140-1660 units, Max Gas 2670 units. 5-7 flare on bottoms up.	12,073.0	12,073.0
11:30	1.50	7.00	22	Drop ball & set liner hanger (TOL = 7145' SHOE @ 12,063')	12,073.0	12,073.0
13:00	1.50	8.50	5	CIR. BOTTOMS UP @ 45spm, 3.75 bpm.	12,073.0	12,073.0
14:30	1.00	9.50	22	Drop ball #2 & sheer off hanger	12,073.0	12,073.0
15:30	5.00	14.50	12	Held safety meeting, rig up Halliburton iron, test lines to 6000#, mix & pump, 20 bbls. diesel, 30 bbls. tuned spacer @ 18.0 ppg, 18.7 bbls. lead = 60 sks. @ 18.5 ppg, yield 1.75, 73.2 bbls. tail = 235 sks, @ 18.5 ppg, yield 1.75, 70 bbls. mud 15.1 ppg, 10 bbls. spacer @ 18.0 ppg, 64.5 bbls. mud @15.1 ppg, bump plug with 2440 psi. Losses to hole while cementing 30 bbl off PVT. Held 15 mins. blead off 3.5 bbls. shut in, press up to 350 psi., floats leaking, press back up to 2400 psi.held 15 mins, Bleed off floats not holding shut-in.	12,073.0	12,073.0
20:30	1.00	15.50	5	Set Packer. Sting out of packer, started reversing out, pumped 1000stks. spacer at surface = 19bbls.to trip tank, gas behind spacer thru reverse out line. Shut well in. 630 psi on back side.	12,073.0	12,073.0
21:30	1.00	16.50	12	Sting back into packer, bleed off press from casing = 630psi. no returns, lined back up to pump truck, 900psi. on drill pipe, press rose to 1030psi., pump with halb. down drill pipe 20 bbls. @ 1/2BPM 1850 psi. raised rate to 1 BPM, bumped plug with 2660psi. Monitor annular pressure with MPD 24-36 psi.	12,073.0	12,073.0
22:30	6.00	22.50	13	Shut down pump with 2660psi. WOC while holding press. with Halb., after 4hrs. press bleed down to 1326psi. pumped 1/2bbl. press up to 2350psi., press still bleeding off slowly, samples not set up.Monitor annular pressure with MPD36 psi, dropped to 24 psi.	12,073.0	12,073.0
04:30	2.00	24.50	13	Drill pipe pressure bled off to 1350 psi 2 hrs, 02:30 to 04:30. Drillpipe Pressure at 0:600: 1327 psi. Annular Pressure at 06:00 24 psi. Cement samples still not set up.	12,073.0	12,073.0

Mud Check: 12,073.0ftKB, 8/5/2013 14:00

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
8/5/2013	12,073.0	15.20	54	21.0	15.000	11.000	14.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
					53,520.000	77,596.000			35.0		84.6/15.4

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
3.0				90.0	

Report Printed: 8/13/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Executive

Report for: 8/6/2013
Report #: 63, DFS: 57.38
Daily Depth Progress: 0.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Mud Check: 12,073.0ftKB, 8/5/2013 23:59

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
8/5/2013	12,073.0	15.20	54	21.0	14.000	10.000	13.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
					52,563.000	96,948.000			35.0		84.6/15.4

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
19.0					

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)

Non Productive Time

Problem Type	Problem Sub Type	Start Date	End Date	Start Depth (ft...	End Depth (ftKB)	Dur (hr)

Failed Item	Est Lost Ti...	Est Cost (Cost)	Cost Recovery (...	Accountable Party	Action Taken	Rig

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615
6/20/2013	Intermediate	4,172.0	26.9	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681
7/10/2013	Production	7,322.0	25.1	7	6.184	29.00	P-110	7	6.094
8/6/2013	Production	12,063.0	7,144.8	4 1/2	3.920	13.50	P-110	4 1/2	3.826

Report Printed: 8/13/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 8/5/2013
Report #: 62, DFS: 56.38
Daily Depth Progress: 0.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Paul Roberts	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
448.09	64.93	30.3	38.7	13.1	67.02	32.98

Target Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0	6/9/2013	142.0	142.0

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
8/4/2013 06:00	8/5/2013 06:00	56.38	12,073.0	12,073.0	0.00

Operations at Report Time

Operations Summary
Wash and ream 7745' to 7867'. Circulate bottoms up. Strip in hole on elevators with MPD, string held up at 8948', wash and ream. Strip in hole on elevators to 9546', circulate bottoms up. Strip in hole on elevators to 10617 ft. Circulate bottoms up. Strip in hole to 11352ft. circulate bottoms up. Strip in hole to 12073 ft. Circulate prior to cement job.

Operations Next Report Period
Trips

Weather	Wellbore
Rain	Original Hole

Daily Contacts

Job Contact	Position	Office
Paul Roberts	WSL	(970) 986-4401
Tucker Yancey	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	1.50	1.50	3	Wash and ream from 7745' to 7867'. RPM 30, WOB 15-20k. Holding pressure with MPD.	12,073.0	12,073.0
07:30	1.50	3.00	5	Circulate bottoms up, heavy LCM returns at shakers. Max Gas: 200 units. Holding pressure with MPD.	12,073.0	12,073.0
09:00	1.00	4.00	6	Srip in hole on elvators to 8948 ft. Enecountered bridge. Anhydrite 8920'-8945'. Hole angle ~ 77 °. Rabbit every stand. Holding pressure with MPD.	12,073.0	12,073.0
10:00	3.50	7.50	3	Wash and ream, attempt to work through tight spots from 8916' to 8950. Q= 60-74 gpm, RPM 35, SPP 110-1250 psi. Hole trying to packoff. Work string with pumps on, with and without rotation pumps on and off. Circulate bottoms up, LCM heavy on shakers. String freed up trip on elevators to 9004'. Holding pressure with MPD.	12,073.0	12,073.0
13:30	1.00	8.50	6	Strip in hole on elevators from 9004' to 9570'.String weight 95-110k. Rabbit every stand. Holding pressure with MPD.	12,073.0	12,073.0
14:30	3.00	11.50	5	Circulate bottoms up 9570'. RPM: 35, Q = 70-100 gpm. Mud weight In: 15.2 pp, Out 15.2 -16.0 pgg. Heavy LCM returns at the shakers. Max Gas: 2609 units. Light sheen on shakers. Holding pressure with MPD. 5 ft. flare	12,073.0	12,073.0
17:30	1.50	13.00	6	Strip in hole on elevators from 9570' to 10,617".String weight 95-110k. Rabbit every stand. Holding pressure with MPD.	12,073.0	12,073.0
19:00	3.50	16.50	5	Work string up and down, bump rotary, reduce MPD pressure to break circulation and establish rotation. Circulate bottoms up 10,617'. RPM: 35, Q = 70-100 gpm. Mud weight In: 15.2 pp, Out 15.2 -16.0 pgg. Heavy LCM returns at the shakers. Max Gas: xxx units. Light sheen on shakers. Holding pressure with MPD. High gas 2103 units, mud cut 15.0ppg. 5ft. flare	12,073.0	12,073.0
22:30	1.00	17.50	6	Strip in hole with 8stds. of H.WT. to 11,352', pipe stuck @ 10,708' worked free, not able to rotate, can only work pipe with pumps off.	12,073.0	12,073.0
23:30	3.50	21.00	5	Work string up & down to regain Circulation, Cir. bottoms up from 11,352', not able to rotate pipe, can only work pipe with pump off, packing off.Mud wt. in 15.1ppg, mud wt. out 15.1+ppg., Cir. out gas, Max Gas: 2648 units,	12,073.0	12,073.0
03:00	2.00	23.00	6	Strip in hole with 8stds. of H.WT 75 ft of Drillpipe.. to 12,073',	12,073.0	12,073.0
05:00	1.00	24.00	5	Circulate and condition prior to cement.	12,073.0	12,073.0

Report Printed: 8/5/2013

FIDELITY Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 8/5/2013
Report #: 62, DFS: 56.38
Daily Depth Progress: 0.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Mud Check: 12,073.0ftKB, 8/4/2013 14:00

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
8/4/2013	12,073.0	15.20	50	21.0	13.000	9.000	12.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
					51,921.000	97,073.000			35.0		83.1/16.9

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
48.0					

Mud Check: 12,073.0ftKB, 8/4/2013 23:59

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
8/4/2013	12,073.0	15.10	50	20.0	14.000	9.000	12.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
					95,122.000	117,897.000			32.0		85.3/14.7

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
10.0				97.0	

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615
6/20/2013	Intermediate	4,172.0	26.9	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681
7/10/2013	Production	7,322.0	25.1	7	6.184	29.00	P-110	7	6.094

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 8/4/2013
Report #: 61, DFS: 55.38
Daily Depth Progress: 0.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Paul Roberts	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
448.09	64.93	30.3	38.7	13.1	67.02	32.98

Target Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0	6/9/2013	142.0	142.0

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
8/3/2013 06:00	8/4/2013 06:00	55.38	12,073.0	12,073.0	0.00

Operations at Report Time
Circulating in Lateral.

Operations Summary
Run 4 1/2" Liner to 4887'. Pickup and Makeup Liner Hanger and Packer as per Baker. Rig down Casing Equipment and Lay Down equipment. Run liner in hole on drillpipe to 7275 ft. Displace hole to 15.1 ppg mud holding pressure with MPD. Trip in hole 7709', ream to 7745', hit hard bridge. Wash and Ream.

Operations Next Report Period
Condition Mud & Circulate

Weather	Wellbore
Sunny and Clear	Original Hole

Daily Contacts

Job Contact	Position	Office
Paul Roberts	WSL	(970) 986-4401
Tucker Yancey	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	3.00	3.00	12	Run 4 1/2" Liner to 4882 ft. Autofill collar working.	12,073.0	12,073.0
09:00	0.50	3.50	12	Change elevators to 3 1/2" to handle Hanger Assembly. Makeup Baker Liner Hanger and ZXP Liner Packer.	12,073.0	12,073.0
09:30	1.00	4.50	12	Rig down Casing and Lay Down equipment.	12,073.0	12,073.0
10:30	0.50	5.00	22	Clean and clear drill floor.	12,073.0	12,073.0
11:00	3.00	8.00	12	Run 4 1/2" Liner on drillpipe to 6430 ft. Rabbit each stand. Run Bleedoff Cap. Auto Fill working. Remove trip nipple, install rotating head rubber. Trip speed 3-4 mps. Returns to trip tank.	12,073.0	12,073.0
14:00	0.50	8.50	5	Break circulation at 6430 ft, top of build. Pump 10 spm, P=486 psi, returns 50%.	12,073.0	12,073.0
14:30	3.00	11.50	12	Run 4 1/2" Liner on drillpipe to 7275 ft. Rabbit each stand. Run Bleedoff Cap. Auto Fill working. Trip speed 3-4 mps. Returns to trip tank. Transfer 18.2 ppg to tank farm. Fill active system with 15.1 ppg OBM.	12,073.0	12,073.0
17:30	3.00	14.50	5	Displace Liner and Annulus with 15.1 ppg OBM. Rate 3-12 spm, 400 -1250 psi. Pumped 941 of 1160 stks, shutdown, pressure limited to 1300 psi differential across hydraulic set hanger. Returns 50% of pumped volume.	12,073.0	12,073.0
20:30	1.00	15.50	22	Transfer 15.7 ppg OBM from tank farm to pill pit. Weight up 17.8 ppg.	12,073.0	12,073.0
21:30	2.50	18.00	5	Pump 30 bbl 17.8 ppg, chase with 15.1 ppg. Rate 3 -5 spm, P=100-1250 psi. Pump 20 bbl 17.8 ppg, Rate 5-7 spm. Returns 40-65%.	12,073.0	12,073.0
00:00	3.00	21.00	5	Returnsto trip tank exceeded barrel in/out. Line up to take returns through MPD. Circulate holding pressure with MPD 100-400 psi. Rate dropped to 5 spm holding 400 psi, raise rate and open MPD chokes working rate to 14 spm with 200 psi on annulus, full returns. No flare.	12,073.0	12,073.0
03:00	1.00	22.00	5	Circulate holding pressure with MPD target barrel In/Out, holding 175-250 psi. In 15.3 ppg, Out:17.1 to 15.6 ppg. Raise rate to 38 spm(3.2 bpm) to convert Auto Fill Collar.	12,073.0	12,073.0
04:00	0.50	22.50	22	Shutdown to check Auto Fill Collar conversion, Trap 700 psi. Conversion good. Prep to trip in hole.	12,073.0	12,073.0
04:30	1.50	24.00	6	Trip in hole on elevators from 7275' to 7709'. String held up 7709', ream no pumps to 7745' hit hard bridge, wash and ream. Returns to shaker heavy Vanguard LCM.	12,073.0	12,073.0

Mud Check: 12,073.0ftKB, 8/3/2013 14:00

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
8/3/2013	12,073.0	15.10	49	23.0	11.000	8.000	11.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
					78,992.000	65,283.000			35.0		81.5/18.5

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
2.0					

Report Printed: 8/5/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 8/4/2013
Report #: 61, DFS: 55.38
Daily Depth Progress: 0.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Mud Check: 12,073.0ftKB, 8/3/2013 23:59

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
8/3/2013	12,073.0	15.30	53	24.0	13.000	8.000	11.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
					92,070.000	81,819.000			34.0		81.8/18.2

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
75.0					

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615
6/20/2013	Intermediate	4,172.0	26.9	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681
7/10/2013	Production	7,322.0	25.1	7	6.184	29.00	P-110	7	6.094

Report Printed: 8/5/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 8/3/2013
Report #: 60, DFS: 54.38
Daily Depth Progress: 0.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Paul Roberts	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
448.09	64.93	30.3	38.7	13.1	67.02	32.98

Target Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0	6/9/2013	142.0	142.0

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
8/2/2013 06:00	8/3/2013 06:00	54.38	12,073.0	12,073.0	0.00

Operations at Report Time
Running 4 1/2" Liner

Operations Summary
Pump out of the hole 4428' to 3955'. Replace wash pipe, monitor hole, static. Pump out f/3955'- 2435'. Hole taking fluid. Monitor hole at 2435', static. Pump out f/2435' to surface. Hole taking more than calculated. Work BHA. Rig up casing equipment and run 4 1/2" Liner. Running Liner at 3639 ft.

Operations Next Report Period
Wait on Cement

Weather	Wellbore
Sunny and Clear	Original Hole

Daily Contacts

Job Contact	Position	Office
Paul Roberts	WSL	(970) 986-4401
Tucker Yancey	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	2.50	2.50	6	Pump out of the hole f/4428' to 3955'. Pump 15 spm thru MPD, returns to trip tank. RPM 15. Hole taking fluid.	12,073.0	12,073.0
08:30	1.00	3.50	8	Replace washpipe. Monitor hole on trip tank, well static.	12,073.0	12,073.0
09:30	3.50	7.00	6	Pump out of the hole f/3955' to 2435'. Pump 15 spm thru MPD, returns to trip tank, RPM 15, Trip speed 3-4 mps. Hole taking fluid. Pump out trip tank as needed.	12,073.0	12,073.0
13:00	1.00	8.00	22	Monitor hole on trip tank, well static. Pump out trip tank.	12,073.0	12,073.0
14:00	5.50	13.50	6	Pump out of the hole f/2435' to 170'. Pump 15 spm thru MPD, returns to trip tank, RPM 15, Trip speed 3-4 mps. Hole taking fluid . Pump out trip tank as needed.	12,073.0	12,073.0
19:30	1.00	14.50	6	Rack back MWD Collars. Breakout bit and Pzig, rack back balance of BHA.	12,073.0	12,073.0
20:30	1.50	16.00	12	Rig up casing equip. & held safety meeting	12,073.0	12,073.0
22:00	8.00	24.00	12	Make up shoe track & auto fill float, run 4 1/2" P-110, BTC casing. Run Liner to 3639 ft. Autofill collar working.	12,073.0	12,073.0

Mud Check: 12,073.0ftKB, 8/2/2013 14:00

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
8/2/2013	12,073.0	18.20	86	44.0	19.000	11.000	16.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
					0.000	236,588.000			43.0		80.7/19.3

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
106.0					

Mud Check: 12,073.0ftKB, 8/2/2013 23:59

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
8/2/2013	12,073.0	15.10	55	22.0	12.000	8.000	10.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
					101,759.000	98,381.000			33.0		80.6/19.4

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
8.0					

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615
6/20/2013	Intermediate	4,172.0	26.9	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681
7/10/2013	Production	7,322.0	25.1	7	6.184	29.00	P-110	7	6.094

Report Printed: 8/5/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 8/2/2013
Report #: 59, DFS: 53.38
Daily Depth Progress: 0.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Paul Roberts	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
448.09	64.93	30.3	38.7	13.1	67.02	32.98

Target Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0	6/9/2013	142.0	142.0

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
8/1/2013 06:00	8/2/2013 06:00	53.38	12,073.0	12,073.0	0.00

Operations at Report Time

Operations Summary
Build 18.2 KWM. Pump 70 bbl LCM pill, displace out of pipe. Shutdown flowcheck., POOH 8stds, bullhead 8bbls., monitor well, POOH 5stds. TIH, pump 70bbls. LCM & spot same, monitor well, squeeze 1/2bbl. LCM, strip out of hole to 6400', monitor well, strip out of hole to 5473', monitor well, POOH to 4428 ft.

Operations Next Report Period
Run Casing & Cement

Weather	Wellbore
Cloudy	Original Hole

Daily Contacts

Job Contact	Position	Office
Paul Roberts	WSL	(970) 986-4401
Tucker Yancey	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	2.00	2.00	22	Build 18.2 ppg KWM in premix. Transfer 300 bbl of KWM to active system. Pre Job Safety meeting with new Rig Crew. Discuss displacement procedures. Annulus bledoff to 88 psi from 200 psi in 3 hrs.	12,072.0	12,073.0
08:00	2.00	4.00	5	Pump 70 bbl of 18.2 ppg, with 40 ppb Vanguard and CaCarb. Displace out of drillpipe. Rotary 15 rpm. Pumped 10 bbl before returns seen on MPD, pumped 22 bbl before returns to surface. Pump at 12-15 spm, SPP = 1300-1750 psi while sweep in drill string, 1250psi with sweep out. Qin = 50 gpm, Qout 9-12 gpm. Last Mud weight out 17.9+ ppg.	12,073.0	12,073.0
10:00	1.50	5.50	22	Monitor Hole with trip tank. No gain.	12,073.0	12,073.0
11:30	1.50	7.00	6	Pull 8 stands, first three stands wet, 5 stands pulled dry. Hole not taking proper fill. Rotate while pulling stand 5,6 to brake gels, no help.	12,073.0	12,073.0
13:00	0.50	7.50	5	Bullhead 10 bbl of 18.2 ppg down annulus to makeup difference between 18.2 ppg OBM in drillpipe and 17.9+ in annulus. Max pump in pressure 578 psi. Pumps off pressure 265 psi, bled to 163 psi in 10 min.	12,073.0	12,073.0
13:30	0.50	8.00	22	Monitor well circulating over the top of hole on trip tank. No Gain.	12,073.0	12,073.0
14:00	1.00	9.00	6	Trip out 5 stands. First stand wet, next 4 stands dry. Hole not taking proiper fill.	12,073.0	12,073.0
15:00	2.00	11.00	6	Trip in hole 15 stands to the shoe. No returns while tripping in hole.	12,073.0	12,073.0
17:00	2.00	13.00	5	Pump 70 bbl of 18.2 ppg OBM, with 60 ppb Vanguard Fine and 10 ppb CaCarb. Displace out of drillpipe. Rotary 15 rpm. Pumped 3 bbl before returns seen on MPD, pumped 12 bbl before returns to surface. Pump at 12-15 spm, SPP = 2100-2400 psi while sweep in drill string, 1250psi with sweep out. Qin = 50 gpm, Qout 12-20 gpm. Last Mud weight out 18.1 ppg.	12,073.0	12,073.0
19:00	1.00	14.00	22	Shutdown pumping LCM pill. SPP= 1390 psi. Trap 230 psi with MPD. Pressure Bledoff to 188 psi. Build 18.2 ppg mud in PreMix.	12,073.0	12,073.0
20:00	1.50	15.50	5	Close Annular Preventer. Top squeeze 0.5 bbl into formation, Max Pump In Pressure: 750 psi. Pumps off P = 485 psi, pressure bled to 400 psi. Hold Pressure for 10 min. Bleedoff. Attempt to circulate, unable to gain full reurns. Pressure up to 400 psi, bled to 320 psi in 20 min.	12,073.0	12,073.0
21:30	2.00	17.50	6	Strip out of hole 10stds. to 6400'. Pump at 30-40 gpm, rotate at 15 rpm. MPD flowout 50% of pump rate. Calculated hole fill 8.5 bbl, took 13 bbl.	12,073.0	12,073.0
23:30	1.00	18.50	22	Monitor well on trip tank (NO GAIN, NO LOSS) transfer mud from premix to active system	12,073.0	12,073.0
00:30	2.00	20.50	6	Strip out of hole 10stds. to 5473'. Pump 30-40 gpm, rotate at 15 rpm, MPD flowout 50% of pump rate. Calculated 8.5 bbl, took 15 bbl.	12,073.0	12,073.0
02:30	1.00	21.50	22	Monitor well on trip tank (NO GAIN NO LOSS) build slug	12,073.0	12,073.0

Report Printed: 8/5/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 8/2/2013
Report #: 59, DFS: 53.38
Daily Depth Progress: 0.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
03:30	1.00	22.50	5	Pump 28 bbl dry job. Pulled 3 stands to 4999', hole not taking proper fill.		
04:30	1.50	24.00	6	Strip out of hole to 4428'. Pump 30-40 gpm, rotate at 15 rpm, MPD flowout 50% of pump rate.		

Mud Check: 12,073.0ftKB, 8/1/2013 14:00

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
8/1/2013	12,073.0	18.20	89	41.0	22.000	14.000	17.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
					41,067.000	145,122.000			44.0		80.4/19.6

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
248.0					

Mud Check: 12,073.0ftKB, 8/1/2013 23:59

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
8/1/2013	12,073.0	18.10	76	42.0	12.000	7.000	10.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
					90,167.000	142,766.000			43.0		80.7/19.3

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
83.0					

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615
6/20/2013	Intermediate	4,172.0	26.9	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681
7/10/2013	Production	7,322.0	25.1	7	6.184	29.00	P-110	7	6.094

Report Printed: 8/5/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 8/1/2013
Report #: 58, DFS: 52.38
Daily Depth Progress: 0.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Operator	Surface Legal Location
Fidelity E&P	Sec 36 25S 19E, SWSW 267 FSL, 774 FWL

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date
Frontier 10	Paul Roberts	Frontier10@fidelityepco.com	(970) 986-4401	6/4/2013 06:00	

Drilling Hours (hr)	Circulating Hours (hr)	Job ROP (ft/hr)	Job ROP Rotating (ft/hr)	Job ROP Sliding (ft/hr)	Job Rotating % (%)	Total Job Percent Sliding (%)
448.09	64.93	30.3	38.7	13.1	67.02	32.98

Target Depth (ftKB)	Kick Off Date	Kick Off Depth (ftKB)	Kick Off Depth (TVD) (ftKB)
12,377.0	6/9/2013	142.0	142.0

Daily Operations

Report Start Date	Report End Date	Days From Spud (days)	Start Depth (ftKB)	End Depth (ftKB)	Daily Depth Progress (ft)
7/31/2013 06:00	8/1/2013 06:00	52.38	12,073.0	12,073.0	0.00

Operations at Report Time
Build 18.2 ppg OBM - Well shut in

Operations Summary
Circulate while building 18.2 ppg KWM. Shutwell in trap pressure with MPD, 18.0 ppg EMW. Transfer KWM to the active system, build LCM pill. Pump 40 bbl 18.2 ppg LCM pill with 40 ppb Vanguard, pump 82 bbl of 18.2 ppg OBM. Shut down, monitor hole on trip tank, 1.5 bbl gain in 50 min. Shut well in monitor annular pressure with MPD. Bled off pressure, opened Annular. Pumped LCM sweep, displace out 17.1 ppg OBM with 18.2 ppg OBM. Shut Well in at 05:00 Hrs. Build 18.2 ppg OBM.

Operations Next Report Period
Trips

Weather	Wellbore
Cloudy	Original Hole

Daily Contacts

Job Contact	Position	Office
Paul Roberts	WSL	(970) 986-4401
Sam Loredo	WSL	(970) 986-4401
Tucker Yancey	WSL	(970) 986-4401

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	4.00	4.00	5	Circulate while building 18.2 ppg KWM. Cirulating thru MPD on full open choke, WHP 30 psi. Hourly treatment of Vanguard LCM. Losses 4-8 BPH.	12,073.0	12,073.0
10:00	3.00	7.00	22	Shut well in with MPD. Trap 18.0 ppg EMW at shoe, trapped pressure 360 psi, bledoff to 240 psi. Transfer 17.1 ppg OBM from active to tank farm. Transfer 18.2 ppg KWM into the active system, build LCM pill. LCM Pill 40 ppb Vanguard.	12,073.0	12,073.0
13:00	1.50	8.50	5	Displace hole to 18.2 ppg KWM. Pump at 12-15 spm, Pump 40 bbl with 40 ppb Vanguard, 82 bbl mud. Rotate string at 15 rpm. Shut down after 122 bbl pumped. 37 bbl lost to hole.	12,073.0	12,073.0
14:30	3.50	12.00	22	Circulate 17.0 ppg over top of the hole. Let LCM pill soak. 1.5 bbl gain to trip tank in 45 min. Shut well in with annular. Monitor annular pressure with MPD. Pressure built to102 psi in 1 hour.	12,073.0	12,073.0
18:00	6.00	18.00	5	Bled off pressure and opened Annular. Pump 20 bbl with 40 ppb Vanguard, Displace hole to 18.2 ppg KWM. Pump at 12-15 spm. Rotate string at 15 rpm. Pumped18.2 ppg KWM, pumped 28 bbls Vanguard Sweep, displace with 18.2 ppg KWM. Fluid weight out 17.1 ppg. Average losses 63 bbls per hour.	12,073.0	12,073.0
00:00	5.00	23.00	5	Displace hole to 18.2 ppg KWM. Pump at 12-15 spm. Rotate string at 15 rpm. Fluid weight out 17.1 - 17.8 ppg. Average losses 63 bbls per hour. Total Fluid Losses Last 24 Hrs = 540 bbls	12,073.0	12,073.0
05:00	1.00	24.00	5	Volume in active system low. Shut well in with 170 psi on casing. Mixing 18.2 ppg OBM in Premix Tank.	12,073.0	12,073.0

Mud Check: 12,073.0ftKB, 7/31/2013 14:00

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
7/31/2013	12,073.0	18.20	75	46.0	33.000	19.000	23.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
					22,656.000	399,543.000			43.0		84.2/15.8

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
39.0					

Report Printed: 8/5/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Drilling - Paradox Executive Daily No Cost

Report for: 8/1/2013
Report #: 58, DFS: 52.38
Daily Depth Progress: 0.00

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	

Mud Check: 12,073.0ftKB, 7/31/2013 23:59

Date	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV OR (Pa•s)	YP OR (lbf/1...	Gel (10s) (lbf...	Gel (10m) (lb...	Gel (30m) (lb...	Filtrate (mL/...	FC (1/32")	HTHP Filtrat...	HTHP FC (1...
7/31/2013	12,073.0	18.20	108	48.0	39.000	22.000	26.000				2.0	2

MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pot (mg/L)	Lime (lb/bbl)	Solids (%)	CaCl (ppm)	Oil Water Ratio
					91,989.000	147,373.000			44.0		82.1/17.9

Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)	LCM	ECD - Manual Entr...	T Flowline (°F)	Comment
501.0					

Daily Drilling Performance

Depth In (ftKB)	Depth Out (ft...	Drilled (ft)	Date In	Date Out	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	% Slide Time...	% Rot Time (%)

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615
6/20/2013	Intermediate	4,172.0	26.9	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681
7/10/2013	Production	7,322.0	25.1	7	6.184	29.00	P-110	7	6.094

Report Printed: 8/5/2013

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

5.LEASE DESIGNATION AND SERIAL NUMBER: ML-40571

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: CANE CREEK

1. TYPE OF WELL Oil Well

8. WELL NAME and NUMBER: Cane Creek Unit 36-1

2. NAME OF OPERATOR: FIDELITY E&P COMPANY

9. API NUMBER: 43019500300000

3. ADDRESS OF OPERATOR: 1700 Lincoln Street Ste 2800 , Denver, CO, 80203

PHONE NUMBER: 720 931-6459 Ext

9. FIELD and POOL or WILDCAT: UNDESIGNATED

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0267 FSL 0774 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 36 Township: 25.0S Range: 19.0E Meridian: S

COUNTY: GRAND

STATE: UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ NOTICE OF INTENT
  Approximate date work will start:
- ✓ SUBSEQUENT REPORT
  Date of Work Completion: 9/24/2013
- ☐ SPUD REPORT
  Date of Spud:
- ☐ DRILLING REPORT
  Report Date:

TYPE OF ACTION

☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
✓ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The Cane Creek Unit 36-1 had first production of 113 BO on September 24, 2013.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
October 21, 2013

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Joy Gardner	720 956-5763	Sr. Engineering Tech

SIGNATURE	DATE
N/A	9/26/2013

RECEIVED: Sep. 26, 2013

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: ML-40571

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: CANE CREEK

1. TYPE OF WELL Oil Well

8. WELL NAME and NUMBER: Cane Creek Unit 36-1

2. NAME OF OPERATOR: FIDELITY E&P COMPANY

9. API NUMBER: 43019500300000

3. ADDRESS OF OPERATOR: 1700 Lincoln Street Ste 2800 , Denver, CO, 80203

PHONE NUMBER: 720 931-6459 Ext

9. FIELD and POOL or WILDCAT: UNDESIGNATED

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0267 FSL 0774 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 36 Township: 25.0S Range: 19.0E Meridian: S

COUNTY: GRAND

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ SPUD REPORT Date of Spud:	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
✓ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
October 21, 2013

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Joy Gardner	720 956-5763	Sr. Engineering Tech

SIGNATURE	DATE
N/A	10/1/2013

RECEIVED: Oct. 21, 2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Completion - Paradox Executive Daily No Costs

Report for: 9/1/2013
Report #: 15

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	8/13/2013 21:00

Operator	Completions Start Date	Completions Finished Date	Well Status
Fidelity E&P			DRLG

Job Category	Job Typ	Job SubTyp	Planned Start Date	Start Date	End Date
Completion	Original	Completion	8/19/2013		

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date

Daily Operations

Report Start Date	Report End Date
9/1/2013 06:00	9/2/2013 06:00

Operations at Report Time
SI circ out 18.7 ppg mud, flow, SI, monitor SI.

Operations Summary
SI, circ out 18.7 ppg mud, flow, SI, monitor SI.

Operations Next Report Period

Weather	Wellbore
Sunny and Clear	Original Hole

Daily Contacts

Job Contact	Position	Office
Paul Nicholas	Company Man / WSL	(307) 321-0544

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	1.00	1.00	GOP	Crew travel		
07:00	0.50	1.50	SMTG	Hold safety meeting and discuss job.		
07:30	0.50	2.00	GOP	SITP- 560# SICP- 360# BD the tbg and csg to 0#. The tbg cont to flow a 1/4" stream of diesel.		
08:00	1.00	3.00	GOP	FTP- 1/4" flow FCP- 0# In the last hr the tbg flowed 11.25 bbls.		
09:00	5.00	8.00	GOP	Reverse circ out the 18.7 ppg invert w/ 170 bbls of 11.5 ppg CACL water @ 7117'. SI well and monitor.		
14:00	1.00	9.00	GOP	SITP- 1725# SICP- 1850# SI 1 hr.		
15:00	1.00	10.00	GOP	Pump 45 bbls of 11.5 ppg CACL water and SI tbg. Pumping @ 3/4 bpm, hold 1850# on the csg while pumping the fluids. SI and monitor SI pressures.		
16:00	1.00	11.00	GOP	SITP- 1725# SICP- 1825# Cont to monitor SI.		
17:00	1.00	12.00	GOP	SITP- 1900# SICP- 1860# Cont to monitor SI pressures.		
18:00	0.50	12.50	GOP	SITP- 1925# SICP- 1900# Cont to monitor SI pressures.		
18:30	0.50	13.00	GOP	SITP- 1925# SICP- 1900# Leave well SI over night. Secure system.		
19:00	1.00	14.00	SDFN	Secure Well / SDFN / Travel		
20:00	10.00	24.00	SDFN	SDFN		

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)	Prop Run?
										No
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615	No
6/20/2013	Intermediate	4,172.0	26.8	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681	No
7/10/2013	Production	7,322.0	25.2	7	6.184	29.00	P-110	7	6.094	No
8/6/2013	Production	12,063.0	7,144.8	4 1/2	3.920	13.50	P-110	4 1/2	3.826	No

Rods

Rod Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Rod Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Tubing

Tubing Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Tubing Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Stimulations & Treatments

Date	Type	String	Wellbore	Stim/Treat Company	StimTreat Supervisor

Stim/Treat Fluids

Fluid Name	Fluid Type	Dens Fluid (°A...	pH	Filter Size (in)	Description

Report Printed: 9/17/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Completion - Paradox Executive Daily No Costs

Report for: 9/2/2013
Report #: 16

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	8/13/2013 21:00

Operator	Completions Start Date	Completions Finished Date	Well Status
Fidelity E&P			DRLG

Job Category	Job Typ	Job SubTyp	Planned Start Date	Start Date	End Date
Completion	Original	Completion	8/19/2013		

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date

Daily Operations

Report Start Date	Report End Date
9/2/2013 06:00	9/3/2013 06:00

Operations at Report Time
Condition mud, circ the mud into the hole.

Operations Summary
Condition mud, circ the mud into the hole.

Operations Next Report Period

Weather	Wellbore
Sunny and Clear	Original Hole

Daily Contacts

Job Contact	Position	Office
Paul Nicholas	Company Man / WSL	(307) 321-0544

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	1.00	1.00	GOP	Crew travel		
07:00	0.50	1.50	SMTG	Hold safety meeting and discuss job.		
07:30	1.00	2.50	GOP	SITP- 1925# SICP- 1925# Replace swabs in the rig pump.		
08:30	6.50	9.00	GOP	Circ and roll the hole w/ 17.8 ppg invert mud. Pump conventional 245 bbls of mud. Hold back pressure on the csg while pumping the mud. EOT @ 7117'. The hole is full of mud. Save the 11.5 ppg CACL water that was replaced.		
15:00	0.50	9.50	GOP	SI tbg, csg and BOPs.		
15:30	1.00	10.50	SDFN	Secure Well / SDFN / Travel		
16:30	13.50	24.00	SDFN	SDFN		

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)	Prop Run?
										No
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615	No
6/20/2013	Intermediate	4,172.0	26.8	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681	No
7/10/2013	Production	7,322.0	25.2	7	6.184	29.00	P-110	7	6.094	No
8/6/2013	Production	12,063.0	7,144.8	4 1/2	3.920	13.50	P-110	4 1/2	3.826	No

Rods

Rod Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Rod Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Tubing

Tubing Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Tubing Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Stimulations & Treatments

Date	Type	String	Wellbore	Stim/Treat Company	StimTreat Supervisor

Stim/Treat Fluids

Fluid Name	Fluid Type	Dens Fluid (°A...	pH	Filter Size (in)	Description

Fluid Additives

Additive	Amount	Units	Concentration (%)

Report Printed: 9/17/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Completion - Paradox Executive Daily No Costs

Report for: 9/3/2013
Report #: 17

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	8/13/2013 21:00

Operator	Completions Start Date	Completions Finished Date	Well Status
Fidelity E&P			DRLG

Job Category	Job Typ	Job SubTyp	Planned Start Date	Start Date	End Date
Completion	Original	Completion	8/19/2013		

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date

Daily Operations

Report Start Date	Report End Date
9/3/2013 06:00	9/4/2013 06:00

Operations at Report Time
TOOH, TIH w/ 4 1/2" csg scraper assembly, tag @ 7629', press test, TOOH to kill depth.

Operations Summary
TOOH, TIH w/ 4 1/2" csg scraper assembly, tag @ 7629', press test, TOOH to kill depth.

Operations Next Report Period

Weather	Wellbore
Sunny and Clear	Original Hole

Daily Contacts

Job Contact	Position	Office
Paul Nicholas	Company Man / WSL	(307) 321-0544

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	1.00	1.00	GOP	Crew travel		
07:00	0.50	1.50	SMTG	Hold safety meeting and discuss job.		
07:30	0.50	2.00	GOP	SITP- 0# SICP- 0# Opened the tbg and the csg, there was a slight vac on each of them. Ended up @ 0# immediately.		
08:00	2.50	4.50	TRIP	TOOH w/ 2 7/8" notched collar. Pumped 16 bbls of 17.8 ppg invert mud during the TOOH to keep the hole full.		
10:30	2.00	6.50	GOP	Prep to TIH w/ 4 1/2" csg scraper assembly.		
12:30	4.50	11.00	TRIP	TIH 4 1/2" csg scraper assembly as follows: (new) 3 5/8" 4 bladed drag bit, Weatherford 4 1/2" csg scraper (15/16" ID), BS, (1) 6' X 2 3/8" N-80 EUE pup, X over, Weatherford 4 1/2" csg scraper (1.00" ID), BS, (1) jnt of 2 3/8" 4.7# N-80 EUE 8rd tbg, X nipple (1.875" ID), 87 jnts of 2 3/8" 4.7# N-80 EUE 8rd tbg, 2 3/8" Xover (EUE X WTS), 69 jnts of 2 3/8" 5.95# P-110 WTS tbg, X over (WTS 2 3/8" X 2 7/8" EUE), (1) jnt of 2 7/8" 6.5# N-80 EUE 8rd tbg, X nipple (2.313" ID), TIH w/ 2 7/8" 6.5# N-80 EUE 8rd tbg. 84 jnts.		
17:00	0.50	11.50	TRIP	Tag up @ 7629'. Set 20,000lbs on the tag. The tag was moving the last 15' and then stopped. Prep to pressure up on the tag. Std back the last std.		
17:30	0.50	12.00	PTST	Pump down the tbg w/ 17.8 ppg mud. Pumped 3 bbls and pressured up to 1000#. The hole held the pressure at a 1000#. BD.		
18:00	1.00	13.00	TRIP	PU the last std and tag 21' shallow of the last tag. This tag was @ 7609'. Set 20,000lbs on the tag. TOOH to above the liner top @ 6387'.		
19:00	0.50	13.50	GOP	SI tbg, csg and BOPs. Secure mud system.		
19:30	1.00	14.50	SDFN	Secure Well / SDFN / Travel		
20:30	9.50	24.00	SDFN	SDFN		

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)	Prop Run?
										No
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615	No
6/20/2013	Intermediate	4,172.0	26.8	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681	No
7/10/2013	Production	7,322.0	25.2	7	6.184	29.00	P-110	7	6.094	No
8/6/2013	Production	12,063.0	7,144.8	4 1/2	3.920	13.50	P-110	4 1/2	3.826	No

Rods

Rod Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Rod Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Tubing

Tubing Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Report Printed: 9/17/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Completion - Paradox Executive Daily No Costs

Report for: 9/4/2013
Report #: 18

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	8/13/2013 21:00

Operator	Completions Start Date	Completions Finished Date	Well Status
Fidelity E&P			DRLG

Job Category	Job Typ	Job SubTyp	Planned Start Date	Start Date	End Date
Completion	Original	Completion	8/19/2013		

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date

Daily Operations

Report Start Date	Report End Date
9/4/2013 06:00	9/5/2013 06:00

Operations at Report Time
Tag @ 7609', prep to drill, Drlg, circ hole, TOOH to kill depth.

Operations Summary
Tag @ 7609', prep to drill, Drlg, circ hole, TOOH to kill depth.

Operations Next Report Period

Weather	Wellbore
Sunny and Clear	

Daily Contacts

Job Contact	Position	Office
Paul Nicholas	Company Man / WSL	(307) 321-0544

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	1.00	1.00	GOP	Crew travel.		
07:00	0.50	1.50	SMTG	Hold safety meeting and discuss job.		
07:30	1.00	2.50	GOP	SITP- 0# SICP- 0# Open tbg and csg, there was a slight vac on each of them. Ended up a 0# immediately.		
08:30	2.00	4.50	TRIP	TIH and tag up @ 7609'. Circ the hole in reverse and prep to drill.		
10:30	4.00	8.50	CTU	Begin drilling @ 7609'. Pump: Press- 1300# Rate- 1.0 bpm (reverse circ) Swivel- 65 rpm WOB @ 3000lbs. The jnt drilled down in 25 mins @ 1.25 ft/min (31'). PU another jnt of 2 7/8" and cont to drill. Returns: invert Hard to see any solids in the mud. No loss , no gain.		
14:30	0.50	9.00	CTU	Drilling @ 1.0 ft/min @ 7700', wOB @ 2000#, high torque on the string. The drilling has slowed some.		
15:00	2.25	11.25	CTU	Bit @ 7730'. SD to check pump for debris. Clean up the swabs on the pump. Cont to drill @ 7730'.		
17:15	0.75	12.00	CTU	Bit @ 7914', drlg @ 1.25 ft/min, WOB 3000lbs, SD drilling and circ the hole clean @ 1.25 bpm @ 1500#. for 45 min. Daily ftg @ 305'. Returns: (mud) No loss and no gain.		
18:00	1.50	13.50	TRIP	TOOH to kill depth of 7074'. This is above the liner top. Hang of the string in the rig slips. SI tbg, csg and BOPs.		
19:30	1.00	14.50	SDFN	Secure Well / SDFN / Travel		
20:30	9.50	24.00	SDFN	SDFN		

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)	Prop Run?
										No
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615	No
6/20/2013	Intermediate	4,172.0	26.8	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681	No
7/10/2013	Production	7,322.0	25.2	7	6.184	29.00	P-110	7	6.094	No
8/6/2013	Production	12,063.0	7,144.8	4 1/2	3.920	13.50	P-110	4 1/2	3.826	No

Rods

Rod Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Rod Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Tubing

Tubing Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Tubing Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Stimulations & Treatments

Date	Type	String	Wellbore	Stim/Treat Company	StimTreat Supervisor

Report Printed: 9/17/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Completion - Paradox Executive Daily No Costs

Report for: 9/5/2013
Report #: 19

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	8/13/2013 21:00

Operator	Completions Start Date	Completions Finished Date	Well Status
Fidelity E&P			DRLG

Job Category	Job Typ	Job SubTyp	Planned Start Date	Start Date	End Date
Completion	Original	Completion	8/19/2013		

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date

Daily Operations

Report Start Date	Report End Date
9/5/2013 06:00	9/6/2013 06:00

Operations at Report Time
Repair pump, build 17.8 ppg mud, drilling @ 7914 to 8194', circ, TOOH

Operations Summary
Repair pump, build 17.8 ppg mud, drilling @ 7914 to 8194', circ, TOOH.

Operations Next Report Period

Weather	Wellbore
Sunny and Clear	Original Hole

Daily Contacts

Job Contact	Position	Office
Paul Nicholas	Company Man / WSL	(307) 321-0544

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	1.00	1.00	GOP	Crew travel		
07:00	0.50	1.50	SMTG	Hold safety meeting and discuss job.		
07:30	1.00	2.50	GOP	SITP- 0# SICP- 0# Open the tbg and the csg, there was a slight vac on each of them. Ended up @ 0# immediately. Tear into the rig pump. the pump had picked up some solids.		
08:30	5.00	7.50	GOP	Build mud from the mud in the pre-mix tank (18.7 ppg 52 bbls), mud from the rig tank (17.8 ppg, 25 bbls and mud from the storage tank (17.8 ppg, 43 bbls 0. Total mud being prepared is 120 bbls. The mud wt after mixing all the mud together is 18.3 ppg. Add 6 bbls of diesel to lower the wt. The wt dropped to 17.5 ppg, mix 16 sxs of hematite to raise the wt to 18.7 ppg. Condition all of the solids form the mud by running the mud over the shaker.The mud is in great shape @ 17.8 ppg @ 127 bbls.		
13:30	3.00	10.50	CTU	TIH to tag @ 7914'. PU the power swivel and begin drilling. Pump: Pres- 1400# Rate- 1.0 bpm Swivel- 65 rpm WOB- 3000lbs. Mud wt @ 17.8 ppg in and 17.8 ppg out. The jnts are drilling @ 1.25 ft/min. Drilling @ 8101', the (P) rate increased to 2.0 ft/min. Drilled to 8194'. Daily ftg- 280'. No mud gain or loss. The solids recovered look as though they have cmt in them.		
16:30	1.00	11.50	CTU	Reverse circulate to clean the hole for 1 hr @ 1.20 bpm @ 1500#. 17.8 ppg mud in and 17.8 ppg mud out. No mud gain or loss. Returns: 17.8 ppg invert, vanguard and cmt.		
17:30	1.00	12.50	TRIP	LD 8 jnts of 2 7/8" tbg. TOOH to kill depth of 7074'. Ld the tbg in the rig slips.		
18:30	0.50	13.00	GOP	SI the tbg, csg and BOPs. Secure mud system.		
19:00	1.00	14.00	SDFN	Secure Well / SDFN / Travel		
20:00	10.00	24.00	SDFN	SDFN		

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)	Prop Run?
										No
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615	No
6/20/2013	Intermediate	4,172.0	26.8	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681	No
7/10/2013	Production	7,322.0	25.2	7	6.184	29.00	P-110	7	6.094	No
8/6/2013	Production	12,063.0	7,144.8	4 1/2	3.920	13.50	P-110	4 1/2	3.826	No

Rods

Rod Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Rod Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Tubing

Tubing Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Report Printed: 9/17/2013

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Daily Completion - Paradox Executive Daily No Costs

Report for: 9/6/2013
Report #: 20

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	8/13/2013 21:00

Operator	Completions Start Date	Completions Finished Date	Well Status
Fidelity E&P			DRLG

Job Category	Job Typ	Job SubTyp	Planned Start Date	Start Date	End Date
Completion	Original	Completion	8/19/2013		

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date

Daily Operations

Report Start Date	Report End Date
9/6/2013 06:00	9/7/2013 06:00

Operations at Report Time
TIH, drilling to 9043', circ, TOOH.

Operations Summary
TIH, drilling to 9043', circ, TOOH.

Operations Next Report Period

Weather	Wellbore
Sunny and Clear	Original Hole

Daily Contacts

Job Contact	Position	Office
Paul Nicholas	Company Man / WSL	(307) 321-0544

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	1.00	1.00	GOP	Crew travel		
07:00	0.50	1.50	SMTG	Hold safety meeting and discuss job. SITP- 0# SICP- 0# Open the tbg and the csg, slight blow in each of them. They both went to 0# immediately. Prep to TIH and tag.		
07:30	1.75	3.25	TRIP	TIH to tag @ 8194'. PU the power swivel and begin drilling. Pump: Press- 1400# Rate- 1.0 bpm Swivel- 65 RPM WOB- 3000 lbs.Mud Wt: 17.8 ppg in and 17.8 ppg out. The jnts are drilling down @ 2.0 ft/min. Rotating the jnts down in about 12 mins. The (P) rate increased to 2.5 ft/min. Rotated 6 jnts in. Made 252' of hole to 8446'. Returns: invert, vanguard, gas, cmt.		
09:15	2.00	5.25	CTU	Circ bottoms up @ 1.25 bpm @ 1500#. 30 min into the circ the mud was returning with gas in it. Returns wt was cut to as low as 16.5 ppg from 17.8 ppg. Circ out the gas in 1 hr and 30 min. Returns: invert, vanguard, gas and cmt.		
11:15	0.75	6.00	TRIP	Std back the swivel. LD 8 jnts of tbg. TIH to tag @ 8446' with jnts out of the derrick. Cont to slide into the hole to 8698'. Slid 252'. Prep to circ the hole.		
12:00	1.75	7.75	CTU	Circ the hole in reverse. Pump: Press- 1600# Rate- 1.0 bpm (start) mud in @ 17.7 ppg, mud out 2 17.6 ppg. (Finish) Mud in @ 17.7 ppg, mud out @ 17.7 ppg. The returns for about 45 min were cut to 16.9 ppg with gas. Returns: invert, vanguard, gas & cmt. Lost 10 bbls of mud during the circulation.		
13:45	0.75	8.50	TRIP	Rotate into the hole with out pumping, sliding in. TIH 8.5 jnts of tbg. Stacking out with 20,000lbs on the bit @ 8982'.		
14:30	1.75	10.25	CTU	Start to reverse circ the hole @ 8982'. Cont to rotate into the hole. Rotate down 4 jnts. Pushing debris in front of the bit. Bit @ 9043'. Daily ftg- 849'.		
16:15	1.50	11.75	CTU	Reverse circ the hole @ 1.2 bpm @ 1500# for 1.5 hrs. Returns: invert, vanguard, gas and cmt. Lost 10 bbls of mud during the circulation. the hole seems to be standing after the pump is SD.		
17:45	1.25	13.00	TRIP	LD 4 jnts of tbg. TOOH and std back the rest of the tbg in the derrick. TOOH to kill depth of 7045'. SO tbg, csg and BOPs. Secure mud system.		
19:00	1.00	14.00	SDFN	Secure Well / SDFN / Travel		
20:00	10.00	24.00	SDFN	SDFN		

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)	Prop Run?
										No
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615	No
6/20/2013	Intermediate	4,172.0	26.8	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681	No
7/10/2013	Production	7,322.0	25.2	7	6.184	29.00	P-110	7	6.094	No
8/6/2013	Production	12,063.0	7,144.8	4 1/2	3.920	13.50	P-110	4 1/2	3.826	No

Report Printed: 9/17/2013

FIDELITY Exploration & Production Company
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Daily Completion - Paradox Executive Daily No Costs

Report for: 9/7/2013
Report #: 21

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	8/13/2013 21:00

Operator	Completions Start Date	Completions Finished Date	Well Status
Fidelity E&P			DRLG

Job Category	Job Typ	Job SubTyp	Planned Start Date	Start Date	End Date
Completion	Original	Completion	8/19/2013		

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date

Daily Operations

Report Start Date	Report End Date
9/7/2013 06:00	9/8/2013 06:00

Operations at Report Time
TIH, drilling to 9641, circ, TOOH.

Operations Summary
TIH, drilling to 9641', circ, TOOH

Operations Next Report Period

Weather	Wellbore
Sunny and Clear	

Daily Contacts

Job Contact	Position	Office
Paul Nicholas	Company Man / WSL	(307) 321-0544

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	1.00	1.00	GOP	Crew travel		
07:00	1.00	2.00	SMTG	Hold safety meeting and discuss job. SITP- 0# SICP- 0# Open the tbg and the csg, there was a slight vac on each of them. Ended up @ 0# immediately. Change out the Washington head rubber. Prep to TIH.		
08:00	3.00	5.00	TRIP	TIH to tag @ 9043'. PU the power swivel and begin drilling. Pump: Press- 1500# Rate- 1.0 bpm Swivel- 60 rpm WOB- 2500lbs. Mud Wt: 17.6 ppg in and 17.7 ppg out. The jnts are drilling @ 1.25 ft/min. Rotating the jnts down in about 25 min. Rotate 8 jnts in. MAde 252' of hole to 9296'. Returns: invert. vanguard, and cmt. No gas at this time.		
11:00	1.00	6.00	CTU	Circ bottoms up @ 1.25 bpm @ 1600# Returns: invert, vanguard, cmt and some gas. Return wt @ 17.5 ppg. Circ a total of 1 hr.		
12:00	3.50	9.50	CTU	Std back the swivel. LD 8 jnts of 2 7/8" tbg. TIH a tag up @ 9296'. Cont to rotate the jnts in the hole, 1 jnt at a time. Change out the Washington head rubber @ 9390'. Cont to rotate the jnts in the hole.Pump: Press- 1500# Rte- 1.0 bpm Swivel- 60 rpm WOB- 2500lbs. Drill to: Bit@ 9641'. Daily Ftg- 598'.		
15:30	1.50	11.00	CTU	Circ the hole in reverse. Pump: Press- 1600# Rate- 1.0 bpm (Start) Mud in @ 17.5 ppg Mud out @ 17.4 ppg. Circ 1.5 hrs. (Finish) Mud in @ 17.6 ppg Mud out @ 17.6 ppg Returns: invert, vanguard, cmt and a slight show of gas. Lost 10 bbls of the invert during the day while circ the hole.		
17:00	1.00	12.00	TRIP	LD 11 jnts of tbg. TOOH and std back tbg in the derrick. TOOH to kill depth of 7045'.		
18:00	0.50	12.50	GOP	SI tbg, csg and BOPs. Secure mud system.		
18:30	1.00	13.50	SDFN	Secure Well / SDFN / Travel		
19:30	10.50	24.00	SDFN	SDFN		

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)	Prop Run?
										No
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615	No
6/20/2013	Intermediate	4,172.0	26.8	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681	No
7/10/2013	Production	7,322.0	25.2	7	6.184	29.00	P-110	7	6.094	No
8/6/2013	Production	12,063.0	7,144.8	4 1/2	3.920	13.50	P-110	4 1/2	3.826	No

Rods

Rod Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Rod Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Tubing

Tubing Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Report Printed: 9/17/2013

FIDELITY
Exploration & Production Company
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Daily Completion - Paradox Executive Daily No Costs

Report for: 9/8/2013
Report #: 22

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	8/13/2013 21:00

Operator	Completions Start Date	Completions Finished Date	Well Status
Fidelity E&P			DRLG

Job Category	Job Typ	Job SubTyp	Planned Start Date	Start Date	End Date
Completion	Original	Completion	8/19/2013		

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date

Daily Operations

Report Start Date	Report End Date
9/8/2013 06:00	9/9/2013 06:00

Operations at Report Time
TIH, drilling to 11,265', circ, TOOH to kill depth.

Operations Summary
TIH, drilling to 11,265', circ, OOH to kill depth.

Operations Next Report Period

Weather	Wellbore
Rain	Original Hole

Daily Contacts

Job Contact	Position	Office
Paul Nicholas	Company Man / WSL	(307) 321-0544

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	1.00	1.00	GOP	Crew travel		
07:00	0.50	1.50	SMTG	Hold safety meeting and discuss job. SITP- 0# SICP- 0# Open the tbg and the csg, there was a slight vac on each of them. Ended up at 0# immediately.		
07:30	2.00	3.50	TRIP	Tlh to tag @ 9641'. Cont to TIH and slide 41 jnts of tbg. The last std took some wt and took some push to get into the hole.. Bit @ 10,923'. Slid 1,282'. Prep to circ the hole.		
09:30	3.25	6.75	CTU	Circ the hole in reverse. Pump: Pres- 1700# Rate- 1.0 bpm (Start) Mud in- 17.6 ppg Mud out- 17.7 ppg. Returns: invert, vanguard, cmt and a show of gas. The gas is breaking out of the mud in the pre-mix tank. Circ the hole until the gas is circ out. (Finish) 17.8 ppg mud in, 17.8 ppg mud out. N0 gas in the mud at this time.		
12:45	1.75	8.50	CTU	PU the power swivel. Begin to rotate the jnts in the hole @ 10,923'. Pump: Pres- 1500# Rate- 1.0 bpm Swivel- 60 rpm WOB- 2500lbs. Returns: invert, vanguard, cmt and some gas. Rotate in 11 jnts of tbg to 11,265' Bit @ 11,265' Daily Ftg- 1,624'.		
14:30	1.50	10.00	CTU	Circ the hole in reverse. Pump- 1600# Rate- 1.0 bpm (Start) Mud in- 17.5 ppg Mud out- 17.4 ppg. Circ the well for 1.50 hrs. (Finish) 17.6 ppg in, 17.6 ppg out. Returns: invert, vanguard, cmt and a slight show of gas. Lost 5 bbls of invert during the circulation.		
16:00	1.50	11.50	TRIP	LD 11 jnts of tbg. TOOH and std back tbg in the derrick. TOOH to kill depth of 7,045'.		
17:30	0.50	12.00	GOP	SI tbg, csg and BOPs. Secure mud system.		
18:00	1.00	13.00	SDFN	Secure Well / SDFN / Travel		
19:00	11.00	24.00	SDFN	SDFN		

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)	Prop Run?
										No
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615	No
6/20/2013	Intermediate	4,172.0	26.8	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681	No
7/10/2013	Production	7,322.0	25.2	7	6.184	29.00	P-110	7	6.094	No
8/6/2013	Production	12,063.0	7,144.8	4 1/2	3.920	13.50	P-110	4 1/2	3.826	No

Rods

Rod Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Rod Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Tubing

Tubing Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Report Printed: 9/17/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Completion - Paradox Executive Daily No Costs

Report for: 9/9/2013
Report #: 23

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	8/13/2013 21:00

Operator	Completions Start Date	Completions Finished Date	Well Status
Fidelity E&P			DRLG

Job Category	Job Typ	Job SubTyp	Planned Start Date	Start Date	End Date
Completion	Original	Completion	8/19/2013		

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date

Daily Operations

Report Start Date	Report End Date
9/9/2013 06:00	9/10/2013 06:00

Operations at Report Time
TIH, drilling to 12,023', circ, TOOH

Operations Summary
TIH, driling to 12,023', circ, TOOH

Operations Next Report Period

Weather	Wellbore
Rain	Original Hole

Daily Contacts

Job Contact	Position	Office
Paul Nicholas	Company Man / WSL	(307) 321-0544

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	1.00	1.00	GOP	Crew travel		
07:00	0.50	1.50	SMTG	Hold safety meeting and discuss job. SITP- 0# SICP- 0#		
07:30	1.50	3.00	TRIP	TIH TO TAG @ 11,265', no tag. Cont to slide in 6 jnts to 11,453'. Slid 188'. Prep to circ the hole		
09:00	2.00	5.00	CTU	PU the power swivel and rotate in the jnts. Rotate in 11 jnts to 11,705'.		
11:00	1.00	6.00	CTU	Reverse circ the hole: Pump: Press 1600# Rate- 1.0 bpm Mud in- 17.5 ppg, Mud out- 17.4 ppg REturns: invert, vanguard, cmt and some gas. Losing mud while circ the hole, lost 20 bbls		
12:00	2.00	8.00	GOP	Transfer mud from the rig tank to the pre-mix tank. Run the mud over the shaker to clean the mud. Pumped 92 bbls over the shaker. The mud in the pre-mix tank is at 17.7 ppg.		
14:00	1.50	9.50	TRIP	TOOH 11 jnts to drill with. TIH the 14 jnts in the derrick. PU 8 jnts and tag up @ 12,023'. Tagged up on the landing collar.		
15:30	1.00	10.50	CTU	Reverse circ the hole. Pump: Press- 1200# Rate- 1.3 bpm Mud wt- 17.7 ppg Pumped for 20 min. The returns are diminishing and lost 15 bbls of mud. SD circulation. The plug is not holding.		
16:30	1.50	12.00	TRIP	TOOH to kill depth of 7045'. SI tbg,csg and BOPs. Secure mud system.		
18:00	1.00	13.00	SDFN	Secure Well / SDFN / Travel		
19:00	11.00	24.00	SDFN	SDFN		

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)	Prop Run?
										No
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615	No
6/20/2013	Intermediate	4,172.0	26.8	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681	No
7/10/2013	Production	7,322.0	25.2	7	6.184	29.00	P-110	7	6.094	No
8/6/2013	Production	12,063.0	7,144.8	4 1/2	3.920	13.50	P-110	4 1/2	3.826	No

Rods

Rod Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Rod Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Tubing

Tubing Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Tubing Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Stimulations & Treatments

Date	Type	String	Wellbore	Stim/Treat Company	StimTreat Supervisor

Report Printed: 9/17/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Completion - Paradox Executive Daily No Costs

Report for: 9/10/2013
Report #: 24

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	8/13/2013 21:00

Operator	Completions Start Date	Completions Finished Date	Well Status
Fidelity E&P			DRLG

Job Category	Job Typ	Job SubTyp	Planned Start Date	Start Date	End Date
Completion	Original	Completion	8/19/2013		

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date

Daily Operations

Report Start Date	Report End Date
9/10/2013 06:00	9/11/2013 06:00

Operations at Report Time
TOOH, fill hole, TIH 1st plug, set @ 12,019', press test, circ hole.

Operations Summary
TOOH, fill hole, TIH 1st plug, set @ 12,019', press test, circ hole.

Operations Next Report Period

Weather	Wellbore
Rain	Original Hole

Daily Contacts

Job Contact	Position	Office
Paul Nicholas	Company Man / WSL	(307) 321-0544

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	1.00	1.00	GOP	Crew travel		
07:00	0.50	1.50	SMTG	Hold safety meeting and discuss job. SITP- 0# SICP- 0# Open the tbg and the csg, there was a slight vac on each of them.		
07:30	3.50	5.00	TRIP	TOOH with the 4 1/2" csg scraper assembly. Std back everything in the derrick. LD the 4 1/2" scraper assembly.		
11:00	1.00	6.00	GOP	Prep to TIH the 1st Copper Head 10,000# plug.		
12:00	4.00	10.00	TRIP	TIh the 1st plug as follows: Smith 4 1/2" 10,000# Copper Head plug, Baker hydraulic setting tool, Xover, (1) jnt of 2 3/8" 4.7# N-80 EUE 8rd tbg, Xnipple (1.875" ID), (87) jnts of 2 3/8" 4.7# N-80 EUE 8rd tbg, Xover, (69) jnts of 2 3/8" 5.95# P-110 WTS tbg, Xovers, (1) jnt of 2 7/8" 6.5# N-80 EUE 8rd tbg, X nipple (2.313"ID), (255) jnts of 6.5# N-80 EUE 8rd tbg. The plug is at 12,019'.		
16:00	1.50	11.50	GOP	Drop the ball and pump to set the CH plug. Pumped 67 bbls of mud to seat the ball. Pumped the tbg up to 3500# to set the plug. The plug is set @ 12,019'. LD 1 jnt of tbg.		
17:30	1.50	13.00	GOP	Circ the hole for 5 mins down the tbg and up the csg. SI the tbg and the csg. Pressure test down the tbg to test the plug. Unable to keep good communications from the tbg to the csg. Tbg@1500#, csg @ 700#. Switch to pressure test the csg. Pressure up the csg to 1500# to test the plug, the tbg is at 500#. Held the pressure for 15 min, god test. Release the pressure form the tbg and csg. Pump in reverse from the csg to the tbg. Unable to reverse circ the well, switch to the tbg. Pump from the tbg to the csg. Good returns pumping down the tbg and up the csg. BD the tbg and the csg to 0#.		
19:00	0.50	13.50	GOP	SI the tbg, csg and BOPs. Secure the mud system.		
19:30	1.00	14.50	SDFN	Secure Well / SDFN / Travel		
20:30	9.50	24.00	SDFN	SDFN		

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)	Prop Run?
										No
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615	No
6/20/2013	Intermediate	4,172.0	26.8	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681	No
7/10/2013	Production	7,322.0	25.2	7	6.184	29.00	P-110	7	6.094	No
8/6/2013	Production	12,063.0	7,144.8	4 1/2	3.920	13.50	P-110	4 1/2	3.826	No

Rods

Rod Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Rod Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Tubing

Tubing Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Report Printed: 9/17/2013

FIDELITY Exploration & Production Company
An MDU Resources Group company

Daily Completion - Paradox Executive Daily No Costs

Report for: 9/11/2013
Report #: 25

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	8/13/2013 21:00

Operator	Completions Start Date	Completions Finished Date	Well Status
Fidelity E&P			DRLG

Job Category	Job Typ	Job SubTyp	Planned Start Date	Start Date	End Date
Completion	Original	Completion	8/19/2013		

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date

Daily Operations

Report Start Date	Report End Date
9/11/2013 06:00	9/12/2013 06:00

Operations at Report Time
Swab, TOOH, TIH 2nd plug, set plug, pull and release from plug, LD tbg.

Operations Summary
Swab, TOOH, TIH 2nd plug, set plug, pull and release from plug, LD tbg.

Operations Next Report Period

Weather	Wellbore
Sunny and Clear	Original Hole

Daily Contacts

Job Contact	Position	Office
Paul Nicholas	Company Man / WSL	(307) 321-0544

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	1.00	1.00	GOP	Crew travel		
07:00	0.50	1.50	SMTG	Hold safety meeting and discuss job.SITP- 0# SICP- 0# Open the tbg and the csg.		
07:30	2.00	3.50	GOP	PU swab. Swab the tbg down to 1700', pulling 300' at a time. Make 6 swab runs. RD swab.		
09:30	0.50	4.00	GOP	Prep to TOOH w/ 1st setting tool.		
10:00	4.00	8.00	TRIP	TOOH the 1st setting tool. The tbg is draining during the TOOH. LD the setting tools. PU the 2nd Copper Head and setting tools, prep to TIH.		
14:00	3.50	11.50	TRIP	TIH the 2nd plug and setting tools as follows: 2nd Smith 4 1/2" 10,000# Copper Head plug, Baker hydraulic setting tools, Xover, (1) jnt of 2 3/8" 4.7# N-80 EUE 8rd tbg, X nipple (1.875" ID), (87) jnts of 2 3/8" 4.7# N-80 EUE 8rd tbg, Xover, (69) jnts of 2 3/8" 5.95# P-110 WTS tbg, X over, (1) jnt of 2 7/8" 6.5# N-80 EUE 8rd tbg, X nipple (2.313" ID), (225) jnts of 2 7/8" 6.5# N-80 EUE 8rd tbg, (2) 10' X 2 7/8" N-80 pups. The plug is at 11,996'.		
17:30	1.50	13.00	GOP	Drop the ball and pump 67 bbls of 17.7ppg invert mud to set the plug with the hydraulic setting tool. Pumped up to 4000# on the tools twice to set and release the plug. Unable to release the plug with pressure. The plug set at 11,996'. This is 10' in front of plug #1. Pull 95,000lbs twice on the tbg to release from the plug. Unable to release. Singled back the rig. Pulled 105,000lbs on the string and the tools released from the plug. LD 1 jnt of 2 7/8" tbg and the 2 pups. Ld the tbg in the rig slips.		
19:00	0.50	13.50	GOP	SI the tbg, csg and BOPs. Secure the mud system.		
19:30	1.00	14.50	SDFN	Secure Well / SDFN / Travel		
20:30	9.50	24.00	SDFN	SDFN		

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)	Prop Run?
										No
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615	No
6/20/2013	Intermediate	4,172.0	26.8	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681	No
7/10/2013	Production	7,322.0	25.2	7	6.184	29.00	P-110	7	6.094	No
8/6/2013	Production	12,063.0	7,144.8	4 1/2	3.920	13.50	P-110	4 1/2	3.826	No

Rods

Rod Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Rod Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Tubing

Tubing Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Report Printed: 9/17/2013

FIDELITY Exploration & Production Company
An MDU Resources Group company

Daily Completion - Paradox Executive Daily No Costs

Report for: 9/12/2013
Report #: 26

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	8/13/2013 21:00

Operator	Completions Start Date	Completions Finished Date	Well Status
Fidelity E&P			DRLG

Job Category	Job Typ	Job SubTyp	Planned Start Date	Start Date	End Date
Completion	Original	Completion	8/19/2013		

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date

Daily Operations

Report Start Date	Report End Date
9/12/2013 06:00	9/13/2013 06:00

Operations at Report Time
Swab, TOOH, TIH circ string.

Operations Summary
Swab, TOOH, TIH circ string.

Operations Next Report Period

Weather	Wellbore
Sunny and Clear	Original Hole

Daily Contacts

Job Contact	Position	Office
Paul Nicholas	Company Man / WSL	(307) 321-0544

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	1.00	1.00	GOP	Crew travel		
07:00	0.50	1.50	SMTG	Hold safety meeting and discuss job. SITP- 0# SICP- 0# Open tbg and csg.		
07:30	1.00	2.50	SWAB	PU swab. Swab the tbg down to 1500', pulling 300' at a time. Make 5 swab runs. RD swab.		
08:30	0.50	3.00	GOP	Prep to TOOH w/ 2nd setting tools.		
09:00	4.50	7.50	TRIP	TOOH the 2nd setting tools. The tbg is draining during the TOOH. LD the setting tools. Prep to TIH the circ string.		
13:30	2.50	10.00	TRIP	TIH circ string as follows: 2 3/8" notched collar, (1) jnt of 2 3/8" 4.7# N-80 EUE 8rd tbg, X nipple (1.875" ID), (87) jnts of 2 3/8" 4.7# N-80 EUE 8rd tbg, Xover, (69) jnts of 2 3/8" 5.95# P-110 WTS tbg, Xover, (1) jnt of 2 7/8" 6.5# N-80 EUE 8rd tbg, X nipple (2.313" ID), 72 jnts of 2 7/8" 6.5# N-80 EUE 8rd tbg. Ld the tbg in the rig slips, EOT @ 7103'. SI tbg, csg and BOPs. Secure the mud system. Hauled 130 bbls of 17.7 ppg invert to the drilling rig during the day.		
16:00	1.00	11.00	GOP	Work on rig pump and repair swabs.		
17:00	1.00	12.00	SDFN	Secure Well / SDFN / Travel		
18:00	12.00	24.00	SDFN	SDFN		

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)	Prop Run?
										No
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615	No
6/20/2013	Intermediate	4,172.0	26.8	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681	No
7/10/2013	Production	7,322.0	25.2	7	6.184	29.00	P-110	7	6.094	No
8/6/2013	Production	12,063.0	7,144.8	4 1/2	3.920	13.50	P-110	4 1/2	3.826	No

Rods

Rod Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Rod Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Tubing

Tubing Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Tubing Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Stimulations & Treatments

Date	Type	String	Wellbore	Stim/Treat Company	StimTreat Supervisor

Stim/Treat Fluids

Fluid Name	Fluid Type	Dens Fluid (°A...	pH	Filter Size (in)	Description

Report Printed: 9/17/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Completion - Paradox Executive Daily No Costs

Report for: 9/13/2013
Report #: 27

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	8/13/2013 21:00

Operator	Completions Start Date	Completions Finished Date	Well Status
Fidelity E&P			DRLG

Job Category	Job Typ	Job SubTyp	Planned Start Date	Start Date	End Date
Completion	Original	Completion	8/19/2013		

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date

Daily Operations

Report Start Date	Report End Date
9/13/2013 06:00	9/14/2013 06:00

Operations at Report Time
Cont TOOH, circ out mud, swab, work on VSP

Operations Summary
Cont TOOH, circ out mud, swab, work on VSP

Operations Next Report Period

Weather	Wellbore
Sunny and Clear	Original Hole

Daily Contacts

Job Contact	Position	Office
Paul Nicholas	Company Man / WSL	(307) 321-0544

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	1.00	1.00	GOP	Crew travel		
07:00	0.50	1.50	SMTG	Hold safety meeting and discuss job. SITP- 0# SICP- 0# Open tbg and csg.		
07:30	3.00	4.50	TRIP	Cont to TIH w/ circ string. TIH to 12,989'. Ld the tbg in the slips. SI the pipe rams. The VSP crew is working on equip.		
10:30	6.00	10.50	CTU	Begin to circ out the invert w/ 11.6 ppg CACL water as follows: 20 bbls of red dye diesel, followed by CACL water. Try to maintain 1.0 bpm to 0.75 bpm rate. Pumped 277 bbls of CACL water & 20 bbls of diesel, a total of 297 bbls. At this time the returns turned to mud, diesel and water. Switch tanks and cont to circ the hole clean. SD circ the well. Pumped: 20 bbls of diesel & 295 bbls of 11.6 ppg CACL water. Saved 295 bbls of invert mud. Pump: Max Press- 3850# Avg Press- 2200# Max rate- 1.25 bpm Avg Rate- 0.75 bpm.		
16:30	2.50	13.00	SWAB	PU swab. Swab down the tbg, recover 32 bbls of water. Bring the fluid level down to 1500' for the logs. SI tbg, csg and BOPs.		
19:00	1.00	14.00	SDFN	Secure Well / SDFN / Travel		
20:00	10.00	24.00	SDFN	SDFN		

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)	Prop Run?
										No
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615	No
6/20/2013	Intermediate	4,172.0	26.8	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681	No
7/10/2013	Production	7,322.0	25.2	7	6.184	29.00	P-110	7	6.094	No
8/6/2013	Production	12,063.0	7,144.8	4 1/2	3.920	13.50	P-110	4 1/2	3.826	No

Rods

Rod Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Rod Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Tubing

Tubing Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Tubing Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Stimulations & Treatments

Date	Type	String	Wellbore	Stim/Treat Company	StimTreat Supervisor

Stim/Treat Fluids

Fluid Name	Fluid Type	Dens Fluid (°A...	pH	Filter Size (in)	Description

Report Printed: 9/17/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Completion - Paradox Executive Daily No Costs

Report for: 9/14/2013
Report #: 28

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	8/13/2013 21:00

Operator	Completions Start Date	Completions Finished Date	Well Status
Fidelity E&P			DRLG

Job Category	Job Typ	Job SubTyp	Planned Start Date	Start Date	End Date
Completion	Original	Completion	8/19/2013		

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date

Daily Operations

Report Start Date	Report End Date
9/14/2013 06:00	9/15/2013 06:00

Operations at Report Time
TOOH w/ circ string, prep VSP, RIH VSP tools, prep tools.

Operations Summary
TOOH w/ circ string, prep VSP, RIH VSP tools, prep tools.

Operations Next Report Period

Weather	Wellbore
Rain	Original Hole

Daily Contacts

Job Contact	Position	Office
Paul Nicholas	Company Man / WSL	(307) 321-0544

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	1.00	1.00	GOP	Crew travel		
07:00	0.50	1.50	SMTG	Hold safety meeting and discuss job. SOTP- 0# SICP- 0# Open tbg and csg.		
07:30	4.50	6.00	TRIP	TOOH w/ circ string. Std back the tbg in the derrick.		
12:00	1.00	7.00	NIPUP	ND the Washington head. NU the loggers pack off flange. Prep to runs tools.		
13:00	5.00	12.00	GOP	RIH the VSP logging tools. SEt up the tools in the hole at the surface. Prep the tools.		
18:00	1.00	13.00	SDFN	Secure Well / SDFN / Travel		
19:00	11.00	24.00	SDFN	SDFN		

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)	Prop Run?
										No
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615	No
6/20/2013	Intermediate	4,172.0	26.8	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681	No
7/10/2013	Production	7,322.0	25.2	7	6.184	29.00	P-110	7	6.094	No
8/6/2013	Production	12,063.0	7,144.8	4 1/2	3.920	13.50	P-110	4 1/2	3.826	No

Rods

Rod Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Rod Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Tubing

Tubing Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Tubing Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Stimulations & Treatments

Date	Type	String	Wellbore	Stim/Treat Company	StimTreat Supervisor

Stim/Treat Fluids

Fluid Name	Fluid Type	Dens Fluid (°A...	pH	Filter Size (in)	Description

Fluid Additives

Additive	Amount	Units	Concentration (%)

Report Printed: 9/17/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Completion - Paradox Executive Daily No Costs

Report for: 9/15/2013
Report #: 29

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	8/13/2013 21:00

Operator	Completions Start Date	Completions Finished Date	Well Status
Fidelity E&P			DRLG

Job Category	Job Typ	Job SubTyp	Planned Start Date	Start Date	End Date
Completion	Original	Completion	8/19/2013		

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date

Daily Operations

Report Start Date	Report End Date
9/15/2013 06:00	9/16/2013 06:00

Operations at Report Time
Run VSP Imaging Logs, ROOH w/ logs, RD loggers.

Operations Summary
Run VSP Imaging Logs, ROOH w/ logs, RD loggers.

Operations Next Report Period

Weather	Wellbore
Sunny and Clear	Original Hole

Daily Contacts

Job Contact	Position	Office
Paul Nicholas	Company Man / WSL	(307) 321-0544

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	1.00	1.00	GOP	Crew travel		
07:00	0.50	1.50	SMTG	Hold safety meeting and discuss job. SITP- 0# SICP- 0# Open the tbg and csg.		
07:30	9.50	11.00	LOGG	Run the Reservoir Imaging VSP imaging logs. Work with the vibrator on and off location. Logs are finished.		
17:00	1.50	12.50	GOP	ROOH w/ tools. RD Reservoir Imaging and release.		
18:30	1.00	13.50	SDFN	Secure Well / SDFN / Travel		
19:30	10.50	24.00	SDFN	SDFN		

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)	Prop Run?
										No
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615	No
6/20/2013	Intermediate	4,172.0	26.8	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681	No
7/10/2013	Production	7,322.0	25.2	7	6.184	29.00	P-110	7	6.094	No
8/6/2013	Production	12,063.0	7,144.8	4 1/2	3.920	13.50	P-110	4 1/2	3.826	No

Rods

Rod Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Rod Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Tubing

Tubing Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Tubing Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Stimulations & Treatments

Date	Type	String	Wellbore	Stim/Treat Company	StimTreat Supervisor

Stim/Treat Fluids

Fluid Name	Fluid Type	Dens Fluid (°A...	pH	Filter Size (in)	Description

Fluid Additives

Additive	Amount	Units	Concentration (%)

Stim/Treat Stages

Stage Type	Stg #	Start Date	End Date	Top (ftKB)	Btm (ftKB)	Stim/Treat Fluid	Vol Clean Pu...	Vol Slurry (bbl)

Initial Fluid Rate (gpm)	Initial Rate Bottom Hole (gpm)	Tubing Pressure Start (psi)	Casing Pressure Start (psi)	Bottom Hole Pressure Start (psi)

Final Fluid Rate (gpm)	Final Rate Bottom Hole (gpm)	Pressure Tubing End (psi)	Casing Pressure End (psi)	Pressure BH End (psi)

Report Printed: 9/17/2013

FIDELITY
Exploration & Production Company
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Daily Completion - Paradox Executive Daily No Costs

Report for: 9/16/2013
Report #: 30

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	8/13/2013 21:00

Operator	Completions Start Date	Completions Finished Date	Well Status
Fidelity E&P			DRLG

Job Category	Job Typ	Job SubTyp	Planned Start Date	Start Date	End Date
Completion	Original	Completion	8/19/2013		

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date

Daily Operations

Report Start Date	Report End Date
9/16/2013 06:00	9/17/2013 06:00

Operations at Report Time
TIH w/ circ string @ 11,985', clean up rig and tanks.

Operations Summary
TIH w/ circ string @ 11,985', clean up rig and tanks.

Operations Next Report Period

Weather	Wellbore
Sunny and Clear	Original Hole

Daily Contacts

Job Contact	Position	Office
Paul Nicholas	Company Man / WSL	(307) 321-0544

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)	Prop Run?
										No
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615	No
6/20/2013	Intermediate	4,172.0	26.8	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681	No
7/10/2013	Production	7,322.0	25.2	7	6.184	29.00	P-110	7	6.094	No
8/6/2013	Production	12,063.0	7,144.8	4 1/2	3.920	13.50	P-110	4 1/2	3.826	No

Rods

Rod Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Rod Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Tubing

Tubing Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Tubing Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Stimulations & Treatments

Date	Type	String	Wellbore	Stim/Treat Company	StimTreat Supervisor

Stim/Treat Fluids

Fluid Name	Fluid Type	Dens Fluid (°A...	pH	Filter Size (in)	Description

Fluid Additives

Additive	Amount	Units	Concentration (%)

Stim/Treat Stages

Stage Type	Stg #	Start Date	End Date	Top (ftKB)	Btm (ftKB)	Stim/Treat Fluid	Vol Clean Pu...	Vol Slurry (bbl)

Initial Fluid Rate (gpm)	Initial Rate Bottom Hole (gpm)	Tubing Pressure Start (psi)	Casing Pressure Start (psi)	Bottom Hole Pressure Start (psi)
Final Fluid Rate (gpm)	Final Rate Bottom Hole (gpm)	Pressure Tubing End (psi)	Casing Pressure End (psi)	Pressure BH End (psi)

Stim/Treat Additives

Additive	Type	Amount	Units	Sand Size	Conc (lb/gal)	Conc BH (lb/gal)

Perforations

Date	Type	Top (ftKB)	Btm (ftKB)	Wellbore	Zone	Shot...	Ente...	String Perforated

Perforation Statuses

Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Status

Report Printed: 9/17/2013

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Daily Completion - Paradox Executive Daily No Costs

Report for: 9/17/2013
Report #: 31

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	8/13/2013 21:00

Operator	Completions Start Date	Completions Finished Date	Well Status
Fidelity E&P			WOC

Job Category	Job Typ	Job SubTyp	Planned Start Date	Start Date	End Date
Completion	Original	Completion	8/19/2013	8/18/2013	

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date

Daily Operations

Report Start Date	Report End Date
9/17/2013 06:00	9/18/2013 06:00

Operations at Report Time
Circ in diesel, clean up equip, TOOH 2 7/8" tbg

Operations Summary
Circ in diesel, clean up equip, TOOH 2 7/8" tbg.

Operations Next Report Period

Weather	Wellbore
Sunny and Clear	Original Hole

Daily Contacts

Job Contact	Position	Office
Paul Nicholas	Company Man / WSL	(307) 321-0544

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	1.00	1.00	GOP	Crew travel.		
07:00	0.50	1.50	SMTG	Hold safety meeting and discuss job. SITP- 0# SICP- 0# Open the tbg and the csg. MI Onsite fir safety crew and equip.		
07:30	1.00	2.50	GOP	Prep to circ out the 11.6 ppg CACL water w/ red dye diesel.		
08:30	5.25	7.75	CTU	MI Badger and a hotsy crew. Clean up the pre-mix tank, equip and around the wellhead. Circ out the 11.6 ppg CACL water with #2 red dye diesel. Displace the hole completely with diesel. Have the fire safety crew and equip in place for security on the well. Pump: Press- 1500# Rate- 1.5 bpm Max Press- 2100# Avg Press- 1800# Max Rate- 1.75 bpm Avg Rate- 2.0 bpm. Pumped 315 bbls of diesel. Recovered 31 bbls of 11.6 ppg CACL water. Baker TCP guns are on location.		
13:45	0.75	8.50	GOP	Finish washing up the rig and around the wellhead.		
14:30	3.00	11.50	TRIP	TOOH w/ circ string. LD 22 jnts of 2 7/8" N-80 EUE 8rd tbg (total 27 out). Std back 222 jnts of 2 7/8" tbg. Ld the tbg in the rig slips. SI tbg, csg and BOPs.		
17:30	1.00	12.50	SDFN	Secure Well / SDFN / Travel		
18:30	11.50	24.00	SDFN	SDFN		

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)	Prop Run?
										No
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615	No
6/20/2013	Intermediate	4,172.0	26.8	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681	No
7/10/2013	Production	7,322.0	25.2	7	6.184	29.00	P-110	7	6.094	No
8/6/2013	Production	12,063.0	7,144.8	4 1/2	3.920	13.50	P-110	4 1/2	3.826	No

Rods

Rod Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Rod Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Tubing

Tubing Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Tubing Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Stimulations & Treatments

Date	Type	String	Wellbore	Stim/Treat Company	StimTreat Supervisor

Stim/Treat Fluids

Fluid Name	Fluid Type	Dens Fluid (°A...	pH	Filter Size (in)	Description

Report Printed: 9/23/2013

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Daily Completion - Paradox Executive Daily No Costs

Report for: 9/18/2013
Report #: 32

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	8/13/2013 21:00

Operator	Completions Start Date	Completions Finished Date	Well Status
Fidelity E&P			WOC

Job Category	Job Typ	Job SubTyp	Planned Start Date	Start Date	End Date
Completion	Original	Completion	8/19/2013	8/18/2013	

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date

Daily Operations

Report Start Date	Report End Date
9/18/2013 06:00	9/19/2013 06:00

Operations at Report Time
TOOH w/ circ string, prep guns, TIH 3 1/8" TCP guns, hang off in slips.

Operations Summary
TOOH w/ circ string, prep guns, TIH 3 1/8" TCP guns, hang off in slips.

Operations Next Report Period

Weather	Wellbore
Sunny and Clear	Original Hole

Daily Contacts

Job Contact	Position	Office
Paul Nicholas	Company Man / WSL	(307) 321-0544

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	1.00	1.00	GOP	Crew travel		
07:00	0.50	1.50	SMTG	Hold safety meeting and discuss job. SITP- 0# SICP- 0# Open tbg and csg.		
07:30	3.50	5.00	TRIP	Cont to TOOH w/ circ string. LD all of the 2 3/8" WTS tbg. LD 48 jnts of the 2 3/8" 4.7$ N-80 EUE 8rd tbg. Std back 40 jnts of 2 3/8" EUE tbg. MI and spot all of the flowback equip.		
11:00	1.50	6.50	GOP	MI all 204 TCP guns and rack on the rig racks. Prep the guns to RIH. NU the flowback equip.		
12:30	5.50	12.00	CTTCP	RIH the Baker 3 1/8" TCP guns, 204 guns and blanks. Hang off the guns in the rig slips with a Xover and 1 jnt of 2 7/8" tbg.		
18:00	0.50	12.50	GOP	SI tbg, csg and BOPs.		
18:30	1.00	13.50	SDFN	Secure Well / SDFN / Travel		
19:30	10.50	24.00	SDFN	SDFN		

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)	Prop Run?
										No
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615	No
6/20/2013	Intermediate	4,172.0	26.8	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681	No
7/10/2013	Production	7,322.0	25.2	7	6.184	29.00	P-110	7	6.094	No
8/6/2013	Production	12,063.0	7,144.8	4 1/2	3.920	13.50	P-110	4 1/2	3.826	No

Rods

Rod Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Rod Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Tubing

Tubing Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Tubing Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Stimulations & Treatments

Date	Type	String	Wellbore	Stim/Treat Company	StimTreat Supervisor

Stim/Treat Fluids

Fluid Name	Fluid Type	Dens Fluid (°A...	pH	Filter Size (in)	Description

Fluid Additives

Additive	Amount	Units	Concentration (%)

Report Printed: 9/23/2013

FIDELITY
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Daily Completion - Paradox Executive Daily No Costs

Report for: 9/19/2013
Report #: 33

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	8/13/2013 21:00

Operator	Completions Start Date	Completions Finished Date	Well Status
Fidelity E&P			WOC

Job Category	Job Typ	Job SubTyp	Planned Start Date	Start Date	End Date
Completion	Original	Completion	8/19/2013	8/18/2013	

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date

Daily Operations

Report Start Date	Report End Date
9/19/2013 06:00	9/20/2013 06:00

Operations at Report Time
Cont to TIH TCP guns, tag, TOOH, hang off guns.

Operations Summary
Cont to TIH TCP guns, tag, TOOH, hang off guns.

Operations Next Report Period

Weather	Wellbore
Sunny and Clear	Original Hole

Daily Contacts

Job Contact	Position	Office
Paul Nicholas	Company Man / WSL	(307) 321-0544

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	1.00	1.00	GOP	Crew travel		
07:00	0.50	1.50	SMTG	Hold safety meeting and discuss job. SITP- 0# SICP- 0# Open the tbg and the csg. MI flowback tanks and cont to NU the flowback system.		
07:30	4.50	6.00	TRIP	Cont to TIH w/ Baker TCP gun assembly. Tagged up. This should not have happened with the string we had in the hole.		
12:00	1.50	7.50	GOP	Checking with Baker on their gun tally. The tally on top of the guns is correct. Baker came up with the fact that there was 2 extra guns ordered and they added them instead of adding charges to the original guns. They add these to the string and made the string 40' to long. We willl drop guns #203 and #110.		
13:30	3.50	11.00	TRIP	TOOH w/ gun assembly to the ported subs. PU an Xover and 1 jnt of 2 7/8" tbg. Hang off the guns in the rig slips.		
17:00	0.50	11.50	GOP	SI tbg, csg and BOPs. Finished NU the flowback system.		
17:30	1.00	12.50	SDFN	Secure Well / SDFN / Travel		
18:30	11.50	24.00	SDFN	SDFN		

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)	Prop Run?
										No
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615	No
6/20/2013	Intermediate	4,172.0	26.8	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681	No
7/10/2013	Production	7,322.0	25.2	7	6.184	29.00	P-110	7	6.094	No
8/6/2013	Production	12,063.0	7,144.8	4 1/2	3.920	13.50	P-110	4 1/2	3.826	No

Rods

Rod Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Rod Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Tubing

Tubing Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Tubing Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Stimulations & Treatments

Date	Type	String	Wellbore	Stim/Treat Company	StimTreat Supervisor

Stim/Treat Fluids

Fluid Name	Fluid Type	Dens Fluid (°A...	pH	Filter Size (in)	Description

Fluid Additives

Additive	Amount	Units	Concentration (%)

Report Printed: 9/23/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Completion - Paradox Executive Daily No Costs

Report for: 9/20/2013
Report #: 34

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	8/13/2013 21:00

Operator	Completions Start Date	Completions Finished Date	Well Status
Fidelity E&P			WOC

Job Category	Job Typ	Job SubTyp	Planned Start Date	Start Date	End Date
Completion	Original	Completion	8/19/2013	8/18/2013	

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date

Daily Operations

Report Start Date	Report End Date
9/20/2013 06:00	9/21/2013 06:00

Operations at Report Time
Cont to TOOH TCP guns, LD guns #110 & #203, TIH TCP guns (2nd time), set Packer @ 6383'.

Operations Summary
Cont to TOOH TCP guns, LD guns #110 & #203, TIH guns (2nd time), Set packer @ 6383'.

Operations Next Report Period

Weather	Wellbore
Sunny and Clear	Original Hole

Daily Contacts

Job Contact	Position	Office
Paul Nicholas	Company Man / WSL	(307) 321-0544

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	1.00	1.00	GOP	Crew travel.		
07:00	0.50	1.50	SMTG	Hold safety meeting and discuss job. SITP- 0# SICP- 0# Open tbg and csg.		
07:30	3.50	5.00	TRIP	Cont to TOOH w/ guns. TOOH to gun #109. Drop gun #110 and gun # 203. This will set guns up on the proper spacing to shoot the intervals in order. Baker revised their gun sheet.		
11:00	5.00	10.00	TRIP	TIH w/ Baker TCP guns as follows: (202) 3 1/8" TCP guns (6 spf, 15,240 holes, 2540' shot length, 60o phasing, 0.37" holes), guns total length of 4288', Model D firing head, Model RD firing head, (3) 2 3/8" ported subs, (40) jnts of 2 3/8" 4.7# N-80 EUE 8rd tbg, 2 3/8" X 2 7/8" Xover, 6' X 2 7/8" N-80 EUE 8rd pup, 2 7/8" tbg swivel. 6' X 2 7/8" N-80 EUE 8rd pup, 2 7/8" BXN nipple (2.313" ID), 10' X 2 7/8" N-80 EUE 8rd pup, Baker 7" Hornet packer, L-10 On/Off tool, 1 jnt of 2 7/8" N-80 EUE 8rd, X nipple (2.313" ID). TIH on 2 7/8" 6.5# N-80 EUE 8rd tbg. Set packer @ 6383' (Elements @ 6387'). Top shot @ 7690' & bottom shot @ 11,960'.		
16:00	0.75	10.75	GOP	Test the packer and the tbg to 2000#. Good tests.		
16:45	0.50	11.25	GOP	Release from packer w/ L-10 connector. LD 1 jnt of 2 7/8" tbg. TOOH and std back 10 stds of 2 7/8" tbg. Hang off the tbg in the rig slips. SI tbg, csg and BOPs.		
17:15	1.00	12.25	SDFN	Secure Well / SDFN / Travel		
18:15	11.75	24.00	SDFN	SDFN		

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)	Prop Run?
										No
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615	No
6/20/2013	Intermediate	4,172.0	26.8	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681	No
7/10/2013	Production	7,322.0	25.2	7	6.184	29.00	P-110	7	6.094	No
8/6/2013	Production	12,063.0	7,144.8	4 1/2	3.920	13.50	P-110	4 1/2	3.826	No

Rods

Rod Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Rod Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Tubing

Tubing Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Tubing Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Report Printed: 9/23/2013

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Exploration & Production Company
An MDU Resources Group company

Daily Completion - Paradox Executive Daily No Costs

Report for: 9/21/2013
Report #: 35

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	8/13/2013 21:00

Operator	Completions Start Date	Completions Finished Date	Well Status
Fidelity E&P			WOC

Job Category	Job Typ	Job SubTyp	Planned Start Date	Start Date	End Date
Completion	Original	Completion	8/19/2013	8/18/2013	

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date

Daily Operations

Report Start Date	Report End Date
9/21/2013 06:00	9/22/2013 06:00

Operations at Report Time
Cont to TOOH, TIH tbg, SP mandrill and capstring, circ out the diesel, Ld the tbg in the head.

Operations Summary
Cont to TOOH, TIH tbg, SP mandrill and cap string, circ out the diesel, Ld the tbg in the head.

Operations Next Report Period

Weather	Wellbore
Sunny and Clear	Original Hole

Daily Contacts

Job Contact	Position	Office
Paul Nicholas	Company Man / WSL	(307) 321-0544

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	1.00	1.00	GOP	Crew travel		
07:00	0.50	1.50	SMTG	Hold safety meeeting and discuss job. SITP- 0# SICP- 0# Open tbg and csg.		
07:30	1.50	3.00	TRIP	Cont to TOOH w/ L-10 connector, MI Baker cap string unit. Prep to run cap string.		
09:00	6.75	9.75	TRIP	PU new L-10 connector. TIH cap string and tbg as follows: L-10, injection sub, 1 jnt of 2 7/8" 6.5# N-80 EUE 8rd tbg, X nipple (2.313" ID), (attach the capo string to the tbg during the TIH) (43) jnts of 2 7/8" 6.5# N-80 EUE 8rd tbg, 2 7/8" side pocket mandrill (4983'), followed by (157) jnts of 2 7/8" 6.5# N-80 EUE 8rd tbg, (2) 2' X 2 7/8" pups, (1) 4' X 2 7/8" pup, (1) 6' X 2 7/8" pup, (1) 8' X 2 7/8" pup, (1) jnt of 2 7/8" 6.5# N-80 EUE 8rd tbg and a Cameron tbg hanger. NU the cap string to the hanger. Packer @ 6383', X nipple @ 6351', SP mandrill @ 4983'.		
15:45	1.75	11.50	CTU	Conventionally circ out the diesel with 184 bbls of fresh water (Packer inhibited fluid), 36 bbls of 11.6 ppg CACL water. Ld the tbg in the tbg head. Leave the 11.6 ppg CACL water in the tbg. Set 18,000lbs on the packer. SI tbg, csg and BOPs.		
17:30	1.00	12.50	SDFN	Secure Well / SDFN / Travel		
18:30	11.50	24.00	SDFN	SDFN		

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)	Prop Run?
										No
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615	No
6/20/2013	Intermediate	4,172.0	26.8	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681	No
7/10/2013	Production	7,322.0	25.2	7	6.184	29.00	P-110	7	6.094	No
8/6/2013	Production	12,063.0	7,144.8	4 1/2	3.920	13.50	P-110	4 1/2	3.826	No

Rods

Rod Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Rod Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Tubing

Tubing Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Tubing Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Stimulations & Treatments

Date	Type	String	Wellbore	Stim/Treat Company	StimTreat Supervisor

Report Printed: 9/23/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Completion - Paradox Executive Daily No Costs

Report for: 9/22/2013
Report #: 36

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	8/13/2013 21:00

Operator	Completions Start Date	Completions Finished Date	Well Status
Fidelity E&P			WOC

Job Category	Job Typ	Job SubTyp	Planned Start Date	Start Date	End Date
Completion	Original	Completion	8/19/2013	8/18/2013	

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date

Daily Operations

Report Start Date	Report End Date
9/22/2013 06:00	9/23/2013 06:00

Operations at Report Time
Set 2way check, ND BOPs, RD rig, NU tree, tree would not test, RU rig, repair hanger, NU tree and ma

Operations Summary
Set 2 way check, ND BOPs, RD rig, NU tree, tree would not test, RU rig, repair hanger, NU tree and manifold, test wellhead equip, Pull 2way.

Operations Next Report Period

Weather	Wellbore
Rain	Original Hole

Daily Contacts

Job Contact	Position	Office
Paul Nicholas	Company Man / WSL	(307) 321-0544

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	1.00	1.00	GOP	Crew travel		
07:00	0.50	1.50	SMTG	Hold safety meeting and discuss job. SITP- 0# SICP- 0# Open tbg and csg.		
07:30	6.50	8.00	GOP	Set the Cameron 2way check in the tbg hanger. ND the BOPs. RD rig #21. NU the tree to the wellhead. Help the roustabout crew locate the flowlines. The flowline came in at the wrong angle. Changing the flowlines to the right angle and distance from the wellhead. Test the main flange on the tree. The flange will not test. The hanger seems to be leaking. Cont to work on the flowlines.		
14:00	2.50	10.50	GOP	RU the rig to pull the hanger. Pull the tbg hanger out of the tbg head. The packing was tore and damaged. Repair the hanger packing. Ld the hanger back into the tbg head. Replace the tree to the head.		
16:30	0.75	11.25	GOP	Test the main flange, good test. NU the wellhead manifold.		
17:15	1.75	13.00	GOP	Test the tree and the wellhead manifold. Test the 10,000# equip to 2502# (low) & 8000# (high) and the 5000# equip to 250# (low) and 4500# (high). Good tests. Pull the 2 way check. ND Cameron testers and release.		
19:00	1.00	14.00	SDFN	Secure Well / SDFN / Travel		
20:00	10.00	24.00	SDFN	SDFN		

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)	Prop Run?
										No
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615	No
6/20/2013	Intermediate	4,172.0	26.8	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681	No
7/10/2013	Production	7,322.0	25.2	7	6.184	29.00	P-110	7	6.094	No
8/6/2013	Production	12,063.0	7,144.8	4 1/2	3.920	13.50	P-110	4 1/2	3.826	No

Rods

Rod Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Rod Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Tubing

Tubing Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Tubing Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Stimulations & Treatments

Date	Type	String	Wellbore	Stim/Treat Company	StimTreat Supervisor

Report Printed: 9/23/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Completion - Paradox Executive Daily No Costs

Report for: 9/23/2013
Report #: 37

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	8/13/2013 21:00

Operator	Completions Start Date	Completions Finished Date	Well Status
Fidelity E&P	9/23/2013	9/23/2013	PROD

Job Category	Job Typ	Job SubTyp	Planned Start Date	Start Date	End Date
Completion	Original	Completion	8/19/2013	8/18/2013	

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date

Daily Operations

Report Start Date	Report End Date
9/23/2013 06:00	9/24/2013 06:00

Operations at Report Time
Fabricate lines, RD rig #21, fire guns, flowtest well.

Operations Summary
Fabricate lines, RD rig #21, fire guns, flowtest well.

Operations Next Report Period

Weather	Wellbore
Sunny and Clear	Original Hole

Daily Contacts

Job Contact	Position	Office
Paul Nicholas	Company Man / WSL	(307) 321-0544

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	1.00	1.00	GOP	Crew travel		
07:00	0.50	1.50	SMTG	Hold safety meeting and discuss job. SITP- 0# SICP- 0#		
07:30	4.00	5.50	GOP	Cont to fabricate the flowlines and chemical lines. RD rig#21. Prep to test lines. Set up chemical system.		
11:30	0.50	6.00	PTST	Test the flowlines with 4000#, good test. Prep to fire guns. Hold safety meeting and discuss job.		
12:00	0.50	6.50	PFRT	Pressure up on the tbg to 3500# to fire the guns. The guns fired in 6 min and 51 sec @ 1216 hrs. The tbg pressure @ the time the guns fired was 550#. The tbg fell back to 100# immediately then increased to 2400# in 15 sec. The tbg cont to increase to 2700# by 1230 hrs. Slowly increasing at this time. Prep to flow test well.		
12:30	0.00	6.50	WTST	SITP- 2700# SICP- 369# Open the tbg on a 10/64" choke. Try to maintain 1 bbls/min to clean up the wellbore. Con to flowtest well.		
12:30	1.50	8.00	WTST	FTP- 3991# SICP- 542# Choke- 10/64" Rec last hr: Oil- 11.95 bbls Water- 0 bbls Mud- 11.95 bbls Gas- good show Oil/mud ratio @ 50/50 Totals: Oil- 11.95 bbls Water- 37 bbls Mud- 11.95 bbls Gas- good show Cont to flowtest well		
14:00	3.00	11.00	WTST	FTP- 4135# SICP- 507# Choke- 10/64" Rec last hr: Oil- 6 bbls Water- 0 bbls Mud- 6 bbls Gas- good show Totals: Oil- 29 bbls Water- 37 bbls Mud- 29 bbls Gas- good show Try to flow well @ 10 bbls hrs and 250 bbls/day. Cont to flowtest well.		
17:00	7.00	18.00	WTST	FTP- 4182# SICP- 521# Choke- 7/64" Rec last hr: Oil- 5 bbls Water- 0 bbls Mud- 5 bbls Gas- good show Totals: Oil- 74 bbls Water- 37 bbls Mud- 74 bbls Gas- good show Try to flow well @ 10 bbls/hr and 250 bbls/day. Cont to flowtest well.		
00:00	5.00	23.00	WTST	FTP- 4180# SICP- 527# Choke- 7/64" Rec last hr: Oil- 8 bbls Water- 0 bbls Mud- 3 bbls Gas- good show Totals: Oil- 116 bbls Water- 37 bbls Mud- 92 bbls Gas- good show Oil/gas ratio @ 70/30. Try to flow the well @ 10 bbls/hr and 250 bbls/day. Cumm Totals: Days- 1 Hrs- 17.5 Oil- 116 bbls Water- 37 bbls Mud- 92 bbls Gas- good show Cont to flowtest well.		
05:00	1.00	24.00	WTST	This data is on the next days reports.		

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)	Prop Run?
										No
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615	No
6/20/2013	Intermediate	4,172.0	26.8	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681	No
7/10/2013	Production	7,322.0	25.2	7	6.184	29.00	P-110	7	6.094	No
8/6/2013	Production	12,063.0	7,144.8	4 1/2	3.920	13.50	P-110	4 1/2	3.826	No

Rods

Rod Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Report Printed: 9/30/2013

FIDELITY Exploration & Production Company
An MDU Resources Group company

Daily Completion - Paradox Executive Daily No Costs

Report for: 9/24/2013
Report #: 38

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	8/13/2013 21:00

Operator	Completions Start Date	Completions Finished Date	Well Status
Fidelity E&P	9/23/2013	9/23/2013	PROD

Job Category	Job Typ	Job SubTyp	Planned Start Date	Start Date	End Date
Completion	Original	Completion	8/19/2013	8/18/2013	

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date

Daily Operations

Report Start Date	Report End Date
9/24/2013 06:00	9/25/2013 06:00

Operations at Report Time
Day 2, flowtest well, turn well into test equip, flowtest well.

Operations Summary
Day 2, flowtest well, turn well into test equip, flowtest well.

Operations Next Report Period

Weather	Wellbore
Sunny and Clear	Original Hole

Daily Contacts

Job Contact	Position	Office
Paul Nicholas	Company Man / WSL	(307) 321-0544

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	6.00	6.00	WTST	FTP- 4202# SICP- 498# Choke- 7/64" Rec last hr: Oil- 8 bbls Water- 0 bbls Mud- 1 bbls Gas- good show. Oil/mud ratio- 90/10. Turn well into the flowtest equip @ 1200 hrs. Flare the gas in the flare pit, rec the oil in the production tanks. Flow the well @ 10 bbls/hr @ 250 bbls/day.		
12:00	5.00	11.00	WTST	FTP- 4143# SICP- 553# Choke- 7/64" Rec last hr: Oil- 8 bbls Water- 0 bbls Mud- 1 bbls Gas- 2 mcf Flowing well through the flowtest equip. Flow well @ 10 bbls/hr @ 250 bbls /day.		
17:00	7.00	18.00	WTST	FTP- 4197# SICP- 533# Inj Press- 1058# Choke- 4/64" Rec last hr: Oil- 11 bbls Water- 0 bbls Mud- 0 bbls Gas- 1 mcf Flowing well through the flowtest equip. 100% oil recovery, no mud. Flow well @ 10 bbls/hr @ 250 bbls/day.		
00:00	5.00	23.00	WTST	FTP- 4197# SICP- 502# Choke- 6/64" Rec last hr: Oil- 7 bbls Water- 0 bbls Mud- 0 bbls Gas- 2 mcf. Flowing well through the flowtest equip. Daily Totals: Hrs- 24 hrs Chokes- 4/64", 6/64" & 7/64" Oil- 240 bbls Water- 0 bbls Mud- 10 bbls Gas- 81 mcf/d Cum Totals: Days- 2 Hrs- 41.5 hrs Oil- 356 bbls Water- 37 bbls Mud- 102 bbls Gas- 81 mcf Cont to flowtest well.		
05:00	1.00	24.00	WTST	This hr is on the next report. Cont to flowtest well.		

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)	Prop Run?
										No
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615	No
6/20/2013	Intermediate	4,172.0	26.8	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681	No
7/10/2013	Production	7,322.0	25.2	7	6.184	29.00	P-110	7	6.094	No
8/6/2013	Production	12,063.0	7,144.8	4 1/2	3.920	13.50	P-110	4 1/2	3.826	No

Rods

Rod Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Rod Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Tubing

Tubing Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Tubing Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Stimulations & Treatments

Date	Type	String	Wellbore	Stim/Treat Company	StimTreat Supervisor

Stim/Treat Fluids

Fluid Name	Fluid Type	Dens Fluid (°A...	pH	Filter Size (in)	Description

Report Printed: 9/30/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Completion - Paradox Executive Daily No Costs

Report for: 9/25/2013
Report #: 39

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	8/13/2013 21:00

Operator	Completions Start Date	Completions Finished Date	Well Status
Fidelity E&P	9/23/2013	9/23/2013	PROD

Job Category	Job Typ	Job SubTyp	Planned Start Date	Start Date	End Date
Completion	Original	Completion	8/19/2013	8/18/2013	

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date

Daily Operations

Report Start Date	Report End Date
9/25/2013 06:00	9/26/2013 06:00

Operations at Report Time
Day 3, flowtest well.

Operations Summary
Day 3, flowtesst well.

Operations Next Report Period

Weather	Wellbore
Sunny and Clear	Original Hole

Daily Contacts

Job Contact	Position	Office
Paul Nicholas	Company Man / WSL	(307) 321-0544

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	6.00	6.00	WTST	FTP- 4186# SICP- 547# Inj Press- 3950# Choke- 5/64" Rec last hr: Oil- 14 bbls Water- 0 bbls Mud- 0 bbls Gas- 2 mcf Cont to flowtest well		
12:00	5.00	11.00	WTST	FTP- 4189# SICP- 543# Inj Press- 3950# Choke- 5/64" Rec last hr: Oil - 11 bbls Water- 0 bbls Mud- 0 bbls Gas- 1 mcf Cont to flowtest well.		
17:00	7.00	18.00	WTST	FTP- 4195# SICP- 527# Inj Press- 3950# Choke- 5/64" Rec last hr: Oil- 9 bbls Water- 0 bbls Mud- 0 bbls Gas- 2 mcf Cont to flowtest well.		
00:00	5.00	23.00	WTST	FTP- 4195# SICP- 527# Inj Press- 3950# Choke- 5/64" Rec last hr: Oil- 8 bbls Water- 0 bbls Mud- 0 bbls Gas- 2 mcf Cont to flowtest well @ 10 bbls/hr @ 250 bbls/day. Daily Rec: Hrs- 24 hrs. Chokes- 5/64" Oil - 269 bbls Water- 0 bbls Mud- 0 bbls Gas- 143 mcf/d Acc Totals: Days- 3 Hrs- 65.5 hrs Oil- 625 bbls Water- 37 bbls Mud- 102 bbls Gas- 224 mcf		
05:00	1.00	24.00	WTST	Flowtest well. This hr will be on the next days report.		

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)	Prop Run?
										No
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615	No
6/20/2013	Intermediate	4,172.0	26.8	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681	No
7/10/2013	Production	7,322.0	25.2	7	6.184	29.00	P-110	7	6.094	No
8/6/2013	Production	12,063.0	7,144.8	4 1/2	3.920	13.50	P-110	4 1/2	3.826	No

Rods

Rod Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Rod Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Tubing

Tubing Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Tubing Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Stimulations & Treatments

Date	Type	String	Wellbore	Stim/Treat Company	StimTreat Supervisor

Stim/Treat Fluids

Fluid Name	Fluid Type	Dens Fluid (°A...	pH	Filter Size (in)	Description

Fluid Additives

Additive	Amount	Units	Concentration (%)

Report Printed: 9/30/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Completion - Paradox Executive Daily No Costs

Report for: 9/26/2013
Report #: 40

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	8/13/2013 21:00

Operator	Completions Start Date	Completions Finished Date	Well Status
Fidelity E&P	9/23/2013	9/23/2013	PROD

Job Category	Job Typ	Job SubTyp	Planned Start Date	Start Date	End Date
Completion	Original	Completion	8/19/2013	8/18/2013	

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date

Daily Operations

Report Start Date	Report End Date
9/26/2013 06:00	9/27/2013 06:00

Operations at Report Time
Day 4, flowtest well.

Operations Summary
Day 4, flowtest well.

Operations Next Report Period

Weather	Wellbore
Sunny and Clear	Original Hole

Daily Contacts

Job Contact	Position	Office
Paul Nicholas	Company Man / WSL	(307) 321-0544

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	6.00	6.00	WTST	FTP- 4189# SICP- 537# Inj Press- 3950# Choke- 5/64" Rec last hr: Oil- 9 bbls Water- 0 bbls Mud- 0 bbls Gas- 2 mcf Cont to flow well @ 10 bbls/hr @ 240 bbls/day. Oil sales- 288 bbls		
12:00	5.00	11.00	WTST	FTP- 4166# SICP- 571# Inj Press- 3950# Choke- 7/64" Rec last hr: Oil- 16 bbls Water- 0 bbls Mud- 0 bbls Gas- 4 mcf Flow well @ 15 bbls/hr @ 360 bbls/day.		
17:00	7.00	18.00	WTST	FTP- 4171# SICP- 588# Inj Press- 3957# Choke- 7/64" Rec last hr: Oil- 15 bbls Water- 0 bbls Mud- 0 bbls Gas- 4 mcf Cont to flow well @ 15 bbls/hr @ 360 bbls/day.		
00:00	5.00	23.00	WTST	FTP- 4178# SICP- 577# Inj Press- 3964# Choke- 7/64" Rec last hr: Oil- 12 bbls Water- 0 bbls Mud- 0 bbls Gas- 4 mcf Cont to flowtest well @ 15 bbls/hr @ 360 bbls/day. Daily Rec: Hrs- 24 hrs. Chokes- 5/64", 6/64" & 7/64" Oil- 327 bbls Water- 0 bbls Mud- 0 bbls Gas- 174 mcf/d Oil Sales- 288 bbls Acc Totals- Days- 4 Hrs- 89.5 hrs Oil- 952 bbls Water- 37 bbls Mud- 102 bbls Gas- 796 mcf Oil Sales- 288 bbls		
05:00	1.00	24.00	WTST	This hr will be on the next days reports. See flowtest reports.		

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)	Prop Run?
										No
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615	No
6/20/2013	Intermediate	4,172.0	26.8	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681	No
7/10/2013	Production	7,322.0	25.2	7	6.184	29.00	P-110	7	6.094	No
8/6/2013	Production	12,063.0	7,144.8	4 1/2	3.920	13.50	P-110	4 1/2	3.826	No

Rods

Rod Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Rod Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Tubing

Tubing Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Tubing Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Stimulations & Treatments

Date	Type	String	Wellbore	Stim/Treat Company	StimTreat Supervisor

Stim/Treat Fluids

Fluid Name	Fluid Type	Dens Fluid (°A...	pH	Filter Size (in)	Description

Report Printed: 9/30/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Completion - Paradox Executive Daily No Costs

Report for: 9/27/2013
Report #: 41

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	8/13/2013 21:00

Operator	Completions Start Date	Completions Finished Date	Well Status
Fidelity E&P	9/23/2013	9/23/2013	PROD

Job Category	Job Typ	Job SubTyp	Planned Start Date	Start Date	End Date
Completion	Original	Completion	8/19/2013	8/18/2013	

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date

Daily Operations

Report Start Date	Report End Date
9/27/2013 06:00	9/28/2013 06:00

Operations at Report Time
Day5, flowtest well.

Operations Summary
Day5, flowtest well.

Operations Next Report Period

Weather	Wellbore
Sunny and Clear	Original Hole

Daily Contacts

Job Contact	Position	Office
Paul Nicholas	Company Man / WSL	(307) 321-0544

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	6.00	6.00	WTST	FTP- 4193# SICP- 560# Inj Press- 3961# Choke- 8/64" Rec last hr: Oil- 7 bbls Water- 0 bbls Mud- 0 bbls Gas- 1 mcf Sales- 293 bbls Cont to flow well @ 15 bbls/hr @ 360 bbls/day.		
12:00	5.00	11.00	WTST	FTP- 4142# SICP- 627# Inj Press- 3914# Choke- 7/64" Rec last hr: Oil- 25 bbls Water- 0 bbls Mud- 0 bbls Gas- 6 mcf Cont to flow well @ 15 bbls/hr @ 360 bbls/day		
17:00	7.00	18.00	WTST	FTP- 4168# SICP- 580# Inj Press- 3939# Choke- 7/64" Rec last hr: Oil- 13 bbls Water- 0 bbls Mud- 0 bbls Gas- 4 mcf Cont to flow well @ 15 bbls/hr @ 360 bbls/day.		
00:00	5.00	23.00	WTST	FTP- 4171# SICP- 580# Inj Press- 3939# Choke- 7/64" Rec last hr: Oil- 13 bbls Water- 0 bbls Mud- 0 bbls Gas- 4 mcf Daily Rec: Hrs- 24 hrs. Chokes- 7/64" & 8/64" Oil- 356 bbls Water- 0 bbls Mud- 0 bbls Gas- 214 mcf/d Oil Sales- 293 bbls Acc Totals: Days- 5 Hrs- 113.5 hrs. Oil- 1308 bbls Water- 37 bbls Mud- 102 bbls Gas- 1224 mcf Oil Sales- 581 bbls Cont to flow well @ 15 bbls/hr @ 360 bbls/day.		
05:00	1.00	24.00	WTST	Flowtest well/ This hr is on next days reports. See flowtest reports.		

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)	Prop Run?
										No
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615	No
6/20/2013	Intermediate	4,172.0	26.8	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681	No
7/10/2013	Production	7,322.0	25.2	7	6.184	29.00	P-110	7	6.094	No
8/6/2013	Production	12,063.0	7,144.8	4 1/2	3.920	13.50	P-110	4 1/2	3.826	No

Rods

Rod Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Rod Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Tubing

Tubing Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Tubing Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Stimulations & Treatments

Date	Type	String	Wellbore	Stim/Treat Company	StimTreat Supervisor

Stim/Treat Fluids

Fluid Name	Fluid Type	Dens Fluid (°A...	pH	Filter Size (in)	Description

Report Printed: 9/30/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Completion - Paradox Executive Daily No Costs

Report for: 9/28/2013
Report #: 42

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	8/13/2013 21:00

Operator	Completions Start Date	Completions Finished Date	Well Status
Fidelity E&P	9/23/2013	9/23/2013	PROD

Job Category	Job Typ	Job SubTyp	Planned Start Date	Start Date	End Date
Completion	Original	Completion	8/19/2013	8/18/2013	

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date

Daily Operations

Report Start Date	Report End Date
9/28/2013 06:00	9/29/2013 06:00

Operations at Report Time
Day 6, flowtest well.

Operations Summary
Day 6, flowtest well.

Operations Next Report Period

Weather	Wellbore
Sunny and Clear	Original Hole

Daily Contacts

Job Contact	Position	Office
Paul Nicholas	Company Man / WSL	(307) 321-0544

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	6.00	6.00	WTST	FTP- 4150# SICP- 621# Choke- 8/64" Rec last hr: Oil- 23 bbls Water- 0 bbls Mud- 0 bbls Gas- 6 mcf Sales- 293 bbls Changed choke to an 8/64" as requested at 100 hrs. Try to level out the flow on an 8/64" choke. Cont to flowtest well.		
12:00	5.00	11.00	WTST	FTP- 4169# SICP- 607# Inj Press- 3934# Choke- 8/64" Rec last hr: Oil- 19 bbls Water- 0 bbls Mud- 0 bbls Gs- 6 mcf		
17:00	7.00	18.00	WTST	FTP- 4125# SICP- 664# Inj Press- 3916# Choke- 8/64" Rec last hr: Oil- 21 bbls Water- 0 bbls Mud- 0 bbls Gas- 7 mcfl Cont to flowtest well on an 8/64" choke.		
00:00	5.00	23.00	WTST	FTP- 4136# SICP- 651# Inj Press- 3914# Choke- 8/64" Rec last hr: Oil- 19 bbls Water- 0 bbls Mud- 0 bbls Gas- 6 mcf Daily Rec: Hrs- 24 hrs Chokes- 7/64" & 8/64" Oil- 457 bbls Water- 0 bbls Mud- 0 bbls Gas- 297 mcf/d Sales- 293 bbls Acc Totals: Days- 6 Hrs- 137.5 hrs Oil- 1766 bbls Water- 37 bbls Mud- 102 bbls Gas- 909 mcf Sales- 674 bbls Cont to flowtest well.		
05:00	1.00	24.00	WTST	This hr is on the next days report. See flowtest reports.		

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)	Prop Run?
										No
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615	No
6/20/2013	Intermediate	4,172.0	26.8	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681	No
7/10/2013	Production	7,322.0	25.2	7	6.184	29.00	P-110	7	6.094	No
8/6/2013	Production	12,063.0	7,144.8	4 1/2	3.920	13.50	P-110	4 1/2	3.826	No

Rods

Rod Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Rod Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Tubing

Tubing Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Tubing Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Stimulations & Treatments

Date	Type	String	Wellbore	Stim/Treat Company	StimTreat Supervisor

Stim/Treat Fluids

Fluid Name	Fluid Type	Dens Fluid (°A...	pH	Filter Size (in)	Description

Fluid Additives

Additive	Amount	Units	Concentration (%)

Report Printed: 9/30/2013

FIDELITY
Exploration & Production Company
An MDU Resources Group company

Daily Completion - Paradox Executive Daily No Costs

Report for: 9/29/2013
Report #: 43

Well Name: Cane Creek Unit 36-1

API/UWI	Excaliber ID	Well Area	Basin	Field Name	Well Configuration Type
43-019-50030	74*31273	Paradox	Paradox Basin	Cane Creek	Horizontal

County	State/Province	Ungraded Surveyed Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date
Grand	UT	5,797.20	23.00	5/10/2013 00:00	8/13/2013 21:00

Operator	Completions Start Date	Completions Finished Date	Well Status
Fidelity E&P	9/23/2013	9/23/2013	PROD

Job Category	Job Typ	Job SubTyp	Planned Start Date	Start Date	End Date
Completion	Original	Completion	8/19/2013	8/18/2013	

Rig	Company Man\Well Site Lead	Rig Email Address	Rig Phone Number	Rig Release Previous Well	Rig Release Date

Daily Operations

Report Start Date	Report End Date
9/29/2013 06:00	9/30/2013 06:00

Operations at Report Time
Day 7, flowtest well.

Operations Summary
Day 7, flowtest well.

Operations Next Report Period

Weather	Wellbore
Sunny and Clear	Original Hole

Daily Contacts

Job Contact	Position	Office
Paul Nicholas	Company Man / WSL	(307) 321-0544

Time Log

Start Time	Dur (hr)	Cum Dur (hr)	Code 1	Comment	Start Depth (ftKB)	End Depth (ftKB)
06:00	6.00	6.00	WTST	FTP- 4133# SICP- 666# Inj Press- 3920# Choke- 8/64" Rec last hr: Oil - 17 bbls Water- 0 bbls Mud- 0 bbls Gas- 7 mcf Sales- 292 bbls Cont to flow well on an 8/64" choke.		
12:00	5.00	11.00	WTST	FTP- 4130# SICP- 676# Inj Press- 3947# Choke- 8/64" Rec last hr: Oil- 18 bbls Water- 0 bbls Mud- 0 bbls Gas- 6 mcf Cont to flow well.		
17:00	7.00	18.00	WTST	FTP- 4135# SICP- 650# Inj Press- 3942# Choke- 8/64" Rec last hr: Oil-22 bbls Water- 0 bbls Mud- 0 bbls Gas- 7 mcf Cont to flowtest well.		
00:00	5.00	23.00	WTST	FTP- 4130# SICP- 668# Inj Press- 3957# Choke- 8/64" Rec last hr: Oil- 20 bbls Water- 0 bbls Mud- 0 bbls Gas- 6 mcf Daily Rec: Hrs- 24 hrs Chokes- 8/64" Oil- 504 bbls Water- 0 bbls Mud- 0 bbls Gas- 325 mcf/d Sales- 292 bbls Acc Totals: Days- 7 days Hrs- 161.5 hrs. Oil- 2270 bbls Water- 37 bbls Mud- 102 bbls Gas- 1746 mcf Oil Sales- 1166 bbls Cont to flowtest well on an 8/64" choke.		
05:00	1.00	24.00	WTST	Flowtest well. This hr will be on the next days report. See flowtest reports.		

Casing & Liners

Run Date	Csg Des	Set Depth (ftKB)	Top (ftKB)	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	OD Nom Max (in)	ID Nom Min (in)	Prop Run?
										No
6/11/2013	Surface	1,070.0	27.0	13 3/8	12.615	54.50	J-55	13 3/8	12.615	No
6/20/2013	Intermediate	4,172.0	26.8	9 5/8	8.681	47.00	HCP-110	9 5/8	8.681	No
7/10/2013	Production	7,322.0	25.2	7	6.184	29.00	P-110	7	6.094	No
8/6/2013	Production	12,063.0	7,144.8	4 1/2	3.920	13.50	P-110	4 1/2	3.826	No

Rods

Rod Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Rod Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Tubing

Tubing Description	Run Date	Pull Date	Set Depth (ftKB)	Weight/Length (lb/ft)	String Grade	String Length (ft)	Top Depth (ftKB)

Tubing Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts

Stimulations & Treatments

Date	Type	String	Wellbore	Stim/Treat Company	StimTreat Supervisor

Stim/Treat Fluids

Fluid Name	Fluid Type	Dens Fluid (°A...	pH	Filter Size (in)	Description

Fluid Additives

Additive	Amount	Units	Concentration (%)

Report Printed: 9/30/2013

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

5.LEASE DESIGNATION AND SERIAL NUMBER: ML-40571

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: CANE CREEK

1. TYPE OF WELL Oil Well

8. WELL NAME and NUMBER: Cane Creek Unit 36-1

2. NAME OF OPERATOR: FIDELITY E&P COMPANY

9. API NUMBER: 43019500300000

3. ADDRESS OF OPERATOR: 1700 Lincoln Street Ste 2800 , Denver, CO, 80203

PHONE NUMBER: 720 931-6459 Ext

9. FIELD and POOL or WILDCAT: UNDESIGNATED

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0267 FSL 0774 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 36 Township: 25.0S Range: 19.0E Meridian: S

COUNTY: GRAND

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 11/13/2013	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ SPUD REPORT Date of Spud:	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	✓ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Fidelity Exploration & Production is requesting a Severance Tax Exemption for the Cane Creek Unit 36-1 well. Attached are maps and documentation to support our request.

Approved by the Utah Division of Oil, Gas and Mining

Date: January 02, 2014

By: Dark K Quist

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Joy Gardner	720 956-5763	Sr. Engineering Tech

SIGNATURE	DATE
N/A	11/13/2013

RECEIVED: Nov. 13, 2013

The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Sundry Conditions of Approval Well Number 43019500300000

See Statement of Basis (Attached).

RECEIVED: Jan. 02, 2014

DIVISION OF OIL, GAS AND MINING

Wildcat Well Determination

STATEMENT OF BASIS

Applicant: _FIDELITY E&P COMPANY_

Location: SWSW SEC 36 T25S R19E Grand County, Utah

WELL NAME: Cane Creek Unit 36-1 **API #:** 43-019-50030

FINDINGS

1. This well reported first production on September 24, 2013 in the Cane Creek formation.
2. The subject well was originally drilled as a vertical well that was not productive. It was subsequently drilled horizontally and reached total depth of 12,073' MD on July 29, 2013 and was completed on September 24, 2013.
3. There were two productive wells within a one mile radius at the time of first production from the subject well (Attachment A). The Cane Creek 1-1 well was non productive in the Cane Creek and has produced in commercial quantities from Clastics 18 & 19 only. The Cane Creek 2-1 was completed in and has been producing from the Cane Creek formation since completion in 2004.
4. The subject well is in a separate fault block from the two productive wells listed above. Bottomhole pressures show virgin pressure in the subject well with significant depletion in the reservoirs for the producing wells. This shows the wells to be in completely separate pools.

CONCLUSIONS

Based on the findings above the Division has determined the Cane Creek Unit 36-1 well was drilled and completed in a pool in the Cane Creek formation for which no well capable of producing in commercial quantities had previously been drilled. The Division

CC: Utah State Tax Commission
ATTN: Shandra Winters

finds that this well qualifies for the severance tax exemption under Section 59-5-102(5)(b) for wildcat wells for production from the Cane Creek formation. This determination was made in accordance with Oil and Gas General Conservation Rule R649-3-35. If the operator disagrees with this determination, the decision may be appealed to the Board of Oil Gas and Mining.

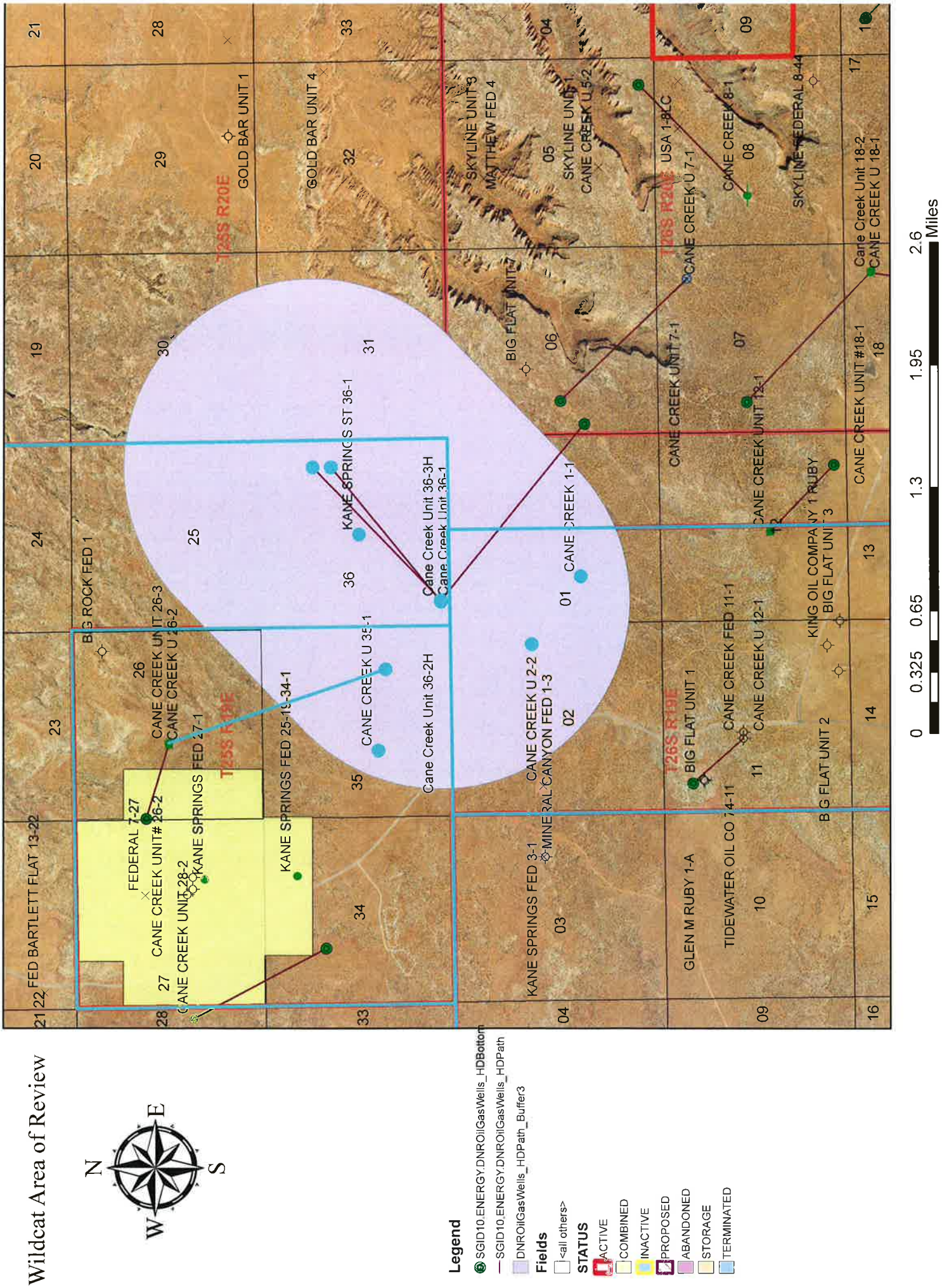
Reviewer(s): Dustin K. Doucet DKD Date: January 2, 2014

ATTACHMENT A

1 Mile Area of Review

API	WELL_NAME	Well Status	QTR	Sect	Town	Range	Cum Oil	Cum Gas	Field Name	Dx From Well(ft)	Rotar Spud	Date TD Reached	Date First Produced	Producing Formation	Depth TD
4301931322	KANE SPRINGS ST 36-1	LA	NESW	36	T25.0S	R19.0E	0	0	WILDCAT	2950	NA	NA	NA	NA	NA
4301931396	CANE CREEK 2-1	P	SENE	2	T26.0S	R19.0E	431689	336039	BIG FLAT	2802	2/16/2004	4/10/2004	6/28/2004	Cane Creek	7220
4301931446	CANE CREEK 1-1	P	NWSW	1	T26.0S	R19.0E	131031	134944	BIG FLAT	3966	1/9/2008	3/2/2008	5/4/2008	Paradox CL 18,19	7355
4301931589	CANE CREEK U 35-1	LA	NESW	35	T25.0S	R19.0E	0	0	BIG FLAT	4525	NA	NA	NA	NA	NA
4301950030	Cane Creek Unit 36-1	P	SWSW	36	T25.0S	R19.0E	59687	35987	UNDESIGNATED	0	6/9/2013	7/29/2013	9/24/2013	Cane Creek	12073
4301950033	Cane Creek Unit 36-2H	APD	SWSW	36	T25.0S	R19.0E	<Null>	<Null>	BIG FLAT	20	NA	NA	NA	NA	NA
4301950035	Cane Creek Unit 36-3H	APD	SWSW	36	T25.0S	R19.0E	<Null>	<Null>	BIG FLAT	40	NA	NA	NA	NA	NA
4301950019	CANE CREEK UNIT 26-3	P	NESW	26	T25.0S	R19.0E	21589	12202	BIG FLAT	2450	8/19/2013 H	9/16/2013 H	10/25/2012 V, 11/1/2013 H	Cane Creek	12466 H, 7570 V

Sundry Number: 44829 API well Number: 43019500300000


Wildcat Area of Review
N
E
S
W
Legend
SGID10.ENERGY.DNROilGasWells_HDBottom
SGID10.ENERGY.DNROilGasWells_HDPath
DNROilGasWells_HDPath_Buffer3
Fields
<all others>
STATUS
ACTIVE
COMBINED
INACTIVE
PROPOSED
ABANDONED
STORAGE
TERMINATED
T25S R20E
T26S R20E
T25S R19E
T26S R19E
FED BARTLETT FLAT 13-22
BIG ROCK FED 1
GOLD BAR UNIT 1
GOLD BAR UNIT 4
SKYLINE UNIT 3
MATTHEW FED 4
SKYLINE UNIT 1
CANE CREEK U 5-2
USA 1-BLC
CANE CREEK U 7-1
CANE CREEK 8-1
SKYLINE FEDERAL 8-44
Cane Creek Unit 18-2
CANE CREEK U 18-1
BIG FLAT UNIT 7
CANE CREEK UNIT 7-1
CANE CREEK UNIT 12-1
CANE CREEK UNIT #18-1
KANE SPRINGS ST 36-1
Cane Creek Unit 36-3H
Cane Creek Unit 36-1
CANE CREEK 1-1
CANE CREEK U 35-1
Cane Creek Unit 36-2H
CANE CREEK UNIT 26-3
CANE CREEK U 26-2
CANE CREEK 27-1
KANE SPRINGS FED 25-19-34-1
FEDERAL 7-27
CANE CREEK UNIT# 26-2
CANE CREEK UNIT 28-2
KANE SPRINGS
CANE CREEK U 2-2
MINERAL CANYON FED 1-3
KANE SPRINGS FED 3-1
BIG FLAT UNIT 1
CANE CREEK FED 11-1
CANE CREEK U 12-1
GLEN M RUBY 1-A
TIDEWATER OIL CO 14-11
KING OIL COMPANY 1 RUBY
BIG FLAT UNIT 3
BIG FLAT UNIT 2
0
0.325
0.65
1.3
1.95
2.6
Miles

Application for Severance Tax Exemption
Fidelity Cane Creek Unit #36-1H

API 43-019-50030
Surface Location:
SWSW Section 36, T25S-R19E (608 FSL, 1197 FWL)
Bottom Hole Location:
SENE Section 12, T26S-R19E (1472 FNL, 889 FEL)

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REVIEW OF EXHIBITS

Five exhibits are attached to this application. Exhibit #1 is a base map which shows well information (well number, date of completion, oil cum, gas cum), faults drawn on top of the Cane Creek Interval, and a purple dashed circle which includes all wells within a one mile radius of the surface hole location of the Cane Creek Unit #36-1H. The surface hole location (SWSW Section 36) and bottom hole location (SENE Section 36) are shown for the Cane Creek Unit #36-1H lateral, and perforations in the lateral section of the well bore are shown in pink. The location of cross section A - A' (Exhibit #3) is shown on Exhibit #1 as cross section A-A' in purple. Exhibit #2 is a structure map on top of the Cane Creek Interval, and the contour interval is 50'. Exhibit #3 is a true, subsea cross section through all wells pertinent to this application. Salts are highlighted in blue, and the thinner clastic intervals are highlighted in yellow. The Cane Creek Interval is the approximate 100' interval at the bottom of this cross section and is highlighted in yellow. Based on 3-D seismic and well control, faults along the cross section are shown as near vertical lines and are labeled 'U' and 'D' showing relative up and down movement of adjacent beds along each fault. Exhibit #4 adds recently measured bottom hole pressure data collected from wellbores in orange (in PSI). Exhibit #5 is the Completion Report which Fidelity Exploration & Production Company filed on October 25, 2013.

PRIMARY TARGET IN CANE CREEK UNIT IS THE CANE CREEK CLASTIC INTERVAL (Also called Clastic #21 or Shale #21)

The Cane Creek Interval is the primary producing interval in the Cane Creek Federal Unit at the present time. The Cane Creek interval is divided into the 'A' (named Cane Creek Shale on Cross Section A – A'), the 'B', and the 'C' zones (shown on Figure #3). It is currently believed that while all three intervals (A, B, C) contribute hydrocarbons to the well bore, the Cane Creek 'B' zone is still the interval responsible for most of the hydrocarbon production in the Cane Creek Unit. The 'B' zone is comprised of gray dolomitic siltstones and interbedded black shales. The 'B' zone is pervasive across all of the Cane Creek Unit. The 'B' zone is also oil and gas saturated across the Cane Creek Unit area. Economic production is related to both porosity and effective permeability at any given location. While matrix porosities of 10% to 12% + are common (see cross section) in the Cane Creek Interval, matrix porosities from well to well and are not continuous across the area, not even between closely spaced wells. It is now believed that matrix porosity alone cannot support an economic well. The best wells drilled across the Cane Creek Unit area are those wells whose wellbores encounter extensive and pervasive fractured rocks. Unfortunately, these fracture systems are not found at all locations and are difficult to predict.

WHAT HAS BEEN LEARNED FROM DRILLING IN THE LAST 20 MONTHS

Recent drilling has confirmed that wells which fail to penetrate a well developed fracture systems will typically be uneconomic wells. The modern wells drilled since January, 2012 have offered some understanding of 'Compartmentalization of the individual hydrocarbon reservoirs'.

<u>Causes of compartmentalization</u>

- Stratigraphic rock changes from well to well often result in reduced matrix porosity resulting in tighter rocks in one well versus surrounding wells (which cannot be predicted at the present time). Stratigraphic changes are believed to aid in compartmentalization.
- Faulting frequently places the porous Cane Creek interval in contact with a non-permeable salt seal, or boundary, causing compartmentalization (shown on cross section A-A'). The 3-D seismic data shows where larger faults are located.
- Salt filled fractured intervals also form boundaries for compartments. Analyses of both recent and historic well data (core data) demonstrate areas which indeed had highly fractured rock within the Cane Creek Interval at one

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time. However, through geologic time, some of these highly fractured rocks saw the fractures become completely filled with salt, destroying the original permeability, and also helping compartmentalize reservoirs. The timing of the salt filling and mechanisms responsible are poorly understood at this time.

ECONOMIC WELL COMPLETIONS

Recent drilling has helped understand some of the components of compartmentalization occurring in the Cane Creek Rock Interval across the Cane Creek Unit. However, the biggest challenge for picking locations to drill economic wells is, how to identify 'well locations' which will penetrate areas with a pervasive, open fracture network? Indeed, at least three Fidelity Exploration & Production Company wells drilled in the last 15 months are either dry holes or sub-economic.

A newly drilled well needs to be 'steered' laterally and stay in the Cane Creek Interval to locate areas with highly fractured reservoir rocks. Seismic data can be used in some areas to steer a lateral well bore. Steering is a challenge, and wells have prematurely stopped drilling (in the lateral) because the drill bit has drilled 'out of the target zone' and in to salt, and it is not know which direction to steer the wellbore to get back in to the target zone.

When new Cane Creek Interval compartments are drilled, pressure data collected at the time of completion confirms the presence of an 'untapped reservoir' (a compartment with virgin reservoir pressure). Both 3-D seismic data and geologic well control were used in an attempt to predict an untapped 'compartment' at the Cane Creek Unit #36-1H location.

Even when wells can be successfully steered in to new compartments, the biggest obstacle remains; are highly fractured rocks (with open fractures) present at the location of the well bore? Defining areas with highly fractured rocks remains the biggest 'risk' factor for drilling economic well bores in the Cane Creek Unit.

SIGNIFICANT WELLS IN THE IMMEDIATE AREA

Two wells are located within a one mile radius of either the surface hole location (SHL), or the bottom hole location (BHL) of the Cane Creek Unit #36 -1H. These include the Cane Creek Unit #1-1 well located in the NWSW Section 1, T26S-R19E, and the Cane Creek Unit #2-1 well located in the SENE Section 2, T26S-R19E. Both wells were completed as vertical, producing oil wells.

The Cane Creek Unit #1-1 well located in the NWSW Section 1 was drilled to total depth of 7350' and was completed as a producing well from Clastics #18 and #19 in the Paradox Formation (perforated intervals 6904-15, 6934-52) in May, 2008. This well is located approximately 3900' away from the surface hole location of the Cane Creek Unit 36-1H. This well was originally drilled to a total depth of 7350' to test the Cane Creek Interval (which was the primary target at the time of drilling). The Cane Creek interval was perforated and tested between 7238' and 7310'. After perforating, the Cane Creek interval had no fluid entry in to the well bore (rock was too tight to produce). A CIBP (cast iron bridge plug) was set at 7136' and a successful completion attempt was made in overlying Clastics, #18 and #19. Initial production from Clastics #18 and #19 was 439 BOPD (43 degree gty) and 262 MCFGPD. The well has cumulative production of approximately 131,000 BO and 135 MMCFG to date and all of this production is from Clastics #18 and #19. The significance of Cane Creek Unit #1-1 well to the current application is twofold. First, this unproductive hole in the Cane Creek Interval is approxiamately 2400' from a producer which has cumulative production of 430,000 BO from the Cane Creek Interval. Second, this unproductive hole in the Cane Creek Interval is 3900' from the surface hole location for the Cane Creek Unit #36-1H well.

The Cane Creek Unit #2-1 well located in the SENE Section 2 was drilled to total depth of 7220' and was completed as a producing well from Cane Creek Interval near the base of the Paradox Formation (Cane Creek Interval is clastic #21). This well is located approximately 2900' away from the surface hole location of the Cane Creek Unit 36-1H. The Cane Creek interval was perforated between 6968' and 7038' and was completed on July 12, 2004 flowing 513 BOPD (43 degree gty) and 657 MCFPD. The well has cumulative production of approximately 430,000 BO and 333 MMCFG to date, all of this production coming from the Cane Creek Interval. Of significance is the fact that the current Bottom Hole Pressure (BHP) in this wellbore is 1322 #'s.

ANALYSIS OF RESERVOIR PROPERTIES ON THE FIDELITY CANE CREEK UNIT #36-1H

Analysis of 3-D seismic data in addition to existing well control led to the Cane Creek Structure map in Exhibit #2 (structure and faults on top of the Cane Creek Interval). Cross section A-A' (Exhibit #3) shows the structural position of the Cane Creek

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Interval as the Interval is cut by faults and individual blocks are down dropped moving to the north off of the structure. At the time of drilling, it was believed that the Fidelity Cane Creek Unit #36-1H would penetrate a new compartment downdip to the north. What was unknown at that time, was what type of fracture system would be penetrated by the new wellbore. Because of proximity to the adjacent thrust faults both west and south of the #36-1H wellbore (Exhibit #2), it was believed that fracturing associated with the faulting could provide the necessary permeability for the Cane Creek Interval reservoir and result in the completion of an economic well.

Pressure data collected from existing wells in the area along with the structural interpretation of the area suggested the potential for development of a new compartment, a compartment with virgin reservoir pressures. On cross section A-A', the Fidelity Cane Creek Unit #2-1 (left side of cross section) located in the SENE Section 2, T26S-R19E, penetrated the Cane Creek Interval at a depth of 6963' MD (measured depth), a subsea depth of -992' (true vertical depth). This well was completed as a Cane Creek Interval producer on 7/12/2004 with IP of 513 BOPD and 657 MCFPD. The well has cumulative production 429,994 BO and 333,461 MCF. The well is capable of approximately 27 BOPD. At the present time, the BHP (bottom hole pressure) in this well is 1322 #'s (See Exhibit #4). This well is drilled on top of a structural high as shown by mapping.

The Second well on cross section A-A' is the Fidelity Cane Creek Unit #1-1 located in the in the NWSW Section 1, T26S-R19E. This well penetrated the Cane Creek Interval at a depth of 7237' MD (measured depth), a subsea depth of -1323' (true vertical depth). Examination of Cross section A-A' shows that the top of Cane Creek (Interval) in the Cane Creek Unit #1-1 well has been down dropped 300 +feet (by faulting) in relation to the structural position of the Cane Creek in the Cane Creek Unit #2-1. The down dropped block has isolated the 100' thick Cane Creek Interval in the Cane Creek Unit #1-1 (-1323' subsea) by more than 200' from the Cane Creek interval found on top of the structure and the Cane Creek Unit #2-1 (-992' subsea) location. The Cane Creek Unit #1-1 well was drilled in a new Cane Creek Interval compartment, separated from the Cane Creek #2-1 by faulting. At this location, the Cane Creek Unit #1-1 encountered a new compartment that lacked porosity and permeability, evidenced by the fact that there was no fluid entry in to the well bore after perforation of the Cane Creek Interval.

Before drilling the Fidelity Cane Creek Unit #36-1H, mapping showed that the top of the Cane Creek Interval in the #36-1H would be sufficiently down dropped due to faulting so that the Cane Creek Interval in the #36-1H would be isolated from the Cane Creek Interval found in the Cane Creek Unit #1-1 well as shown on cross section A-A'. Because the Cane Creek Unit #1-1 well was tested 'tight' in the Cane Creek Interval, the risk was whether or not a fracture network would develop in the new compartment downdip to the north at the Cane Creek Unit #36-1H location? Even if a good fracture network developed at the Cane Creek Unit #36-1H location, would the fractures be salt filled?

The Cane Creek Unit #36-1H was drilled from a surface location in the SWSW Section 36, T25S-R19E. The pilot hole encountered the top of the Cane Creek Interval at a measured depth of 7308', and a subsea depth of -1486'. As shown by mapping on top of the Cane Creek Interval and on cross section A-A', the Cane Creek Interval in the Cane Creek Unit #36-1H has been down dropped due to faulting and sufficiently separated from the Cane Creek Interval in the #1-1 well (subsea top of Cane Creek Interval at -1332' in the #1-1) so that a new compartment has been created in the Cane Creek Interval at the #36-1H location. In order to increase the possibility of penetrating a good fracture network in the Cane Creek Unit #36-1H, a horizontal lateral was drilled in the #36-1H well to the northeast, to a bottom hole location SENE Section 36, T25S-R19E. Steering the wellbore with the use of the 3-D seismic resulted in being able to keep the horizontal lateral 'in zone' within the Cane Ccreek Interval. The Cane Creek Unit #36-1H was completed on September 24, 2013 with initial production of 113 BOPD (See attached completion information).

Compartmentalization Indicated by Pressure Data

Bottom Hole Pressure data have been collected in some of the producing wells in the Cane Creek Unit. The available data are shown on Exhibit #4. The CCU #2-1 well has current BHP reading of 1322 #'s, acceptable for a well which has already produced 430,00 BO and 333,000 MCF. The new Cane Creek Unit #36-1H well had a measured BHP of 6957 #'s at the time of completion. At the present time in this portion of the Cane Creek Federal Unit, it is anticipated that virgin reservoir BHP values should range between 6500# and 7000# in this area at these depths. The conclusion is that the Cane Creek Unit #36-1H well has penetrated a new compartment with virgin reservoir pressures.

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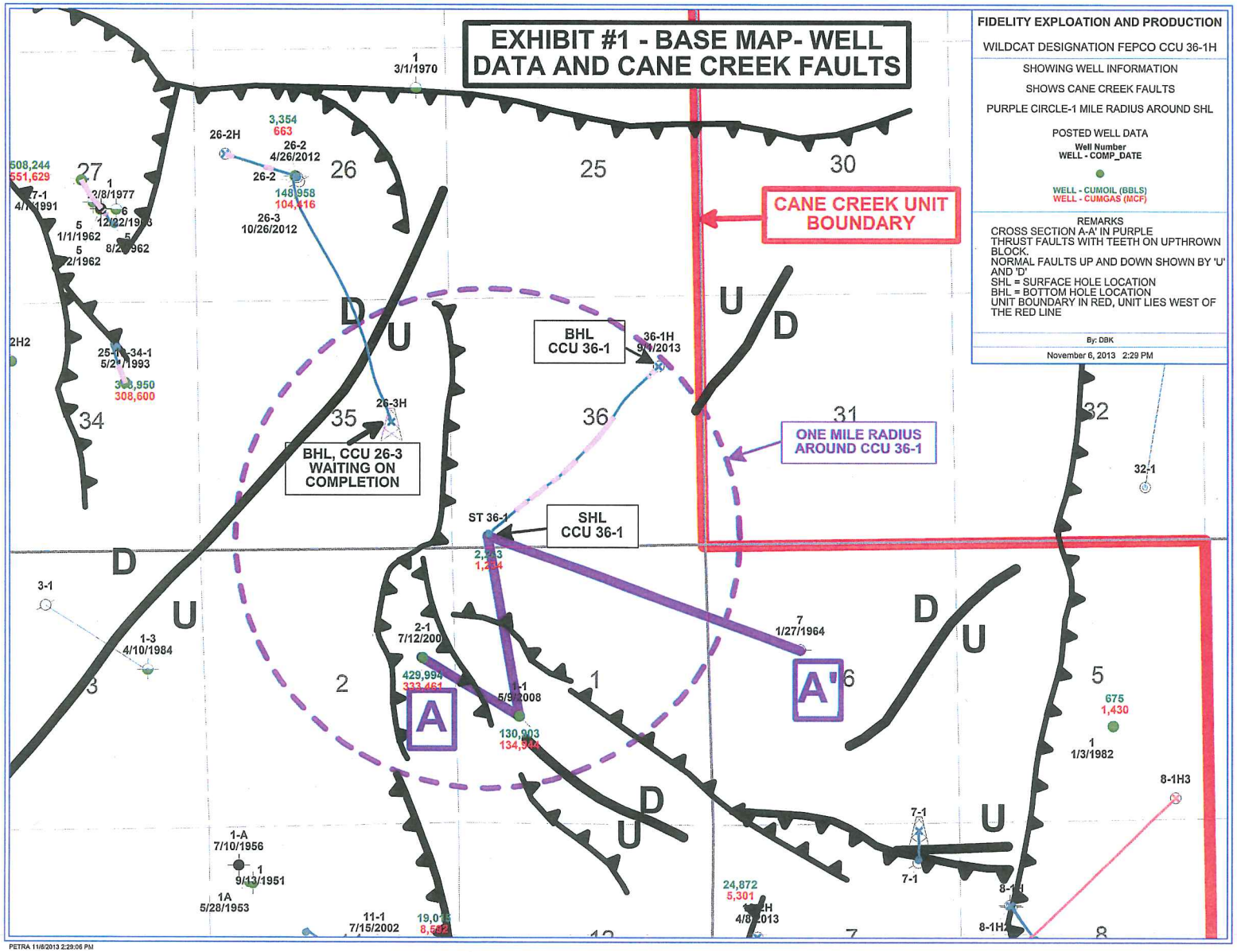
REQUEST FOR SEVERANCE TAX EXEMPTION

The Cane Creek Unit #36-1H was initially drilled and completed to test a new and untapped compartment. Structural data from 3-D seismic strongly suggested the presence of a new, untapped compartment down dip. Without compartmentalization, reservoir engineering analysis dictated Fidelity would not drill an economic well this close to a well that had already produced in excess of 430,000 BO (the CCU #2-1) because of drainage from that well. In addition to the risk of defining a 'new compartment', the always present risk of penetrating a good fracture network (which has not been salt filled) was also present. In an attempt to mitigate this risk of penetrating a 'fracture network', Fidelity drilled a lateral in order to increase the opportunity to intercept a pervasive fracture system. The BHP of 6957 #'s in the Cane Creek Federal #36-1H confirms that a new compartment is now being drained.

Though some good wells have been completed in the Cane Creek Unit, sub economic wells and dry holes are still being drilled. There are numerous basic questions which remain unanswered at the present time. In order to better understand the Cane Creek Interval and bring the Cane Creek Unit to complete development while at the same time preventing waste, Fidelity will need to test and prove up new concepts. Drilling the #36-1H well just over one-half mile from a very good Cane Creek Interval well (the Cane Creek Unit #2-1) presented risks in the form of reservoir drainage, a projected new compartment separated from the #2-1 by two major faults, and the ever present risk of development of a substantial, open fracture system. Based on these defined risks, it is respectfully requested that the Fidelity Cane Creek Unit #36-1H well be granted the Severance Tax Exemption for a Wildcat Well.

Dave Koval
Fidelity Exploration & Production Company Geologist
5552554-2250
Utah Professional Geologist



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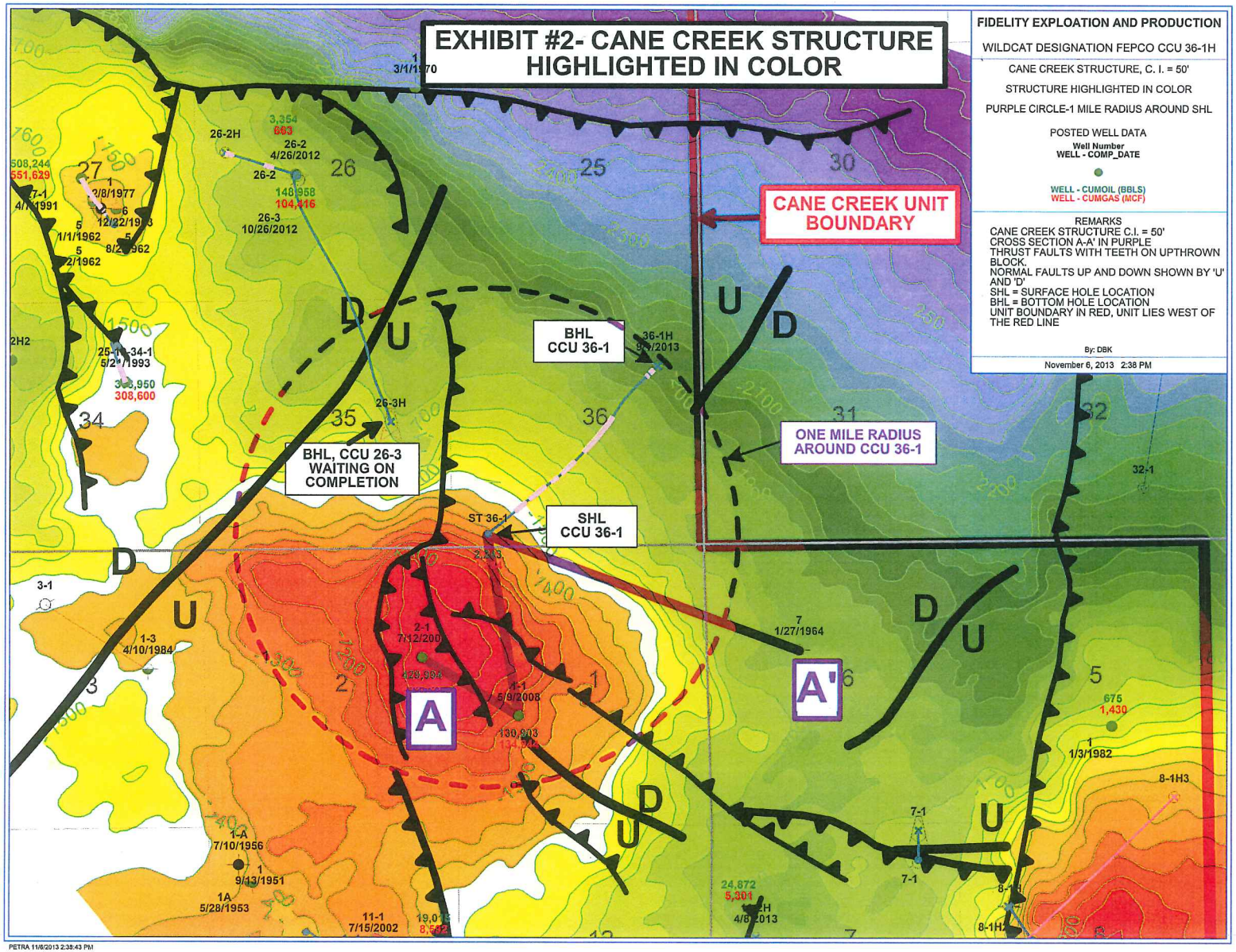

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Sundry Number: 44829 API Well Number: 43019500300000

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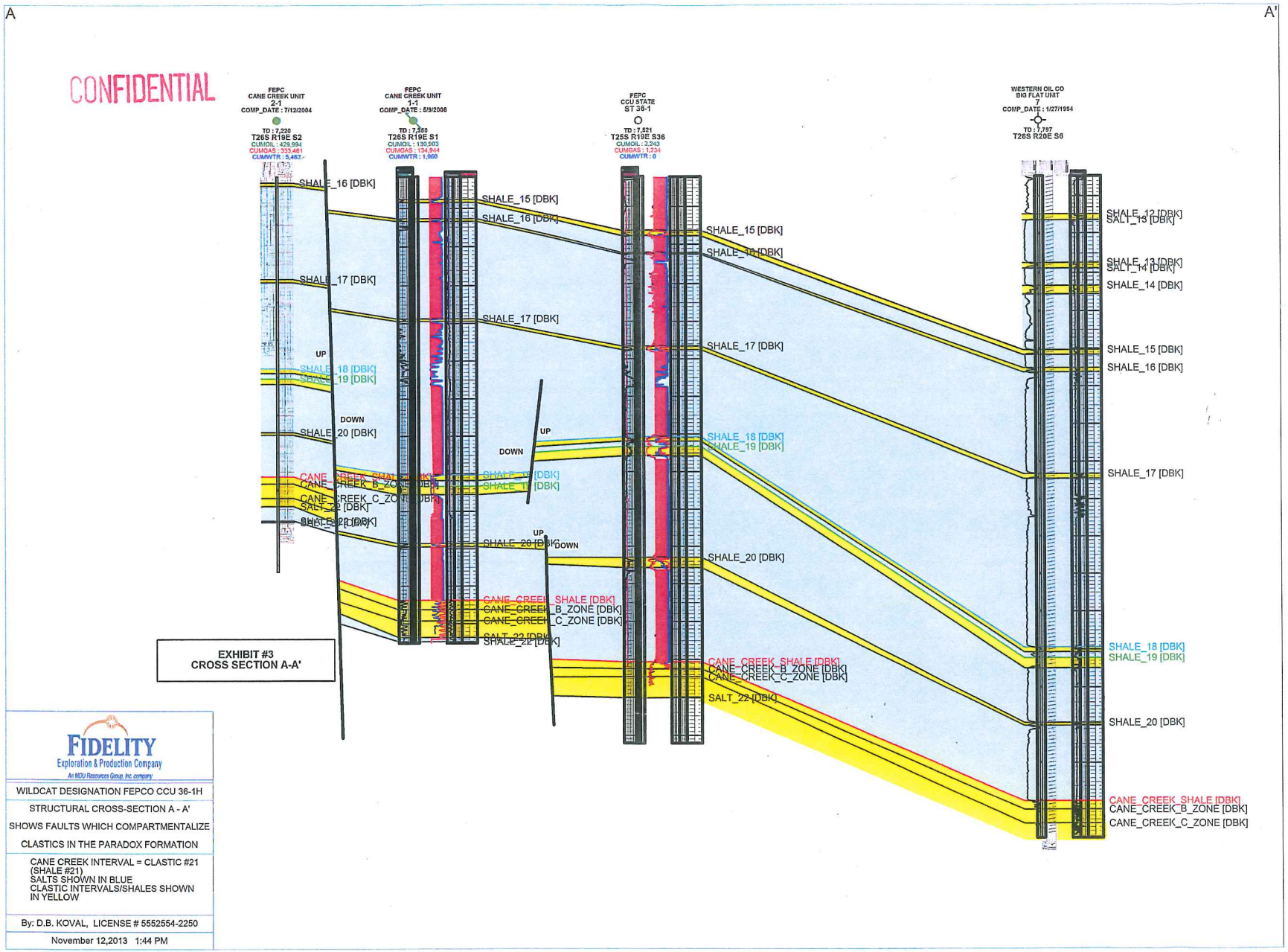


EXHIBIT #3
CROSS SECTION A-A'

FIDELITY
Exploration & Production Company
An MDU Resources Group, Inc. company

WILDCAT DESIGNATION FEPCO CCU 36-1H

STRUCTURAL CROSS-SECTION A - A'

SHOWS FAULTS WHICH COMPARTMENTALIZE

CLASTICS IN THE PARADOX FORMATION

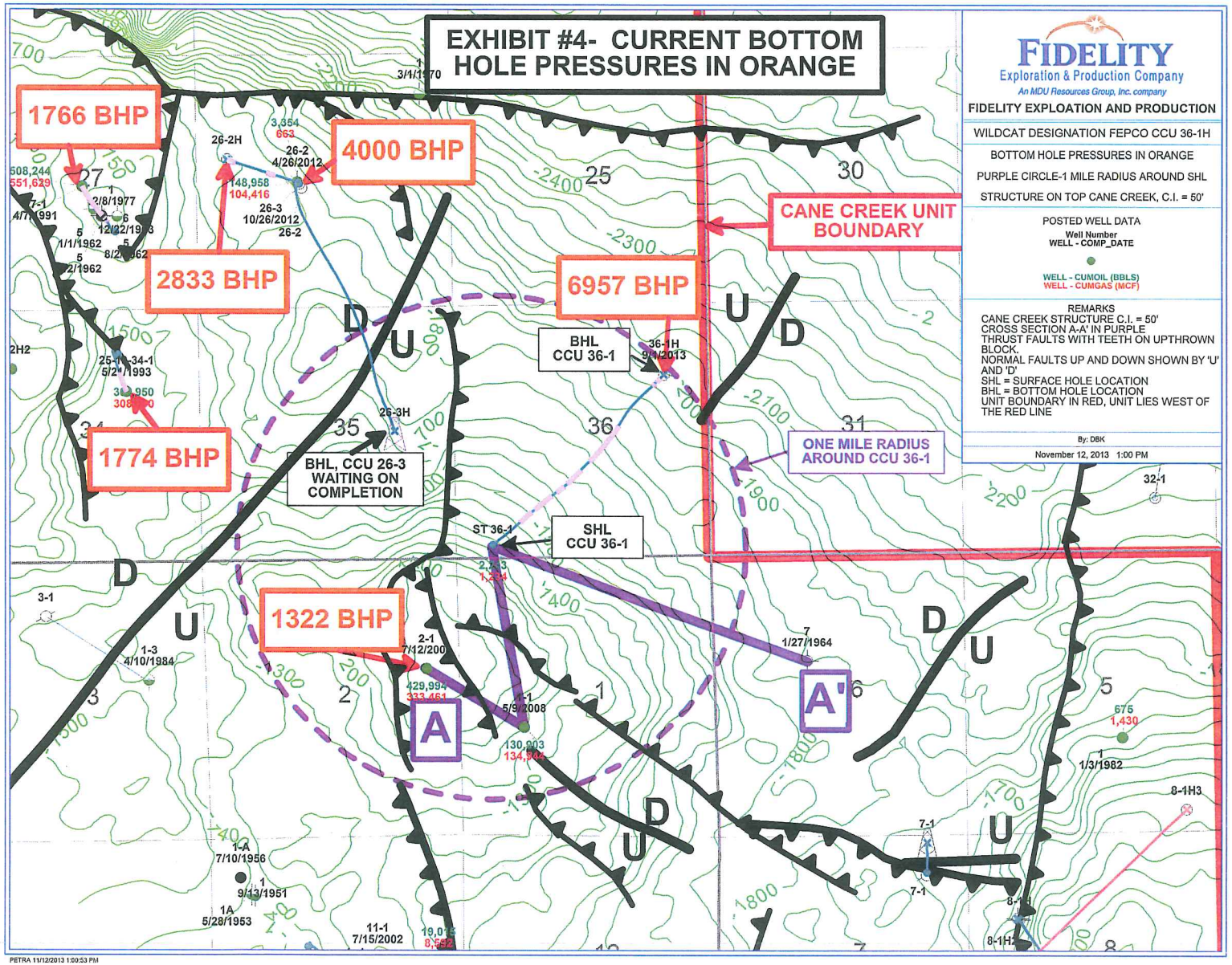
CANE CREEK INTERVAL = CLASTIC #21
(SHALE #21)
SALTS SHOWN IN BLUE
CLASTIC INTERVALS/SHALES SHOWN
IN YELLOW

By: D.B. KOVAL, LICENSE # 5552554-2250

November 12,2013 1:44 PM

PETRA 11/12/2013 1:44:20 PM (5% sev tx 36-1.CSP)

Sundry Number: 44829 API Well Number: 43019500300000



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Sundry Number: 44829 API Well Number: 43019500300000

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STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT ☐ (highlight changes) FORM 8

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. LEASE DESIGNATION AND SERIAL NUMBER: ML-40571

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

1a. TYPE OF WELL: OIL WELL ☑ GAS WELL ☐ DRY ☐ OTHER

7. UNIT or CA AGREEMENT NAME: Cane Creek Unit

b. TYPE OF WORK: NEW WELL ☑ HORIZ. LATS. ☐ DEEP-EN ☐ RE-ENTRY ☐ DIFF. RESVR. ☐ OTHER

8. WELL NAME and NUMBER: Cane Creek unit 36-1

2. NAME OF OPERATOR: Fidelity Exploration & Production Company

9. API NUMBER: 4301950030

3. ADDRESS OF OPERATOR: 1700 Lincoln St CITY Denver STATE CO ZIP 80203

PHONE NUMBER: (303) 893-3133

10 FIELD AND POOL, OR WILDCAT: Undesignated

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: 267 FSL 774 FWL
AT TOP PRODUCING INTERVAL REPORTED BELOW: 608 FSL 1197 FWL SWSW
AT TOTAL DEPTH: 1472 FNL 889 FEL SENE

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSW 36 25S 19E S

12. COUNTY: Grand

13. STATE: UTAH

14. DATE SPUDDED: 5/10/2013

15. DATE T.D. REACHED: 7/29/2013

16. DATE COMPLETED: 9/24/2013 ABANDONED ☐ READY TO PRODUCE ☑

17. ELEVATIONS (DF, RKB, RT, GL): 5797 GL

18. TOTAL DEPTH: MD 12,073 TVD 7,959

19. PLUG BACK T.D.: MD TVD

20. IF MULTIPLE COMPLETIONS, HOW MANY? *

21. DEPTH BRIDGE PLUG SET: MD TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)

23.
WAS WELL CORED? NO ☑ YES ☐ (Submit analysis)
WAS DST RUN? NO ☑ YES ☐ (Submit report)
DIRECTIONAL SURVEY? NO ☐ YES ☑ (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
26	20	52.78	0	80					
17.5	13 3/8 J-55	54.5	0	1,070		Versa 660	273	0	
12.25	9 5/8 HPC	47	0	4,172		Versa 1,045	332	0	
8.5	7 P110	29	0	3,777					
8.5	7 HCP	32	3,777	7,322		Dense 320	101	3761	
7	4.5 P110	15.1	7,145	12,073		Dense 295	92	7143	

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 7/8	7,687	6,383						

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A) Cane Creek	7,690	12,073	7,308	7,399
(B)				
(C)				
(D)				

27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
7,690 11,960	0.37	15,240	Open ☑ Squeezed ☐
			Open ☐ Squeezed ☐
			Open ☐ Squeezed ☐
			Open ☐ Squeezed ☐

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

WAS WELL HYDRAULICALLY FRACTURED? YES ☐ NO ☑ IF YES -- DATE FRACTURED:

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL

29. ENCLOSED ATTACHMENTS:

☐ ELECTRICAL/MECHANICAL LOGS ☐ GEOLOGIC REPORT ☐ DST REPORT ☑ DIRECTIONAL SURVEY
☐ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION ☐ CORE ANALYSIS ☐ OTHER:

30. WELL STATUS: Flowing

(5/2013)

(CONTINUED ON BACK)

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31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
9/24/2013		9/24/2013		24			113	0	0	flowing
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:
7/64	4,180	527					113	0	0	

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

Flared

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.
Paradox	3,646		SH/SLT/ANHY
Salt 1	3,895	4,069	Salt
Cane Creek A	7,308	7,327	SH/SLT/ANHY
Cane Creek B	7,327	7,347	SH/SLT/ANHY
Base Cane Creek		7,399	SH/SLT/ANHY

34. FORMATION (Log) MARKERS:

Name	Top (Measured Depth)
Wingate	15
Chinle	244
Moenkopi	601
Cutler	1,083
Honaker Trail	2,130

35. ADDITIONAL REMARKS (Include plugging procedure)

*Top of cmt is CAL. Open hole cement plug in pilot hole is from 7521 (TD in pilot hole) to 6442 (KOP)

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) Joy Gardner TITLE Sr. Engineering Tech

SIGNATURE Joy Gardner DATE 10/25/2013

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

(5/2013)

Sundry Number: 44829 API Well Number: 43019500300000

FIDELITY Exploration & Production Company
An MDU Resources Group company

Frontier 10

Fidelity Exploration & Production Co.

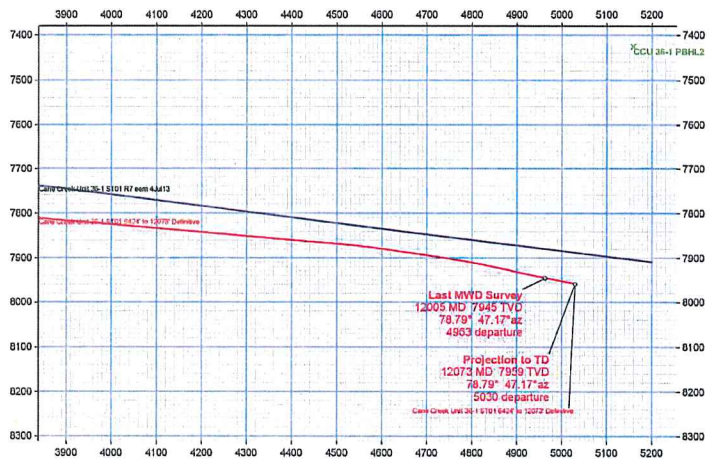
PATHFINDER
A Schlumberger Company

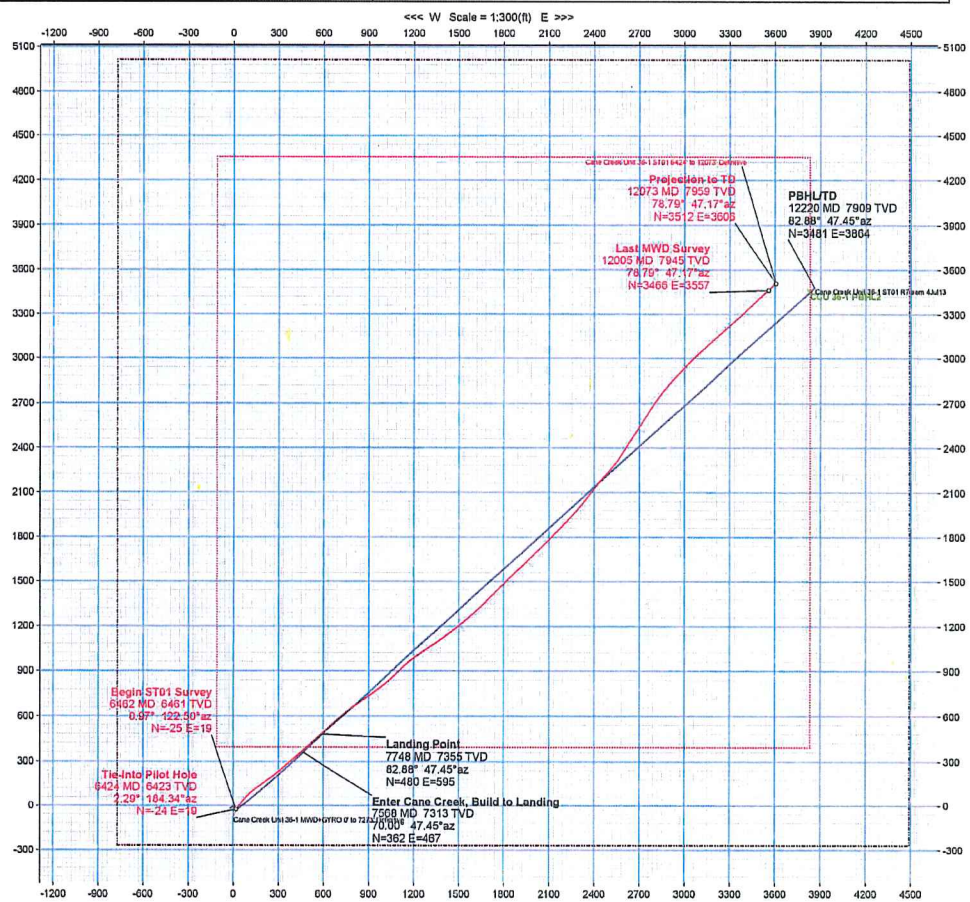
WELL	FIELD	STRUCTURE
Cane Creek Unit #36-1	Grand County, UT	Fidelity Sec 36 T25S R19E (Cane Creek 36-1H)

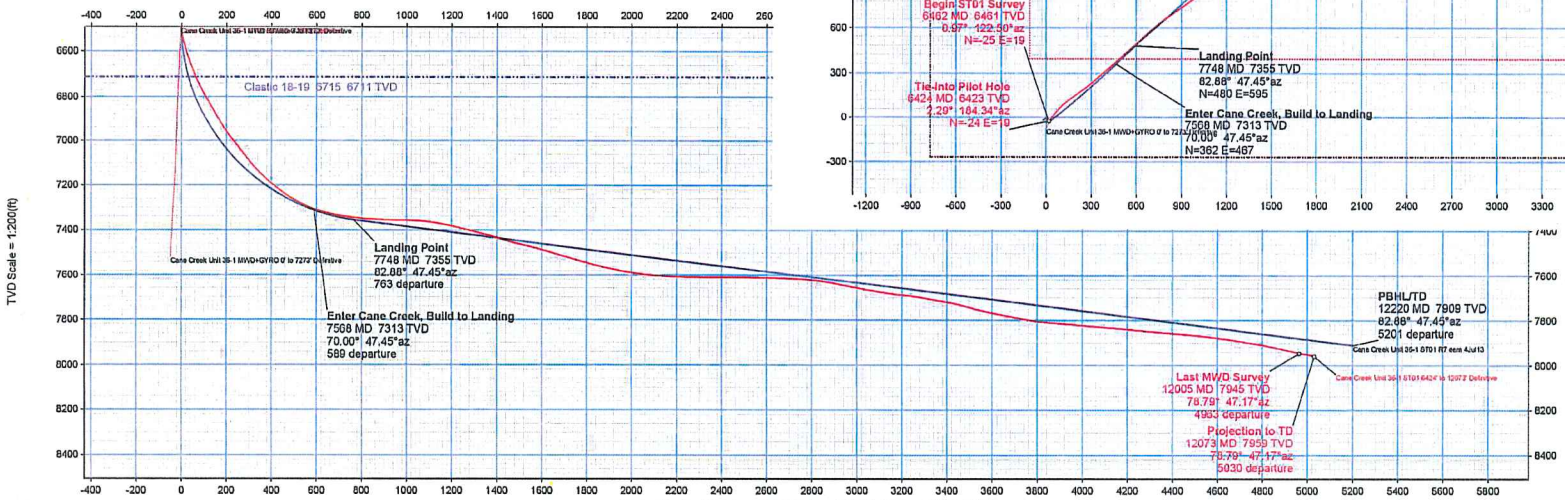
Magnetic Parameters						Surface Location						Miscellaneous			
Model:	BGGM 2013	Dip:	64.596°	Date:	July 15, 2013	Lat:	N 38 34 48.250	Northing:	94605.10 ftUS	Grid Conv:	1.102°	Slot:	Cane Creek Unit #36-1	TVD Ref:	RKB(5820ft above Mean Sea Level)
		Mag Dec:	10.785°	FS:	51224.1nT	Lon:	W 109 46 45.919	Easting:	2491926.40 ftUS	Scale Fact:	1.00013628	Plan:	Cane Creek Unit 36-1 ST01 6424' to 7483'	Survey Date:	July 15, 2013

PvA

True North
Tot Corr (M->T 10.784°)
Mag Dec (10.785°)
Grid Corr (1.102°)







Drawn By:	Current User
Date Created:	July 15, 2013 07:34:17 AM
Checked By:	
Checked Date:	
Approved By:	
Approved Date:	

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Form 3160-5
(March 2012)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2014

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE – *Other instructions on page 2.*

5. Lease Serial No.
ML 40571

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No.
Cane Creek

1. Type of Well
☐ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
Cane Creek 36-1

2. Name of Operator
Fidelity Exploration & Production Company

9. API Well No.
43-019-50030

3a. Address
1700 Lincoln St Suite 2800 Denver, CO 80203

3b. Phone No. *(include area code)*
303-893-3133

10. Field and Pool or Exploratory Area
Big Flat

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)*
267 FSL 774 FWL Sec 36 T25S R19E

11. County or Parish, State
Grand, UT

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☑ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other Gas Gathering
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Please see the attached engineering details and description of work to be done.

Accepted by the
Utah Division of
Oil, Gas and Mining
For Record Only

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DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)*
Joy Gardner

Title Sr. Engineering Tech

Signature Joy Gardner

Date 1/8/2014

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

FIDELITY
Exploration & Production Company

12/31/2013

Project Description: Cane Creek 36-1 (API No. 43-019-50030) Gas Gathering Line
Drawing Reference: Cane Creek 36-1 Gathering Line Plan

A 9,627-foot long gathering line will be installed to transfer produced gas from the pressurized process equipment at the Cane Creek 36-1 location and deliver it to the Dead Horse Lateral pipeline for subsequent compression and processing for natural gas liquids recovery and sales-grade natural gas transmission. This gas gathering will reduce flaring emissions and increase total resource recovery. The Cane Creek 36-1 flare will remain in place and will be used during planned, unplanned, and emergency outages of the gathering, pipeline, booster compression, and gas plant systems.

The Cane Creek 36-1 location is located on land owned by the state of Utah and administered by the School and Institutional Trust Lands Administration (SITLA). The gas gathering line will be installed within the existing road right-of-way, where possible, and in previously disturbed areas. The existing road crosses through Section 36, T25S, R19E, and Sections 1 and 2, T26S, R19E. In addition, approximately 1830-feet of the gas gathering line will cross a previously disturbed and reclaimed well pad and access road in Section 2, T26S, R19E. Both Section 36, T25S, R19E, and Section 2, T26S, R19E, are owned by the state of Utah and administered by SITLA. Section 1, T26S, R19E, is administered by the BLM.

The Cane Creek 36-1 gathering line will be constructed of 6 1/2-inch Fiberspar piping material in Segment 1 (A to B on Drawing C-5) and 8-inch steel in Segment 2 (B to C on Drawing C-5) with carbon steel transitions in locations where the buried gathering line comes to surface to make connections with associated systems. The gathering line will be buried at a minimum depth of 3-feet. The Cane Creek 36-1 gathering line will surface at the well pad, the tie-in point to the Dead Horse Lateral pipeline, and low point drain sites located at the topographical low points.

Low point drain valves will extend approximately 2.5-feet above grade (Detail M8 Low Point Drain) and will be protected by a 3-foot high by 3-foot wide by 3-foot long pipe barrier (Detail M1B Pigging Valve Protection). The low point drain locations are shown in the Cane Creek 36-1 gathering line plan and profile views on Sheet C-5.

The Cane Creek 36-1 gathering line will be installed in the existing road right-of-way, and for access roads constructed as part of the original APD, within the 35-foot access road construction width. The construction corridor will be 30-feet wide, minimized wherever possible depending upon the terrain. When there is no existing road right-of-way the disturbance will not exceed a 30-foot width. Trenched road crossings with a minimum 3-foot buried depth will be used to route the gathering line along a path that minimizes the surface disturbance and rock blasting. The gathering line will be protected with a steel sleeve for all trenched crossings (Details M4 & M5). Boring technology and equipment will be used to cross under State Route 313 (Detail M3) with a minimum 6-foot buried depth below the running surface.

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1700 Lincoln Street Suite – 2800, Denver, Colorado 80203 • 303-893-3133 • Fax 303-893-1964

The gathering line will transfer water saturated produced gas from the wellsite to the Dead Horse Lateral pipeline. A certain amount of liquid condensation is anticipated and planned for in the design. Low Point Drain collection points will be sited at topographical low points to allow a vacuum truck to connect to the gathering line to removed standing liquids that would otherwise impede the flow of gas. In addition, low-profile pigging valves will be installed at the wellsite, at any tee connection to the gathering line, and at the connection point to the Dead Horse Lateral pipeline. The pigging valves are necessary to provide for clean out of any condensate that may collect in the line.

A typical pig launcher to be installed at the wellsite is shown in Detail M7. A typical pig receiver/gathering line connection and bypass valve is shown in Detail M6. Both will be supported by a pigging support stand (Detail M2) and will be protected by a 3-foot high by 4-foot wide by 16-foot long (approximately) pipe barrier (Detail M1A pigging valve protection).

Isolation valves are provided at the connection of the gathering line to the Dead Horse Lateral pipeline. The isolation valve allows maintenance to be performed on the gathering line without requiring the Dead Horse Lateral pipeline and other associated gathering lines to be taken offline thus minimizing gas flaring volumes during maintenance procedures.

Each gathering line installation crew will consist of five workers. Two or three crews may be working simultaneously in different locations under the supervision of one superintendent in order to meet the total project schedule. One road boring crew, consisting of five people, will install the bored road crossings under State Route 313. Construction will commence in early 2014, as soon as approval is received from BLM and UDOGM.

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FIDELITY
Exploration & Production Company
An MDU Resources Group company

FIDELITY EXPLORATION AND PRODUCTION
GAS GATHERING PROJECT
DEAD HORSE LATERAL
MOAB, UTAH

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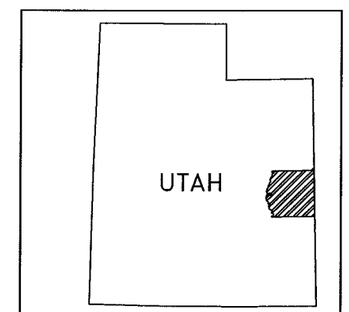

GENERAL LOCATION

TOWNSHIPS 26S & 25S RANGES 19E & 20E
SECTIONS 12, 13, 17, 18, 36
MOAB, GRAND COUNTY
UTAH

DRAWING INDEX

C-0	COVER SHEET
C-1	CANE CREEK 12-1 GATHERING LINE PLAN & PROFILE
C-2	CANE CREEK 17-1 & 17-2 GATHERING LINE PLAN & PROFILE
C-3	CANE CREEK 18-1 & 18-2 GATHERING LINE PLAN & PROFILE
C-4	CANE CREEK 24-1 GATHERING LINE PLAN & PROFILE
C-5	**CANE CREEK 36-1 GATHERING LINE PLAN & PROFILE**
C-6	CANE CREEK 2-1 GATHERING LINE PLAN & PROFILE
C-7	CANE CREEK 7-1 GATHERING LINE PLAN & PROFILE
C-8	CANE CREEK 26-2 & 26-3 GATHERING LINE PLAN & PROFILE
C-9	CANE CREEK GATHERING LINE DETAILS

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REFERENCES

dwg. no.	title

REVISIONS

rev	description	b	date	chk by	chk date
	PIPE SCH CHANGES		12/12/13		
	REVISION		12/31/13		
	REVISED PER COMMENTS		01/06/14		

rkmechanical

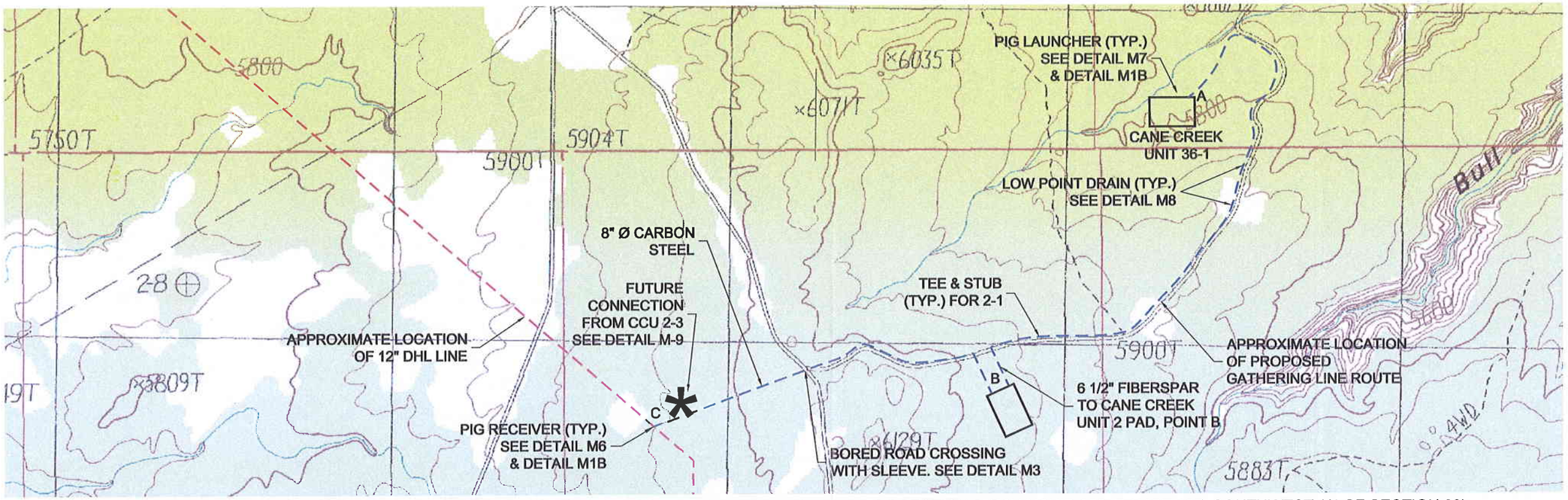
Columbia Engineering
LAND PLANNERS • CIVIL ENGINEERS • LANDSCAPE ARCHITECTS • SURVEYORS
3783 MEADOW CHURCH RD
SUITE 100
DULUTH, GA 30097
(770) 904-0857

RCE RIVER CITY ENGINEERING

DATE
11/05/2013
Job Number
4160.10

C-0

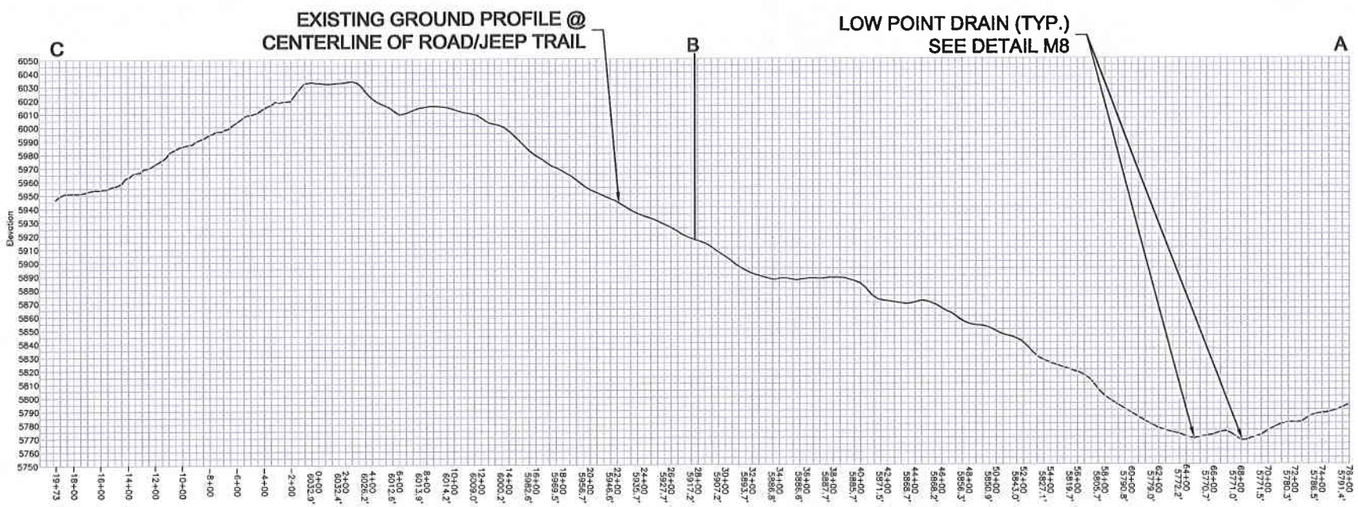
COLUMBIA ENGINEERING
2763 MEADOW CHURCH RD
SUITE 100
DULUTH, GEORGIA 30097
(770) 925-0357



NOTE:
BACKGROUND IMAGES TAKEN FROM QUAD MAPS: THE KNOLL, UTAH - PROVISIONAL EDITION - 1988 - 38109-E7-TF-024

(TOWNSHIP 26S, RANGE 19E, NORTHWEST 1/4 OF SECTION 1 & NORTH 1/2 OF SECTION 2, TOWNSHIP 25S, RANGE 19E, SOUTHWEST 1/4 OF SECTION 36)

CANE CREEK 36-1 GATHERING LINE PLAN



NOTE:
GROUND RUN PROFILE WAS TAKEN FROM A SURVEY, PREPARED BY KEOGH LAND SURVEYING, DATED 09/18/2013. ASSUMED ALIGNMENT IS AT THE CENTERLINE OF ROAD. THE ACTUAL PROFILE LENGTH & GROUND ELEVATIONS AT THE PROPOSED GATHERING LINE LOCATION MAY VARY FROM WHAT IS SHOWN.

CANE CREEK 36-1 GATHERING LINE PROFILE

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GRAPHIC SCALE
500 0 250 500 1000 2000
(IN FEET)

NOTES
1. FUTURE CONNECTION *

MOAB GATHERING LINES PROJECT 36-1

36-PAD TO DHL LEG DESCRIPTION	DISTANCE OF LEG	UNITS SERVED	ESTIMATED PEAK FLOW	ESTIMATED MID FLOW	ESTIMATED LOW FLOW	GATHERING LINE SIZE			
						SCH 40 CS		FS 750	
			MMSCFD			NOM	I.D.	NOM	I.D.
A to B	4,813'	36-1	2.00	1.00	0.50	6	6.025	6-1/2	5.60
B to C	4,814'	36-1 & 2-1	4.00	2.00	1.00	8	7.981	N/A	N/A

PIPE LINE LEGEND

12" MAIN GAS TRUNK LINE	
12-1 GATHERING LINE	
FUTURE BRANCH GATHERING LINES	

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PROJECT
PARADOX GAS GATHERING LINES
TOWNSHIP 26S, RANGE 19E, NORTHWEST 1/4 OF SECTION 1 & NORTH 1/2 OF SECTION 2, TOWNSHIP 25S, RANGE 19E, SOUTHWEST 1/4 OF SECTION 36 -GRAND COUNTY, UTAH

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DENVER, CO 80203

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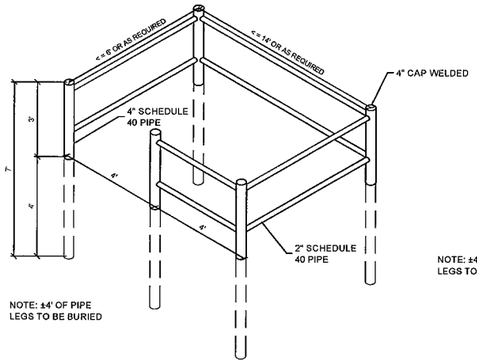
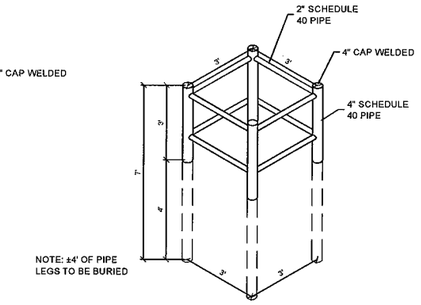
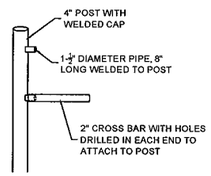
REVISIONS	DATE
PIPE SCH CHANGES	12/12/13
REVISION	12/31/13
REVISED PER COMMENTS	01/05/14

DRAWING TITLE
CANE CREEK
36-1
GATHERING LINE

DRAWING FILE		
DRAWN BY	JCW	DRAWING NO.
DATE	11/05/2013	C-5
PROJECT NO	4160.10	

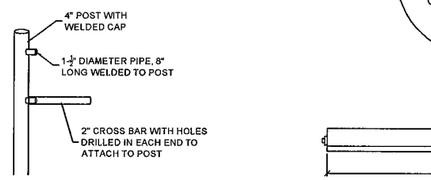






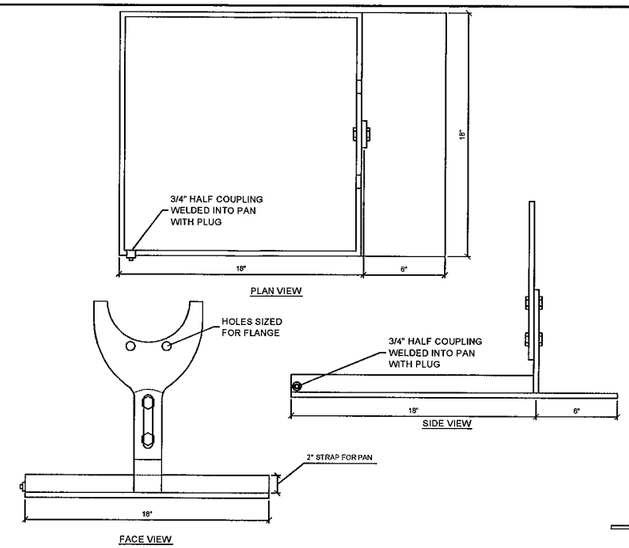
M1A PIGGING VALVE PROTECTION

NOT TO SCALE



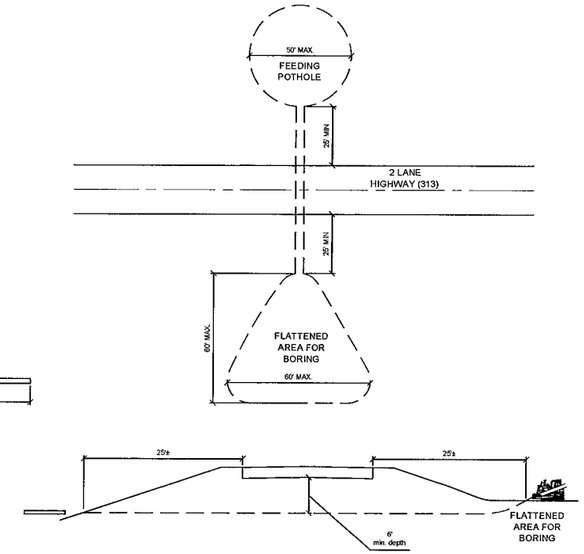
M1B PIGGING VALVE PROTECTION

NOT TO SCALE



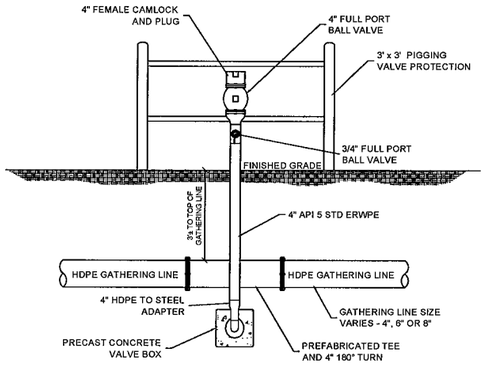
M2 TYPICAL PIGGING SUPPORT STAND

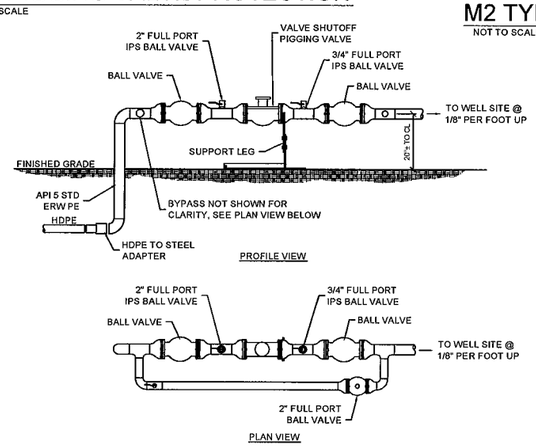
NOT TO SCALE



M3 TYPICAL BORED ROAD CROSSING

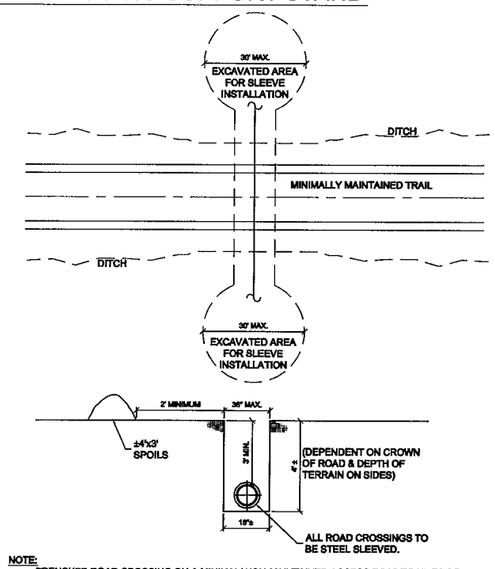
NOT TO SCALE





M7 TYPICAL PIG LAUNCHER

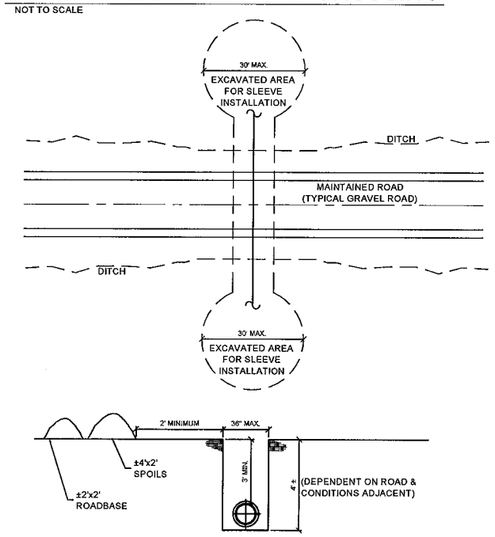
NOT TO SCALE



NOTE:
TRENCHED ROAD CROSSING ON A MINIMAL/ NON-MAINTAINED ACCESS ROAD/TRAIL TO BE COMPACTED TO 90% IN A MAXIMUM OF 1' LIFTS DURING BACKFILL OPERATIONS. SURFACE CONDITIONS TO BE FINISHED AS CLOSE AS POSSIBLE TO EXISTING CONDITIONS OR BETTER.

M5 TYPICAL TRENCHED ROAD CROSSING

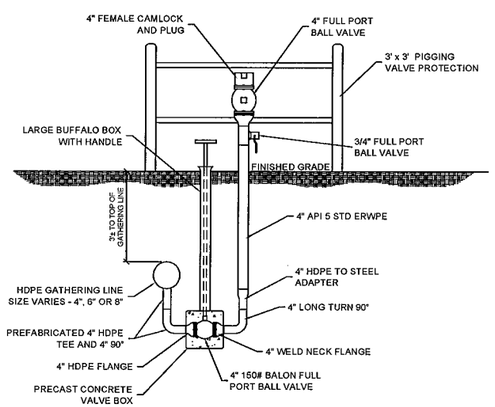
NOT TO SCALE



NOTE:
TRENCHED ROAD CROSSING ON A MAINTAINED ROAD. CARRIER PIPE TO HAVE A STEEL SLEEVE TO PROTECT FROM CRUSH. SLEEVE TO EXTEND 4' ± FROM EDGE OF NORMALLY TRAVELED SURFACE. ROAD BASE TO BE REMOVED PRIOR TO TRENCHING AND REPLACED ON TOP. SPOILS TO BE COMPACTED TO 95% IN A MAXIMUM OF 1' LIFTS DURING BACKFILL OPERATIONS. SURFACE CONDITIONS TO BE FINISHED AS CLOSE AS POSSIBLE TO EXISTING CONDITIONS OR BETTER.

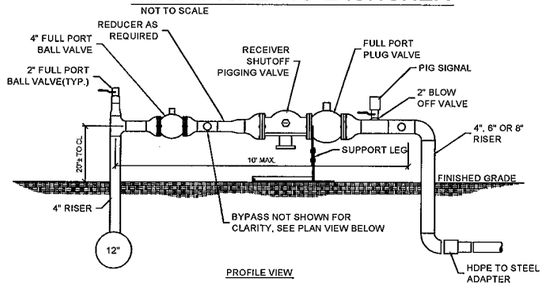
M4 TYPICAL TRENCHED ROAD CROSSING

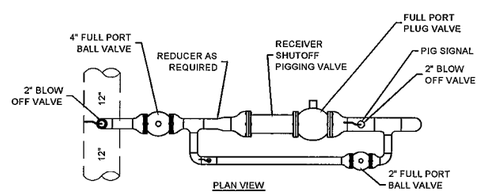
NOT TO SCALE



M8 LOW POINT DRAIN

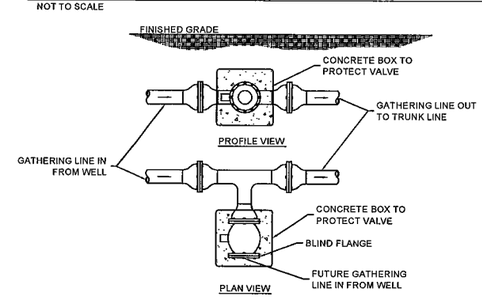
NOT TO SCALE





M6 GATHERING LINE CONEECTION & BYPASS

NOT TO SCALE



M9 FUTURE TIE IN DETAIL

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PROJECT
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- GRAND COUNTY, UTAH

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REVISIONS	DATE

DRAWING TITLE

CANE CREEK GATHERING LINE DETAILS

DRAWING FILE:		
DRAWN BY	JCW	DRAWING NO.
DATE	11/05/2013	C-9
PROJECT NO.	4160.10	

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API Well Number: 43019500300000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT ☐ (highlight changes) FORM 8

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. LEASE DESIGNATION AND SERIAL NUMBER: ML-40571

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

1a. TYPE OF WELL: OIL WELL ☑ GAS WELL ☐ DRY ☐ OTHER

7. UNIT or CA AGREEMENT NAME: Cane Creek Unit

b. TYPE OF WORK: NEW WELL ☑ HORIZ. LATS. ☐ DEEP-EN ☐ RE-ENTRY ☐ DIFF. RESVR. ☐ OTHER

8. WELL NAME and NUMBER: Cane Creek unit 36-1

2. NAME OF OPERATOR: Fidelity Exploration & Production Company

9. API NUMBER: 4301950030

3. ADDRESS OF OPERATOR: 1700 Lincoln St CITY Denver STATE CO ZIP 80203

PHONE NUMBER: (303) 893-3133

10 FIELD AND POOL, OR WILDCAT: Undesignated

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: 267 FSL 774 FWL
AT TOP PRODUCING INTERVAL REPORTED BELOW: 608 FSL 1197 FWL SWSW
AT TOTAL DEPTH: 1472 FNL 889 FEL SENE

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSW 36 25S 19E S

12. COUNTY: Grand

13. STATE: UTAH

14. DATE SPUDDED: 5/10/2013

15. DATE T.D. REACHED: 7/29/2013

16. DATE COMPLETED: 9/24/2013 ABANDONED ☐ READY TO PRODUCE ☑

17. ELEVATIONS (DF, RKB, RT, GL): 5797 GL

18. TOTAL DEPTH: MD 12,073 TVD 7,959

19. PLUG BACK T.D.: MD TVD

20. IF MULTIPLE COMPLETIONS, HOW MANY? *

21. DEPTH BRIDGE PLUG SET: MD TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)

23.
WAS WELL CORED? NO ☑ YES ☐ (Submit analysis)
WAS DST RUN? NO ☑ YES ☐ (Submit report)
DIRECTIONAL SURVEY? NO ☐ YES ☑ (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
26	20	52.78	0	80					
17.5	13 3/8 J-55	54.5	0	1,070		Versa+ 660	273	0	
12.25	9 5/8 HPC+	47	0	4,172		Versa+ 1,045	332	0	
8.5	7 P110+	29	0	3,777					
8.5	7 HCP+	32	3,777	7,322		Dense+ 320	101	3761	
7	4.5 P110+	15.1	7,145	12,073		Dense+ 295	92	7143	

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 7/8	7,687	6,383						

26. PRODUCING INTERVALS

27. PERFORATION RECORD

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) Cane Creek	7,690	12,073	7,308	7,399	7,690 11,960	0.37	15,240	Open ☑ Squeezed ☐
(B)								Open ☐ Squeezed ☐
(C)								Open ☐ Squeezed ☐
(D)								Open ☐ Squeezed ☐

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

WAS WELL HYDRAULICALLY FRACTURED? YES ☐ NO ☑ IF YES – DATE FRACTURED:

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL

29. ENCLOSED ATTACHMENTS:
☐ ELECTRICAL/MECHANICAL LOGS ☐ GEOLOGIC REPORT ☐ DST REPORT ☑ DIRECTIONAL SURVEY
☐ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION ☐ CORE ANALYSIS ☐ OTHER:

30. WELL STATUS: Flowing

(5/2013)

(CONTINUED ON BACK)

RECEIVED: Nov. 07, 2013

API Well Number: 43019500300000

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
9/24/2013	9/24/2013	24		113	0	0	flowing

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:
7/64	4,180	527					113	0	0	

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

Flared

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.
Paradox	3,646		SH/SLT/ANHY
Salt 1	3,895	4,069	Salt
Cane Creek A	7,308	7,327	SH/SLT/ANHY
Cane Creek B	7,327	7,347	SH/SLT/ANHY
Base Cane Creek		7,399	SH/SLT/ANHY

34. FORMATION (Log) MARKERS:

Name	Top (Measured Depth)
Wingate	15
Chinle	244
Moenkopi	601
Cutler	1,083
Honaker Trail	2,130

35. ADDITIONAL REMARKS (Include plugging procedure)

*Top of cmt is CAL. Open hole cement plug in pilot hole is from 7521 (TD in pilot hole) to 6442 (KOP)

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) Joy Gardner TITLE Sr. Engineering Tech

SIGNATURE Joy Gardner DATE 10/25/2013

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

(5/2013)

RECEIVED: Nov. 07, 2013

Tie-in Date: 06/23/2013
Date Completed: 07/28/2013

API Well Number: 4301950030000

PathFinder Energy Services, Inc.
Survey Report

FIDELITY EXPLORATION & PRODUCTION
CANE CREEK UNIT #36-1 ST1
GRAND COUNTY, UT
Rig:FRONTIER
PathFinder Office Supervisor:
PathFinder Field Engineers: PAUL FOREMAN
STEVE LEJEUNE
DUSTIN EASLEY
Survey Calculations by RX5 V6.04D using Minimum Curvature

Survey Horiz. Reference:WELLHEAD
Ref Coordinates: LAT:38.34.48.2412 N LON:109.46.45.9192 W
GRID Reference:NAD27 utah central Lambert
Ref GRID Coor: X: 2491926.4073 Y: 94604.2123
North Aligned To:TRUE NORTH
Total Magnetic Correction:10.73°EAST TO TRUE
Vertical Section Plane: 47.95
Survey Vert. Reference: 23.00' Rotary Table To Ground
Altitude:5797.00' Ground To MSL

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft)	(ft)	Closure Dist (ft)	Dir (deg)	DLS (dg/100ft)
THE FOLLOWING ARE SCIENTIFIC DRILLING GYRO SURVEYS.										
0.00	0.00	0.00	-0.00	0.00	-0.01	0.01 S	0.00 W	0.01@	180.80	0.00
100.00	0.07	172.63	100.00	100.00	-0.04	0.07 S	0.01 E	0.07@	173.76	0.07
200.00	0.11	350.06	200.00	100.00	-0.03	0.04 S	0.00 W	0.04@	181.62	0.18
300.00	0.34	312.54	300.00	100.00	-0.00	0.26 N	0.24 W	0.35@	317.60	0.26
400.00	0.14	61.40	400.00	100.00	0.09	0.52 N	0.35 W	0.62@	326.13	0.41
500.00	0.37	180.84	500.00	100.00	-0.01	0.25 N	0.25 W	0.35@	315.95	0.46
600.00	0.49	186.25	599.99	100.00	-0.55	0.49 S	0.30 W	0.58@	210.93	0.13
700.00	0.30	157.39	699.99	100.00	-0.96	1.16 S	0.24 W	1.19@	191.78	0.27
800.00	0.27	160.63	799.99	100.00	-1.14	1.63 S	0.06 W	1.63@	182.24	0.03
900.00	0.24	167.51	899.99	100.00	-1.33	2.05 S	0.06 E	2.05@	178.33	0.04
1000.00	0.25	183.24	999.99	100.00	-1.59	2.47 S	0.09 E	2.48@	177.85	0.07
1100.00	0.16	193.21	1099.99	100.00	-1.86	2.83 S	0.05 E	2.83@	179.01	0.10
1200.00	0.12	89.16	1199.99	100.00	-1.89	2.96 S	0.12 E	2.96@	177.65	0.22
1300.00	0.13	129.65	1299.99	100.00	-1.80	3.03 S	0.31 E	3.05@	174.10	0.09
1400.00	0.17	272.26	1399.99	100.00	-1.89	3.10 S	0.25 E	3.11@	175.34	0.28
1500.00	0.17	19.99	1499.99	100.00	-1.86	2.95 S	0.16 E	2.96@	176.99	0.27
1600.00	0.06	117.70	1599.99	100.00	-1.71	2.84 S	0.25 E	2.85@	174.92	0.19
1700.00	0.12	343.10	1699.99	100.00	-1.65	2.76 S	0.27 E	2.78@	174.46	0.17
1800.00	0.12	70.48	1799.99	100.00	-1.51	2.63 S	0.34 E	2.65@	172.71	0.17
1900.00	0.11	261.02	1899.99	100.00	-1.49	2.61 S	0.34 E	2.63@	172.57	0.23
2000.00	0.13	110.44	1999.99	100.00	-1.52	2.66 S	0.35 E	2.69@	172.48	0.23
2100.00	0.13	8.19	2099.99	100.00	-1.38	2.59 S	0.47 E	2.63@	169.63	0.20
2200.00	0.06	162.67	2199.99	100.00	-1.32	2.53 S	0.51 E	2.58@	168.68	0.19
2300.00	0.16	209.92	2299.99	100.00	-1.47	2.70 S	0.45 E	2.74@	170.50	0.13
2400.00	0.10	150.87	2399.99	100.00	-1.62	2.90 S	0.42 E	2.93@	171.66	0.14

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PathFinder Energy Services, Inc.
Survey Report

FIDELITY EXPLORATION & PRODUCTION
CANE CREEK UNIT #36-1 ST1
GRAND COUNTY, UT
RIG:FRONTIER

API Well Number: 4301950030000

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft)	(ft)	Closure Dist (ft)	Dir (deg)	DLS (dg/100ft)
2500.00	0.17	243.80	2499.98	100.00	-1.79	3.04 S	0.33 E	3.06@	173.73	0.20
2600.00	0.13	187.75	2599.98	100.00	-2.02	3.22 S	0.19 E	3.22@	176.70	0.14
2700.00	0.09	276.52	2699.98	100.00	-2.15	3.32 S	0.09 E	3.32@	178.41	0.16
2800.00	0.21	168.80	2799.98	100.00	-2.30	3.49 S	0.05 E	3.49@	179.18	0.25
2900.00	0.12	282.08	2899.98	100.00	-2.46	3.65 S	0.02 W	3.65@	180.27	0.28
3000.00	0.33	171.22	2999.98	100.00	-2.68	3.91 S	0.08 W	3.91@	181.10	0.39
3100.00	0.19	242.06	3099.98	100.00	-2.99	4.27 S	0.18 W	4.28@	182.38	0.32
3200.00	0.39	224.06	3199.98	100.00	-3.49	4.60 S	0.56 W	4.63@	186.96	0.22
3300.00	0.33	241.91	3299.98	100.00	-4.11	4.98 S	1.05 W	5.09@	191.94	0.13
3400.00	0.14	169.76	3399.98	100.00	-4.46	5.23 S	1.28 W	5.39@	193.79	0.32
3500.00	0.34	239.15	3499.98	100.00	-4.81	5.50 S	1.52 W	5.71@	195.41	0.32
3600.00	0.14	205.66	3599.98	100.00	-5.22	5.77 S	1.82 W	6.05@	197.56	0.24
3700.00	0.37	196.24	3699.98	100.00	-5.60	6.19 S	1.97 W	6.49@	197.65	0.23
3800.00	0.67	219.99	3799.97	100.00	-6.46	6.94 S	2.43 W	7.36@	199.32	0.36
3900.00	0.88	246.83	3899.96	100.00	-7.76	7.69 S	3.52 W	8.46@	204.56	0.41
4000.00	2.17	250.35	3999.93	100.00	-10.24	8.63 S	6.00 W	10.52@	214.82	1.29
** TIE INTO SCIENTIFIC DRILLING GYRO SURVEY AT 4100'MD.										
4100.00	3.10	232.39	4099.82	100.00	-14.69	10.92 S	9.93 W	14.76@	222.28	1.23
THE FOLLOWING SURVEYS ARE PATHFINDER MWD SURVEYS.										
4262.00	2.81	241.92	4261.61	162.00	-22.91	15.46 S	16.90 W	22.91@	227.55	0.35
4356.00	1.93	240.91	4355.52	94.00	-26.69	17.32 S	20.32 W	26.70@	229.56	0.94
4451.00	0.26	65.37	4450.51	95.00	-28.04	18.00 S	21.52 W	28.06@	230.09	2.31
4545.00	0.44	92.61	4544.51	94.00	-27.58	17.93 S	20.97 W	27.59@	229.46	0.25
4639.00	0.62	81.05	4638.50	94.00	-26.90	17.87 S	20.10 W	26.90@	228.37	0.22
4733.00	0.88	83.30	4732.49	94.00	-25.88	17.71 S	18.89 W	25.89@	226.85	0.28
4827.00	1.14	70.61	4826.48	94.00	-24.43	17.31 S	17.29 W	24.46@	224.96	0.36
4920.00	1.41	70.77	4919.46	93.00	-22.52	16.63 S	15.33 W	22.62@	222.68	0.29
5015.00	1.58	66.90	5014.42	95.00	-20.21	15.73 S	13.03 W	20.42@	219.63	0.21

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Survey Report

FIDELITY EXPLORATION & PRODUCTION
CANE CREEK UNIT #36-1 ST1
GRAND COUNTY, UT
RIG:FRONTIER

API Well Number: 4301950030000

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft)	(ft)	Closure Dist (ft)	Dir (deg)	DLS (dg/100ft)
5108.00	1.85	64.80	5107.38	93.00	-17.56	14.59 S	10.49 W	17.97@	215.72	0.30
5202.00	2.11	71.92	5201.33	94.00	-14.52	13.40 S	7.47 W	15.34@	209.13	0.38
5294.00	1.67	68.44	5293.28	92.00	-11.72	12.39 S	4.61 W	13.22@	200.43	0.49
5389.00	1.85	83.33	5388.23	95.00	-9.17	11.70 S	1.80 W	11.84@	188.76	0.52
5484.00	2.11	83.45	5483.18	95.00	-6.50	11.32 S	1.46 E	11.41@	172.66	0.27
5579.00	1.49	91.31	5578.13	95.00	-4.18	11.15 S	4.43 E	12.00@	158.33	0.70
5673.00	0.70	102.11	5672.11	94.00	-2.95	11.30 S	6.21 E	12.89@	151.19	0.86
5766.00	1.14	113.68	5765.10	93.00	-2.24	11.79 S	7.62 E	14.04@	147.13	0.51
5860.00	1.49	122.44	5859.07	94.00	-1.53	12.82 S	9.50 E	15.96@	143.45	0.43
5953.00	1.67	122.91	5952.04	93.00	-0.85	14.20 S	11.66 E	18.38@	140.61	0.19
6048.00	2.02	136.43	6046.99	95.00	-0.45	16.17 S	13.98 E	21.37@	139.16	0.59
6141.00	1.23	132.39	6139.95	93.00	-0.31	18.03 S	15.85 E	24.00@	138.69	0.86
6235.00	1.23	141.85	6233.93	94.00	-0.28	19.50 S	17.21 E	26.01@	138.57	0.22
6330.00	1.49	157.09	6328.90	95.00	-0.76	21.44 S	18.32 E	28.21@	139.48	0.47
6424.00	2.29	184.34	6422.85	94.00	-2.52	24.44 S	18.66 E	30.75@	142.64	1.26
ST1 DEPARTS ORIGINAL WELLBORE AT 6442'MD IN OPEN HOLE.										
6462.00	0.97	122.50	6460.84	38.00	-2.98	25.37 S	18.87 E	31.62@	143.36	5.32
6493.00	4.66	40.78	6491.80	31.00	-1.66	24.56 S	19.92 E	31.62@	140.96	14.91
6524.00	9.15	35.59	6522.57	31.00	2.00	21.60 S	22.17 E	30.96@	134.25	14.61
6556.00	13.54	34.73	6553.94	32.00	8.13	16.45 S	25.79 E	30.59@	122.53	13.73
6586.00	16.71	35.47	6582.89	30.00	15.77	10.05 S	30.30 E	31.92@	108.35	10.59
6617.00	18.38	37.02	6612.45	31.00	24.92	2.52 S	35.83 E	35.91@	94.02	5.59
6649.00	20.49	37.82	6642.63	32.00	35.39	5.94 N	42.30 E	42.71@	82.01	6.64
6679.00	22.16	37.96	6670.57	30.00	46.13	14.55 N	49.00 E	51.11@	73.47	5.57
6711.00	23.57	38.44	6700.06	32.00	58.38	24.32 N	56.69 E	61.68@	66.78	4.44
6743.00	25.41	38.77	6729.18	32.00	71.47	34.68 N	64.97 E	73.64@	61.90	5.77
6774.00	27.70	40.16	6756.90	31.00	85.18	45.37 N	73.78 E	86.61@	58.41	7.65
6805.00	28.40	41.53	6784.26	31.00	99.64	56.40 N	83.31 E	100.61@	55.90	3.07
6836.00	28.67	42.35	6811.50	31.00	114.37	67.41 N	93.21 E	115.03@	54.12	1.54

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Survey Report

FIDELITY EXPLORATION & PRODUCTION
CANE CREEK UNIT #36-1 ST1
GRAND COUNTY, UT
RIG:FRONTIER

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft)	(ft)	Closure Dist (ft)	Dir (deg)	DLS (dg/100ft)
6868.00	28.49	44.32	6839.60	32.00	129.62	78.55 N	103.71 E	130.10@	52.86	3.00
6899.00	28.93	47.75	6866.79	31.00	144.50	88.88 N	114.43 E	144.89@	52.16	5.50
6930.00	29.28	50.54	6893.88	31.00	159.57	98.74 N	125.83 E	159.95@	51.88	4.52
6961.00	30.69	52.23	6920.73	31.00	175.04	108.40 N	137.94 E	175.44@	51.84	5.30
6993.00	33.68	52.50	6947.81	32.00	192.03	118.81 N	151.44 E	192.48@	51.88	9.36
7024.00	36.93	52.59	6973.10	31.00	209.89	129.70 N	165.66 E	210.40@	51.94	10.49
7055.00	38.60	53.12	6997.61	31.00	228.80	141.17 N	180.79 E	229.38@	52.02	5.49
7086.00	38.60	53.48	7021.83	31.00	248.06	152.72 N	196.30 E	248.71@	52.12	0.72
7118.00	38.51	53.75	7046.86	32.00	267.90	164.55 N	212.36 E	268.65@	52.23	0.60
7150.00	38.16	53.94	7071.96	32.00	287.65	176.26 N	228.38 E	288.49@	52.34	1.15
7181.00	38.51	53.58	7096.28	31.00	306.77	187.63 N	243.89 E	307.71@	52.43	1.34
7213.00	41.24	52.57	7120.83	32.00	327.21	199.96 N	260.29 E	328.23@	52.47	8.77
7244.00	44.32	51.05	7143.58	31.00	348.21	212.98 N	276.83 E	349.28@	52.43	10.48
7360.00	52.41	48.26	7220.60	116.00	434.78	269.15 N	342.75 E	435.80@	51.86	7.20
7392.00	54.69	48.83	7239.61	32.00	460.52	286.19 N	362.04 E	461.50@	51.67	7.27
7424.00	57.86	49.24	7257.37	32.00	487.13	303.64 N	382.14 E	488.08@	51.53	9.96
7455.00	61.11	49.62	7273.11	31.00	513.82	321.00 N	402.42 E	514.77@	51.42	10.54
7487.00	64.19	49.93	7287.81	32.00	542.23	339.35 N	424.12 E	543.18@	51.34	9.66
7519.00	67.27	49.59	7300.96	32.00	571.38	358.20 N	446.39 E	572.33@	51.26	9.67
7550.00	70.87	49.01	7312.03	31.00	600.32	377.08 N	468.33 E	601.27@	51.16	11.74
7582.00	75.45	49.02	7321.30	32.00	630.94	397.16 N	491.45 E	631.87@	51.06	14.31
7614.00	76.24	48.22	7329.13	32.00	661.96	417.67 N	514.73 E	662.87@	50.94	3.46
7645.00	79.14	49.04	7335.73	31.00	692.24	437.68 N	537.46 E	693.13@	50.84	9.70
7677.00	81.95	49.09	7340.99	32.00	723.80	458.36 N	561.30 E	724.67@	50.76	8.78
7709.00	83.62	48.57	7345.01	32.00	755.54	479.26 N	585.20 E	756.40@	50.68	5.46
7736.00	84.06	47.97	7347.91	27.00	782.39	497.13 N	605.23 E	783.22@	50.60	2.75
7831.00	87.23	46.14	7355.12	95.00	877.08	561.66 N	674.55 E	877.77@	50.22	3.85
7925.00	89.69	50.40	7357.65	94.00	971.02	624.18 N	744.66 E	971.66@	50.03	5.23

API Well Number: 4301950030000

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PathFinder Energy Services, Inc.
Survey Report

FIDELITY EXPLORATION & PRODUCTION
CANE CREEK UNIT #36-1 ST1
GRAND COUNTY, UT
RIG:FRONTIER

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft)	(ft)	Closure Dist (ft)	Dir (deg)	DLS (dg/100ft)
8020.00	85.65	53.93	7361.51	95.00	1065.65	682.39 N	819.60 E	1066.49@	50.22	5.64
8115.00	78.44	55.53	7374.65	95.00	1159.01	736.69 N	896.35 E	1160.24@	50.58	7.77
8210.00	76.33	54.01	7395.40	95.00	1251.06	790.16 N	972.08 E	1252.71@	50.89	2.72
8305.00	75.10	47.78	7418.86	95.00	1342.94	848.18 N	1043.48 E	1344.72@	50.89	6.49
8400.00	74.04	46.24	7444.14	95.00	1434.50	910.62 N	1110.47 E	1436.09@	50.65	1.92
8495.00	77.12	52.99	7467.82	95.00	1526.40	970.16 N	1180.52 E	1528.02@	50.59	7.61
8590.00	73.60	55.29	7491.83	95.00	1617.76	1024.00 N	1254.99 E	1619.74@	50.79	4.38
8685.00	73.95	55.37	7518.37	95.00	1708.22	1075.89 N	1330.01 E	1710.69@	51.03	0.38
8779.00	73.78	52.86	7544.50	94.00	1797.99	1128.81 N	1403.16 E	1800.85@	51.18	2.57
8874.00	77.38	51.70	7568.15	95.00	1889.71	1185.10 N	1475.92 E	1892.83@	51.24	3.97
8969.00	79.76	48.76	7586.98	95.00	1982.74	1244.66 N	1547.47 E	1985.91@	51.19	3.93
9064.00	84.06	48.69	7600.35	95.00	2076.76	1306.69 N	1618.14 E	2079.86@	51.08	4.53
9159.00	86.70	44.84	7608.00	95.00	2171.41	1371.54 N	1687.11 E	2174.27@	50.89	4.90
9254.00	89.43	44.34	7611.21	95.00	2266.18	1439.15 N	1753.75 E	2268.66@	50.63	2.92
9349.00	88.99	44.56	7612.52	95.00	2360.99	1506.96 N	1820.27 E	2363.12@	50.38	0.52
9444.00	90.40	45.39	7613.03	95.00	2455.86	1574.16 N	1887.42 E	2457.71@	50.17	1.72
9538.00	88.99	45.45	7613.53	94.00	2549.77	1640.14 N	1954.37 E	2551.39@	50.00	1.50
9633.00	88.29	45.60	7615.78	95.00	2644.65	1706.68 N	2022.14 E	2646.09@	49.84	0.75
9728.00	87.14	44.74	7619.57	95.00	2739.47	1773.60 N	2089.46 E	2740.71@	49.67	1.51
9823.00	82.13	44.26	7628.45	95.00	2833.85	1841.04 N	2155.73 E	2834.89@	49.50	5.30
9918.00	77.47	42.98	7645.27	95.00	2927.05	1908.70 N	2220.22 E	2927.88@	49.31	5.08
10013.00	79.93	40.99	7663.88	95.00	3019.69	1977.94 N	2282.52 E	3020.29@	49.09	3.31
10108.00	80.90	37.50	7679.70	95.00	3112.27	2050.48 N	2341.77 E	3112.61@	48.79	3.76
10202.00	84.24	38.29	7691.86	94.00	3204.04	2124.02 N	2399.01 E	3204.17@	48.48	3.65
10297.00	79.49	40.55	7705.30	95.00	3297.01	2196.65 N	2458.70 E	3297.04@	48.22	5.53
10392.00	80.64	40.91	7721.69	95.00	3389.84	2267.56 N	2519.76 E	3389.84@	48.02	1.27
10487.00	74.83	31.61	7741.91	95.00	3480.61	2342.24 N	2574.64 E	3480.64@	47.71	11.35
10582.00	77.73	32.36	7764.43	95.00	3569.33	2420.51 N	2623.53 E	3569.56@	47.30	3.15

API Well Number: 4301950030000

RECEIVED: Nov. 07, 2013

PathFinder Energy Services, Inc.
Survey Report

FIDELITY EXPLORATION & PRODUCTION
CANE CREEK UNIT #36-1 ST1
GRAND COUNTY, UT
RIG:FRONTIER

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft)	(ft)	Closure Dist (ft)	Dir (deg)	DLS (dg/100ft)
10677.00	79.49	32.59	7783.20	95.00	3659.08	2499.07 N	2673.53 E	3659.66@	46.93	1.87
10772.00	80.64	32.38	7799.59	95.00	3749.27	2578.01 N	2723.78 E	3750.35@	46.58	1.23
10867.00	84.94	32.23	7811.51	95.00	3840.00	2657.65 N	2774.14 E	3841.74@	46.23	4.53
10962.00	85.65	35.11	7819.30	95.00	3931.75	2736.43 N	2826.63 E	3934.20@	45.93	3.11
11057.00	85.03	40.25	7827.02	95.00	4024.89	2811.35 N	2884.48 E	4027.89@	45.74	5.43
11151.00	85.38	42.61	7834.88	94.00	4117.94	2881.57 N	2946.46 E	4121.30@	45.64	2.53
11246.00	84.94	44.82	7842.90	95.00	4212.34	2949.99 N	3011.87 E	4215.90@	45.59	2.36
11341.00	84.86	46.61	7851.34	95.00	4306.89	3016.06 N	3079.61 E	4310.52@	45.60	1.88
11436.00	85.03	46.58	7859.71	95.00	4401.49	3081.08 N	3148.36 E	4405.14@	45.62	0.18
11531.00	85.30	47.24	7867.72	95.00	4496.14	3145.75 N	3217.49 E	4499.78@	45.65	0.75
11626.00	81.78	47.18	7878.41	95.00	4590.51	3209.86 N	3286.75 E	4594.12@	45.68	3.71
11721.00	81.95	47.27	7891.85	95.00	4684.55	3273.73 N	3355.78 E	4688.13@	45.71	0.20
11816.00	80.02	45.32	7906.74	95.00	4778.33	3338.55 N	3423.61 E	4781.95@	45.72	2.87
11910.00	76.94	46.49	7925.51	94.00	4870.36	3402.64 N	3489.74 E	4874.04@	45.72	3.50
12005.00	78.79	47.17	7945.48	95.00	4963.22	3466.18 N	3557.48 E	4966.89@	45.74	2.07
STRAIGHT-LINE PROJECTION TO BIT DEPTH AT 12073'MD.										
12073.00	78.79	47.17	7958.70	68.00	5029.91	3511.52 N	3606.40 E	5033.58@	45.76	0.00

** The survey data at tie-in point was furnished by a recognized survey company and entered as submitted. Survey stations above the tie-in point represent recalculated data by PathFinder Energy Services, Inc. and may reflect minor changes due to rounding differences between survey programs. Only survey stations taken by qualified PathFinder personnel are subject to certification.

API Well Number: 4301950030000

RECEIVED: Nov. 07, 2013

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

5.LEASE DESIGNATION AND SERIAL NUMBER: ML-40571

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: CANE CREEK

1. TYPE OF WELL Oil Well

8. WELL NAME and NUMBER: Cane Creek Unit 36-1

2. NAME OF OPERATOR: FIDELITY E&P COMPANY

9. API NUMBER: 43019500300000

3. ADDRESS OF OPERATOR: 1700 Lincoln Street Ste 2800 , Denver, CO, 80203

PHONE NUMBER: 720 931-6459 Ext

9. FIELD and POOL or WILDCAT: UNDESIGNATED

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0267 FSL 0774 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 36 Township: 25.0S Range: 19.0E Meridian: S

COUNTY: GRAND

STATE: UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 4/1/2014	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ SPUD REPORT Date of Spud:	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Please see the attached engineering details and description of work to be done.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
March 11, 2014

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Joy Gardner	720 956-5763	Sr. Engineering Tech

SIGNATURE	DATE
N/A	2/27/2014

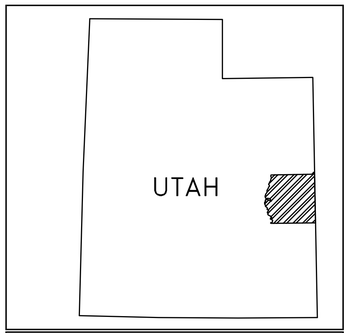
RECEIVED: Feb. 27, 2014

FIDELITY
Exploration & Production Company
An MDU Resources Group company

FIDELITY EXPLORATION AND PRODUCTION
GAS GATHERING PROJECT
DEAD HORSE LATERAL
MOAB, UTAH

DRAWING INDEX

C-0	COVER SHEET
C-1	CANE CREEK 12-1 GATHERING LINE PLAN & PROFILE
C-2	CANE CREEK 17-1 & 17-2 GATHERING LINE PLAN & PROFILE
C-3	CANE CREEK 18-1 & 18-2 GATHERING LINE PLAN & PROFILE
C-4	CANE CREEK 24-1 GATHERING LINE PLAN & PROFILE
C-5	CANE CREEK 36-1 GATHERING LINE PLAN & PROFILE
C-6	CANE CREEK 2-1 GATHERING LINE PLAN & PROFILE
C-7	CANE CREEK 7-1 GATHERING LINE PLAN & PROFILE
C-8	CANE CREEK 26-2 & 26-3 GATHERING LINE PLAN & PROFILE
C-9	CANE CREEK GATHERING LINE DETAILS



GENERAL LOCATION

TOWNSHIPS 26S & 25S RANGES 19E & 20E
SECTIONS 12, 13, 17, 18, 36
MOAB, GRAND COUNTY
UTAH

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REFERENCES

dwg. no.	title

REVISIONS

rev	description	b	date	chk by	chk date
	PIPE SCH CHANGES		12/12/13		
	REVISION		12/31/13		
	REVISED PER COMMENTS		01/06/14		

rk mechanical

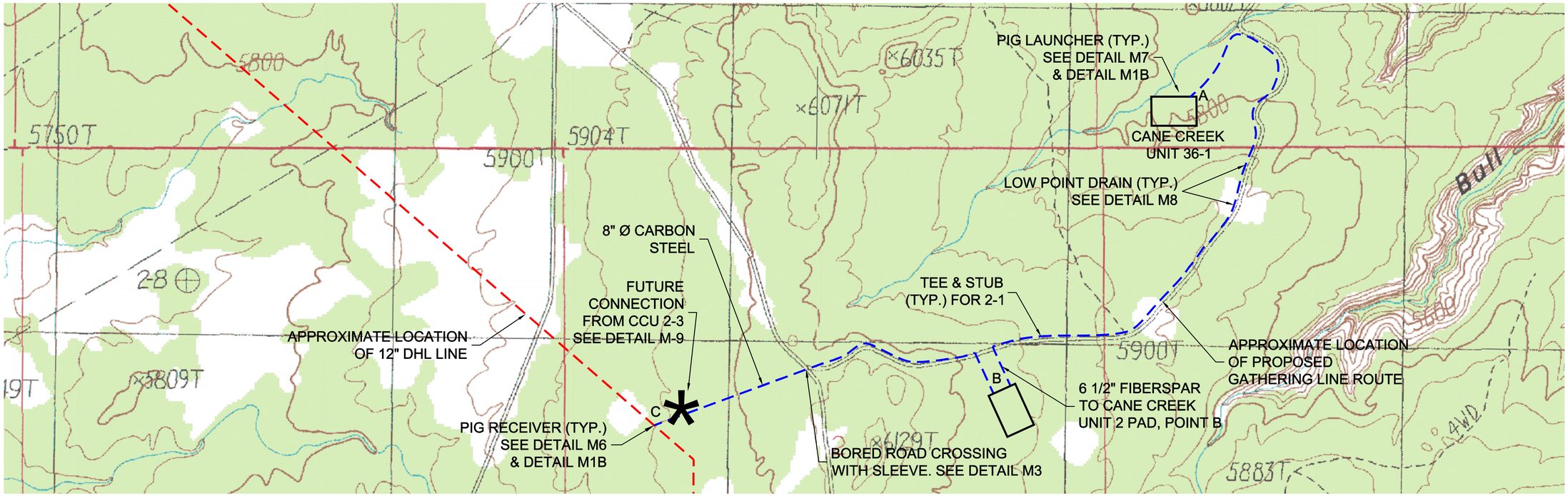
Columbia Engineering
LAND PLANNERS • CIVIL ENGINEERS • LANDSCAPE ARCHITECTS • SURVEYORS
2763 MEADOW CHURCH RD
SUITE 100
DULUTH, GA 30097
(770) 925-0357

RCE RIVER CITY ENGINEERING

DATE
11/05/2013
Job Number
4160.10

C-0

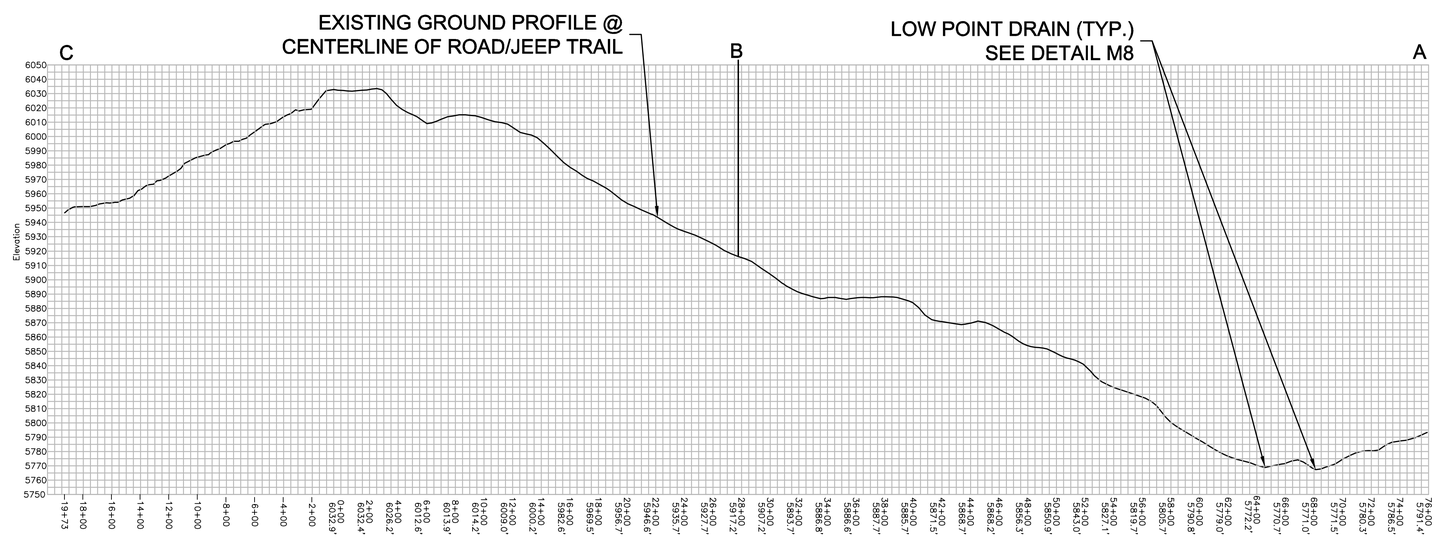
RECEIVED: Feb. 27, 2014



NOTE:
BACKGROUND IMAGES TAKEN FROM QUAD MAPS: THE KNOLL, UTAH - PROVISIONAL EDITION - 1988 - 38109-E7-TF-024

(TOWNSHIP 26S, RANGE 19E, NORTHWEST 1/4 OF SECTION 1 & NORTH 1/2 OF SECTION 2, TOWNSHIP 25S, RANGE 19E, SOUTHWEST 1/4 OF SECTION 36)

CANE CREEK 36-1 GATHERING LINE PLAN



NOTE:
GROUND RUN PROFILE WAS TAKEN FROM A SURVEY, PREPARED BY KEOGH LAND SURVEYING, DATED 09/18/2013. ASSUMED ALIGNMENT IS AT THE CENTERLINE OF ROAD. THE ACTUAL PROFILE LENGTH & GROUND ELEVATIONS AT THE PROPOSED GATHERING LINE LOCATION MAY VARY FROM WHAT IS SHOWN.

CANE CREEK 36-1 GATHERING LINE PROFILE

GRAPHIC SCALE
500 0 250 500 1000 2000
(IN FEET)

MOAB GATHERING LINES PROJECT 36-1

36-PAD TO DHL LEG DESCRIPTION	DISTANCE OF LEG	UNITS SERVED	ESTIMATED PEAK FLOW	ESTIMATED MID FLOW	ESTIMATED LOW FLOW	GATHERING LINE SIZE			
						SCH 40 CS		FS 750	
			MMSCFD			NOM	I.D.	NOM	I.D.
A to B	4,813'	36-1	2.00	1.00	0.50	6	6.025	6-1/2	5.60
B to C	4,814'	36-1 & 2-1	4.00	2.00	1.00	8	7.981	N/A	N/A

NOTES
1. FUTURE CONNECTION *

PIPE LINE LEGEND

- 12" MAIN GAS TRUNK LINE
- 12-1 GATHERING LINE
- FUTURE BRANCH GATHERING LINES

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COLUMBIA ENGINEERING

CIVIL ENGINEERS * LAND PLANNERS
LANDSCAPE ARCHITECTS * SURVEYORS

COLUMBIA ENGINEERING
2763 MEADOW CHURCH RD
SUITE 100
DULUTH, GEORGIA 30097
(770) 925-0357

PROJECT
PARADOX GAS GATHERING LINES
TOWNSHIP 26S, RANGE 19E, NORTHWEST 1/4 OF SECTION 1 & NORTH 1/2 OF SECTION 2, TOWNSHIP 25S, RANGE 19E, SOUTHWEST 1/4 OF SECTION 36 -GRAND COUNTY, UTAH

CLIENT
FIDELITY EPCO
1700 LINCOLN ST, SUITE 2800
DENVER, CO 80203

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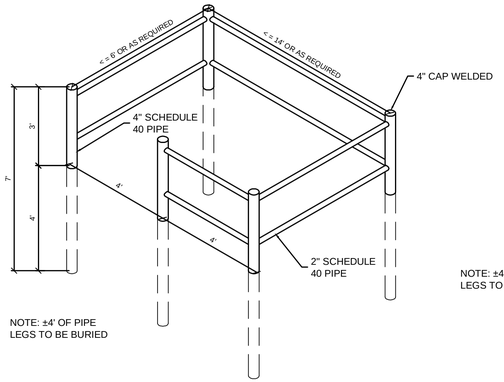
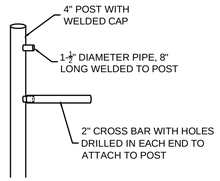
☐ APPROVED FOR CONSTRUCTION
■ NOT APPROVED FOR CONSTRUCTION

REVISIONS	DATE
PIPE SCH CHANGES	12/12/13
REVISION	12/31/13
REVISED PER COMMENTS	01/06/14

DRAWING TITLE
CANE CREEK
36-1
GATHERING LINE

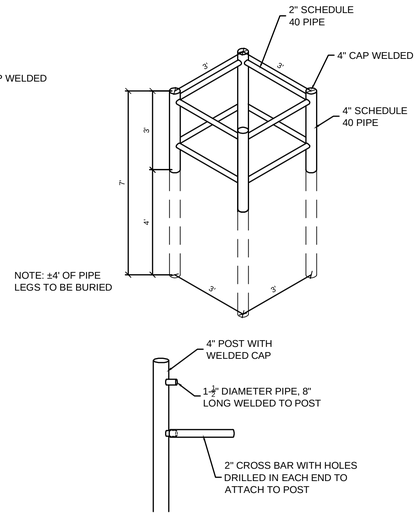
DRAWING FILE:		
DRAWN BY:	JCW	DRAWING NO.
DATE	11/05/2013	C-5
PROJECT NO.	4160.10	





M1A PIGGING VALVE PROTECTION

NOT TO SCALE



M1B PIGGING VALVE PROTECTION

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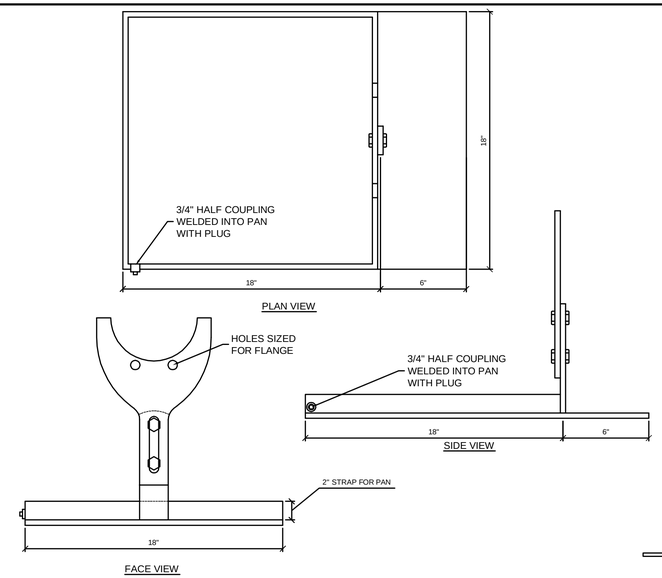
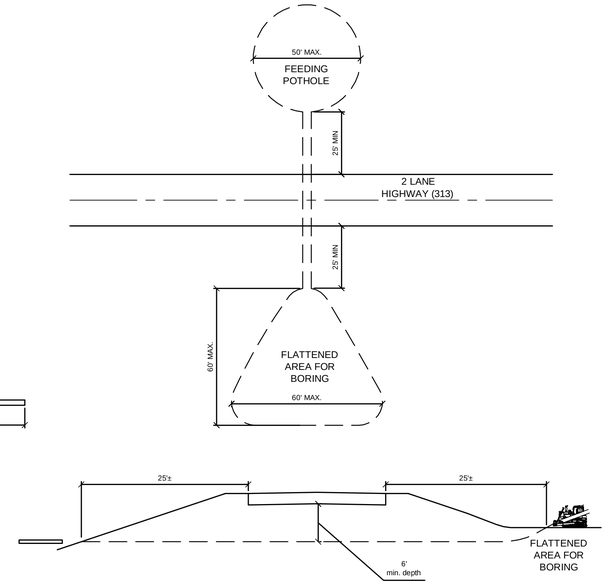


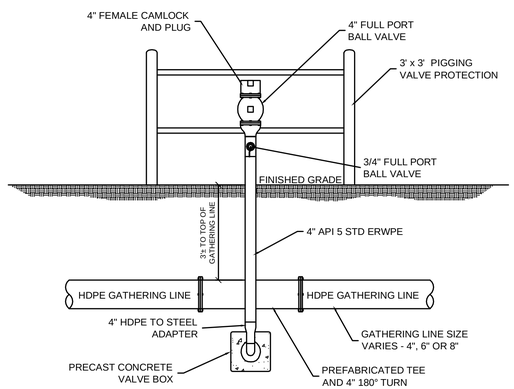
M2 TYPICAL PIGGING SUPPORT STAND

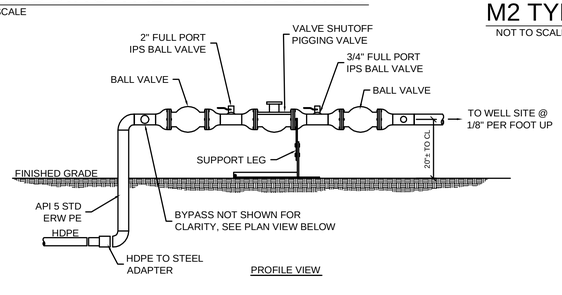
NOT TO SCALE

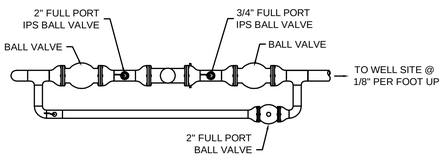


M3 TYPICAL BORED ROAD CROSSING

NOT TO SCALE

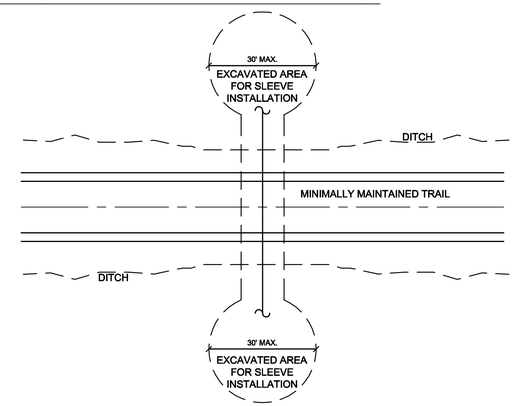


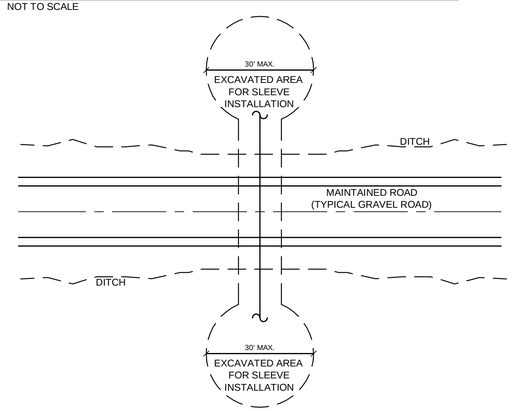


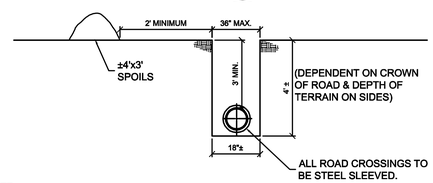


M7 TYPICAL PIG LAUNCHER

NOT TO SCALE



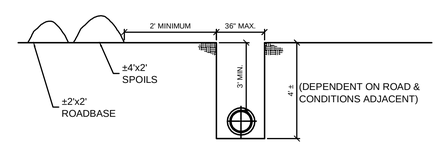




NOTE:
TRENCHED ROAD CROSSING ON A MINIMAL/ NON-MAINTAINED ACCESS ROAD/TRAIL TO BE COMPACTED TO 90% IN A MAXIMUM OF 1' LIFTS DURING BACKFILL OPERATIONS. SURFACE CONDITIONS TO BE FINISHED AS CLOSE AS POSSIBLE TO EXISTING CONDITIONS OR BETTER.

M5 TYPICAL TRENCHED ROAD CROSSING

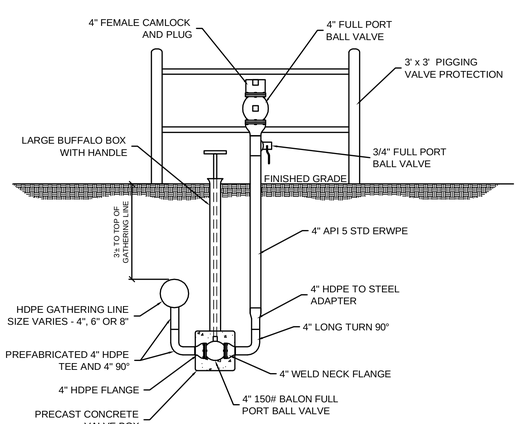
NOT TO SCALE



NOTE:
TRENCHED ROAD CROSSING ON A MAINTAINED ROAD. CARRIER PIPE TO HAVE A STEEL SLEEVE TO PROTECT FROM CRUSH. SLEEVE TO EXTEND 4' ± FROM EDGE OF NORMALLY TRAVELED SURFACE. ROAD BASE TO BE REMOVED PRIOR TO TRENCHING AND REPLACED ON TOP. SPOILS TO BE COMPACTED TO 95% IN A MAXIMUM OF 1' LIFTS DURING BACKFILL OPERATIONS. SURFACE CONDITIONS TO BE FINISHED AS CLOSE AS POSSIBLE TO EXISTING CONDITIONS OR BETTER.

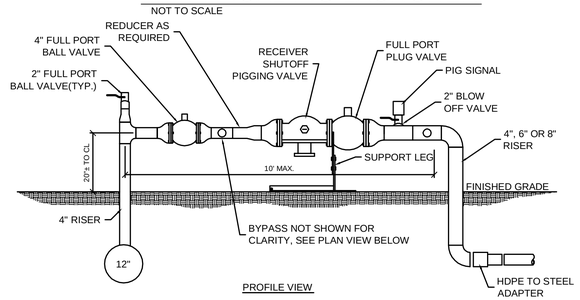
M4 TYPICAL TRENCHED ROAD CROSSING

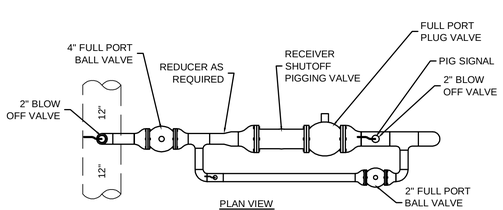
NOT TO SCALE



M8 LOW POINT DRAIN

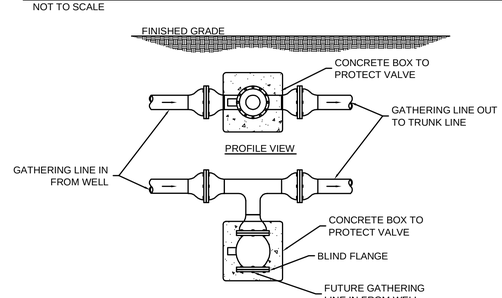
NOT TO SCALE





M6 GATHERING LINE CONEECTION & BYPASS

NOT TO SCALE



M9 FUTURE TIE IN DETAIL

NOT TO SCALE

COLUMBIA ENGINEERING
2763 MEADOW CHURCH RD
SUITE 100
DULUTH, GEORGIA 30097
(770) 925-0357

PROJECT
PARADOX GAS GATHERING LINES
GRAND COUNTY, UTAH

CLIENT
FIDELITY EPCO
1700 LINCOLN ST, SUITE 2800
DENVER, CO 80203

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REVISIONS	DATE

DRAWING TITLE

CANE CREEK GATHERING LINE DETAILS

DRAWING FILE:		
DRAWN BY	JCW	DRAWING NO.
DATE	11/05/2013	C-9
PROJECT NO.	4160.10	

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COLUMBIA ENGINEERING

CIVIL ENGINEERS * LAND PLANNERS
LANDSCAPE ARCHITECTS * SURVEYORS

RECEIVED: Feb. 27, 2014

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

5.LEASE DESIGNATION AND SERIAL NUMBER: ML-40571

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: CANE CREEK

1. TYPE OF WELL Oil Well

8. WELL NAME and NUMBER: Cane Creek Unit 36-1

2. NAME OF OPERATOR: FIDELITY E&P COMPANY

9. API NUMBER: 43019500300000

3. ADDRESS OF OPERATOR: 1700 Lincoln Street Ste 2800 , Denver, CO, 80203

PHONE NUMBER: 720 931-6459 Ext

9. FIELD and POOL or WILDCAT: UNDESIGNATED

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0267 FSL 0774 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 36 Township: 25.0S Range: 19.0E Meridian: S

COUNTY: GRAND

STATE: UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 5/1/2014	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ SPUD REPORT Date of Spud:	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: Pit closure

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Please see the attached procedure of work to be performed.

Approved by the Utah Division of Oil, Gas and Mining

Date: April 23, 2014

By: [signature]

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Joy Gardner	720 956-5763	Sr. Engineering Tech

SIGNATURE	DATE
N/A	4/23/2014

RECEIVED: Apr. 23, 2014

Following consultation with UDOGM Field Operations Manager, Fidelity wishes to close the reserve pit at well site CCU 36-1 in Grand County as follows:

All free liquids have already been removed from the pit. The pit has already been partially backfilled with excess material generated during pad construction.
A portion of this backfill material will removed or recontoured to create a level or slightly domed subsurface. Existing pit liner material will be wrapped over the edges of the backfill. New 12 mil liner material will be used to cover the majority of the subsurface fill, effectively encapsulating the pit contents with impermeable material.
This liner will be overlain with approximately six feet of cover soil, consisting of additional excess soils collected from the fringes of the well pad.
The entire closed pit area will be used in the near term for addition closed loop drilling operations, but ultimately reclaimed after the useful life of all wells present.

RECEIVED: Apr. 23, 2014

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

5.LEASE DESIGNATION AND SERIAL NUMBER: ML-40571

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: CANE CREEK

1. TYPE OF WELL Oil Well

8. WELL NAME and NUMBER: Cane Creek Unit 36-1

2. NAME OF OPERATOR: FIDELITY E&P COMPANY

9. API NUMBER: 43019500300000

3. ADDRESS OF OPERATOR: 1700 Lincoln Street Ste 2800 , Denver, CO, 80203

PHONE NUMBER: 720 931-6459 Ext

9. FIELD and POOL or WILDCAT: UNDESIGNATED

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0267 FSL 0774 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 36 Township: 25.0S Range: 19.0E Meridian: S

COUNTY: GRAND

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 6/1/2014	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ SPUD REPORT Date of Spud:	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: gas gathering

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Please see attached project description.

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Joy Gardner	720 956-5763	Sr. Engineering Tech

SIGNATURE	DATE
N/A	4/15/2014

RECEIVED: Apr. 15, 2014

Dead Horse Lateral Natural Gas Gathering Lines

Project Description

Fidelity Exploration & Production Company (the Operator) proposes to construct, operate, maintain, and eventually decommission 19 gas gathering lines that would connect current and possibly future wells on 19 well pads in and near the Cane Creek Unit (CCU) to the Dead Horse Lateral (DHL) gas gathering pipeline, which is currently under construction. The produced natural gas would be transported through the DHL pipeline to an approved natural gas processing plant near Blue Hills Road that is also under construction. The natural gas would be compressed and processed for liquids recovery at the gas plant. The sales-grade gas would subsequently be delivered via the existing Greentown pipeline to the existing Northwest pipeline. The gathering lines would remain in operation as long as the Operator's producing wells supply sufficient gas to justify its use. The life of a productive well may last as long as 30 years.

In addition, the Operator proposes to upgrade one Class D road to provide alternate access to existing and future well locations currently being accessed via the Class B Mineral Point Road.

All applicable federal, state, and county regulations and Bureau of Land Management (BLM) conditions of approval would be adhered to during gathering line construction and operation. Construction operations would employ the principles contained in the BLM's *Hydraulic Considerations for Pipelines Crossing Stream Channels* (2007) and *Surface Operating Standards for Oil and Gas Exploration and Development, 4th Edition* (Gold Book) (2007). Cultural, paleontological, and biological resource inventories are in progress, and reports of the findings will be submitted to the BLM prior to the initiation of construction operations.

Design features, environmental protection measures, and safety procedures committed to by the Operator are listed at the end of this project description. Additional safety procedures that would be utilized as part of the DHL gathering system are contained in DOI-BLM-UT-Y010-2013-067-EA, Appendix D (BLM, 2013). If the project is approved, the Operator would utilize an independent 3rd-party compliance monitor to ensure that gathering line construction operations would be conducted in accordance with applicable conditions of approval.

Location and Access

Gathering Lines

Approximately 25 miles of gathering lines (132,056 feet) would be constructed across federal and State of Utah lands in Grand County, Utah, approximately 12 miles west of Moab. The

gathering line routes would be reached by traveling north from Moab along US Highway 191 until reaching State Highway (SH) 313. The gathering lines would tie into the DHL pipeline at various locations along SH 313 and the Dubinky Well Road (See attached maps). New roads would not be constructed to construct the gathering lines. Table 1 shows the lengths of the gathering line routes related to surface ownership. The gathering lines are named according to the name of the well pad from which they originate.

Table 1: Gathering Line Lengths and Land Ownership

Gathering Line	Location	Federal Surface Length (feet)	State Surface Length (feet)	Total
Cane Creek 1-1	T25S-R19E, Sections 1, 2	1,366	987	2,353
Cane Creek 2-1	T25S-R19E, Section 2	0	0	0
Cane Creek Unit 2-1-25-18	T25S-R18E, Section 2	0	1,697	1,697
Cane Creek Unit 7-1	T26S-R20E, Sections 7, 18	10,825 [1]	0	10,825 [1]
Cane Creek 8-1	T26S-R20E, Sections 8, 18	4,101	0	4,101
Cane Creek Unit 12-1	T25S-R19E, Section 11, 12	2,883	0	2,883
Cane Creek Unit 16-2	T24S-R18E, Sections 35, 36 T25S-R18E, Sections 2, 10, 11, 15, 16	10,493	19,937	30,430
Cane Creek Unit 17-1	T26S-R20E, 17, 18	7,660	0	7,660
Cane Creek Unit 18-1	T26S-R20E, Section 18	1,347	0	1,347
Cane Creek 24-1	T26S-R19E, Sections 13, 24	6,336	0	6,336
Cane Creek Unit 26-2	T25S-R19E, Sections 26, 27	9,602	0	9,602
Cane Creek Unit 28-2	T25S-R19E, Section 28	1,111	0	1,111
Cane Creek Unit 32-1-25-19	T25S-R19E, Section 32	0	2,557	2,557
Cane Creek 36-1-25-18	T25S-R18E, Section 36 T25S-R19E, Sections 28, 31, 32, 33	14,207	10,171	24,378
Cane Creek Unit 36-1	T25S-R19E, Section 36 T26S-R19E, Sections 1, 2	140	7,077	7,217
Kane Springs Federal 10-1	T25S-R18E, Section 10	5,509	0	5,509
Kane Springs 19-1A-ST	T26S-R19E, Section 24 T26S-R20E, Sections 19, 30	12,606	0	12,606
Kane Springs Federal 27-1	T25S-R19E, Section 27	34	0	34
Kane Springs Federal 25-19-34-1	T25S-R19E, Section 34	1,410	0	1,410
Total Length by Surface Owner		89,630	42,426	132,056

[1] Includes 2,274 feet within the DHL ROW

Through traffic in both directions would be maintained on SH 313 during construction operations. Through traffic may be temporarily stopped on the Class B Gemini Bridges Road near the intersection with the CCU 2-1 well pad access road to accommodate construction operations where the CCU 36-1 gathering line would cross the road. Gemini Bridges Road

would be closed in this area for approximately three hours total, but would be open at intervals within this time so that traffic could pass the construction area. An additional two-hour period would be needed to trench beneath Gemini Bridges Road and bury the pipeline beneath the road.

Appropriate controls would be in place to warn the public and control traffic while constructing a gathering line adjacent to a road or while constructing a trench across a road. Traffic cones and "construction zone" signs would be used to notify oncoming traffic of construction operations. Flagmen would be placed at either end of the work area if visibility is less than 100 yards. Installation of a gathering line along a Class D road may generally allow vehicles to proceed past construction operations.

Class D Road

The Operator proposes to upgrade an existing Class D road to that would provide access to its leases along Mineral Point Road and bypass Horsethief Campground. The Operator has drilled two wells that currently utilize the Mineral Point Road for access and may drill additional wells in the future that would otherwise utilize Mineral Point Road without the alternate route that the upgraded Class D road would provide. The Class D road is located north of Mineral Point Road and is located entirely on federal surface. It currently intersects Mineral Point Road approximately 1.5 miles west of Horsethief Campground to SH 313 near the CCU 28-2 well pad.

Table 2: Class D Road Upgrade Location and Length

Road Upgrade	Location	Length (feet)
Cane Creek 36-1-25-18	T25S-R19E, Sections 28, 33	7,597

Construction Schedule and Personnel Requirements

The Operator plans to initiate gathering line construction as soon as it receives regulatory approval but anticipates initiating construction in June 2014. Four to five months would be needed to construct all gathering lines. Each gathering line would require 1-2 weeks for construction, depending on its length and terrain considerations. Construction activities would generally occur during daylight hours. Pipeline integrity testing may be performed at night.

Procedures have been developed to ensure that gathering line installation occurs as quickly and safely as possible in a planned sequence of operations along the routes. Two or three construction crews may work simultaneously at different locations to meet the project schedule. Each installation crew would consist of five workers. One 5-person road boring crew would be responsible for the SH 313 crossings.

Gathering Line Design

The design, materials, construction, operation, maintenance, and termination practices of the pipeline would meet or exceed safe and proven engineering practices, industry standards, and would comply with all applicable requirements. These gathering lines have been designed and would be constructed to meet and exceed applicable industry standards, which include, but are not limited to: API 5L, API 6D, API 15 HR, ASTM D2517, ASME 31.8 and ANSI pipeline material standards .

The gathering lines would be installed above and below ground, depending on site conditions along the routes. Buried lines would be constructed of 4.5 or 6.5-inch (outside diameter) Fiberspar (or equivalent), or 8 or 12-inch steel. Aboveground line would be constructed of uncoated steel so that the outside surface would rust. The highest normal operating pressure on the gas gathering system would be 75 pounds per square inch (psi) gauge and would occur at the well site, where it would be limited by mechanical pressure relief valves on the upstream separation equipment. Maintenance operations may temporarily require the normal operating pressure to be exceeded. The pipe wall thickness would ensure sufficient structural integrity for the low-pressure system. Gas production from each well would be measured by an orifice meter. A well pad may require installation of more than one pipe in a trench. If so, these gathering lines would be positioned vertically within a single trench.

All gathering lines would be surveyed in place so that precise locations with respect to adjacent roads and buried depths can be ascertained. The as-built survey would be provided to the BLM at the completion of the project.

Construction Operations

Gathering Line Construction

Equipment needed to install the buried gathering lines would include flatbed trailers, trenching machines, mini-excavators, bulldozers, rotary jackhammers, offset booms, spoolers, cables, water trucks, and pickup trucks. Vehicle traffic during construction operations would include the transportation of materials and heavy equipment, workforce commuting, and daily operation of construction equipment. Installation equipment, pipe, and other construction materials would be hauled to the work site by flatbed semi-tractor trailers and stored temporarily on existing well pads. Pipe would be transported from well pads to strategic locations along a gathering line route within the construction corridor on a daily basis. Construction equipment may be left overnight within the construction corridor but would not be parked overnight on Class B roads. To minimize the introduction of noxious invasive species, the construction contractor would be required to have equipment arrive at construction sites in a clean condition, free of weeds and soil.

The gathering line routes have been located to avoid trees and shrubs as much as possible. Where dead trees are found within a 30-foot construction corridor, the trees would be transported to disturbed areas and mulched. The mulch would be spread over the disturbed areas.

All pipeline installation equipment would operate within a 30-foot construction corridor.

Aboveground Cross-Country Gathering Lines. Some gathering line routes would travel cross-country to minimize impacts to topography, soils, vegetation, and recreation and visual resources. Installing a gathering line aboveground on cross-country routes would prevent visual scarring by eliminating the need to remove the shrub and tree cover that would otherwise result from trenching. The ground surface would not be bladed. Vegetation would not be removed. Trees and cultural resource sites would be avoided.

Aboveground gathering line would be installed using one of two methods. The first method would utilize a cable that would be placed by hand along a cross-country segment of the route. Several sections of the pipe would be welded together on a well pad and attached to the end of the cable. A bulldozer would be stationed at the receiving end to pull the cable and position the welded pipe in place along the route. Pipe segments would be pre-welded on the well pad. Using this procedure, surface disturbance would result only from placing the cable by hand and by dragging the pipeline in place, affecting approximately five feet along the length of the cross-country segment.

Alternatively, pipe segments would be welded on a well pad and pulled along the cross-country route with the use of a single pass of a bulldozer. The ground surface would not be bladed, and trees would be avoided by the bulldozer. An approximate 15-foot drive route would be used by the bulldozer while pulling the gathering line in place.

Buried Gathering Lines adjacent to Roads. Where a gathering line would be buried parallel to a well access road or Class D road, the gathering line would generally be installed immediately adjacent to the 14-foot road running surface. Each gathering line would be installed at least 4 feet deep to ensure a minimum cover of 3 feet below the surface. The top of the trench would be approximately 12 inches in width. It may be necessary to consider installing a gathering line aboveground and adjacent to a Class D road where hard bedrock is extremely hard, in which case one of the two procedures described above would be utilized (cable pull or tractor pull).

Where a gathering line would be installed adjacent to a Class B road, the gathering line and aboveground infrastructure would be installed as far from the centerline of the Class B road as possible while generally remaining within the Class B road ROW. Alternatively, the gathering line would be installed adjacent to the running surface of the Class B road in a trench sufficiently deep to provide a minimum coverage of five feet. Installation of a gathering line at this depth

would allow road maintenance operations to be conducted safely and minimize surface disturbance away from the roadway.

Open trenching would be performed using a trencher, the size of which would be determined by site-specific terrain conditions, soil depth, and hardness of bedrock. Previous testing of a rock sample from the project area determined that most trenching operations would be performed with standard trenching equipment. Where operating on harder bedrock, a trencher may be equipped with a rock wheel. In areas where the rock surface is even harder, a rotary jackhammer may be used to create a trench. If absolutely necessary, bedrock may be blasted using small explosive charges and appropriate public safety measures would be taken.

A small trencher would be used to dig a trench where the terrain provides suitable safe access. Ideally, it would be used on the edge of the running surface of all Class D or access roads and as much as possible on Class B roads where terrain conditions are favorable. If trenching slightly off the road surface, this trencher would permit maximum flexibility in choosing the optimal route to avoid trees and large shrubs. An offset boom, operating on the road, would be used to place the pipe farther off the road running surface. Using the small trencher would not generally require the ground surface to be bladed or graded. The small trencher would use floatation tires with an approximate ground pressure of 20 psi. It would create an approximate 10-foot wide track with the trench centered beneath it. Topsoil and spoils would be mixed and placed on either side of the trench within the trencher tire tracks. Following installation of the pipe, the trench would be backfilled with the materials excavated from the trench using a V-plow equipped with skids so that the ground surface is not gouged. Another pass would compact the surface above the trench. An approximate 15-foot corridor would be affected along the gathering line route if a bulldozer is used.

A large trencher would be used where hard bedrock is encountered. The gathering line route may require grading and/or blading where the terrain is too rough for placement of the trencher. For trenches larger than 18 inches in width, spoils and topsoil would be temporarily placed in the 30-foot construction corridor in piles opposite the working side of the trench. Topsoil, as available, would be stored separately from the spoils and placed in piles adjacent to the spoil piles. After the pipe is lowered in the trench, spoils would be replaced in the trench and compacted. Extra spoil would be placed on top of the trench and spread. Topsoil would be redistributed on top of the spoils. Extra spoil materials may be used to camouflage the appearance of the surface-installed infrastructure from adjacent Class B roads and/or SH 313.

Road crossings would be performed either by open-trenching an unpaved road surface or by boring under the paved SH 313. Any Fiberspar gathering line that would be installed beneath a road would be protected with a steel sleeve. The BLM would be provided with a three-week notice regarding upcoming Class B road crossings. One week prior to the crossing, the Operator

would confer with the BLM to confirm the crossing schedule. At Class B road crossings, the public would be prevented from using the road for up to five hours while the road is being trenched and the pipe installed. If possible, the road would be intermittently re-opened for through public vehicle passage during this time. One mini-excavator would be used at each side of a Class B road crossing in a 30 by 30-foot area, which would be graded and bladed prior to trenching across the road. Topsoil would be stripped and temporarily stored in a small pile within the mini-staging areas. After installation of the pipe, the contours of the mini-staging areas would be restored and topsoil re-spread. Mulch would then be applied.

To avoid disrupting traffic, a horizontal directional drill (HDD) would be used to bore beneath SH 313. The depth of the trench beneath SH 313 would be increased per UDOT regulations. Using the HDD would require two approximate 100 by 100-foot temporary use areas on both sides of SH 313 where the bore would enter and exit the surface. Surface preparation would remove portions of the topsoil, which would be temporarily stored within the disturbance area; however, large shrubs would be retained where possible. The HDD would drill a pilot hole beneath the surface at a depth that maintains minimum coverage requirements, after which the hole would be enlarged with a reamer to a diameter sufficient to accommodate the pipe diameter. A pre-welded and pre-tested section of pipe would be pulled into the hole from the side of the bore hole opposite the drilling equipment.

Buried gathering line segments would be installed at least 4.5 feet below all active wash bottom elevations. Generally, this increased depth would be extended for a distance of half the width of the wash on either side of the wash. For example, if the wash is 20 feet wide, the increased depth would extend 10 feet beyond each side of the wash. Disturbed wash banks would be stabilized with natural erosion control materials including rocks, erosion control blankets, rip rap, or other stabilizing materials.

A hydrostatic pressure test would be performed for each gathering line prior to operation. The gathering lines would be tested to at least 110 percent of maximum operating pressure using up to 465,000 gallons of water (total). The water would be obtained from a permitted source or a private owner that holds valid water rights. Disposal of the test water would be in conformance with applicable state and BLM requirements.

Road Upgrade

Up to 35 feet may be required to upgrade the Class D to an all-weather access road. Upgrading the Class D road would require short re-routes to eliminate sharp corners and allow for safe travel by tractor trailers and tanker trucks. A surveyed route showing proposed modifications to the configuration of the existing road would be provided to the BLM prior to project approval. The upgraded road would require a 14-foot running surface.

The road surface would be bladed and graded. High wash banks would be bladed, and the extra material would be used as fill in the wash bottoms and on adjacent sections of the road. Where slickrock exposures or rocky areas exist along the road, materials remaining from grading would be used to smooth out the surface. Dry wash crossings would be used where possible, but culverts and cattle guards would be installed if necessary to control drainage and livestock movement. Turnouts would be constructed according to Gold Book standards. The Operator would obtain road surfacing materials from permitted sources. Construction would not be conducted during wet conditions when soils are saturated. Approximately seven days would be needed to upgrade the Class D road.

Other Infrastructure

Gathering line infrastructure would include surface and subsurface equipment. All aboveground equipment would be painted shale green, or other flat color specified by the BLM, and would be positioned to be screened from view or blend in with the immediate natural surroundings as much as possible. Where located adjacent to a Class B road or SH 313, the Operator would place the aboveground infrastructure behind trees, shrubs, or rocks, where present. Alternatively, existing soil berms or ridges may be built up or rocks placed to provide visual screening from travelers on an adjacent road.

Subsurface tee and stubs for possible future connections would be installed below the ground surface. Such equipment would be prefabricated off-site and installed within the construction corridor where needed.

Pig receiver and launcher valves would be used to clean and inspect the interior of the gathering lines. Pig receivers or a combination of receiver and launcher valves in a single valve assembly would be installed aboveground along the DHL pipeline ROW or along the gathering line construction corridor where pipe diameter changes. One pig launcher would be installed on each existing well pad. Pig receivers would be installed where a gathering line joins another gathering line or where a gathering line joins the DHL pipeline. In addition to the measures previously described to minimize the visual impacts, the Operator would install low profile in-line valves that are about 1/10 the size of typical pig launchers and receivers. Each pigging valve assembly would be protected by a steel pipe tubing enclosure measuring approximately 3 feet high, 4 feet wide, and 16 feet long. Alternatively, rocks may be brought in and placed nearby to serve as security bollards.

Low point drain valves would be sited at topographic lows along the gathering lines. Produced natural gas typically contains some amount of water, which condenses out of the gas phase as the gas cools. The standing liquids would be collected by a vacuum truck that would be temporarily connected to the gathering line. Low point drain valves would rise approximately 2.5 feet above

the ground surface and would be protected by a 3-foot high, 3-foot wide, 3-foot long pipe enclosure and/or with rocks.

Flares would remain in place at the well pads to be used during maintenance operations that require that a well be taken offline, during which time natural gas would be temporarily flared at the well pad(s) served by the gathering line. Table 3 summarizes the construction details for each gas gathering line.

Table 3: Gathering Line Construction Details [1]

Gathering Line	Well Status	Construction Details
Cane Creek 1-1	Active well.	Connects to the CCU 36-1 gathering line. Buried along well access road. Surface laid cross-country to the CCU 2-1 well pad via cable pull.
Cane Creek 2-1	Active well.	Connects to the CCU 36-1 gathering line, entirely on CCU 2-1 well pad.
Cane Creek Unit 2-1-25-18	Drilling and completion.	Well pad on state surface. Connects to the CCU 16-2 gathering line. Buried along well access road.
Cane Creek Unit 7-1	Active well.	Connects to the DHL pipeline. Buried along well access road and Class D road. Trenched under Long Canyon Road. Bored under SH 313. 2,274 feet within the DHL ROW.
Cane Creek 8-1	Shut-in.	Connects the CCU 8-1 well pad to CCU 18-1 gathering line at CCU 18-1 well pad. Buried along Class D road.
Cane Creek Unit 12-1	Active well.	Connects to the DHL pipeline. Buried along Class D road. Bored under SH 313.
Cane Creek Unit 16-2	APD approved	Well pad on state surface. Connects to DHL pipeline. Surface laid cross-country via bulldozer pull to CCU 10-1 tie-in. Trenched under Class B road.
Cane Creek Unit 17-1	Active well.	Connects to the CCU 18-1 gathering line. Surface laid along Class D road to Long Canyon Road via bulldozer pull. Surface laid cross-country to the CCU 18-1 tie-in via cable pull. Trenched under Long Canyon Road.
Cane Creek Unit 18-1	Active well.	Connects to the CCU 7-1 gathering line. Surface laid cross-country via bulldozer pull.
Cane Creek 24-1	Active well.	Connect to the DHL pipeline. Buried along well access road and Class D road. Also, carries production from the CCU 13-1 well.
Cane Creek Unit 26-2	Active well.	Connects to the DHL pipeline. Buried along well access road, Class D road, and Class B road. Bored beneath SH 313.
Cane Creek Unit 28-2	Active well.	Connects to the DHL pipeline. Buried along well access road.
Cane Creek Unit 32-1-25-19	Drilling and completion.	Connects to the CCU 36-1-25-18 gathering line. Buried along well access road.
Cane Creek 36-1-25-18	Drilling and completion.	Connects to the DHL pipeline. Buried along well access road, Mineral Point Road, and upgraded Class D road. Trenched under Mineral Point Road.
Cane Creek Unit 36-1	Active well.	Connects to the DHL pipeline. Surface laid cross-country via cable pull to the CCU 2-1 well pad. Surface laid cross-country via bulldozer pull to the DHL. Trenched under Gemini Bridges Road. Bored beneath SH 313.
Kane Springs Federal 10-1	Active well.	Connects to the CCU 16-2 gathering line. Buried along Class B road.
Kane Springs 19-1A-ST	Active well.	Connects to the CCU 24-1 gathering line. Buried along well access road and Class D road.
Kane Springs Federal 27-1	Active well.	Connects to the CCU 26-2 gathering line. Buried along well access road.
Kane Springs Federal 25-19-34-1	Active well.	Connects to the DHL pipeline. Buried along well access road. Bored beneath SH 313.

[1] The Long Canyon 1 well is not connected because it no longer produces natural gas.

Routine Maintenance and Operations

The gathering lines would operate 24 hours each day, 365 days a year. The Operator would adhere to applicable pipeline operational and maintenance standards. Although not currently planned, the buried section of the gathering lines may be marked along its route with warning signs that would display the contents of the line and the operator's name and emergency contact information. If the installation of signs is necessary to ensure gathering line safety by identifying the route, the Operator will consult with the BLM to determine sign height necessary for safety and visibility.

The gathering line routes would be routinely patrolled and inspected by personnel on foot or in vehicles to check for problems such as erosion, general condition of the surface, unauthorized encroachment, and any other conditions that could cause a safety hazard or require preventive maintenance. At a minimum, an annual line patrol would detect any integrity issues with the surface facilities. The acquired information would be compiled, cataloged, and filed for the life of the pipeline system.

Gathering lines generally require little maintenance. Valves would be exercised regularly to ensure they will seal when needed. If damage to a gathering line would occur, detailed line break and emergency procedures would be followed. A safety manual developed for the DHL pipeline, including an Emergency Response Plan, would apply to the operation of the gathering lines. Standard emergency procedures include notification protocols, response procedures for fires, explosions, facility damage, adverse weather conditions, civil disorders, and vandalism.

The Operator would periodically inspect the pipeline route and other temporary use areas for the presence of noxious weeds during the first two years following construction activities. If noxious weeds are identified, they would be promptly treated and controlled according to the Operator's approved Pesticide Use Proposal. The Operator would utilize spot-spraying of individual plants as the principal method of control rather than broadcast spraying large areas.

Reclamation

Reclamation operations would be performed in conformance with the Operator's Reclamation Plan for the Dead Horse Lateral Pipeline submitted to the Moab FO in July 2013. The Reclamation Plan emphasizes the importance of pre-disturbance planning, with consideration given to vegetation management, soil management, and facility visibility and describes procedures for topsoil salvage and surface preparation for seeding. All equipment and materials not necessary for gathering line operation and maintenance would be removed from the construction corridor after construction is complete. The surfaces of all unpaved Class B and Class D roads would be restored to existing road conditions after construction is finished.

Reclamation after construction would essentially comprise final reclamation. All surface areas affected by gathering line construction and installation would be reclaimed. Immediate reclamation measures would be taken to stabilize disturbed areas, restore topsoil and encourage vegetative cover, and control erosion. The upgraded road would be reclaimed outside of the running surface. Additional areas needed to trench or bore under roads would be reclaimed. Where salvaged, topsoil would be evenly distributed, mulch applied, as available, and the disturbed area aggressively seeded.

All disturbed areas would be seeded using a certified weed-free seed mix intended to provide a self-sustaining plant community consistent with pre-disturbance vegetation. Seeding would be performed immediately after construction operations are complete. Mulch, silt fencing, waddles, hay bales, and other erosion control devices would be used in areas at risk of soil movement from wind and water erosion.

Reclamation would be determined successful when the basal cover of desirable perennial species is representative of baseline survey conditions or at least 75 percent of the basal cover on adjacent or nearby undisturbed areas where vegetation is in a healthy condition. Actions would be taken to ensure that reclamation standards are met as quickly as reasonably practical and are maintained during the life of the project. During the life of the gathering lines, reclaimed areas receiving incidental disturbance during maintenance activities would be reseeded as soon as practical. Reclaimed areas would be monitored semi-annually. Annual monitoring of the gathering line routes would be documented in conjunction with monitoring the condition of the DHL route. The documentation would be submitted to the BLM by May 1. The report would document the extent to which the reclamation objectives are met. If the standards are not met, a timeline for achievement of the objectives without additional actions would be estimated. Alternatively, actions would be identified needed to meet the objectives and standards.

The gathering lines would be decommissioned following the productive lives of all connected wells. The buried pipe would be left in place; however, pig launchers, receivers, and all aboveground valves/infrastructure would be removed. Areas disturbed during infrastructure removal, would be reclaimed as previously described. The routes would be seeded to re-establish native/desired vegetation. Monitoring and inspections would be performed to achieve the desired objectives.

Surface Disturbance

Surface disturbance would result from the gathering line construction corridors and upgrading the Class D road. Where a gathering line would be installed adjacent to a well access road or Class D road, the 14-foot running surface of the access road would be used for construction operations, reducing the effective disturbance corridor along access roads from 30 feet to 16 feet. Although one lane of a Class B road may be used for construction operations where a gathering

line would be installed adjacent to it, the entire 30-foot construction width was conservatively included in the disturbance estimates. The upgraded Class D road would utilize the 14-footwidth of the existing road plus an additional 21 feet. The 35-foot total construction width for this road would include the surface needed to install the adjacent gathering line. The estimates of construction disturbance include the additional areas need to trench or bore under roads. Approximately 2,274 feet of the CCU 7-1 gathering line route would be placed inside the ROW for the DHL pipeline. Surface disturbance for the DHL pipeline was analyzed in DOI-BLM-UT-Y010-2013-067-EA, and this portion of the gathering line system was not included in the estimate of new surface disturbance.

Infrastructure that would be placed on existing well pads and belowground equipment were not included in the disturbance estimates. Each pigging assembly would affect approximately 0.001 acre and each low point drain would affect approximately 0.0002 acre. They would be positioned at various points along the gathering line routes, would not effectively preclude use of the surface, and are therefore considered incidental disturbance because total disturbance from these facilities would be very low.

Long-term disturbance corresponds to the area that would not be reclaimed after gathering line construction. It consists of the aboveground pig valve assemblies and the low point drain connections. A summary of surface disturbance is provided in Table 4.

Table 4: Alternative A - Surface Disturbance Summary (acres)

Gathering Line	Construction Disturbance (acres)	Reclamation (acres)	Long-term Disturbance (acres)
CCU 1-1	0.4	0.4	0
CCU 2-1	0	0	0
CCU 2-1-25-18	0.6	0.6	0
CCU 7-1	3.7	3.7	0
CCU 8-1	1.5	1.5	0
CCU 12-1	1.5	1.5	0
CCU 16-2	20.0	20.0	0
CCU 17-1	2.3	2.3	0
CCU 18-1	0.5	0.5	0
CCU 24-1	2.3	2.3	0
CCU 26-2	5.2	5.2	0
CCU 28-2	0.4	0.4	0
CCU 32-1-25-19	0.9	0.9	0
CCU 36-1-25-18	13.4	13.4	0
CCU 36-1	2.3	2.3	0
Kane Springs Federal 10-1	3.8	3.8	0
Kane Springs 19-1A-ST	4.6	4.6	0
Kane Springs Federal 27-1	0 [1]	0 [1]	0
Kane Springs Federal 25-19-34-1	1.0	1.0	0
Class D Road Upgrade	3.7	3.7	0
Total	68.1	68.1	0

[1] Approximately 0.01 acre.

Project Design Features and Applicant Commitments

Table 5 summarizes the design features that would be incorporated into project execution. They are intended in provide protection to the environmental resources of the project area.

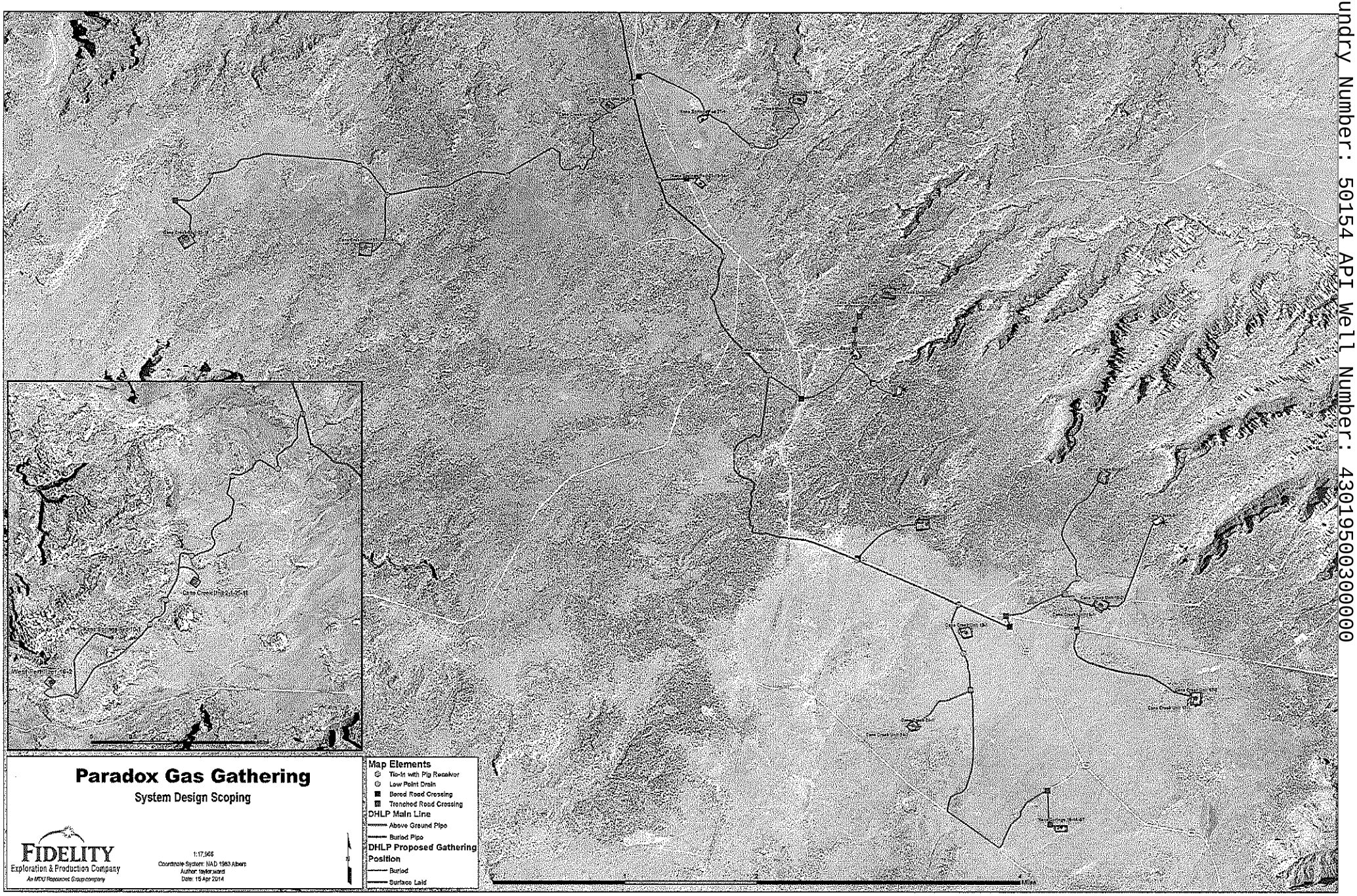
Table 5: Project Design Features and Environmental Protection Measures

Project Design Features
General
The Operator will adhere to all applicable federal, state, county, and BLM regulations, including Conditions of Approval, while performing all operations associated with the Proposed Action.
Construction operations would be conducted in consideration of the *Surface Operating Standards for Oil and Gas Exploration and Development, 4th Edition* (Gold Book) (USDI and USDA, 2007).
The Operator will follow guidance presented in the BLM publication *Hydraulic Considerations for Pipelines Crossing Stream Channels* (2007).
The Operator will provide "survey in place" documentation to the BLM to display construction details associated with each gathering line, including surveyed locations and depths of buried pipe.
The Operator will utilize an independent 3rd-party compliance monitor to ensure that gathering line construction operations would be conducted in accordance with applicable conditions of approval.
The Operator will perform internal inspections of its facilities to ensure that normal operations will be in compliance with the Onshore Orders and other rules and regulations that apply to the project, the Cane Creek Reclamation Plan, and commitments as described in this EA. The Operator will provide an annual report to the BLM describing the progress of its reclamation operations until the BLM agrees that reclamation has been successful.
The Operator will implement hiring policies that would encourage the employment of area residents and, to the extent feasible, will purchase equipment and materials from local area merchants.
Firearms will not be allowed at construction sites, and the Operator's drug, alcohol, and firearms policies will be rigorously enforced.
Access
The Operator will provide a surveyed route to the BLM prior to project approval showing proposed changes to the existing orientation of the Class D road that would be upgraded to bypass the Horsethief Campground.
Where possible, the Operator will utilize the construction corridor of existing access roads for gathering line installation.
The Operator will not inhibit public use of SH 313. Gemini Bridges or Long Canyon Roads may be closed briefly during trench road crossings. Wildlife or livestock movement would not be inhibited.
Where installed adjacent but offset to Class B roads, the Operator will locate the gathering line route as distant from the centerline of the Class B road as possible while saving as many trees as possible. The construction corridor will remain 30 feet wide.
Where installed adjacent to well pad access roads or Class D roads (not maintained by Grand County), the Operator will install the pipeline as close as possible to the access or Class D road.
Where installed below the borrow ditch immediately adjacent to Class B roads, the gathering line will be installed with a minimum of five feet of coverage. A survey "in place" of these lines will confirm the depth below the surface, and will be provided to the BLM and Grand County.
Construction equipment may be left overnight within the construction corridor but would not be parked overnight on Class B roads to ensure public access along these roads.
Air Quality
During construction operations, the Operator will perform dust mitigation with the application of water, as needed.
The Operator will instruct its employees and contractors not to exceed 20 miles per hour on any well access road during construction or normal daily activities to discourage the generation of fugitive dust.
Cultural Resources

Project Design Features
The Operator has conducted Class III cultural resource surveys on undisturbed lands that would be affected by gathering line construction and will avoid all sites determined to be eligible to the National Register of Historic Places. The results of these surveys will be submitted to the BLM.
Construction activities occurring within and near archaeological sites will be monitored by permitted archaeologists. Permitted archaeologists will perform open trench inspection along the entire length of any trenching activities for unexpected discoveries, regardless of the trench location.
Should cultural resources be discovered during construction of the proposed pipeline and associated facilities, all work would stop and the Moab BLM Field Office immediately contacted.
The Operator will prohibit staff and contractors from illegal collection or destruction of cultural resources and will discipline workers violating such policies and laws.
Paleontological Resources
The Operator has conducted a paleontological inventory on State of Utah and BLM lands affected by surface-disturbing activities. The results of the inventory will be submitted to the BLM.
A paleontology monitor would monitor all surface disturbing activities that occur within a Potential Fossil Yield Classification (PFYC) of 5, including the Morrison Formation. Monitoring in areas of PFYC 5 would be performed during ongoing operations, and in some cases extended periods of work may be required, although efforts would be made to complete any fossil recovery with minimal work stoppage. The Mancos Shale would be spot-checked in areas where any trenching or boring is to be done. Spot-check monitoring would be conducted when the Mancos is exposed to view or before pipe is placed and the trench backfilled. Monitoring would be required for any surface-laid pipe within PFYC 5 areas where there would be blading or grading of the surface more than 12 inches wide AND/OR greater than 1 meter deep. A monitor would spot check for any surface-laid pipe within PFYC 4 areas where there would be blading or grading of the surface more than 12 inches wide AND/OR greater than 1 meter deep. Areas of PFYC 3 are recommended for spot checks; although this maybe waved in areas that are covered in moderate to deep eolian sediments (3% of the proposed pipeline route is in a PFYC 3 area, with no PFYC 4 currently impacted). These include the Mancos Shale, Navajo Sandstone and the Kayenta Formation. Spot-checking is conducted when the fossil-bearing bedrock is exposed to view or prior to placing spoil material back into the excavation, such as when a pipeline trenching operation is complete but before pipe is placed and the trench backfilled.
Should paleontological resources be discovered during construction of the proposed pipeline and associated facilities, all work would stop and the Moab BLM Field Office immediately contacted.
Recreation and Safety
The Operator will ensure public safety at all times. During construction operations, public access would be maintained on Gemini Bridges and Long Canyon Roads by utilizing just one lane at any particular time so that one lane would remain open, or vehicle traffic would be temporarily routed to detour along the temporary construction ROW. Appropriate controls would be in place during construction within a roadbed or adjacent shoulders of the road to warn the public and control traffic. Traffic cones and "construction zone" signs would be used to warn oncoming traffic of construction operations. Sufficient space would be allowed for passage of a single vehicle. Flagmen would be placed at either end of the work area if visibility is less than 100 yards.
Off-road (cross-country) construction operations, including vehicle movement and travel, will be conducted within the approved temporary construction corridor.

Project Design Features
Although trees will be generally avoided, the Operator will take the following measures to reduce fuel loads and prevent possible fires: While performing construction operations, if any standing live or dead trees were to be damaged, cut down, or knocked over by grading or construction equipment, the Operator will take actions to mitigate the fuel loads from resultant slash. In areas where reclamation of the site would be expected and slash would be utilized to help reclaim the site, the Operator may temporary stockpile slash until termination of this activity. Disposal actions include chipping materials on site with dispersal along the road or pad edge. Disposal of materials will be conducted with the following stipulations: a. The BLM would pre-approve the disposal location. b. Piled vegetation will not be within 15 feet of standing live trees.
Soils and Vegetation
The Operator will use the reclamation plan developed for the DHL PL to direct reclamation operations on each gathering line to ensure that reclamation operations meet acceptable standards. The Operator will monitor reclamation progress semi-annually and provide the BLM with an annual report detailing reclamation status.
The Operator's reclamation performance goals include: • Preserving the viable use of topsoil; • Re-establishing vegetation; and • Minimizing visual impacts resulting from bare ground and the appearance of slopes created during construction operations.
Reclamation of the gathering line construction corridors will begin as soon as practicable after line installation
The Operator will re-distribute topsoil and re-seed as much of a gathering line construction corridor as possible to maintain topsoil viability and revegetate bare ground.
Reclaimed areas above buried gathering lines receiving incidental disturbance during maintenance activities will be reseeded as soon as practical with a seed mix approved by the BLM.
The Operator will power-wash construction equipment prior to entry into the project area.
The Operator will monitor growth of invasive species resulting from surface disturbance caused by project activities and will control weeds by the application of commercial herbicides in accordance with its approved Pesticide Use Proposal.
The Operator will conduct pre-construction briefings during which the field crew would be educated to identify and avoid soil crusts where possible.
Surface Water
The Operator will utilize best management practices for control of nonpoint sources of water pollution to prevent soil erosion, sedimentation, and damage to floodplains of drainages that transport ephemeral water.
Visual Resources
The Operator will paint all permanent aboveground structures (onsite 6 months or longer), constructed or installed, Shale Green or a flat, nonreflective color as determined by the BLM.
The Operator will install low profile in-line pigging valves that are about 1/10 the size of typical pigging valves in order to minimize the visual impacts of surface equipment.
Where aboveground equipment would be located adjacent to a Class B road or SH 313 in VRM II areas, the Operator will place the aboveground gathering line equipment behind trees, shrubs, and rocks, where present, to prevent viewing by travelers on the road as much as possible to assist in maintaining consistency with the VRM II objective which allows activities to be seen but diminishes the likelihood of attracting the attention of a casual observer. Where trees or rocks are not available in the vicinity of aboveground gathering equipment, the Operator will bring in natural materials to place between the Class B road or SH 313 and the equipment to discourage a direct

Project Design Features
view of the equipment.
Existing roads will be used for construction purposes and vehicle access for inspections and maintenance. Using designated routes for construction and inspection purposes would prevent unnecessary and unintended adverse effects to soils, vegetation, and visual resources.
If the installation of signs is necessary to ensure gathering line safety by identifying the route, the Operator will consult with the BLM to determine sign height necessary for safety and visibility.
Wildlife
During the spring of 2014, an approved biological contractor is conducting raptor surveys for the presence of active nests in the vicinity of the proposed gathering line routes. If an active nest is found, applicable spatial and seasonal buffers will be applied to construction operations until the nest is fledged. The results of the survey will be provided to the BLM.
The Operator will any conduct additional biological resource surveys as directed by the BLM.


Paradox Gas Gathering
System Design Scoping
FIDELITY
Exploration & Production Company
An MDU Resources Group company
1:17,966
Coordinate System: NAD 1983 Albers
Author: taylor.ward
Date: 15 Apr 2014
Map Elements
Tie-In with Pig Receiver
Low Point Drain
Bored Road Crossing
Trenched Road Crossing
DHLP Main Line
Above Ground Pipe
Buried Pipe
DHLP Proposed Gathering Position
Buried
Surface Laid
Miles

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: ML-40571

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: CANE CREEK

1. TYPE OF WELL Oil Well

8. WELL NAME and NUMBER: Cane Creek Unit 36-1

2. NAME OF OPERATOR: FIDELITY E&P COMPANY

9. API NUMBER: 43019500300000

3. ADDRESS OF OPERATOR: 1801 California St. Ste 2500 , Denver, CO, 80202

PHONE NUMBER: 713 351-1968 Ext

9. FIELD and POOL or WILDCAT: BIG FLAT

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0267 FSL 0774 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 36 Township: 25.0S Range: 19.0E Meridian: S

COUNTY: GRAND

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ NOTICE OF INTENT — Approximate date work will start:
- ✓ SUBSEQUENT REPORT — Date of Work Completion: 10/27/2014
- ☐ SPUD REPORT — Date of Spud:
- ☐ DRILLING REPORT — Report Date:

TYPE OF ACTION

☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
☐ TUBING REPAIR	☐ VENT OR FLARE	✓ WATER DISPOSAL
☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Produced water generated from this well is disposed of either at the Fidelity-operated Kane Springs 16-1 injection well or the commercial Danish Flats facility in Grand County, Utah.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
October 29, 2014

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Sandi Stocker	720 931-9637	Engineering Tech

SIGNATURE	DATE
N/A	10/27/2014

RECEIVED: Oct. 27, 2014

Division of Oil, Gas and Mining
Operator Change/Name Change Worksheet-for State use only

Effective Date: 3/1/2016

FORMER OPERATOR:	NEW OPERATOR:
Fidelity E&P Company N3155 1801 Califorina Street, Suite 2500 Denver, CO 80202	Wesco Operating, Inc. N4030 PO Box 1650 Casper, WY 82602
CA Number(s):	Unit(s): Cane Creek Threemile

WELL INFORMATION:

Well Name	Sec	TWN	RNG	API	Entity	Mineral	Surface	Type	Status
See Attached List									

OPERATOR CHANGES DOCUMENTATION:

1. Sundry or legal documentation was received from the **FORMER** operator on: 4/12/2016
2. Sundry or legal documentation was received from the **NEW** operator on: 4/12/2016
3. New operator Division of Corporations Business Number: 8742016-0143

REVIEW:

1. Surface Agreement Sundry from **NEW** operator on Fee Surface wells received on: 4/12/2016
2. Receipt of Acceptance of Drilling Procedures for APD on: 4/12/2016
3. Reports current for Production/Disposition & Sundries: 4/19/2016
4. OPS/SI/TA well(s) reviewed for full cost bonding: 4/19/2016
5. UIC5 on all disposal/injection/storage well(s) approved on: 4/13/2016
6. Surface Facility(s) included in operator change: Blue Hills Gas Plant
   Dead House Lateral Pipeline
   Dubinky Booster Station
   Long Canyon Facility
7. Inspections of PA state/fee well sites complete on (only upon operators request): N/A

NEW OPERATOR BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: UTB0000685
2. Indian well(s) covered by Bond Number: N/A
3.State/fee well(s) covered by Bond Number(s): RLB0016443

DATA ENTRY:

1. Well(s) update in the **OGIS** on: 4/21/2016✓
2. Entity Number(s) updated in **OGIS** on: 4/21/2016
3. Unit(s) operator number update in **OGIS** on: 4/21/2016
4. Surface Facilities update in **OGIS** on: 4/21/2016
5. State/Fee well(s) attached to bond(s) in **RBDMS** on: 4/21/2016
6. Surface Facilities update in **RBDMS** on: 4/21/2016

LEASE INTEREST OWNER NOTIFICATION:

1. The **NEW** operator of the Fee (Mineral) wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: N/A

COMMENTS:

From: Fidelity Exploration Production Comany N3155
To: Wesco Operating, Inc. N4030
Effective: 3/1/2016

Well Name	Section	TWN	RNG	API Numner	Entity	Mineral	Surface	Type	Status	Unit
KANE SPRINGS 16-1	16	250S	180E	4301931341	11484	State	State	WD	A	CANE CREEK
CANE CREEK UNIT 2-2-25-18	2	250S	180E	4301950044		State	State	OW	APD	CANE CREEK
Cane Creek Unit 25-1-25-19	25	250S	190E	4301950048		Federal	Federal	OW	APD	CANE CREEK
Cane Creek Unit 6-1-25-19	6	250S	190E	4301950052		Federal	Federal	OW	APD	CANE CREEK
Cane Creek Unit 29-1-25-19	29	250S	190E	4301950053		Federal	Federal	OW	APD	CANE CREEK
Cane Creek 10-1-25-19	10	250S	190E	4301950054		Federal	Federal	OW	APD	
Cane Creek Unit 30-1-25-19	30	250S	190E	4301950055		Federal	Federal	OW	APD	CANE CREEK
Cane Creek Unit 19-2-26-20	19	260S	200E	4301950056		Federal	Federal	OW	APD	CANE CREEK
Cane Creek Unit 14-1-25-19	14	250S	190E	4301950057		Federal	Federal	OW	APD	CANE CREEK
Cane Creek Unit 2-3-25-18	2	250S	180E	4301950058		Federal	State	OW	APD	CANE CREEK
Cane Creek Unit 16-3-25-18	16	250S	180E	4301950059		Federal	State	OW	APD	CANE CREEK
Cane Creek Unit 19-1-25-19	19	250S	190E	4301950060		Federal	Federal	OW	APD	CANE CREEK
Cane Creek Unit 32-2-25-19	32	250S	190E	4301950061		State	State	OW	APD	CANE CREEK
Cane Creek Unit 17-1-25-19	17	250S	190E	4301950062		Federal	Federal	OW	APD	CANE CREEK
Cane Creek Unit 16-4-25-18	16	250S	180E	4301950063		Federal	State	OW	APD	CANE CREEK
Cane Creek Unit 2-4-25-18	2	250S	180E	4301950064		Federal	State	OW	APD	CANE CREEK
Cane Creek Unit 5-1-25-18	5	250S	180E	4301950065		Federal	Federal	OW	APD	CANE CREEK
8-2-26-20	8	260S	200E	4301950068		Federal	Federal	OW	APD	CANE CREEK
Cane Creek Unit 19-3-26-20	19	260S	200E	4301950069		Federal	Federal	OW	APD	CANE CREEK
Cane Creek Unit 21-1-25-19	21	250S	190E	4301950070		Federal	Federal	OW	APD	CANE CREEK
Cane Creek Unit 12-2-26-19	12	260S	190E	4301950071		Federal	Federal	OW	APD	CANE CREEK
Cane Creek Unit 26-4-25-19	26	250S	190E	4301950072		Federal	Federal	OW	APD	CANE CREEK
Cane Creek Unit 21-1-25-18	21	250S	180E	4301950073		Federal	Federal	OW	APD	CANE CREEK
Cane Creek Unit 9-1-25-18	9	250S	180E	4301950074		Federal	Federal	OW	APD	CANE CREEK
Cane Creek Unit 7-1-25-19	7	250S	190E	4301950075		Federal	Federal	OW	APD	CANE CREEK
Cane Creek Unit 5-2-25-18	5	250S	180E	4301950076		Federal	Federal	OW	APD	CANE CREEK
Cane Creek Unit 7-1-25-18	7	250S	180E	4301950077		Federal	Federal	OW	APD	CANE CREEK
Cane Creek Unit 13-1-25-18	13	250S	180E	4301950078		Federal	Federal	OW	APD	CANE CREEK
Three Mile Unti 12-3-29-21	12	290S	210E	4303750070		Federal	Federal	OW	APD	THREEMILE
Three Mile Unit 16-2-29-22	16	290S	220E	4303750071		Federal	State	OW	APD	THREEMILE
Cane Creek Unit 7-2-26-20	7	260S	200E	4301950051	19706	Federal	Federal	OW	OPS	CANE CREEK
THREEMILE 16-17	16	290S	220E	4303750003	17984	State	State	OW	OPS	THREEMILE
Three Mile Unit 12-2-29-21	12	290S	210E	4303750069	19646	Federal	Federal	OW	OPS	THREEMILE
KANE SPRINGS FED 27-1	27	250S	190E	4301931310	14505	Federal	Federal	OW	P	CANE CREEK
KANE SPRINGS FED 19-1A	19	260S	200E	4301931324	14505	Federal	Federal	OW	P	CANE CREEK
KANE SPRINGS FED 10-1	10	250S	180E	4301931331	14509	Federal	Federal	OW	P	CANE CREEK
KANE SPRINGS FED 25-19-34-1	34	250S	190E	4301931334	14505	Federal	Federal	OW	P	CANE CREEK
CANE CREEK 2-1	2	260S	190E	4301931396	14505	State	State	OW	P	CANE CREEK
CANE CREEK UNIT 12-1	12	260S	190E	4301950009	14505	Federal	Federal	OW	P	CANE CREEK
CANE CREEK UNIT 7-1	7	260S	200E	4301950010	18923	Federal	Federal	OW	P	CANE CREEK
CANE CREEK UNIT# 26-2	26	250S	190E	4301950011	14505	Federal	Federal	OW	P	CANE CREEK
CANE CREEK UNIT #18-1	18	260S	200E	4301950012	14505	Federal	Federal	OW	P	CANE CREEK
CANE CREEK U #13-1	13	260S	190E	4301950014	14505	Federal	Federal	OW	P	CANE CREEK
CANE CREEK UNIT 26-3	26	250S	190E	4301950019	14505	Federal	Federal	OW	P	CANE CREEK
CANE CREEK UNIT 28-2	28	250S	190E	4301950020	18681	Federal	Federal	OW	P	
Cane Creek Unit 17-1	17	260S	200E	4301950028	18980	Federal	Federal	OW	P	CANE CREEK
Cane Creek Unit 36-1	36	250S	190E	4301950030	14505	State	State	OW	P	CANE CREEK
Cane Creek Unit 36-2H	36	250S	190E	4301950033	14505	State	State	OW	P	CANE CREEK
Cane Creek Unit 24-2H	24	260S	190E	4301950034	19342	Federal	Federal	OW	P	CANE CREEK
Cane Creek Unit 36-3H	36	250S	190E	4301950035	19528	State	State	OW	P	CANE CREEK
CANE CREEK UNIT 2-1-25-18	2	250S	180E	4301950036	19343	Federal	State	OW	P	CANE CREEK
Cane Creek Unit 32-1-25-19	32	250S	190E	4301950037	19396	State	State	OW	P	
Cane Creek Unit 28-3	28	250S	190E	4301950045	19767	Federal	Federal	OW	P	CANE CREEK
Cane Creek 32-1-25-20	32	250S	200E	4301950049	19588	State	State	OW	P	
HATCH POINT 1	14	290S	210E	4303731658	11356	Federal	Federal	OW	P	
THREEMILE 43-18H	18	290S	220E	4303731857	17276	Federal	Federal	OW	P	
LONG CANYON 1	9	260S	200E	4301915925	674	Federal	Federal	OW	S	
CANE CREEK 1-1	1	260S	190E	4301931446	14505	Federal	Federal	OW	S	CANE CREEK

From: Fidelity Exploration Production Comany N3155
To: Wesco Operating, Inc. N4030
Effective: 3/1/2016

CANE CREEK 24-1	24	260S	190E	4301931447	14505	Federal	Federal	OW	S	CANE CREEK
CANE CREEK 8-1	8	260S	200E	4301931449	16464	Federal	Federal	OW	S	CANE CREEK
Cane Creek Unit 18-2	18	260S	200E	4301950027	14505	Federal	Federal	OW	S	CANE CREEK
Cane Creek Unit 17-2	17	260S	200E	4301950032	14505	Federal	Federal	OW	S	CANE CREEK
Cane Creek 36-1-25-18	36	250S	180E	4301950038	19440	State	State	OW	S	
CHEVRON FED 1	24	290S	230E	4303730005	975	Federal	Federal	OW	S	
Threemile 12-7	12	290S	210E	4303750001	17837	Federal	Federal	OW	S	THREEMILE
LA SAL 29-28	29	290S	230E	4303750002	17920	Federal	Federal	OW	S	
CANE CREEK UNIT 16-2-25-18	16	250S	180E	4301950046	19512	State	State	OW	TA	CANE CREEK

WESCO OPERATING, INC.

OIL & GAS OPERATIONS

RECEIVED
APR 12 2016
DIV. OF OIL, GAS & MINING

April 8, 2016

John Rogers
Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210 Box 145801
Salt Lake City, Utah 84114

RE: Change of Operator
A) Wells
B) APD'S
C) Dubinky Booster Station
D) Blue Hills Gas Plant
E) Dead Horse Lateral Pipeline
F) Authority to Inject
Sundry Notices

Dear John Rodgers,

Please find enclosed the following documents from Fidelity Exploration & Production Company to Wesco Operating, Inc for your further handing. If you have any further questions please contact us..

Sincerely,

Cassy Hague

Cassy Hague
307-577-5337

120 S. Durbin • P.O. Box 1650 • Casper, WY 82602 • 307/472-4618 • 307/265-1791 FAX

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER: See Attached Exhibit

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: See Attached Exhibit

7. UNIT or CA AGREEMENT NAME: See Attached Exhibit

1. TYPE OF WELL: OIL WELL ☑ GAS WELL ☐ OTHER

8. WELL NAME and NUMBER: See Attached Exhibit

2. NAME OF OPERATOR: Fidelity Exploration & Production Company

9. API NUMBER:

3. ADDRESS OF OPERATOR: 1801 California St., STE 2500 CITY Denver STATE CO ZIP 80202

PHONE NUMBER: (303) 893-3133

10. FIELD AND POOL, OR WILDCAT: See Attached Exhibit

4. LOCATION OF WELL

FOOTAGES AT SURFACE: See attached exhibit for all wells and details

COUNTY: Grand

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☑ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
Approximate date work will start:	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
3/1/2016	☐ CHANGE TO PREVIOUS PLANS	☑ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
Date of work completion:	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☐ OTHER:
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Effective March 1, 2016, Fidelity Exploration & Production Company (Operator Number N1355) resigns as Operator of the wells listed on the attached exhibit and Wesco Operating, Inc. has been designated as successor Operator.

Wesco Operating, Inc.
P.O. Box 1650
Casper, Wyoming 82602
Phone 307-265-5178

Fidelity Exploration & Production Company
1801 California Street, Suite 2500
Denver, Colorado 80202
Phone 303-893-3133

Wesco Operating, Inc.
Robert W. Kirkwood, President

Signature

NAME (PLEASE PRINT) Darwin Subart TITLE Chief Financial Officer

SIGNATURE Darwin Subart DATE 4/4/2016

(This space for State use only) BLM:

APPROVED
APR 21 2016
DIV. OIL GAS & MINING
BY: Rachel Medina

(5/2000) (See Instructions on Reverse Side)

Fidelity Exploration & Production Company Paradox Well & APD List

Entity #	API #	Permitted Well Name	AKA Well Name	Township	Range	Section(s)	County	State	Mineral	Surface	Well Type	Well Status
14506	4301931310	KANE SPRINGS FED 27-1	KANE SPRINGS FED 27-1-25-19	25S	19E	27	GRAND	UT	Federal	Federal	OW	P ✓
14505	4301931324	KANE SPRINGS FED 19-1A	KANE SPRINGS FED 19-1A-ST-26-20	26S	20E	19	GRAND	UT	Federal	Federal	OW	P ✓
14509	4301931331	KANE SPRINGS FED 10-1	KANE SPRINGS FED 10-1-25-18	25S	18E	10	GRAND	UT	Federal	Federal	OW	P ✓
14506	4301931334	KANE SPRINGS FED 25-19-34-1	KANE SPRINGS FED 25-19-34-1	25S	19E	34	GRAND	UT	Federal	Federal	OW	P ✓
	4301931341	KANE SPRINGS 16-1-25-18	Disposal Well	25S	18E	16	GRAND	UT	State	State	SWD	P ✓
14505	4301931396	CANE CREEK 2-1	CANE CREEK UNIT 2-1-26-19	26S	19E	2	GRAND	UT	State	State	OW	P ✓
14505	4301931446	CANE CREEK 1-1	CANE CREEK UNIT 1-1-26-19	26S	19E	1	GRAND	UT	Federal	Federal	OW	P ✓
14505	4301950009	CANE CREEK UNIT 12-1	CANE CREEK UNIT 12-1-26-19	26S	19E	12	GRAND	UT	Federal	Federal	OW	P ✓
18923	4301950010	CANE CREEK UNIT 7-1	CANE CREEK UNIT 7-1-26-20	26S	20E	7	GRAND	UT	Federal	Federal	OW	P ✓
14506	4301950011	CANE CREEK UNIT# 26-2	CANE CREEK UNIT 26-2-25-19	25S	19E	26	GRAND	UT	Federal	Federal	OW	P ✓
14505	4301950012	CANE CREEK UNIT #18-1	CANE CREEK UNIT 18-1-26-20	26S	20E	18	GRAND	UT	Federal	Federal	OW	P ✓
14505	4301950014	CANE CREEK U #13-1	CANE CREEK UNIT 13-1-26-19	26S	19E	13	GRAND	UT	Federal	Federal	OW	P ✓
14506	4301950019	CANE CREEK UNIT 26-3	CANE CREEK UNIT 26-3-25-19	25S	19E	26	GRAND	UT	Federal	Federal	OW	P ✓
18681	4301950020	CANE CREEK UNIT 28-2	CANE CREEK UNIT 28-2-25-19	25S	19E	28	GRAND	UT	Federal	Federal	OW	P ✓
14505	4301950027	Cane Creek Unit 18-2	CANE CREEK UNIT 18-2-26-20	26S	20E	18	GRAND	UT	Federal	Federal	OW	P ✓
18980	4301950028	Cane Creek Unit 17-1	CANE CREEK UNIT 17-1-26-20	26S	20E	17	GRAND	UT	Federal	Federal	OW	P ✓
19057	4301950030	Cane Creek Unit 36-1	CANE CREEK UNIT 36-1-25-19	25S	19E	36	GRAND	UT	State	State	OW	P ✓
14505	4301950032	Cane Creek Unit 17-2	CANE CREEK UNIT 17-2-26-20	26S	20E	17	GRAND	UT	Federal	Federal	OW	P ✓
19527	4301950033	Cane Creek Unit 36-2H	CANE CREEK UNIT 36-2H-25-19	25S	19E	36	GRAND	UT	State	State	OW	P ✓
19342	4301950034	Cane Creek Unit 24-2H	CANE CREEK UNIT 24-2-26-19	26S	19E	24	GRAND	UT	Federal	Federal	OW	P ✓
19528	4301950035	Cane Creek Unit 36-3H	CANE CREEK UNIT 36-3H-25-19	25S	19E	36	GRAND	UT	State	State	OW	P ✓
19396	4301950037	Cane Creek Unit 32-1-25-19	CANE CREEK UNIT 32-1-25-19	25S	19E	32	GRAND	UT	State	State	OW	P ✓
19767	4301950045	Cane Creek Unit 28-3	CANE CREEK UNIT 28-3-25-19	26S	19E	28	GRAND	UT	Federal	Federal	OW	P ✓
19588	4301950049	Cane Creek 32-1-25-20	CANE CREEK 32-1-25-20	25S	20E	32	GRAND	UT	State	State	OW	P ✓
11356	4303731658	HATCH POINT 1	HATCH POINT FEDERAL 1	29S	21E	14	SAN JUAN	UT	Federal	Federal	OW	P ✓ 26-P
17276	4303731857	THREEMILE 43-18H	THREEMILE UNIT 43-18H-29-22	29S	22E	18	SAN JUAN	UT	Federal	Federal	OW	P ✓
19706	4301950051	Cane Creek Unit 7-2-26-20	CANE CREEK UNIT 7-2-26-20	26S	20E	7	GRAND	UT	Federal	Federal	OW	OPS ✓
17984	4303750003	THREEMILE 16-17	THREEMILE UNIT 16-17-29-22	29S	22E	16	SAN JUAN	UT	State	State	OW	OPS ✓ 3-OPS
19646	4303750069	Three Mile Unit 12-2-29-21	THREE MILE UNIT 12-2-29-21	29S	21E	12	SAN JUAN	UT	Federal	Federal	OW	OPS ✓
19343	4301950036	CANE CREEK UNIT 2-1-25-18	CANE CREEK UNIT 2-1-25-18	25S	18E	2	GRAND	UT	Federal	State	OW	TA ✓
19512	4301950046	CANE CREEK UNIT 16-2-25-18	CANE CREEK UNIT 16-2-25-18	25S	18E	16	GRAND	UT	State	State	OW	TA ✓ 2TA
674	4301915925	LONG CANYON 1	LONG CANYON 1	26S	20E	9	GRAND	UT	Federal	Federal	OW	S ✓
14505	4301931447	CANE CREEK 24-1	CANE CREEK UNIT 24-1-26-19	26S	19E	24	GRAND	UT	Federal	Federal	OW	S ✓
16464	4301931449	CANE CREEK 8-1	CANE CREEK UNIT 8-1-26-20	26S	20E	8	GRAND	UT	Federal	Federal	OW	S ✓
19440	4301950038	Cane Creek 36-1-25-18	CANE CREEK 36-1-25-18	25S	18E	36	GRAND	UT	State	State	OW	S ✓
975	4303730005	CHEVRON FED 1	CHEVRON FEDERAL 1H	29S	23E	24	SAN JUAN	UT	Federal	Federal	OW	S ✓ 7-S
17837	4303750001	Threemile 12-7	THREEMILE UNIT 12-7-29-21	29S	21E	12	SAN JUAN	UT	Federal	Federal	OW	S ✓
17920	4303750002	LA SAL 29-28	LA SAL UNIT 29-28-29-23	29S	23E	29	SAN JUAN	UT	Federal	Federal	OW	S ✓
	4301950044	CANE CREEK UNIT 2-2-25-18		250S	180E	2	GRAND	UT	State	State	OW	APD ✓
	4301950048	Cane Creek Unit 25-1-25-19		250S	190E	25	GRAND	UT	Federal	Federal	OW	APD ✓
	4301950052	Cane Creek Unit 6-1-25-19		250S	190E	6	GRAND	UT	Federal	Federal	OW	APD ✓
	4301950053	Cane Creek Unit 29-1-25-19		250S	190E	29	GRAND	UT	Federal	Federal	OW	APD ✓ 3APD
	4301950054	Cane Creek 10-1-25-19		250S	190E	10	GRAND	UT	Federal	Federal	OW	APD ✓
	4301950055	Cane Creek Unit 30-1-25-19		250S	190E	30	GRAND	UT	Federal	Federal	OW	APD ✓
	4301950056	Cane Creek Unit 19-2-26-20		260S	200E	19	GRAND	UT	Federal	Federal	OW	APD ✓

Entity #	API #	Permitted Well Name	AKA Well Name	Township	Range	Section(s)	County	State	Mineral	Surface	Well Type	Well Status
	4301950057	Cane Creek Unit 14-1-25-19		250S	190E	14	GRAND	UT	Federal	Federal	OW	APD ✓
	4301950058	Cane Creek Unit 2-3-25-18		250S	180E	2	GRAND	UT	Federal	State	OW	APD ✓
	4301950059	Cane Creek Unit 16-3-25-18		250S	180E	16	GRAND	UT	Federal	State	OW	APD ✓
	4301950060	Cane Creek Unit 19-1-25-19		250S	190E	19	GRAND	UT	Federal	Federal	OW	APD ✓
	4301950061	Cane Creek Unit 32-2-25-19		250S	190E	32	GRAND	UT	State	State	OW	APD ✓
	4301950062	Cane Creek Unit 17-1-25-19		250S	190E	17	GRAND	UT	Federal	Federal	OW	APD ✓
	4301950063	Cane Creek Unit 16-4-25-18		250S	180E	16	GRAND	UT	Federal	State	OW	APD ✓
	4301950064	Cane Creek Unit 2-4-25-18		250S	180E	2	GRAND	UT	Federal	State	OW	APD ✓
	4301950065	Cane Creek Unit 5-1-25-18		250S	180E	5	GRAND	UT	Federal	Federal	OW	APD ✓
	4301950068	8-2-26-20		260S	200E	8	GRAND	UT	Federal	Federal	OW	APD ✓
	4301950069	Cane Creek Unit 19-3-26-20		260S	200E	19	GRAND	UT	Federal	Federal	OW	APD ✓
	4301950070	Cane Creek Unit 21-1-25-19		250S	190E	21	GRAND	UT	Federal	Federal	OW	APD ✓
	4301950071	Cane Creek Unit 12-2-26-19		260S	190E	12	GRAND	UT	Federal	Federal	OW	APD ✓
	4301950072	Cane Creek Unit 26-4-25-19		250S	190E	26	GRAND	UT	Federal	Federal	OW	APD ✓
	4301950073	Cane Creek Unit 21-1-25-18		250S	180E	21	GRAND	UT	Federal	Federal	OW	APD ✓
	4301950074	Cane Creek Unit 9-1-25-18		250S	180E	9	GRAND	UT	Federal	Federal	OW	APD ✓
	4301950075	Cane Creek Unit 7-1-25-19		250S	190E	7	GRAND	UT	Federal	Federal	OW	APD ✓
	4301950076	Cane Creek Unit 5-2-25-18		250S	180E	5	GRAND	UT	Federal	Federal	OW	APD ✓
	4301950077	Cane Creek Unit 7-1-25-18		250S	180E	7	GRAND	UT	Federal	Federal	OW	APD ✓
	4301950078	Cane Creek Unit 13-1-25-18		250S	180E	13	GRAND	UT	Federal	Federal	OW	APD ✓
	4303750070	Three Mile Unti 12-3-29-21		290S	210E	12	SAN JUAN	UT	Federal	Federal	OW	APD ✓
	4303750071	Three Mile Unit 16-2-29-22		290S	220E	16	SAN JUAN	UT	Federal	State	OW	APD ✓
	4301950036	CANE CREEK UNIT 2-1-25-18H2		25S	18E	2	GRAND	UT	Federal	State	OW	APD ✓

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Request to Transfer Application or Permit to Drill

(This form should accompany a Sundry Notice, Form 9, requesting APD transfer)

Well name:	See attached well list
API number:	
Location:	Qtr-Qtr: Section: Township: Range:
Company that filed original application:	Fidelity Exploration & Production Company
Date original permit was issued:	
Company that permit was issued to:	Fidelity Exploration & Production Company

Check one	Desired Action:
	Transfer pending (unapproved) Application for Permit to Drill to new operator
	The undersigned as owner with legal rights to drill on the property, hereby verifies that the information as submitted in the pending Application for Permit to Drill, remains valid and does not require revision. The new owner of the application accepts and agrees to the information and procedures as stated in the application.
✓	**Transfer approved Application for Permit to Drill to new operator**
	The undersigned as owner with legal rights to drill on the property as permitted, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.	**Yes**	**No**
If located on private land, has the ownership changed?		✓
If so, has the surface agreement been updated?		
Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?		✓
Have there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?		✓
Have there been any changes to the access route including ownership or right-of-way, which could affect the proposed location?		✓
Has the approved source of water for drilling changed?		✓
Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?		✓
Is bonding still in place, which covers this proposed well? Bond No. _____		

Any desired or necessary changes to either a pending or approved Application for Permit to Drill that is being transferred, should be filed on a Sundry Notice, Form 9, or amended Application for Permit to Drill, Form 3, as appropriate, with necessary supporting information as required.

Name (please print) Robert W. Kirkwood Title President

Signature [signature] Date 4/7/10

Representing (company name) Wesco Operating, Inc.

The person signing this form must have legal authority to represent the company or individual(s) to be listed as the new operator on the Application for Permit to Drill.

(3/2004)

Fidelity Exploration & Production Company Paradox APD List

Date Issued	API #	Permitted Well Name	Township	Range	Section(s)	County	State	Mineral	Surface	Well Type	Well Status
3/4/2014	4301950044	CANE CREEK UNIT 2-2-25-18	250S	180E	2	GRAND	UT	State	State	OW	APD
2/19/2015	4301950048	Cane Creek Unit 25-1-25-19	250S	190E	25	GRAND	UT	Federal	Federal	OW	APD
6/26/2014	4301950052	Cane Creek Unit 6-1-25-19	250S	190E	6	GRAND	UT	Federal	Federal	OW	APD
6/26/2014	4301950053	Cane Creek Unit 29-1-25-19	250S	190E	29	GRAND	UT	Federal	Federal	OW	APD
6/26/2014	4301950054	Cane Creek 10-1-25-19	250S	190E	10	GRAND	UT	Federal	Federal	OW	APD
6/26/2014	4301950055	Cane Creek Unit 30-1-25-19	250S	190E	30	GRAND	UT	Federal	Federal	OW	APD
6/26/2014	4301950056	Cane Creek Unit 19-2-26-20	260S	200E	19	GRAND	UT	Federal	Federal	OW	APD
6/26/2014	4301950057	Cane Creek Unit 14-1-25-19	250S	190E	14	GRAND	UT	Federal	Federal	OW	APD
7/21/2014	4301950058	Cane Creek Unit 2-3-25-18	250S	180E	2	GRAND	UT	Federal	State	OW	APD
8/6/2014	4301950059	Cane Creek Unit 16-3-25-18	250S	180E	16	GRAND	UT	Federal	State	OW	APD
8/6/2014	4301950060	Cane Creek Unit 19-1-25-19	250S	190E	19	GRAND	UT	Federal	Federal	OW	APD
9/22/2014	4301950061	Cane Creek Unit 32-2-25-19	250S	190E	32	GRAND	UT	State	State	OW	APD
7/30/2014	4301950062	Cane Creek Unit 17-1-25-19	250S	190E	17	GRAND	UT	Federal	Federal	OW	APD
8/12/2014	4301950063	Cane Creek Unit 16-4-25-18	250S	180E	16	GRAND	UT	Federal	State	OW	APD
9/24/2014	4301950064	Cane Creek Unit 2-4-25-18	250S	180E	2	GRAND	UT	Federal	State	OW	APD
9/2/2014	4301950065	Cane Creek Unit 5-1-25-18	250S	180E	5	GRAND	UT	Federal	Federal	OW	APD
11/25/2014	4301950068	8-2-26-20	260S	200E	8	GRAND	UT	Federal	Federal	OW	APD
12/19/2014	4301950069	Cane Creek Unit 19-3-26-20	260S	200E	19	GRAND	UT	Federal	Federal	OW	APD
1/14/2015	4301950070	Cane Creek Unit 21-1-25-19	250S	190E	21	GRAND	UT	Federal	Federal	OW	APD
1/13/2015	4301950071	Cane Creek Unit 12-2-26-19	260S	190E	12	GRAND	UT	Federal	Federal	OW	APD
1/13/2015	4301950072	Cane Creek Unit 26-4-25-19	250S	190E	26	GRAND	UT	Federal	Federal	OW	APD
1/14/2015	4301950073	Cane Creek Unit 21-1-25-18	250S	180E	21	GRAND	UT	Federal	Federal	OW	APD
1/20/2015	4301950074	Cane Creek Unit 9-1-25-18	250S	180E	9	GRAND	UT	Federal	Federal	OW	APD
1/14/2015	4301950075	Cane Creek Unit 7-1-25-19	250S	190E	7	GRAND	UT	Federal	Federal	OW	APD
1/20/2015	4301950076	Cane Creek Unit 5-2-25-18	250S	180E	5	GRAND	UT	Federal	Federal	OW	APD
1/14/2015	4301950077	Cane Creek Unit 7-1-25-18	250S	180E	7	GRAND	UT	Federal	Federal	OW	APD
1/14/2015	4301950078	Cane Creek Unit 13-1-25-18	250S	180E	13	GRAND	UT	Federal	Federal	OW	APD
7/8/2014	4303750070	Three Mile Unti 12-3-29-21	290S	210E	12	SAN JUAN	UT	Federal	Federal	OW	APD
10/2/2014	4303750071	Three Mile Unit 16-2-29-22	290S	220E	16	SAN JUAN	UT	Federal	State	OW	APD
12/16/2014	4301950036	Cane Creek Unit 2-1-25-18 H2	25S	18E	2	GRAND	UT	Federal	State	OW	APD

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-90108

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

7. UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ OTHER Blue Hills Gas Plant

8. WELL NAME and NUMBER: Blue Hills Gas Plant

2. NAME OF OPERATOR: Fidelity Exploration & Production Company

9. API NUMBER:

3. ADDRESS OF OPERATOR: 1801 California St., STE 2500 CITY Denver STATE CO ZIP 80202 PHONE NUMBER: (303) 893-3133

10. FIELD AND POOL, OR WILDCAT:

4. LOCATION OF WELL

FOOTAGES AT SURFACE:

COUNTY: Grand

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☑ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start:	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
3/1/2016	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☑ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☐ OTHER:
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Effective March1, 2016, Fidelity Exploration & Production Company (Operator Number N1355) resigns as Operator of the Blue Hills Gas Plant located in T23S-R19E, Sections 20, 29. Wesco Operating, Inc. has been named as successor Operator.

Wesco Operating, Inc.
P.O Box 1650
Casper, Wyoming 82602
Phone 307-265-5178

Fidelity Exploration & Production Company
1801 California Street, Suite 2500
Denver, Colorado 80202
Phone 303-893-3133

Wesco Operating, Inc.
Robert W. Kirkwood, President

Signature

NAME (PLEASE PRINT) Darwin Subart TITLE Chief Financial Officer

SIGNATURE DATE 4/4/2016

(This space for State use only)

APPROVED

APR 21 2016

DIV. OIL GAS & MINING

BY: Rachel Medina

(5/2000) (See Instructions on Reverse Side)

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER:

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

7. UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ OTHER Compressor Booster Station

8. WELL NAME and NUMBER: Dubinky Booster Station

2. NAME OF OPERATOR: Fidelity Exploration & Production Company

9. API NUMBER:

3. ADDRESS OF OPERATOR: 1801 California St., STE 2500 CITY Denver STATE CO ZIP 80202

PHONE NUMBER: (303) 893-3133

10. FIELD AND POOL, OR WILDCAT:

4. LOCATION OF WELL

FOOTAGES AT SURFACE:

COUNTY: Grand

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☑ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start:	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
3/1/2016	☐ CHANGE TO PREVIOUS PLANS	☑ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☐ OTHER:
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Effective March1, 2016, Fidelity Exploration & Production Company (Operator Number N1355) resigns as Operator of the Dubinky Booster Station located along Dubinky Road, approximately 18 miles northwest of Moab, 599142 E 4280872 N UTM Zone 12, NAD83. Wesco Operating, Inc. has been named as successor Operator.

Wesco Operating, Inc.
P.O. Box 1650
Casper, Wyoming 82602
Phone 307-265-5178

Fidelity Exploration & Production Company
1801 California Street, Suite 2500
Denver, Colorado 80202
Phone 303-893-3133

Wesco Operating, Inc.
Robert W. Kirkwood, President

Signature

NAME (PLEASE PRINT) Darwin Subart TITLE Chief Financial Officer

SIGNATURE Darwin Subart DATE 4/4/2016

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UIC FORM 5

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

TRANSFER OF AUTHORITY TO INJECT

Well Name and Number Kane Springs 16-1	API Number 4301931341
Location of Well Footage : 960' FSL 1960' FWL County : Grand QQ, Section, Township, Range: SESW 16 25 18 State : UTAH	Field or Unit Name Cane Creek Lease Designation and Number ML-44333

EFFECTIVE DATE OF TRANSFER: 3/1/2016

CURRENT OPERATOR

Company: Fidelity Exploration & Production Company
Address: 1801 California Street, Suite 2500
city Denver state CO zip 80202
Phone: (303) 893-3133
Comments:

Name: Darwin Subart
Signature: Darwin Subart
Title: Chief Financial Officer
Date: 4/4/2016

NEW OPERATOR

Company: Wesco Operating, Inc.
Address: P.O. Box 1650
city Casper state WY zip 82602
Phone: (307) 265-5178
Comments:

Name: Robert W. Kirkwood
Signature: Robert W. Kirkwood
Title: President
Date: 4/4/16

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Transfer approved by: Dan Jarvis
Title: UIC Geologist
Approval Date: 4/13/16

Comments:

(5/2000)