API Well Number: 43013530410000

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
DWR 4-32B5

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

3. FIELD OR WILDCAT
ALTAMONT

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

5. UNIT or COMMUNITIZATION AGREEMENT NAME

6. NAME OF OPERATOR
EP ENERGY E&P COMPANY, L.P.

7. OPERATOR PHONE
713 997-5038

8. ADDRESS OF OPERATOR
1001 Louisiana, Houston, TX, 77002

9. OPERATOR E-MAIL
maria.gomez@epenergy.com

10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)
FEE

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	1458 FSL 776 FEL	NESE	32	2.0 S	5.0 W	U
Top of Uppermost Producing Zone	1050 FSL 1150 FEL	SESE	32	2.0 S	5.0 W	U
At Total Depth	1050 FSL 1150 FEL	SESE	32	2.0 S	5.0 W	U

21. COUNTY
DUCHESNE

22. DISTANCE TO NEAREST LEASE LINE (Feet)
776

23. NUMBER OF ACRES IN DRILLING UNIT
640

25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)
1500

26. PROPOSED DEPTH
MD: 13230 TVD: 13200

27. ELEVATION - GROUND LEVEL
6114

28. BOND NUMBER
400JU0708

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

Hole, Casing, and Cement Information

String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
COND	17.5	13.375	0 - 800	54.5	J-55 ST&C	8.6	Class G	1000	1.15	15.8
SURF	12.25	9.625	0 - 4000	40.0	N-80 LT&C	9.5	Type V	425	2.23	12.0
							Class G	735	1.3	14.3
I1	8.75	7	0 - 9510	29.0	HCP-110 LT&C	10.0	Class G	319	1.91	12.5
							Class G	238	1.64	13.0
L1	6.125	5	9310 - 13230	18.0	HCP-110 LT&C	12.5	Class G	232	1.47	14.2

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 Maria S. Gomez	**TITLE** Principal Regulatory Analyst	**PHONE** 713 997-5038
SIGNATURE	**DATE** 07/14/2014	**EMAIL** maria.gomez@epenergy.com

API NUMBER ASSIGNED
43013530410000

APPROVAL

Permit Manager

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DWR 4-32B5
Sec. 32, T2S, R5W
DUCHESNE COUNTY, UT

EP ENERGY E&P COMPANY, L.P.

DRILLING PROGRAM

1. **Estimated Tops of Important Geologic Markers**

Formation	Depth
Green River (GRRV)	4,716' TVD
Green River (GRTN1)	5,516' TVD
Mahogany Bench	6,456' TVD
L. Green River	7,756' TVD
Wasatch	9,286' TVD
T.D. (Permit)	13,200' TVD / 13,230' MD

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2. **Estimated Depths of Anticipated Water, Oil, Gas or Mineral Formations:**

Substance	Formation	Depth
	Green River (GRRV)	4,716' TVD / 4,718' MD
	Green River (GRTN1)	5,516' TVD / 5,523' MD
	Mahogany Bench	6,456' TVD / 6,469' MD
Oil	L. Green River	7,756' TVD / 7,777' MD
Oil	Wasatch	9,286' TVD / 9,316' MD

3. **Pressure Control Equipment:** (Schematic Attached)

A Diverter Stack on structural pipe from surface to 800' MD/TVD. A 4.5" by 13-3/8" Diverter Stack w/ rotating head from 800' MD/TVD to 4,000' MD/TVD on Conductor. A 10M BOP stack w/ rotating head, spacer spool, 5M annular, flex rams, blind rams & single w/ flex rams from 4,000' MD/TVD to 9,510' MD / 9,480' TVD. A 10M BOP stack w/ rotating head, spacer spool, 5M annular, flex rams, blind rams & single w/ flex rams from 9,510' MD / 9,480' TVD to TD (13,230' MD/ 13,200' TVD).

The BOPE and related equipment will meet the requirements of the 5M and 10M system.

OPERATORS MINIMUM SPECIFICATIONS FOR BOPE:

The surface casing will be equipped with a flanged casing head of 5M psi working pressure. An 11" 5M x 11" 10M spool, 11" x 10M psi BOP and 5M psi annular will be nippled up on the surface casing and tested to 250 psi low test / 3,000 psi high test for 10 minutes each prior to drilling out. The surface casing

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will be tested to 1,000 psi. for 30 mins. Intermediate casing will be tested to the greater of 1,500 psi or 0.22 psi/ft. The choke manifold equipment, upper Kelly cock and floor safety valves will be tested to 5M psi. The annular preventer will be tested to 250 psi low test / 4,000 psi high test. The 10M BOP will be installed with rotating head, spacer spool, 5M annular, flex rams, blind rams & single w/ flex rams from surface shoe to TD. The BOPE will be hydraulically operated.

In addition, the BOP equipment will be tested after running intermediate casing, after any repairs to the equipment and at least once every 30 days. Pipe and blind rams will be activated on each trip, annular preventer will be activated weekly and weekly BOP drills will be held with each crew.

Statement on Accumulator System and Location of Hydraulic Controls:

Precision Rig # 404 is expected to be used to drill the proposed well. Operations will commence after approval of this application. Manual and/or hydraulic controls will be in compliance with 5M and 10M psi systems.

Auxiliary Equipment:

A) Pason Gas Monitoring 800' - TD
B) Mud logger with gas monitor – 4,000' to TD
C) Choke manifold with one manual and one hydraulic operated choke
D) Full opening floor valve with drill pipe thread
E) Upper and lower Kelly cock
F) Shaker, de-sander and centrifuge

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4. **Proposed Casing & Cementing Program:**

Please refer to the attached Wellbore Diagram.
All casing will meet or exceed the following design safety factors:

- Burst = 1.00
- Collapse = 1.125
- Tension = 1.2 (including 100k# overpull)

Cement design calculations for intermediate and production hole will be based on minimum 10% excess over gauge hole volumes. Actual volumes pumped will be a minimum of 10% excess over caliper volume to designed tops of cement for any section logged. A minimum of 50% excess over gauge volume will be pumped on surface casing.

5. **Drilling Fluids Program:**

Proposed Mud Program:

Interval	Type	Mud Weight
Surface	WBM	8.6 – 9.5
Intermediate	WBM	9.5 – 10.0
Production	WBM	10.0 – 12.5

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Anticipated mud weights are based on actual offset well bottom-hole pressure data. Mud weights utilized may be somewhat higher to allow for trip margin and to provide hole stability for running logs and casing.

Visual mud monitoring equipment will be utilized.

6. **Evaluation Program**:

Logs:
Mud Log: 4,000' MD/TVD – TD
Open Hole Logs: Gamma Ray, Neutron-Density, Resistivity, Sonic, from surface casing shoe to TD.

7. **Abnormal Conditions:**

Maximum anticipated bottomhole pressure calculated at 13,200' TVD equals approximately 8,580 psi. This is calculated based on a 0.65 psi/ft gradient (12.5 ppg mud density at TD).

Maximum anticipated surface pressure equals approximately 5,676 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/ft).

Maximum anticipated surface pressure based on frac gradient at 7" casing shoe is 0.8 psi/ft at 9,480' TVD = 7,584 psi

BOPE and casing design will be based on the lesser of the two MASPs which is 5,676 psi.

8. **OPERATOR REQUESTS THAT THE PROPOSED WELL BE PLACED ON CONFIDENTIAL STATUS.**

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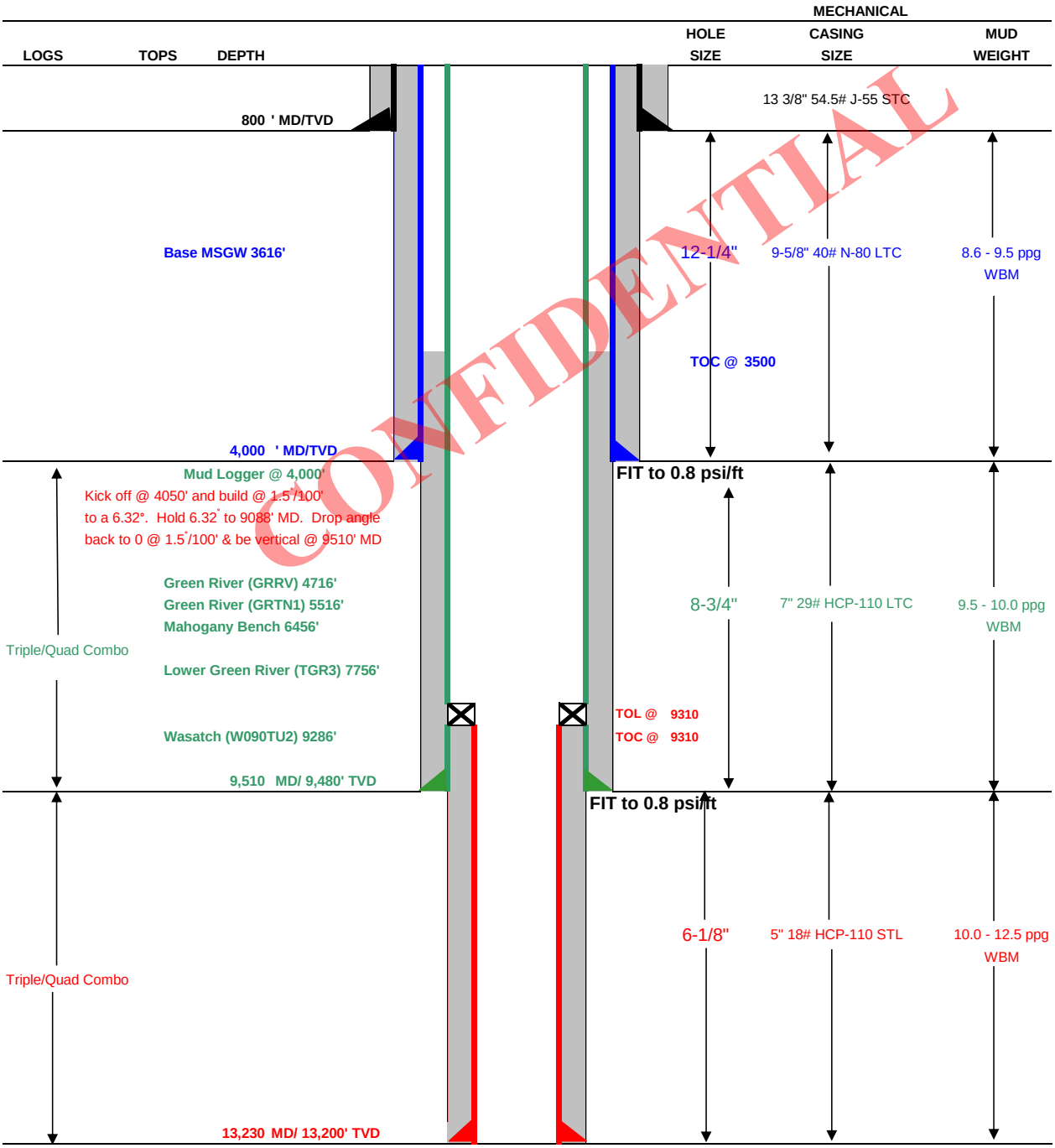
EP ENERGY

Drilling Schematic

Company Name:	EP ENERGY	**Date:**	September 17, 2014
Well Name:	DWR 4-32B5	**TD:**	13,230
Field, County, State:	Altamont, Duchesne, Utah	**AFE #:**	TBD
Surface Location:	Sec 32 T2S R5W 1458' FSL 776' FEL	**BHL:**	Sec 32 T2S R5W 1050' FSL 1150' FEL
Objective Zone(s):	Green River, Wasatch	**Elevation:**	6113.9
Rig:	Precision 404	**Spud (est.):**	TBD

BOPE Info: 4.5 x 13 3/8 Diverter System w/ rotating head from 800' to 4,000' 11 10M BOPE w/ rotating head & 5M annular from 4,000' to 9,510' 11 10M BOPE w/ rotating head, spacer spool, 5M annular, flex rams, blind rams, single w/ flex rams from 9,510' to TD



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DRILLING PROGRAM

CASING PROGRAM	SIZE	INTERVAL		WT.	GR.	CPLG.	BURST	COLLAPSE	TENSION
CONDUCTOR	13 3/8"	0	800	54.5	J-55	STC	2,740	1,130	514
SURFACE	9-5/8"	0	4000	40.00	N-80	LTC	5,750	3,090	737
INTERMEDIATE	7"	0	9510	29.00	HCP-110	LTC	11,220	9,750	797
PRODUCTION LINER	5'	9310	13230	18.00	HCP-110	STL	13,940	15,450	495

CEMENT PROGRAM		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
CONDUCTOR		800	Class G + 3% CACL2	1000	100%	15.8 ppg	1.15
SURFACE	Lead	2,000	EXTENDACEM SYSTEM: Type V Cement + 2% Cal-Seal 60 + 0.35% Versaset + 0.3% D-Air 5000 + 6% Salt + 2% Econolite + 0.125 Poly-E-Flake	425	75%	12.0 ppg	2.23
	Tail	2,000	HALCEM SYSTEM: Class G Cement + 3 lbm/sk Silicalite Compacted + 1% Salt + 0.3% Econolite + 0.25 lbm/sk Poly-E-Flake + 0.25 lbm/sk Kwik Seal + 0.3% D-AIR 5000	735	50%	14.3 ppg	1.30
INTERMEDIATE	Lead	3,710	EXPANDACEM SYSTEM: Class G Cement 6% Bentonite + 0.2% Econolite + 0.3% Versaset + 0.7% HR-5 + 0.3% Super CBL + 0.2% Halad(R)-322 + 0.125 lbm/sk Poly-E-Flake	319	10%	12.5 ppg	1.91
	Tail	2,300	EXPANDACEM SYSTEM: Class G Cement + 4% Bentonite + 0.25 Poly-E-Flake + 0.1% Halad-413 + 5 lb/sk Silicalite Compacted + 0.15% SA-1015 + 0.3% HR-5	238	10%	13.0 ppg	1.64
PRODUCTION LINER		3,920	EXTENDACEM SYSTEM: Class G Cement + 0.2% Super CBL + 0.55% SCR-100 + 0.3% Halad-413 + 0.125 lbm/sk Poly-E-Flake + 3 lbm/sk Silicalite Compacted + 20% SS-200 + 0.10% SA-1015	232	25%	14.20	1.47

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FLOAT EQUIPMENT & CENTRALIZERS	
CONDUCTOR	PDC drillable guide shoe, 1 joint, PDC drillable float collar. Thread lock all float equipment. Install bow spring centralizers on the bottom 3 joints of casing.
SURFACE	PDC drillable guide shoe, 1 joint casing, PDC drillable float collar. Thread lock all float equipment. Install bow spring centralizers on the bottom 3 joints of casing & every 3rd joint thereafter.
INTERMEDIATE	PDC drillable 10M,P-110 float shoe, 1 joint, PDC drillable 10M, P-110 float collar. Thread lock all float equipment. Maker joint at 7,700'.
LINER	Float shoe, 1 joint, float collar,1 joint, landing collar. Thread lock all FE. Maker joints every 1000'.

PROJECT ENGINEER(S): Brad MacAfee 713-997-6383

MANAGER: Bob Dodd

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EP ENERGY E&P COMPANY, L.P.

DWR 4-32B5

SECTION 32, T2S, R5W, U.S.B.&M.

PROCEED NORTH ON STATE ROAD 87 FROM THE INTERSECTION OF STATE ROAD 87 WITH US HIGHWAY 40 IN DUCHESNE, UTAH APPROXIMATELY 5.88 MILES TO AN INTERSECTION;

TURN LEFT AND TRAVEL NORTHWESTERLYON STATE ROAD 35 APROXIMATELY 3.71 MILES TO AN INTERSECTION;

TURN LEFT AND TRAVEL SOUTHEASTERLY THEN NORTHWESTERLY THEN SOUTHERLY ON A GRAVEL ROAD 2.66 MILES TO AN INTERSECTION;

TURN LEFT AND TRAVEL SOUTHERLY ON A 2 TRACK ROAD 0.32 MILES TO THE BEGINNING OF THE ACCESS ROAD;

TURN RIGHT AND FOLLOW ROAD FLAGS SOUTHWESTERLY 0.05 MILES TO THE PROPOSED LOCATION;

TOTAL DISTANCE FROM DUCHESNE, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 12.62 MILES.

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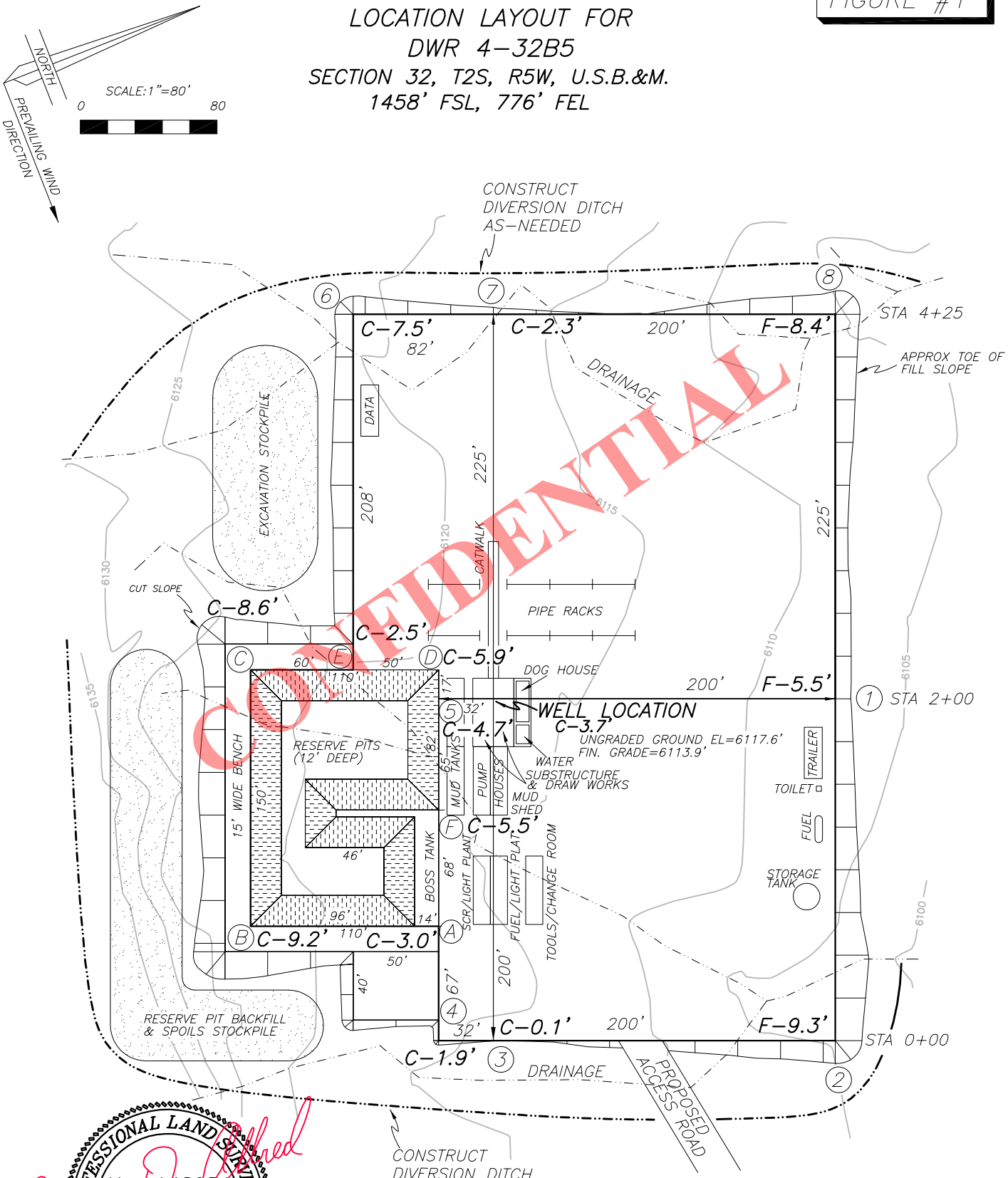
EP ENERGY E & P COMPANY, L.P.

FIGURE #1

LOCATION LAYOUT FOR
DWR 4-32B5
SECTION 32, T2S, R5W, U.S.B.&M.
1458' FSL, 776' FEL



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PROFESSIONAL LAND SURVEYOR
No. 148951
JERRY D. ALLRED
10 JAN '13
STATE OF UTAH

Jerry D. Allred

JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS
1235 NORTH 700 EAST--P.O. BOX 975
DUCHESNE, UTAH 84021
(435) 738-5352

10 JAN 2013 01-128-359

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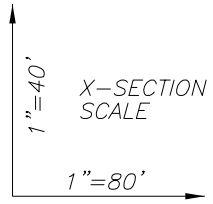
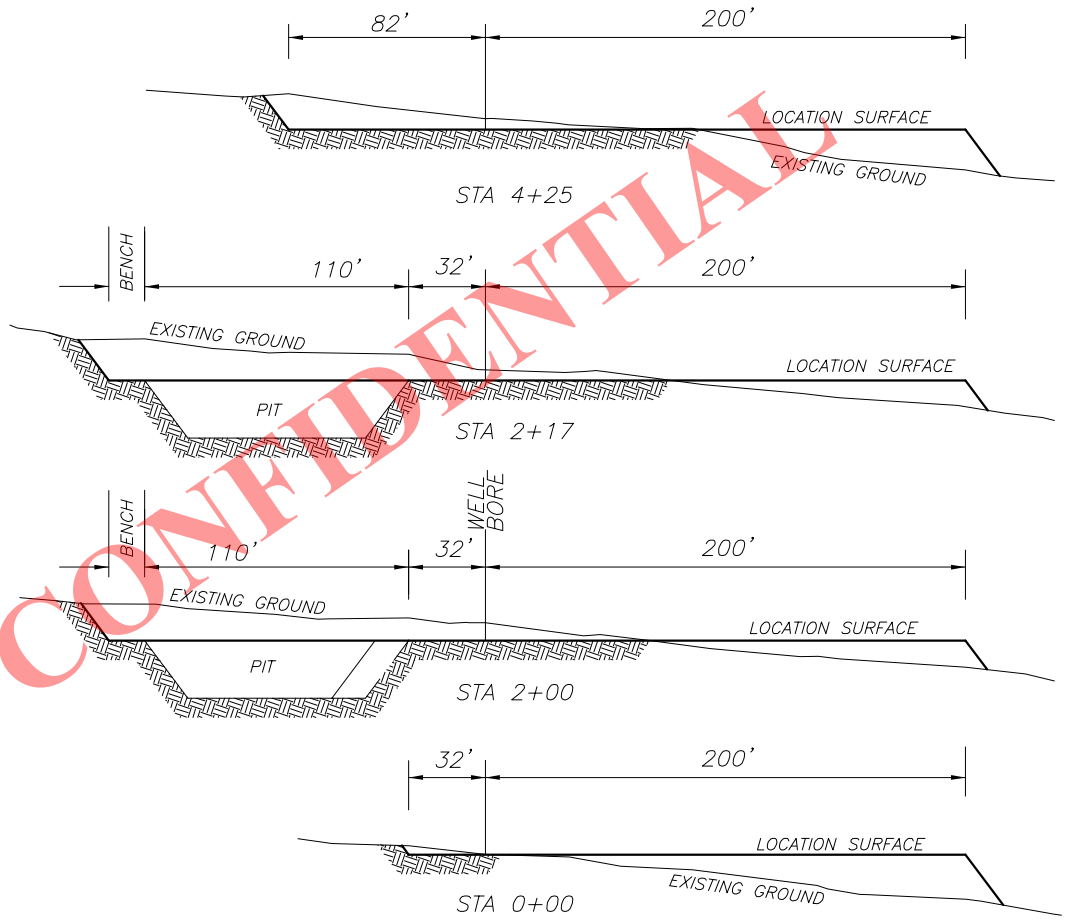
EP ENERGY E & P COMPANY, L.P.

FIGURE #2

LOCATION LAYOUT FOR
DWR 4-32B5
SECTION 32, T2S, R5W, U.S.B.&M.
1458' FSL, 776' FEL



NOTE: ALL CUT/FILL SLOPES ARE 1½:1 UNLESS OTHERWISE NOTED



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APPROXIMATE YARDAGES

TOTAL CUT (INCLUDING PIT) = 17,900 CU. YDS.

PIT CUT	=	4572 CU. YDS.
TOPSOIL STRIPPING: (6")	=	2750 CU. YDS.
REMAINING LOCATION CUT	=	10,578 CU. YDS

TOTAL FILL = 10,578 CU. YDS.

LOCATION SURFACE GRAVEL=1374 CU. YDS. (4" DEEP)

ACCESS ROAD GRAVEL=575 CU. YDS.

PROFESSIONAL LAND SURVEYOR
No. 148951
JERRY D. ALLRED
10 JAN '13
STATE OF UTAH

Jerry D. Allred

10 JAN 2013 01-128-359

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1235 NORTH 700 EAST--P.O. BOX 975
DUCHESNE, UTAH 84021
(435) 738-5352

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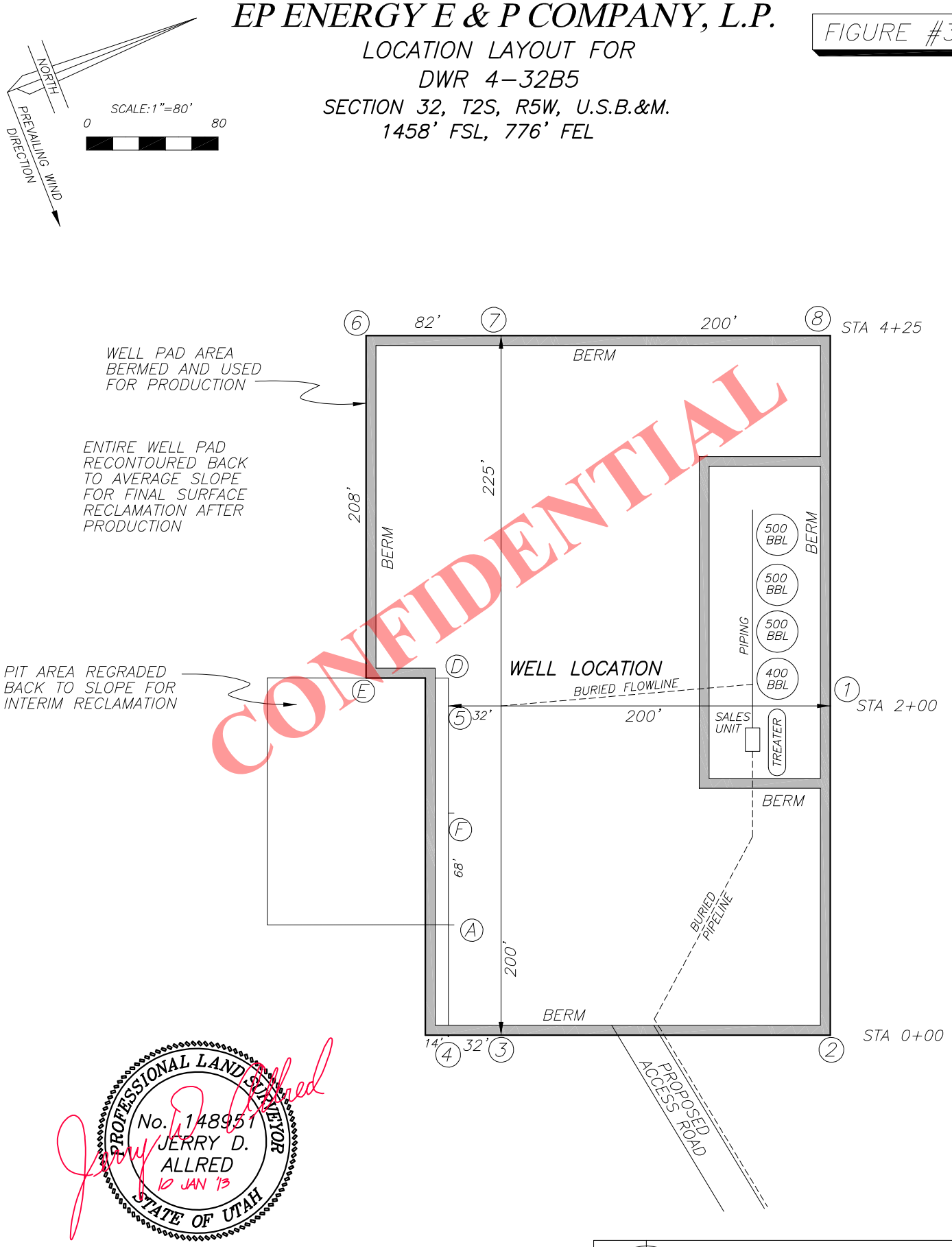
EP ENERGY E & P COMPANY, L.P.

FIGURE #3

LOCATION LAYOUT FOR
DWR 4-32B5
SECTION 32, T2S, R5W, U.S.B.&M.
1458' FSL, 776' FEL



JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS
1235 NORTH 700 EAST--P.O. BOX 975
DUCHESNE, UTAH 84021
(435) 738-5352

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RECEIVED: September 17, 2014

LOCATION USE AREA, ACCESS ROAD, PIPELINE, AND POWER LINE CORRIDOR RIGHT–OF–WAY SURVEY FOR

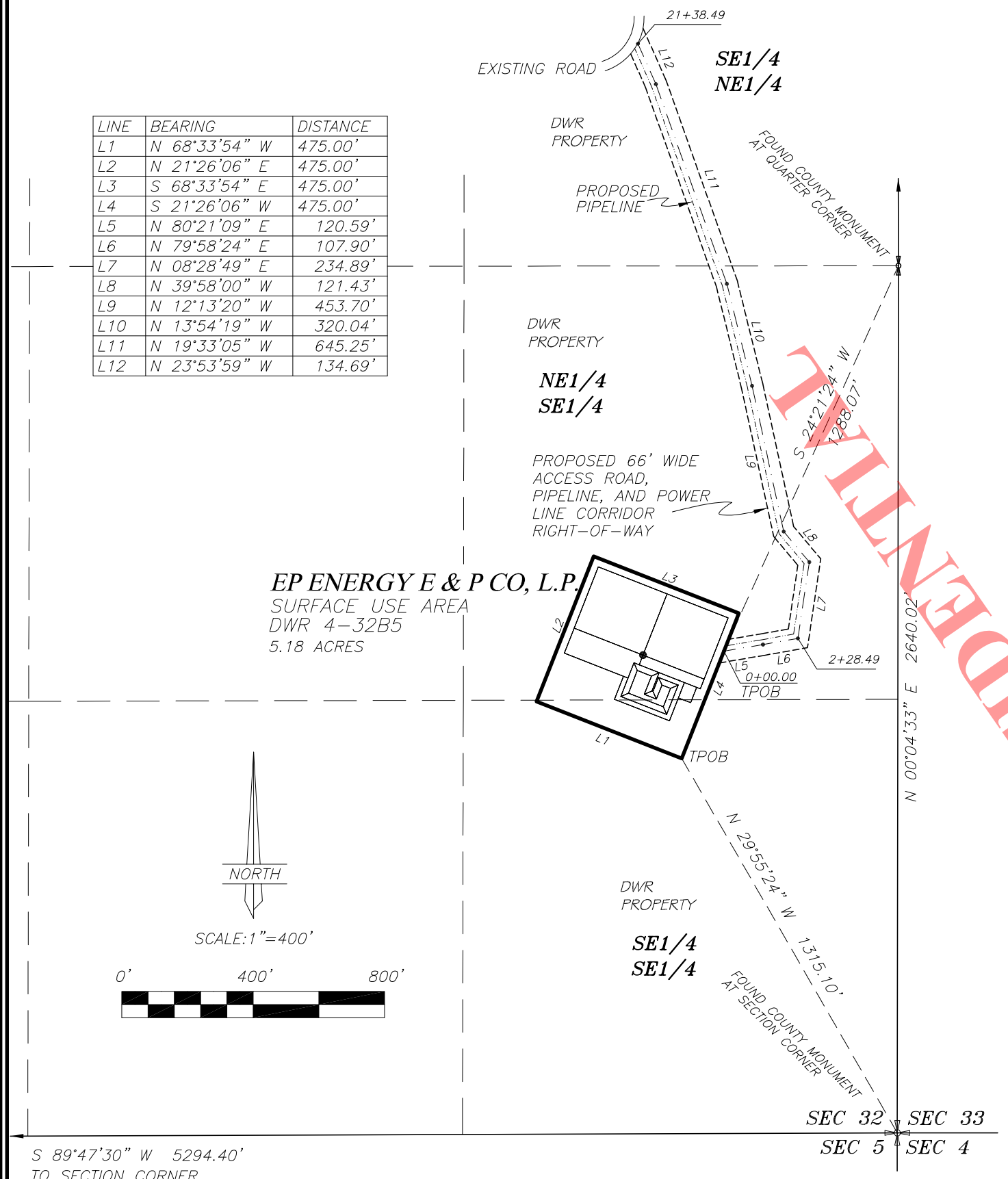
EP ENERGY E&P COMPANY, L.P.

DWR 4–32B5

SECTION 32, TOWNSHIP 2 SOUTH, RANGE 5 WEST, U.S.B.&M.

DUCHESNE COUNTY, UTAH

LINE	BEARING	DISTANCE
L1	N 68°33'54" W	475.00'
L2	N 21°26'06" E	475.00'
L3	S 68°33'54" E	475.00'
L4	S 21°26'06" W	475.00'
L5	N 80°21'09" E	120.59'
L6	N 79°58'24" E	107.90'
L7	N 08°28'49" E	234.89'
L8	N 39°58'00" W	121.43'
L9	N 12°13'20" W	453.70'
L10	N 13°54'19" W	320.04'
L11	N 19°33'05" W	645.25'
L12	N 23°53'59" W	134.69'



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USE AREA BOUNDARY DESCRIPTION

Commencing at the Southeast Corner of Section 32, Township 2 South, Range 5 West of the Uintah Special Base and Meridian;
Thence North 29°55'24" West 1315.10 feet to the TRUE POINT OF BEGINNING;
Thence North 68°33'54" West 475.00 feet;
Thence North 21°26'06" East 475.00 feet;
Thence South 68°33'54" East 475.00 feet;
Thence South 21°26'06" West 475.00 feet to the TRUE POINT OF BEGINNING, containing 5.18 acres.

ACCESS ROAD, PIPELINE, AND POWER LINE CORRIDOR RIGHT–OF–WAY DESCRIPTION

A 66 feet wide access road, pipeline, and power line right–of–way over portions of Section 32, Township 2 South, Range 5 West of the Uintah Special Base and Meridian, the centerline of which is further described as follows;
Commencing at the East Quarter Corner of said Section 32;
Thence South 24°21'24" West 1288.07 feet to the TRUE POINT OF BEGINNING;
Thence North 80°21'09" East 120.59 feet;
Thence North 79°58'24" East 107.90 feet;
Thence North 08°28'49" East 234.89 feet;
Thence North 39°58'00" West 121.43 feet;
Thence North 12°13'20" West 453.70 feet;
Thence North 13°54'19" West 320.04 feet;
Thence North 19°33'05" West 645.25 feet;
Thence North 23°53'59" West 134.69 feet to the East line of an existing road. Said right–of–way being 2138.49 feet in length with the sidelines being shortened or elongated to intersect said use area boundary and existing road lines.

SURVEYOR'S CERTIFICATE

This is to certify that this plat was prepared from the field notes and electronic data collector files of an actual survey made by me, or under my personal supervision, of the use area and access road, pipeline, and power line right–of–way shown hereon, and that the monuments indicated were found or set during said survey, and that this plat accurately represents said survey to the best of my knowledge.

PROFESSIONAL LAND SURVEYOR
No. 148951
JERRY D. ALLRED
10 JAN '13
STATE OF UTAH

Jerry D. Allred, Professional Land Surveyor, Certificate 148951 (Utah)

THIS SURVEY WAS PERFORMED USING GLOBAL POSITIONING SYSTEM PROCEDURES AND EQUIPMENT

THE BASIS OF BEARINGS IS GEODETIC NORTH DERIVED FROM G.P.S. OBSERVATIONS AT A CONTROL POINT LOCATED AT LAT. 40°13'50.43923"N AND LONG. 110°29'48.25715"W USING THE UTAH STATE G.P.S. VIRTUAL REFERENCE STATION CONTROL NETWORK MAINTAINED AND OPERATED BY THE AUTOMATED GEOGRAPHIC REFERENCE CENTER

10 JAN 2013 01–128–359

JERRY D. ALLRED AND ASSOCIATES
SURVEYING CONSULTANTS
1235 NORTH 700 EAST––P.O. BOX 975
DUCHESNE, UTAH 84021
(435) 738–5352

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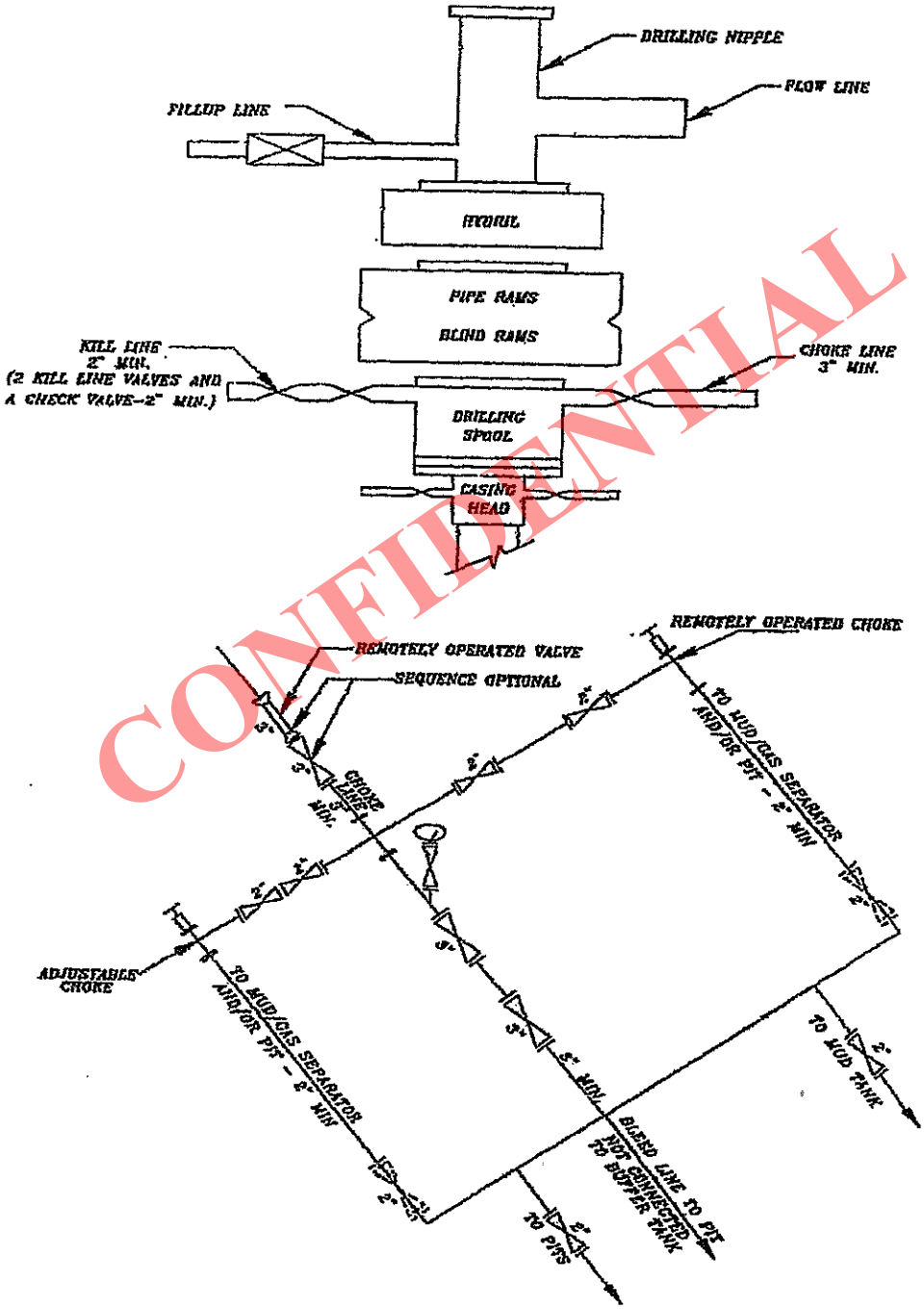
API Well Number: 43013530410000

5M BOP STACK and CHOKE MANIFOLD SYSTEM



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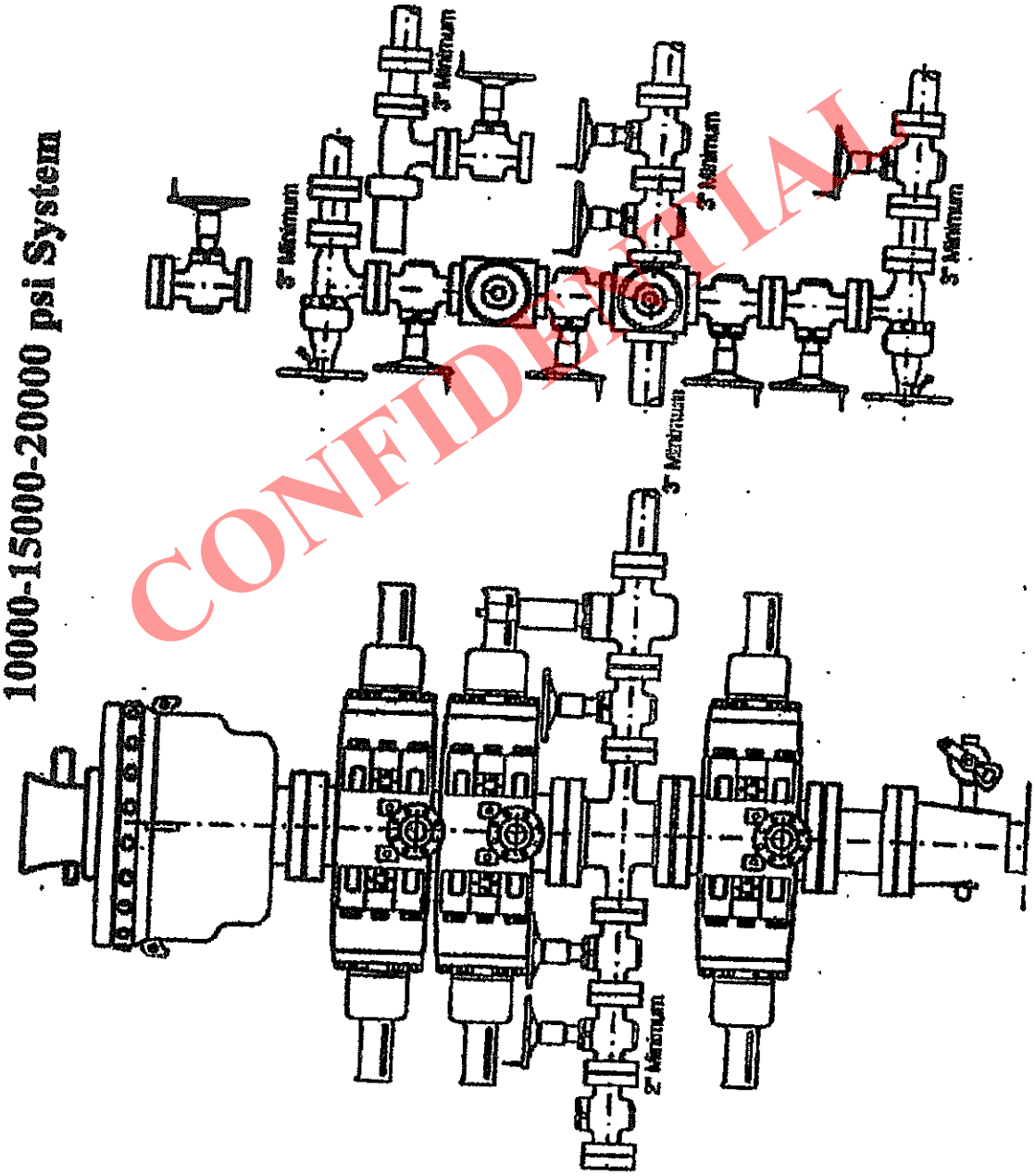
10000-15000-20000 psi System



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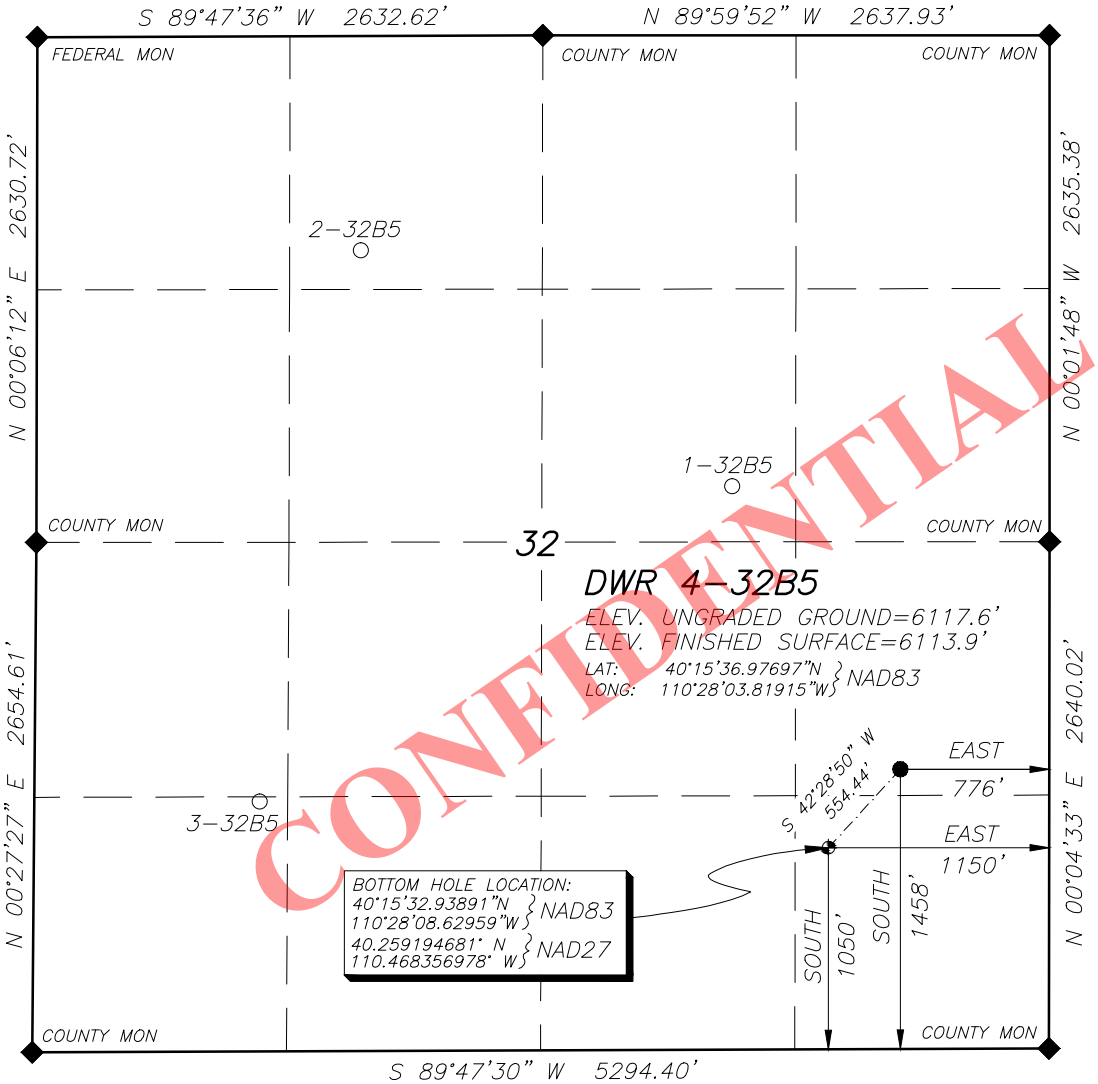
API Well Number: 43013530410000

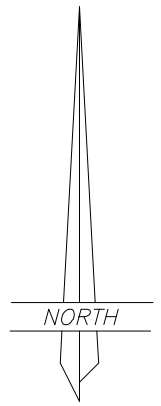
EP ENERGY E&P COMPANY, L.P.

WELL LOCATION

DWR 4–32B5

LOCATED IN THE NE¼ OF THE SE¼ OF SECTION 32, T2S, R5W, U.S.B.&M. DUCHESNE COUNTY, UTAH





SCALE: 1"=1000'

0 1000

NOTE:
NAD27 VALUES FOR WELL POSITION:
LAT:40.26031639° N
LONG:110.46701519° W

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LEGEND AND NOTES

◆ CORNER MONUMENTS FOUND AND USED BY THIS SURVEY

THE GENERAL LAND OFFICE (G.L.O.) PLAT WAS USED FOR REFERENCE AND CALCULATIONS AS WAS THE U.S.G.S. MAP

THIS SURVEY WAS PERFORMED USING GLOBAL POSITIONING SYSTEM PROCEDURES AND EQUIPMENT

THE BASIS OF BEARINGS IS GEODETIC NORTH DERIVED FROM G.P.S. OBSERVATIONS AT A CONTROL POINT LOCATED AT LAT. 40°13'50.43923"N AND LONG. 110°29'48.25715"W USING THE UTAH STATE G.P.S. VIRTUAL REFERENCE STATION CONTROL NETWORK MAINTAINED AND OPERATED BY THE AUTOMATED GEOGRAPHIC REFERENCE CENTER

BASIS OF ELEVATIONS: NAVD 88 DATUM USING THE UTAH REFERENCE NETWORK CONTROL SYSTEM

SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT THIS PLAT WAS PREPARED FROM THE FIELD NOTES AND ELECTRONIC DATA COLLECTOR FILES OF AN ACTUAL SURVEY PERFORMED BY ME, OR UNDER MY PERSONAL SUPERVISION, DURING WHICH THE SHOWN MONUMENTS WERE FOUND OR REESTABLISHED.

PROFESSIONAL LAND SURVEYOR
No. 148951
JERRY D. ALLRED
3 JUN '14
STATE OF UTAH

Jerry D. Allred

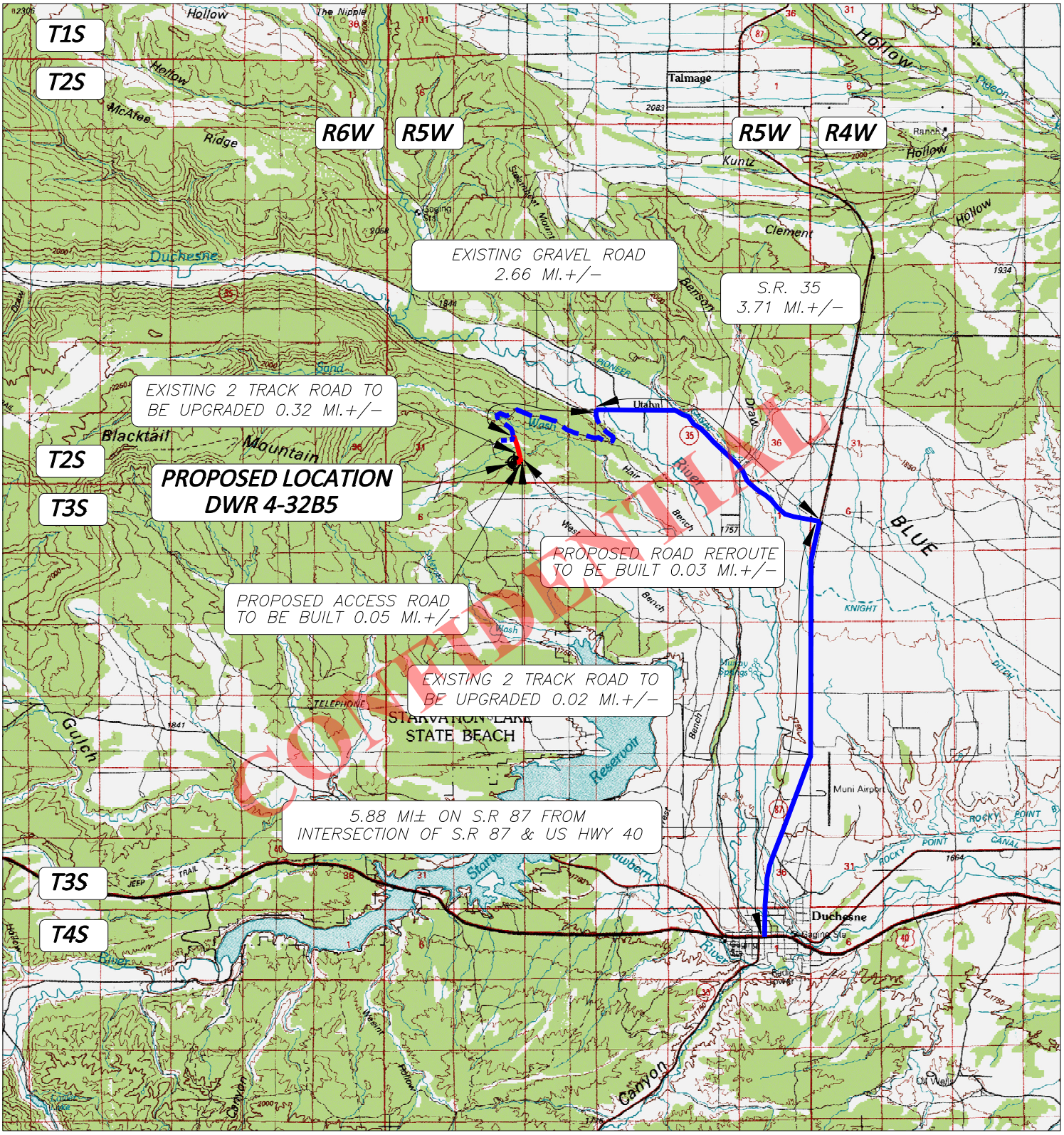
JERRY D. ALLRED, REGISTERED LAND SURVEYOR, CERTIFICATE NO. 148951 (UTAH)

REV 3 JUN 2014
10 JAN 2013 01–128–359

JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS
1235 NORTH 700 EAST––P.O. BOX 975
DUCHESNE, UTAH 84021
(435) 738-5352

RECEIVED: July 14, 2014

API Well Number: 43013530410000



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LEGEND:

PROPOSED WELL LOCATION

01-128-359

JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS

1235 NORTH 700 EAST--P.O. BOX 975
DUCHESNE, UTAH 84021
(435) 738-5352

NORTH

EP ENERGY E & P COMPANY, L.P.

DWR 4-32B5

SECTION 32, T2S, R5W, U.S.B.&M.

1458' FSL, 776' FEL

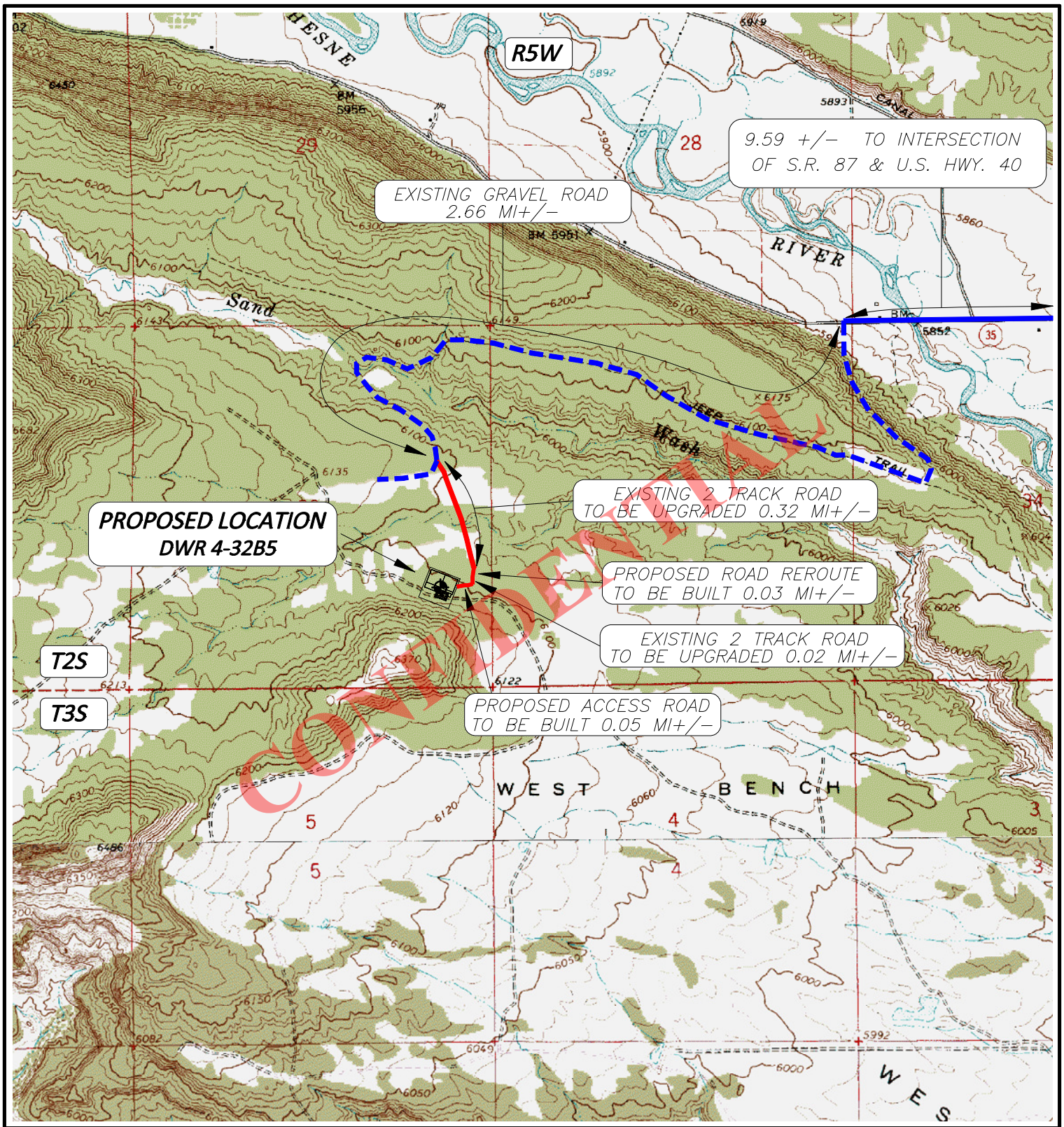
TOPOGRAPHIC MAP "A"

SCALE; 1"=10,000'

10 JAN 2013

RECEIVED: July 14, 2014

API Well Number: 43013530410000



LEGEND:

- PROPOSED WELL LOCATION
- PROPOSED ACCESS ROAD
- EXISTING GRAVEL ROAD
- EXISTING PAVED ROAD

01–128–359

JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS
1235 NORTH 700 EAST––P.O. BOX 975
DUCHESNE, UTAH 84021
(435) 738–5352

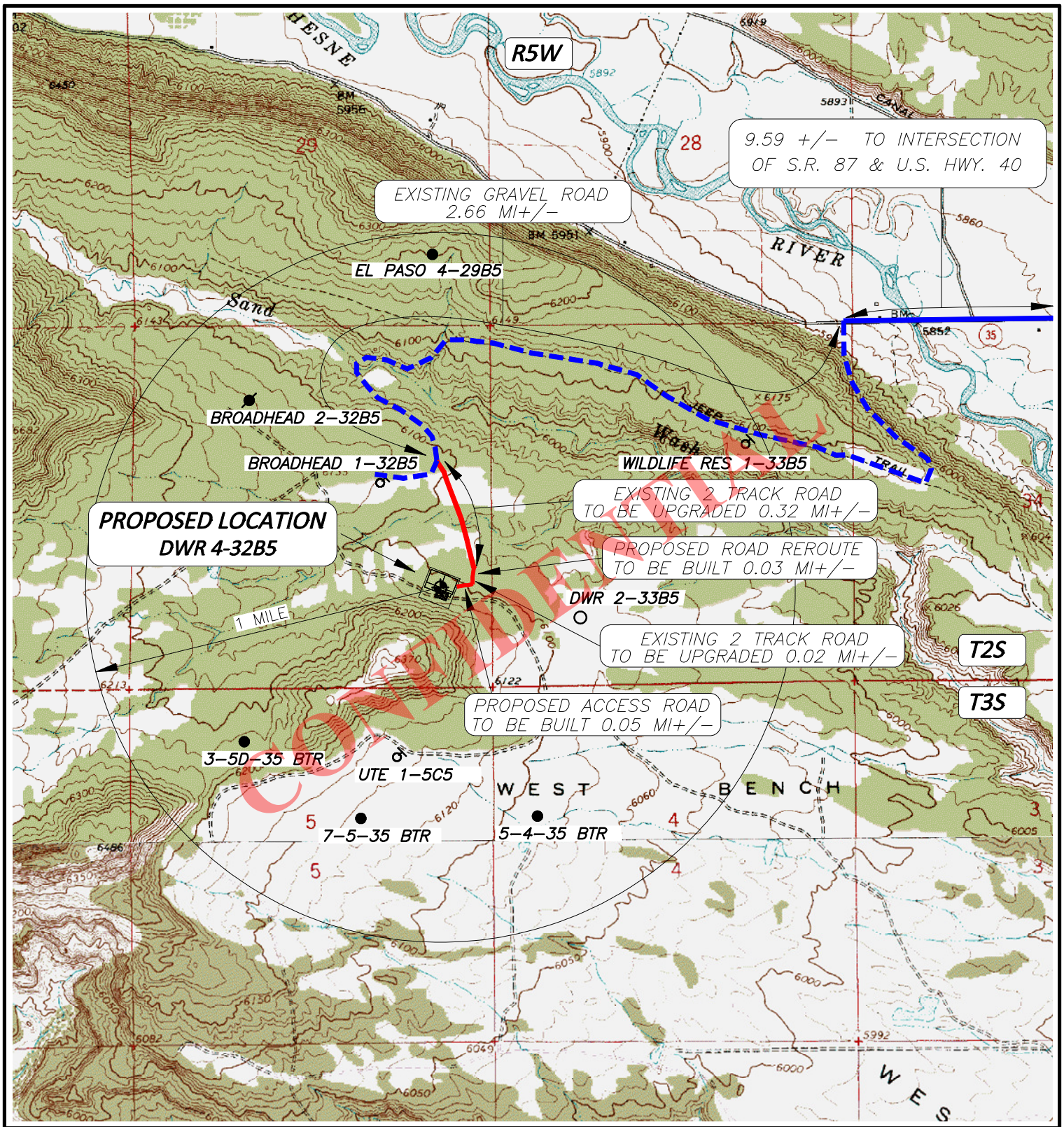
EP ENERGY E & P COMPANY, L.P.

DWR 4–32B5
SECTION 32, T2S, R5W, U.S.B.&M.
1458' FSL, 776' FEL

TOPOGRAPHIC MAP "B"
SCALE; 1"=2000'
10 JAN 2013

RECEIVED: July 14, 2014

API Well Number: 43013530410000



LEGEND:

PROPOSED WELL LOCATION

01–128–359

JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS
1235 NORTH 700 EAST––P.O. BOX 975
DUCHESNE, UTAH 84021
(435) 738–5352

EP ENERGY E & P COMPANY, L.P.

DWR 4–32B5
SECTION 32, T2S, R5W, U.S.B.&M.
1458' FSL, 776' FEL

TOPOGRAPHIC MAP "C"
SCALE; 1"=2000'
10 JAN 2013

RECEIVED: July 14, 2014

5D Plan Report

EP ENERGY

Field Name: *UTAH_ CENTRAL ZONE_NAD83*
Site Name: *DWR 4-32B5*
Well Name: *DWR 4-32B5*
Plan: *PLAN 1*

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Weatherford®

RECEIVED: July 14, 2014

API Well Number: 4301353041 0000

Field: UTAH_ CENTRAL ZONE_NAD83
Map Unit: USFt Vertical Reference Datum (VRD):
Projected Coordinate System: NAD83 / Utah Central (ftUS)

Site: DWR 4-32B5
Unit: USFeet TVD Reference:
Company Name: EP ENERGY
Position: Northing: 7265193.17USft Latitude: 40.260271°
Easting: 1928492.60USft Longitude: -110.467728°
North Reference: True Grid Convergence: 0.66°
Elevation Above VRD: 0.00USft

Slot: DWR 4-32B5
Position:
Offset is from Site centre
+N/-S: -0.00USft Northing: 7265193.17USft Latitude: 40.260271°
+E/-W: -0.00USft Easting: 1928492.60USft Longitude: -110.467728°
Elevation Above VRD: 6113.90USft

Well: DWR 4-32B5
Type: Main-Well
File Number:
Vertical Section: Position offset of origin from Slot centre:
+N/-S: 0.00USft Azimuth: 222.46°
+E/-W: 0.00USft
Magnetic Parameters:
Model: Field Strength: Declination: Dip: Date:
BGGM 51978(nT) 11.23° 65.80° 2014-06-03

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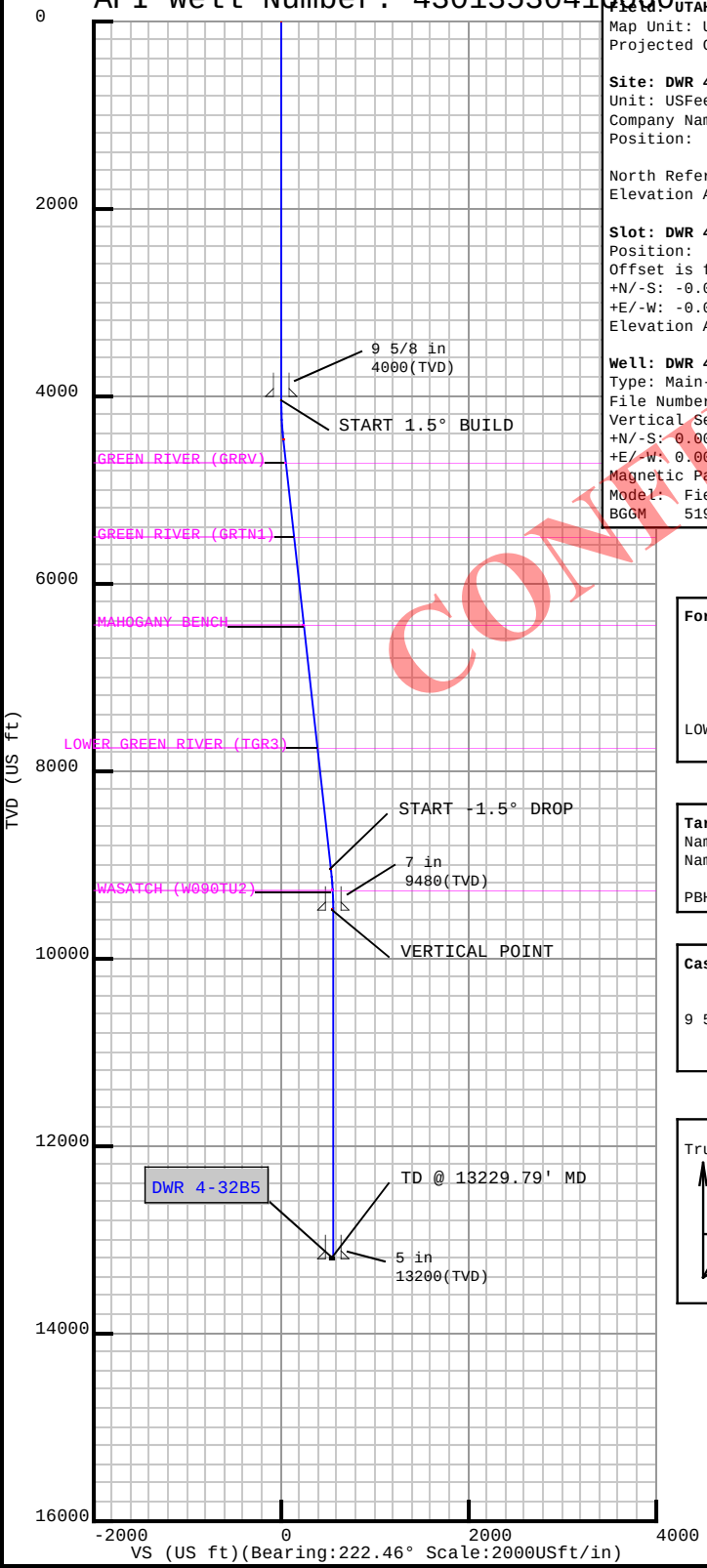
Plan Point Information:
DogLeg Severity Unit: °/100.00ft Position offsets from Slot centre

MD (USft)	Inc (°)	Az (°)	TVD (USft)	+N/-S (USft)	+E/-W (USft)	VSec (USft)	DLS (DLSU)	Toolface (°)	Build (DLSU)	Turn (DLSU)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00
4050.00	0.00	0.00	4050.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00
4471.47	6.32	222.46	4470.61	-17.14	-15.68	23.23	1.50	222.5	1.50	0.00
9088.32	6.32	222.46	9059.39	-392.22	-358.86	531.62	0.00	0.0	0.00	0.00
9509.79	0.00	0.00	9480.00	-409.36	-374.54	554.85	1.50	180.0	-1.50	0.00
13229.79	0.00	0.00	13200.00	-409.36	-374.54	554.85	0.00	0.0	0.00	0.00



Formation Point Information:

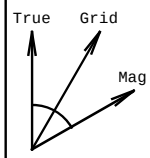
Name	TVD (USft)	Elevation (USft)	MD (USft)
GREEN RIVER (GRRV)	4716.00	1414.90	4718.36
GREEN RIVER (GRTN1)	5516.00	614.90	5523.25
MAHOGANY BENCH	6456.00	-325.10	6469.00
LOWER GREEN RIVER (TGR3)	7756.00	-1625.10	7776.96
WASATCH (W090TU2)	9286.00	-3155.10	9315.70

Target Set Information:
Name: DWR 4-32B5

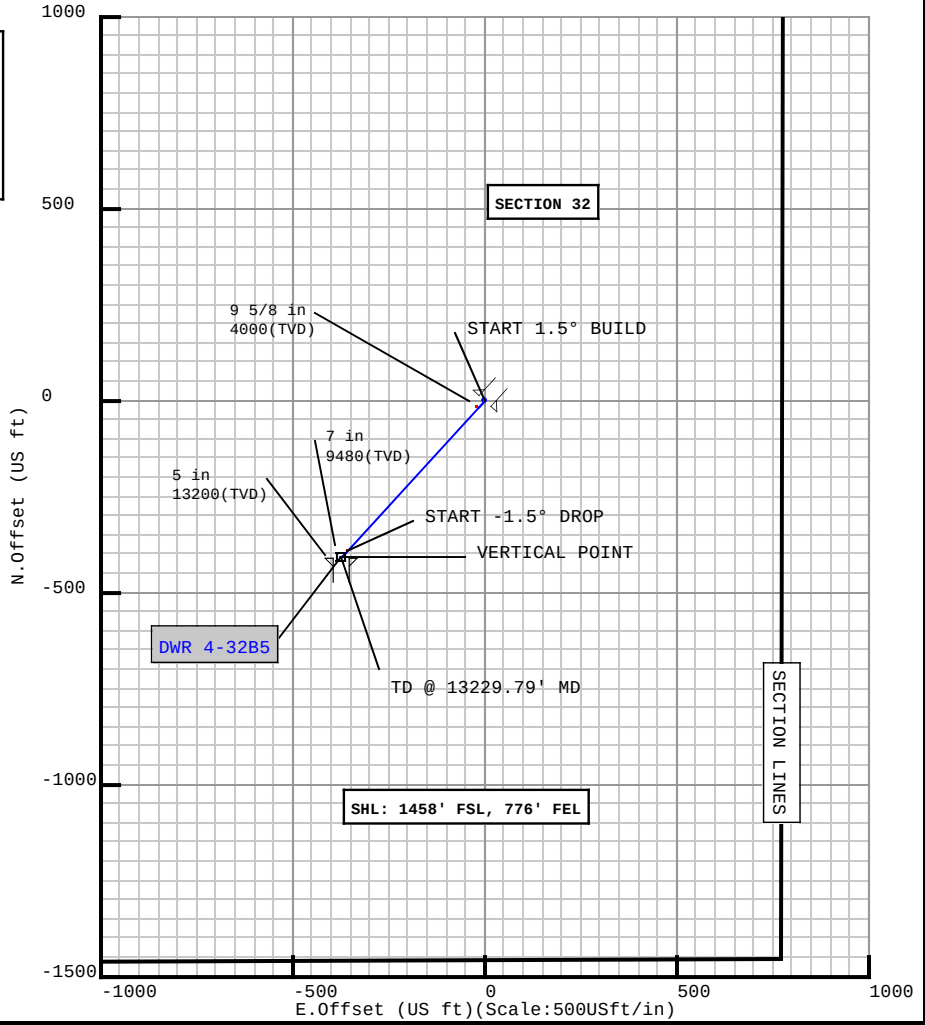
Name	TVD (USft)	Lat (°)	Long (°)
PBHL	13200.00	40.259148	-110.469070

Casing Point Information:

Name	MD (USft)	TVD (USft)
9 5/8 in	4000.00	4000.00
7 in	9509.79	9480.00
5 in	13229.79	13200.00



Grid Convergence: 0.66°
Mag Declination: 11.23°
Bearing:
True = Mag + 11.23°
Grid = True - 0.66°



Plan Surveys for the DWR 4-32B5

Site Name DWR 4-32B5	**Units :** US ft	**North Reference** : True	**Convergence Angle :** 0.66
	Position	**Northing :** 7265193.17 US ft	**Latitude :** 40.260271
		Easting : 1928492.60 US ft	**Longitude :** -110.467728
	Elevation above:6113.90 US ft		
	Comment :		

Slot Name DWR 4-32B5	**Position (Offsets relative to Site Centre)**		
	+N / -S : -0.00 US ft	**Northing :**7265193.17 US ft	**Latitude :** 40.260271
	+E / -W : -0.00 US ft	**Easting :**1928492.60 US ft	**Longitude :** -110.467728
	Slot TVD Reference : Ground Elevation		
	Elevation above : 6113.90 US ft		
	Comment :		

Well Name DWR 4-32B5	**Type :** Main well		**UWI :**	**Plan :** PLAN 1
	Rig Height ***Drill Floor*** **:** 17.00 US ft **Relative to :** 6130.90 US ft		**Comment :**	
	Closure Distance : 554.848 US ft		**Closure Azimuth :** 222.457°	
	Vertical Section (Position of Origin Relative to Slot)			
		+N / -S : 0.00 US ft	**+E / -W :** 0.00 US ft	**Az :**222.46°
	Magnetic Parameters			
	Model : BGGM	**Field Strength :** 51978.3nT	**Dec :** 11.23°	**Dip :** 65.80° **Date :** 03/Jun/2014

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5D Plan Report

Target Set

Name : DWR 4-32B5 **Number of Targets :** 1

Comment :

TargetName: PBHL

Shape: Cuboid

Position (Relative to centre)

+N / -S : -409.36US ft **Northing :** 7264779.51 US ft **Latitude :** 40°15'32.931359"

+E / -W : -374.54 US ft **Easting :** 1928122.81US ft **Longitude :** -110°28'8.650534"

TVD (Drill Floor) : 13200.00 US ft

Orientation **Azimuth :** 0.00° **Inclination :** 0.00°

Dimensions **Length :** 20.00 US ft **Breadth :** 20.00 US ft **Height :** 20.00 US ft

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Casing Points (Relative to centre, TVD relative to Drill Floor)

Name	MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Latitude (°)	Longitude (°)
9 5/8 in	4000.00	0.00	0.00	4000.00	0.00	0.00	40.260271	-110.467728
7 in	9509.79	0.00	0.00	9480.00	-409.36	-374.54	40.259148	-110.469070
5 in	13229.79	0.00	0.00	13200.00	-409.36	-374.54	40.259148	-110.469070

Well path created using minimum curvature

Salient Points (Relative to centre, TVD relative to Drill Floor)

MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Latitude (°)	Longitude (°)	DLS (°/100 US ft)	T.Face (°)	VS (US ft)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	40.260271	-110.467728	0.00	0.00	-0.00	
4000.00	0.00	0.00	4000.00	0.00	0.00	40.260271	-110.467728	0.00	0.00	-0.00	9 5/8 in
4050.00	0.00	0.00	4050.00	0.00	0.00	40.260271	-110.467728	0.00	0.00	-0.00	START 1.5° BUILD
4471.47	6.32	222.46	4470.61	-17.14	-15.68	40.260224	-110.467784	1.50	222.46	23.23	
4718.36	6.32	222.46	4716.00	-37.20	-34.03	40.260169	-110.467849	0.00	0.00	50.42	GREEN RIVER (GRRV) :
5523.25	6.32	222.46	5516.00	-102.59	-93.86	40.259990	-110.468064	0.00	0.00	139.05	GREEN RIVER (GRTN1) :
6469.00	6.32	222.46	6456.00	-179.42	-164.16	40.259779	-110.468316	0.00	0.00	243.19	MAHOGANY BENCH :
7776.96	6.32	222.46	7756.00	-285.68	-261.38	40.259487	-110.468664	0.00	0.00	387.22	LOWER GREEN RIVER (TGR3) :
9088.32	6.32	222.46	9059.39	-392.22	-358.86	40.259195	-110.469013	0.00	0.00	531.62	START -1.5° DROP
9315.70	2.91	222.46	9286.00	-405.72	-371.21	40.259158	-110.469058	1.50	180.00	549.92	WASATCH (W090TU2) :

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5D Plan Report

Salient Points (Relative to centre, TVD relative to Drill Floor)

MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Latitude (°)	Longitude (°)	DLS (°/100 US ft)	T.Face (°)	VS (US ft)	Comment
9509.79	0.00	0.00	9480.00	-409.36	-374.54	40.259148	-110.469070	1.50	180.00	554.85	VERTICAL POINT; 7 in
13229.79	0.00	0.00	13200.00	-409.36	-374.54	40.259148	-110.469070	0.00	0.00	554.85	TD @ 13229.79' MD; 5 in

Interpolated Points (Relative to centre, TVD relative to Drill Floor)

MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	DLS (°/100 US ft)	T.Face (°)	VS (US ft)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.00	
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	-0.00	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	-0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	-0.00	
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	-0.00	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	-0.00	
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	-0.00	
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	-0.00	
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	-0.00	
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	-0.00	
1000.00	0.00	0.00	1000.00	0.00	0.00	0.00	0.00	-0.00	
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	-0.00	
1200.00	0.00	0.00	1200.00	0.00	0.00	0.00	0.00	-0.00	
1300.00	0.00	0.00	1300.00	0.00	0.00	0.00	0.00	-0.00	
1400.00	0.00	0.00	1400.00	0.00	0.00	0.00	0.00	-0.00	
1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.00	-0.00	
1600.00	0.00	0.00	1600.00	0.00	0.00	0.00	0.00	-0.00	
1700.00	0.00	0.00	1700.00	0.00	0.00	0.00	0.00	-0.00	
1800.00	0.00	0.00	1800.00	0.00	0.00	0.00	0.00	-0.00	
1900.00	0.00	0.00	1900.00	0.00	0.00	0.00	0.00	-0.00	
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	-0.00	
2100.00	0.00	0.00	2100.00	0.00	0.00	0.00	0.00	-0.00	
2200.00	0.00	0.00	2200.00	0.00	0.00	0.00	0.00	-0.00	
2300.00	0.00	0.00	2300.00	0.00	0.00	0.00	0.00	-0.00	
2400.00	0.00	0.00	2400.00	0.00	0.00	0.00	0.00	-0.00	
2500.00	0.00	0.00	2500.00	0.00	0.00	0.00	0.00	-0.00	
2600.00	0.00	0.00	2600.00	0.00	0.00	0.00	0.00	-0.00	
2700.00	0.00	0.00	2700.00	0.00	0.00	0.00	0.00	-0.00	
2800.00	0.00	0.00	2800.00	0.00	0.00	0.00	0.00	-0.00	
2900.00	0.00	0.00	2900.00	0.00	0.00	0.00	0.00	-0.00	
3000.00	0.00	0.00	3000.00	0.00	0.00	0.00	0.00	-0.00	
3100.00	0.00	0.00	3100.00	0.00	0.00	0.00	0.00	-0.00	
3200.00	0.00	0.00	3200.00	0.00	0.00	0.00	0.00	-0.00	
3300.00	0.00	0.00	3300.00	0.00	0.00	0.00	0.00	-0.00	

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5D Plan Report

Interpolated Points (Relative to centre, TVD relative to Drill Floor)									
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	DLS (°/100 US ft)	T.Face (°)	VS (US ft)	Comment
3400.00	0.00	0.00	3400.00	0.00	0.00	0.00	0.00	-0.00	
3500.00	0.00	0.00	3500.00	0.00	0.00	0.00	0.00	-0.00	
3600.00	0.00	0.00	3600.00	0.00	0.00	0.00	0.00	-0.00	
3700.00	0.00	0.00	3700.00	0.00	0.00	0.00	0.00	-0.00	
3800.00	0.00	0.00	3800.00	0.00	0.00	0.00	0.00	-0.00	
3900.00	0.00	0.00	3900.00	0.00	0.00	0.00	0.00	-0.00	
4000.00	0.00	0.00	4000.00	0.00	0.00	0.00	0.00	-0.00	9 5/8 in
4050.00	0.00	0.00	4050.00	0.00	0.00	0.00	0.00	-0.00	START 1.5° BUILD
4100.00	0.75	222.46	4100.00	-0.24	-0.22	1.50	222.46	0.33	
4200.00	2.25	222.46	4199.96	-2.17	-1.99	1.50	0.00	2.94	
4300.00	3.75	222.46	4299.82	-6.03	-5.52	1.50	0.00	8.18	
4400.00	5.25	222.46	4399.51	-11.82	-10.82	1.50	0.00	16.02	
4471.47	6.32	222.46	4470.61	-17.14	-15.68	1.50	0.00	23.23	
4500.00	6.32	222.46	4498.97	-19.46	-17.80	0.00	0.00	26.37	
4600.00	6.32	222.46	4598.36	-27.58	-25.23	0.00	0.00	37.38	
4700.00	6.32	222.46	4697.76	-35.70	-32.67	0.00	0.00	48.39	
4718.36	6.32	222.46	4716.00	-37.20	-34.03	0.00	0.00	50.42	GREEN RIVER (GRRV) :
4800.00	6.32	222.46	4797.15	-43.83	-40.10	0.00	0.00	59.41	
4900.00	6.32	222.46	4896.54	-51.95	-47.53	0.00	0.00	70.42	
5000.00	6.32	222.46	4995.93	-60.08	-54.97	0.00	0.00	81.43	
5100.00	6.32	222.46	5095.32	-68.20	-62.40	0.00	0.00	92.44	
5200.00	6.32	222.46	5194.71	-76.33	-69.83	0.00	0.00	103.45	
5300.00	6.32	222.46	5294.11	-84.45	-77.27	0.00	0.00	114.46	
5400.00	6.32	222.46	5393.50	-92.57	-84.70	0.00	0.00	125.48	
5500.00	6.32	222.46	5492.89	-100.70	-92.13	0.00	0.00	136.49	
5523.25	6.32	222.46	5516.00	-102.59	-93.86	0.00	0.00	139.05	GREEN RIVER (GRTN1) :
5600.00	6.32	222.46	5592.28	-108.82	-99.57	0.00	0.00	147.50	
5700.00	6.32	222.46	5691.67	-116.95	-107.00	0.00	0.00	158.51	
5800.00	6.32	222.46	5791.07	-125.07	-114.43	0.00	0.00	169.52	
5900.00	6.32	222.46	5890.46	-133.20	-121.87	0.00	0.00	180.53	
6000.00	6.32	222.46	5989.85	-141.32	-129.30	0.00	0.00	191.54	
6100.00	6.32	222.46	6089.24	-149.44	-136.73	0.00	0.00	202.56	
6200.00	6.32	222.46	6188.63	-157.57	-144.17	0.00	0.00	213.57	
6300.00	6.32	222.46	6288.03	-165.69	-151.60	0.00	0.00	224.58	
6400.00	6.32	222.46	6387.42	-173.82	-159.03	0.00	0.00	235.59	
6469.00	6.32	222.46	6456.00	-179.42	-164.16	0.00	0.00	243.19	MAHOGANY BENCH :
6500.00	6.32	222.46	6486.81	-181.94	-166.47	0.00	0.00	246.60	
6600.00	6.32	222.46	6586.20	-190.07	-173.90	0.00	0.00	257.61	
6700.00	6.32	222.46	6685.59	-198.19	-181.33	0.00	0.00	268.63	
6800.00	6.32	222.46	6784.98	-206.31	-188.76	0.00	0.00	279.64	

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Interpolated Points (Relative to centre, TVD relative to Drill Floor)

MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	DLS (°/100 US ft)	T.Face (°)	VS (US ft)	Comment
6900.00	6.32	222.46	6884.38	-214.44	-196.20	0.00	0.00	290.65	
7000.00	6.32	222.46	6983.77	-222.56	-203.63	0.00	0.00	301.66	
7100.00	6.32	222.46	7083.16	-230.69	-211.06	0.00	0.00	312.67	
7200.00	6.32	222.46	7182.55	-238.81	-218.50	0.00	0.00	323.68	
7300.00	6.32	222.46	7281.94	-246.93	-225.93	0.00	0.00	334.70	
7400.00	6.32	222.46	7381.34	-255.06	-233.36	0.00	0.00	345.71	
7500.00	6.32	222.46	7480.73	-263.18	-240.80	0.00	0.00	356.72	
7600.00	6.32	222.46	7580.12	-271.31	-248.23	0.00	0.00	367.73	
7700.00	6.32	222.46	7679.51	-279.43	-255.66	0.00	0.00	378.74	
7776.96	6.32	222.46	7756.00	-285.68	-261.38	0.00	0.00	387.22	LOWER GREEN RIVER (TGR3) :
7800.00	6.32	222.46	7778.90	-287.56	-263.10	0.00	0.00	389.75	
7900.00	6.32	222.46	7878.30	-295.68	-270.53	0.00	0.00	400.77	
8000.00	6.32	222.46	7977.69	-303.80	-277.96	0.00	0.00	411.78	
8100.00	6.32	222.46	8077.08	-311.93	-285.40	0.00	0.00	422.79	
8200.00	6.32	222.46	8176.47	-320.05	-292.83	0.00	0.00	433.80	
8300.00	6.32	222.46	8275.86	-328.18	-300.26	0.00	0.00	444.81	
8400.00	6.32	222.46	8375.25	-336.30	-307.70	0.00	0.00	455.82	
8500.00	6.32	222.46	8474.65	-344.43	-315.13	0.00	0.00	466.84	
8600.00	6.32	222.46	8574.04	-352.55	-322.56	0.00	0.00	477.85	
8700.00	6.32	222.46	8673.43	-360.67	-330.00	0.00	0.00	488.86	
8800.00	6.32	222.46	8772.82	-368.80	-337.43	0.00	0.00	499.87	
8900.00	6.32	222.46	8872.21	-376.92	-344.86	0.00	0.00	510.88	
9000.00	6.32	222.46	8971.61	-385.05	-352.29	0.00	0.00	521.89	
9088.32	6.32	222.46	9059.39	-392.22	-358.86	0.00	0.00	531.62	START -1.5° DROP
9100.00	6.15	222.46	9071.00	-393.16	-359.72	1.50	180.00	532.89	
9200.00	4.65	222.46	9170.55	-400.10	-366.06	1.50	180.00	542.29	
9300.00	3.15	222.46	9270.32	-405.11	-370.65	1.50	180.00	549.09	
9315.70	2.91	222.46	9286.00	-405.72	-371.21	1.50	180.00	549.92	WASATCH (W090TU2) :
9400.00	1.65	222.46	9370.23	-408.20	-373.48	1.50	180.00	553.27	
9500.00	0.15	222.46	9470.21	-409.35	-374.53	1.50	180.00	554.84	
9509.79	0.00	0.00	9480.00	-409.36	-374.54	1.50	180.00	554.85	VERTICAL POINT; 7 in
9600.00	0.00	0.00	9570.21	-409.36	-374.54	0.00	0.00	554.85	
9700.00	0.00	0.00	9670.21	-409.36	-374.54	0.00	0.00	554.85	
9800.00	0.00	0.00	9770.21	-409.36	-374.54	0.00	0.00	554.85	
9900.00	0.00	0.00	9870.21	-409.36	-374.54	0.00	0.00	554.85	
10000.00	0.00	0.00	9970.21	-409.36	-374.54	0.00	0.00	554.85	
10100.00	0.00	0.00	10070.21	-409.36	-374.54	0.00	0.00	554.85	
10200.00	0.00	0.00	10170.21	-409.36	-374.54	0.00	0.00	554.85	
10300.00	0.00	0.00	10270.21	-409.36	-374.54	0.00	0.00	554.85	
10400.00	0.00	0.00	10370.21	-409.36	-374.54	0.00	0.00	554.85	

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Interpolated Points (Relative to centre, TVD relative to Drill Floor)

MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	DLS (°/100 US ft)	T.Face (°)	VS (US ft)	Comment
10500.00	0.00	0.00	10470.21	-409.36	-374.54	0.00	0.00	554.85	
10600.00	0.00	0.00	10570.21	-409.36	-374.54	0.00	0.00	554.85	
10700.00	0.00	0.00	10670.21	-409.36	-374.54	0.00	0.00	554.85	
10800.00	0.00	0.00	10770.21	-409.36	-374.54	0.00	0.00	554.85	
10900.00	0.00	0.00	10870.21	-409.36	-374.54	0.00	0.00	554.85	
11000.00	0.00	0.00	10970.21	-409.36	-374.54	0.00	0.00	554.85	
11100.00	0.00	0.00	11070.21	-409.36	-374.54	0.00	0.00	554.85	
11200.00	0.00	0.00	11170.21	-409.36	-374.54	0.00	0.00	554.85	
11300.00	0.00	0.00	11270.21	-409.36	-374.54	0.00	0.00	554.85	
11400.00	0.00	0.00	11370.21	-409.36	-374.54	0.00	0.00	554.85	
11500.00	0.00	0.00	11470.21	-409.36	-374.54	0.00	0.00	554.85	
11600.00	0.00	0.00	11570.21	-409.36	-374.54	0.00	0.00	554.85	
11700.00	0.00	0.00	11670.21	-409.36	-374.54	0.00	0.00	554.85	
11800.00	0.00	0.00	11770.21	-409.36	-374.54	0.00	0.00	554.85	
11900.00	0.00	0.00	11870.21	-409.36	-374.54	0.00	0.00	554.85	
12000.00	0.00	0.00	11970.21	-409.36	-374.54	0.00	0.00	554.85	
12100.00	0.00	0.00	12070.21	-409.36	-374.54	0.00	0.00	554.85	
12200.00	0.00	0.00	12170.21	-409.36	-374.54	0.00	0.00	554.85	
12300.00	0.00	0.00	12270.21	-409.36	-374.54	0.00	0.00	554.85	
12400.00	0.00	0.00	12370.21	-409.36	-374.54	0.00	0.00	554.85	
12500.00	0.00	0.00	12470.21	-409.36	-374.54	0.00	0.00	554.85	
12600.00	0.00	0.00	12570.21	-409.36	-374.54	0.00	0.00	554.85	
12700.00	0.00	0.00	12670.21	-409.36	-374.54	0.00	0.00	554.85	
12800.00	0.00	0.00	12770.21	-409.36	-374.54	0.00	0.00	554.85	
12900.00	0.00	0.00	12870.21	-409.36	-374.54	0.00	0.00	554.85	
13000.00	0.00	0.00	12970.21	-409.36	-374.54	0.00	0.00	554.85	
13100.00	0.00	0.00	13070.21	-409.36	-374.54	0.00	0.00	554.85	
13200.00	0.00	0.00	13170.21	-409.36	-374.54	0.00	0.00	554.85	
13229.79	0.00	0.00	13200.00	-409.36	-374.54	0.00	0.00	554.85	TD @ 13229.79' MD; 5 in

Formation Points (Relative to centre, TVD relative to Drill Floor)

Name	MD (US ft)	TVD (US ft)
GREEN RIVER (GRRV)	4718.36	4716.00
GREEN RIVER (GRTN1)	5523.25	5516.00
MAHOGANY BENCH	6469.00	6456.00
LOWER GREEN RIVER (TGR3)	7776.96	7756.00
WASATCH (W090TU2)	9315.70	9286.00

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API Well Number: 43013530410000

EASEMENT LEASE AGREEMENT
EP ENERGY E&P COMPANY, L.P.
FOR WELLSITES DWR 4-14C6, DWR 5-14C6, DWR 4-32B5, DWR 2-33B5, DWR 3-33B5
And their Supporting Roads, Pipelines, and Power Lines
RABBIT GULCH Wildlife Management Area

UDWR Easement Lease No. DUCH-1404EA-0472

70 1906

THIS NON-EXCLUSIVE EASEMENT LEASE AGREEMENT ("**Agreement**") is made by and between the **Utah Division of Wildlife Resources** whose address is 1594 West North Temple, Suite 2110, Salt Lake City, Utah 84114-6301 (hereafter "**Surface Owner**") and **EP Energy E&P Company, L.P.** whose address is P. O. Box 4660, Houston, Texas, 77210-4660 (hereafter "**Lessee**"). Surface Owner and Lessee are collectively referred to as "the **Parties**". "Easement Lease" means the lease of an easement or right-of-way, for which the purpose, specific use, rights granted, location, term, fees, and other conditions are set forth herein.

EXHIBITS

A.1 Legal Descriptions of Wellsite, and Access Road, Pipeline and Power line Centerline for Wellsite DWR 4-14C6
A.2 Depiction of DWR 4-14C6 Wellsite, and Access Road, Pipeline and Power line Corridor
B.1 Legal Descriptions of Wellsite, and Access Road, Pipeline and Power line Centerline for Wellsite DWR 5-14C6
B.2 Depiction of DWR 5-14C6 Wellsite, and Access Road, Pipeline and Power line Corridor
C.1 Legal Descriptions of Wellsite, and Access Road, Pipeline and Power line Centerline for Wellsite DWR 4-32B5
C.2 Depiction of DWR 4-32B5 Wellsite, and Access Road, Pipeline and Power line Corridor
D.1 Legal Descriptions of Wellsite, and Access Road, Pipeline and Power line Centerline for Wellsite DWR 2-33B5
D.2 Depiction of DWR 2-33B5 Wellsite, and Access Road, Pipeline and Power line Corridor
E.1 Legal Descriptions of Wellsite, and Access Road, Pipeline and Power line Centerline for Wellsite DWR 3-33B5
E.2 Depiction of DWR 3-33B5 Wellsite, and Access Road, Pipeline and Power line Corridor
F Surface Use Plan for EP Energy's Development Plan, Rabbit Gulch, Duchesne County, Utah
G Reclamation Performance Bond Number RLB0015750

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SECTION 1 GRANT AND LOCATION OF EASEMENT

1.1 **Burdened Property**. Surface Owner owns certain real property known to Surface Owner as the Rabbit Gulch Wildlife Management Area ("**WMA**"). Surface Owner represents that its purposes and uses of owning said WMA is to provide important habitat for wildlife, and to provide wildlife-based recreation for the general public. Surface Owner grants and conveys to Lessee a nonexclusive easement lease ("**Easement**") for the wellsites and infrastructure defined in Section 2.2 of this Agreement, subject to the terms and conditions contained herein. The legal descriptions of those portions of the WMA to which Lessee is hereby granted an Easement are set forth in Exhibits A.1, B.1, C.1, D.1, and E.1, said property hereafter referred to as "**Burdened Property**" and approximately depicted in Exhibits A.2, B.2, C.2, D.2, and E.2. Lessee shall have a 66-foot wide easement, 33 feet on either side of the centerlines described respectively in Exhibits A.1, B.1, C.1, D.1, and E.1. Access roads, pipelines, and power lines shall be co-located within the easement corridors centered on the respective centerlines described in Exhibits A.1, B.1, C.1, D.1 and E.1.

1.2 **Right of Third Parties.** This Easement is subject to all valid interests of third parties. Surface Owner claims title in fee simple, but does not warrant to Lessee the validity of title to the Burdened Property. Lessee shall have no claim for damages or refund against Surface Owner for any claimed failure or deficiency of Surface Owner's title to said lands, or for interference by any third party.

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1.3 **Surveys, Maps, and Plans.** In executing this Agreement, Surface Owner is relying upon the surveys, plats, diagrams, and/or legal descriptions provided by Lessee. Lessee is not relying upon, and Surface Owner is not making any representations about any surveys, plats, diagrams, and/or legal descriptions provided by Surface Owner.

1.4 **Headings**. The Headings in this Agreement are for convenience only and are not intended to, and shall not be construed to, limit, enlarge, or affect the scope or intent of this Easement nor the meaning of any of its provisions.

SECTION 2 PURPOSE AND SCOPE OF EASEMENT

2.1 **Purpose.** This Easement is granted for the purpose of ingress and egress for the construction, installation, operation, maintenance, repair, and replacement as necessary of the infrastructure defined in Subsection 2.2, subject to and in accordance with the restrictions and conditions set forth herein, in support of Lessee's oil and gas operations on the Burdened Property, and for no other purpose. Lessee agrees that it shall not remove from Surface Owner's property ordinary sand and gravel or wood products of any kind without the appropriate permit or other written authorization from Surface Owner. Any unauthorized use of the Burdened Property shall be considered a material breach of this Agreement.

2.2 **Number and Kind of Infrastructure.** Under this Agreement, Lessee shall have the right to construct, maintain and repair five new wellsites, and to drill one well bore into each well pad within each wellsite in the easement areas described in Exhibits A.1, B.1, C.1, D.1, and E.1, and the right to create one access road to each of those wellsites, and to install two (2) buried natural gas or oil pipelines, not to exceed eight (8) inches in diameter, and a single buried water pipeline, not to exceed four (4) inches in diameter, per wellsite, and a single above-ground power line, to be located in the access road, pipeline, and power line easement corridors described in Exhibits A.1, B.1, C.1, D.1, and E.1.

No other difference in the number, kind, or size of permanent structures to be constructed on the Burdened Property shall be allowed from that set forth in this Agreement, except production facilities, storage tanks, and such equipment deemed necessary by Lessee for the production of the wells located on the Burdened Property, said production facilities, storage tanks, and such equipment to be located on the Burdened Property. Paving of any road is expressly prohibited.

2.3 **Raptor-Safe Construction.** All infrastructure placed on the Burdened Property shall be raptor safe to ensure compliance with the Migratory Bird Treaty Act. Important design components for raptor protection shall include providing adequate separation between conductors and/or grounded hardware, or insulating hardware or conductors against simultaneous contact if such separation is not possible. Perch guards may also be used to prevent larger raptors from landing on the power poles. Guidelines specific to power lines are provided the Avian Power Line Interaction Committee's publications, "Mitigating Bird Collisions with Power Lines: The State of the Art in 1994," and, "Suggested Practices for Raptor Protection on Power Lines: The State of the Art in 2006," prepared for the Edison Electric Institute/Raptor Research Foundation, Washington, D.C. In addition, "The Avian Protection Plan Guidelines" (2005) provides a useful toolbox of measures to mitigate the impacts of power lines on raptors. These documents are available at http://www.aplic.org.

2.4 **Aquatic Invasive Species**. Lessee's activities associated with this Agreement shall be conducted in accordance with the Utah Aquatic Invasive Species Interdiction Act, Utah Code Annotated Title 23, Chapter 27, and Utah Administrative Rule R657-60.

(a) Decontamination. Lessee shall conduct activities on the Burdened Property so as to minimize the risk of introduction of aquatic invasive species ("AIS") to the Burdened Property. When activities on the Burdened Property will occur on or near fish hatchery areas, or within or near riparian, wetland, spring, lake, or river areas, Lessee shall ensure full decontamination of all items and materials in contact with water, aquatic animals, or

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the "green strip," defined as the area between upland and the water's edge that may potentially harbor aquatic invasive species. All costs associated with decontamination processes are the sole responsibility of Lessee.

(b) Staging. Lessee shall stage all preparatory activities for field operations a sufficient distance from all water bodies and green strip areas so as to minimize the risk of AIS introductions.

Monitoring and Liability. Lessee shall monitor the Burdened Property for aquatic invasive species, and shall promptly report to Surface Owner all potential instances of AIS introductions. In the event that Lessee introduces AIS to the Burdened Property, Lessee shall be responsible for all costs associated with investigation, eradication, and subsequent reclamation and remediation of the affected waterway and green strip.

2.5 **Exclusivity.** It is expressly understood and agreed that the right herein granted is non-exclusive. Surface Owner hereby reserves the right to issue other non-exclusive easements, leases, or permits on or across the Burdened Property where such uses are appropriate and compatible, or dispose of the property by sale or exchange.

2.6 **Permittees.** Lessee may permit its respective employees, agents, contractors, licensees, herein individually referred to as "Permittee" and collectively referred to as "Permittees", to exercise the rights granted herein. Acts or omissions of the Permittees operating under this Easement shall be deemed an act of Lessee.

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2.7 **Seasonal Restrictions.**

(a) Lessee shall not engage in construction activities on the Burdened Property including and between the dates of November 30 to April 15 ("Seasonal Closure"). Lessee shall have the right to enter the Burdened Property during Seasonal Closure for service, maintenance and repair of its production facilities and the wells to the extent that such service, maintenance and repair could not have reasonably been anticipated or could not reasonably be scheduled for dates outside Seasonal Closure.

(b) Lessee shall have the right to enter the Burdened Property at any time for emergency activities to prevent environmental damage. Lessee shall notify Surface Owner of such emergency activities in accordance with Section 5 of this Agreement.

(c) The Parties agree that, except for emergency activities described in Subsection 2.5(b), should activities for major construction or major maintenance or repair projects during Seasonal Closure be desired by Lessee, the Parties shall consult in good faith to determine how such activities might be accomplished without undue harm to wildlife.

(d) The Parties agree that should extraordinary circumstances arise, including extraordinarily inclement weather, during Seasonal Closure wherein activities permitted under this Agreement would result in significant harm or stress to or for wildlife, the Parties shall consult in good faith to determine how that significant harm or stress might be avoided.

(e) The Parties agree that should information pertaining to wildlife or vegetation become known to either one or both the Parties, and which would be useful in preventing harm to wildlife or vegetation, the Parties shall consult in good faith to determine how activities allowed under this Agreement might be modified, to the extent the Parties might agree at that time.

(f) As described in Section 5 of this Agreement, Lessee shall notify Surface Owner of Lessee's activities in some circumstances.

SECTION 3 TERM AND RENEWAL

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3.1 **Term Defined**. The term of this Easement is thirty (30) years ("Term"), commencing on the date of the last signature affixed to this Agreement, unless earlier terminated, subject to the terms and conditions set forth in this Agreement, and any valid and existing rights.

3.2 **Renewal of the Easement**. Lessee shall have the option to renew this Easement and Lessee may exercise this option by providing written notice of its election to renew at any time within six (6) months but not later than (30) days prior to the Termination Date of the Initial Term of this Easement. Lessee shall not be entitled to renew if it is in default under the terms of this Easement or other agreement with Surface Owner at the time the option to renew is exercised. The terms and conditions of any renewal Term shall be re-negotiated under the conditions, rules and laws in effect at the time of renewal. The Parties shall have sixty (60) days to come to agreement on the conditions and value of the easement after Surface Owner's receipt of Lessee's notice of intent to renew. After the aforementioned six-month period, Lessee's option to renew shall be null and void and the Easement shall terminate at the conclusion of this Agreement's Term.

SECTION 4 RENT/ PAYMENTS

All payments are final. There shall be no pro-rata reimbursement of any payments hereunder should the Easement outlined under this Agreement terminate before its Term has lapsed.

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4.1 **Rental Payment**. Lessee shall pay a single use payment for the initial Term in the amount of **Sixty-Five Thousand, Five-Hundred and Thirty-Nine and Seventy One-Hundredths Dollars ($65,539.70)** ($58,056.10 in Right-of-Way fees, plus $1,488.60 in Administrative Cost Recovery, and $5,995.00 for a federal standard appraisal and appraisal review of the easement to be granted on Rabbit Gulch WMA). Payment is due when Lessee returns this Agreement to Surface Owner appropriately signed and notarized. Surface Owner shall be entitled to additional compensation for any additional Use or User outside the scope of this Easement. Use or User shall not be construed to include affiliates or joint venturers of Lessee so long as the Use or User remains within the scope of this Easement. For purposes of this Agreement,

(a) "affiliate" means any entity under common control with Lessee, or under control of Lessee. Control for purposes of this Agreement means 80% or more of the voting interests of the entity being held by the controlling entity.

(b) "joint venturer" means a party to an operating agreement, including pooled parties pursuant to state regulations, with respect to a Wellsite located on the Burdened Property.

4.2 **Administrative Costs**. Surface Owner shall be entitled to recoup from Lessee all costs accrued by Surface Owner in the issuance and administration of this Agreement, as well as all costs accrued in the administration of any other contract entered into by the Parties affecting property interests owned or managed by Surface Owner. Administrative costs specific to this Agreement accrued beyond that amount specified in Section 4.1 above and/or administrative costs accrued in the administration of other contracts entered into by the Parties become due to Surface Owner upon Surface Owner providing Lessee an invoice of the amount(s) due. Said fees shall be paid in full within 90 days of invoice.

4.3 **Non-Waiver**. Surface Owner's acceptance of a payment shall not be construed to be a waiver of any preceding or existing breach other than the failure to pay the particular payment that was accepted.

SECTION 5 NOTIFICATION OF ACTIVITIES

5.1 All notifications shall reference the Easement number and the location of Lessee's activity. Notification of activities covered under this Section shall be in writing, which may include email, and be deemed sufficient if made solely to Surface Owner's Northeastern Region Habitat Manager or Petroleum Biologist. The respective time

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periods required between notification and commencement of activities covered under this Section may be waived in writing, which may include email, by Surface Owner's Northeastern Region Supervisor, Habitat Manager or Petroleum Biologist.

5.2 Lessee shall notify Surface Owner:

(a) at least Twenty-Four (24) hours prior to any major repair contemplated in Subsection 2.5(a) of Lessee's facilities during Seasonal Closure, if such repair requires the use of heavy equipment such as backhoes or other mechanized earth-moving equipment, heavy boom trucks, or cranes.

(b) within five (5) business days after the start of emergency activities during Seasonal Closure, said activities contemplated in Subsection 2.5(b).

5.3 Regardless of Seasonal Closure restrictions, Lessee shall notify Surface Owner at least three (3) days prior to excavation of any previously reclaimed site, except in cases where such excavation takes place as a result of emergency activities contemplated in Subsection 2.5(b), in which case notification shall take place within five (5) days after the start of emergency activities.

5.4 Should future conditions be such that Surface Owner determines there is little wildlife-monitoring value facilitated by Lessee's prior notification, the Parties may amend this Agreement and terminate the prior notification requirements of this Section, to the extent the Parties may mutually agree in writing at the time.

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SECTION 6 CONSTRUCTION, MAINTENANCE AND REPAIR OF EASEMENT AND IMPROVEMENTS AND TRADE FIXTURES

6.1 **Lessee's Activities.** Lessee shall conduct its construction, maintenance and repair operations in accordance with the Surface Use Plan attached as Exhibit F; however, should any provisions of the Surface Use Plan conflict with any provision set forth in the body of this Agreement, the provision in the body of this Agreement shall govern. Lessee shall promptly repair, at its sole cost, all damages to the Burdened Property, and to any improvements, or natural resources such as soil or vegetation resources, thereon which are caused by Lessee's activities. Lessee shall take all reasonable precautions to protect the Burdened Property and any improvements thereon. Any damage to natural resources which are excessive or unnecessary shall be paid to Surface Owner at a price or cost determined by bids or estimates of the cost of repair. All work performed by Lessee shall be completed in a careful and workman-like manner to Surface Owner's satisfaction, free of any claims or liens. Upon completion of any work performed by Lessee, Lessee shall remove all debris and restore the Burdened Property, as nearly as practicable, to the condition it was in prior to commencement of the work. Lessee shall notify Surface Owner in writing within five (5) days after completion of work, to allow Surface Owner to inspect the work.

6.2 **Waste.** Lessee shall commit no waste on the Burdened Property and will make reasonable efforts to keep the property clean. Lessee shall not cause any filling activity on the Burdened Property. This prohibition includes any deposit of rock, earth, ballast, refuse, garbage, waste matter (including chemical, biological or toxic wastes), hydrocarbons, any other pollutants, or other matter in or on the Burdened Property, except as provided under this Agreement or approved in writing by Surface Owner. Ordinary waste committed by third parties on the Burdened Property shall be removed by Lessee, at Lessee's cost. If Lessee fails to comply with this Subsection, Surface Owner may take any steps reasonably necessary to remedy such failure, subject to the notice and right to cure provisions of Section 11. Upon demand by Surface Owner, Lessee shall pay all costs of such remedial action, including, but not limited to the costs of removing and disposing of any material deposited improperly on the Burdened Property. This section shall not in any way limit Lessee's liability under Section 9 below.

6.3 **Weed Control.** Lessee shall monitor the Burdened Property for noxious weeds, and shall promptly eradicate, at Lessee's own cost, all noxious weeds on the Burdened

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Property. Lessee shall also control at its own cost any infestation that has spread beyond the boundaries of the Burdened Property if such infestation is reasonably deemed by Surface Owner to have originated on, and spread from, the Burdened Property as evidenced by weed colonization on the Burdened Property and patterns of weed colonization local to the Burdened Property. Such weed control shall comply with the Utah Noxious Weed Act, any Administrative Rules promulgated therefrom, and County noxious weed control programs. Lessee shall consult with Surface Owner regarding Lessee's control of noxious weeds on the Burdened Property. All methods of chemical weed control shall require prior review and approval of Surface Owner prior to Lessee implementing said chemical control. No aerial spraying without prior approval by Surface Owner is permitted. All earth-moving equipment shall be thoroughly cleaned of soil and other materials that may harbor noxious weed seeds prior to being moved onto Surface Owner's property. If Lessee fails to take action to control noxious weeds within five (5) days following notice from Surface Owner, Surface Owner may undertake control measures, and Lessee shall reimburse Surface Owner upon demand for all costs incurred in implementing such measures. Lessee will continue to be responsible for noxious weed control on the Burdened Property after termination of the Easement until Surface Owner is satisfied with the results and has in written notification released Lessee from its weed control obligations, which notification shall not be unreasonably withheld.

6.4 **Installation Specifications**. Where improvements are buried, they shall be buried at a minimum depth of three (3) feet below the surface of the Burdened Property. For installations within roadways, the improvements shall be buried at a minimum depth of three (3) feet below the road surface or three (3) feet below the bottom of the ditch, whichever applies. Surface Owner reserves the right to inspect the open trench during construction to ensure compliance with the installation specifications.

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6.5 **Pre-construction.** One week (five business days) prior to commencement of the activities associated with installation of the facilities within the Easement granted herein, Lessee shall notify Surface Owner's Appropriate Regional Habitat Manager to advise of the activities that will occur and an estimated time frame for said activities as depicted on the relevant Exhibit describing said construction on the Burdened Property. Thirty (30) days prior to any subsequent construction or reconstruction by Lessee on the Burdened Property, Lessee shall submit a written plan of construction to Surface Owner's Appropriate Regional Habitat Manager outlining the construction or activity for Surface Owner's approval. During the course of construction, operations, or maintenance, Lessee shall minimize soil erosion and damage to soil. Lessee will not remove any timber or other valuable materials, including, but not limited to, those materials identified or sold as valuable materials, from the Burdened Property until Lessee has received the appropriate permits or other written approval from Surface Owner to remove such valuable materials and has made provisions to compensate Surface Owner for the value of the valuable materials.

6.6 **Road Maintenance.** Maintenance is defined as work normally necessary to preserve and keep the road in satisfactory and functional repair.

(a) Lessee herein is responsible for maintaining any roads on Surface Owner's property used in conjunction with this Agreement; however, the cost of performance of road maintenance and resurfacing shall be allocated on the basis of respective users of said roads. Where one or more authorized party(ies) uses a road, or portion thereof, those parties shall perform or cause to be performed, or contribute or cause to be contributed, that share of maintenance and resurfacing occasioned by such use as hereinafter provided. During periods when a road is being used solely by one party, such party shall maintain that portion of said road so used to the standards equal to or better than those existing at the time use is commenced; provided Surface Owner reserves the right to make reasonable regulations concerning priority of use and maintenance of said roads by it and others.

(b) During periods when more than one party is using the same road, or any portion thereof, the parties hereto shall meet and establish necessary maintenance provisions. Such provisions shall include, but shall not be limited to:

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(1) The appointment of a maintainer, which may be one of the Parties hereto or any third party, who will perform or cause to be performed at a reasonable and agreed upon rate the maintenance and resurfacing of the road or the portion thereof being used; and

(2) A method of payment by which each party using said road or a portion thereof, shall pay its pro rata share of the cost incurred by said maintainer in maintaining or surfacing said road or portion thereof.

6.7 **Road Repair**. Lessee shall repair or cause to be repaired at its sole cost and expense that damage to roads used under this Easement in excess of that caused by normal and prudent usage of said roads. Should damage be caused by an unauthorized user, the cost of repair shall be treated as ordinary maintenance and handled as set forth above. Lessee may add or replace gravel on road surfaces on the Burdened Property, but shall not pave any portion of the road without Surface Owner's written consent.

6.8 **Road Restoration.** If Lessee fouls the surfacing by dragging earth from sides or other sources across the road and onto the surface portion of the road, Lessee shall resurface that portion so affected at its sole cost and expense. Where the Easement crosses existing roads, Lessee shall restore roads as near as practicable to their original condition, if any damage occurs to those roads during Lessee's use of this Easement.

6.9 **Road Improvements.** Unless the Parties agree in writing to share the cost of improvements, improvements shall be at the sole expense of the improver.

6.10 **Road Relocation.** Surface Owner may request the relocation of a road in order to protect wildlife, soil, or vegetation resources or minimize damage thereto, so long as the new location does not unreasonably interfere with Lessee's rights herein. The costs of such relocation shall be divided as negotiated and agreed by the Parties.

6.11 **Resource Damage**. Lessee shall take all reasonable precautions to protect Surface Owner-owned crops and trees. Lessee shall report to Surface Owner any visible resource damage, illegal dumping, or any other change in condition on the Burdened Property that is observed from Lessee's observations of the Easement.

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SECTION 7 INTERFERENCE

Lessee shall exercise its rights under this Agreement so as not to unreasonably interfere with Surface Owner's use of the Burdened Property or with the public's ability to use Surface Owner's lands for purposes of lawful recreation, except during periods of construction of Lessee's facilities. Any improvements and trade fixtures constructed by Lessee on the Burdened Property shall be placed and constructed so as to allow reasonably unobstructed movement over and across the Burdened Property.

SECTION 8 COMPLIANCE WITH LAWS

Lessee shall comply with all applicable laws, including all Surface Owner's rules and regulations, and state, county and municipal laws, ordinances, or regulations in effect. Lessee shall obtain and be in possession of all permits and licenses required for the authorized use of the Easement and shall provide proof of such permits/licenses upon request by Surface Owner.

SECTION 9 ENVIRONMENTAL LIABILITY/RISK ALLOCATION

9.1 **Definition**. "Hazardous Substance" means any substance which now or in the future becomes regulated or defined under any federal, state, or local statute, ordinance, rule, regulation, or other law relating to human health, environmental protection, contamination or cleanup, including, but not limited to, the Comprehensive

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Environmental Response, Compensation and Liability Act of 1980 ("CERCLA"), 42 U.S.C. 9601, et seq.

9.2 Use of Hazardous Substances. Lessee covenants and agrees that Hazardous Substances will not be used, stored, generated, processed, transported, handled, released, or disposed of in, on, under, or above the Burdened Property, except in accordance with all applicable local, state, and federal laws.

9.3 Current Conditions, Duty of Utmost Care, and Duty to Investigate.

(a) Surface Owner makes no representation about the condition of the Burdened Property. Hazardous Substances may exist in, on, under, or above the Burdened Property.

(b) Lessee shall exercise the utmost care with respect to both Hazardous Substances in, on, under, or above the Burdened Property, and any Hazardous Substances that come to be located in, on, under or above the Burdened Property during the Term of this Agreement, along with the reasonably foreseeable acts or omissions of third parties affecting those Hazardous Substances, and the reasonably foreseeable consequences of those acts or omissions. The obligation to exercise utmost care under this Subsection 9.3 includes, but is not limited to, the following requirements:

(1) Lessee shall not undertake activities that will cause, contribute to, or exacerbate contamination of the Burdened Property;

(2) Lessee shall not undertake activities that damage or interfere with the operation of remedial or restoration activities on the Burdened Property;

(3) Lessee shall not undertake any activities that result in the mechanical or chemical disturbance of Burdened Property habitat mitigation, except as reasonably necessary for Lessee's use and occupancy of the Burdened Property, and in such instances will notify Surface Owner prior to undertaking such activities; and

(4) Lessee shall allow access to the Burdened Property by employees and authorized agents of the Environmental Protection Agency, the State of Utah or other similar environmental agencies.

(c) It shall be Lessee's obligation to gather sufficient information to its satisfaction concerning the Burdened Property and the existence, scope and location of any Hazardous Substances on the Burdened Property, or on adjoining property (to the extent reasonably discoverable or ascertainable), as required for Lessee to effectively meet its obligations to comply with all applicable laws regarding such Hazardous Substances.

9.4 Notification and Reporting.

(a) Lessee shall immediately notify Surface Owner if Lessee becomes aware of any of the following:

(1) A release or threatened release of Hazardous Substances in, on, under or above the Burdened Property, any adjoining property, or any other property subject to use by Lessee in conjunction with its use of the Burdened Property;

(2) Any actual or alleged violation of any federal, state, or local statute, ordinance, rule, regulation, or other law pertaining to Hazardous Substances with respect to the Burdened Property, any adjoining property, or any other property subject to use by Lessee in conjunction with its use of the Burdened Property, in the event Lessee observes or is notified of such violations;

(3) Any lien or action with respect to any of the foregoing; or

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(4) Any notification from the U.S. Environmental Protection Agency (EPA) or the State of Utah that remediation or removal of Hazardous Substances is or may be required at the Burdened Property.

(b) Lessee shall, at Surface Owner's request, provide Surface Owner with copies of all reports, studies, or audits which pertain to the Burdened Property, and which are or were prepared by or for Lessee and submitted to any federal, state, or local authorities as required by any federal, state, or local permit, license, or law. These reports or permits may include, but are not limited to, any National or State Pollution Discharge Elimination System Permit, any Army Corps of Engineers permit, any Hydraulics Project Approval or any Water Quality Certification.

9.5 Indemnification. Lessee shall fully indemnify, defend, and hold Surface Owner, its director, managers, employees and agents harmless from and against any and all claims, demands, damages, damages to natural resources such as soil, water, vegetation, and wildlife, response costs, remedial costs, cleanup costs, losses, liens, liabilities, penalties, fines, lawsuits, other proceedings, costs, and expenses (including attorney's fees and disbursements), that arise out of or are in any way related to:

(a) The use, storage, generation, processing, transportation, handling, or disposal of any Hazardous Substance by Lessee, its contractors, agents, employees, guests, invitees, or affiliates in, on, under, or above the Burdened Property, any adjoining property, or any other property subject to use by Lessee in conjunction with its use of the Burdened Property, during the term of this Easement or during any time when Lessee occupies or occupied the Property.

(b) The release or threatened release of any Hazardous Substance in, on, under, or above the Burdened Property, any adjoining property, or any other property subject to use by Lessee in conjunction with its use of the Burdened Property, which release or threatened release occurs or occurred during the term of this Easement or during any time when Lessee occupies or occupied the Burdened Property or any such other property and as a result of:

(1) Any act or omission of Lessee, its contractors, agents, employees, guests, invitees, or affiliates; or

(2) Any reasonably foreseeable act or omission of a third party unless Lessee exercised the utmost care with respect to the reasonably foreseeable acts or omissions of the third party and the reasonably foreseeable consequences of those acts or omissions.

(c) A breach of the obligations of Subsection 9.3, above, by Lessee, its contractors, agents, employees, guests, invitees, or affiliates.

9.6 Cleanup. If a release of Hazardous Substances occurs in, on, under, or above the Burdened Property or other Surface Owner-owned property arising out of any action, inaction, or event described or referred to in Subsection 9.5 above, Lessee shall, at its sole expense, promptly take all actions necessary or advisable to clean up the Hazardous Substances. Cleanup actions shall include, without limitation, resource restoration, mitigation, removal, containment and remedial actions and shall be performed in accordance with all applicable laws, rules, ordinances, and permits. Lessee's obligation to undertake a cleanup of the Burdened Property under this Subsection 9.6 shall be limited to those instances where the Hazardous Substances exist in amounts that exceed the threshold limits of any applicable federal, state and local regulatory cleanup standards, or where it is determined that there will be continuing damages to natural resources in the absence of a cleanup action. Lessee shall also be solely responsible for all cleanup, administrative, and enforcement costs of governmental agencies, including natural resource damage claims arising out of any action, inaction, or event described or referred to in Subsection 9.5, above. Lessee may take reasonable and appropriate actions without advance approval in emergency situations.

9.7 Sampling by Surface Owner, Reimbursement, and Split Samples.

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(a) Surface Owner may conduct sampling, tests, audits, surveys or investigations ("Tests") of the Burdened Property at any time to determine the existence, scope, or effects of Hazardous Substances on the Burdened Property, any adjoining property, or any other property subject to use by Lessee in conjunction with its use of the Burdened Property. If such Tests indicate the existence, release or threatened release of Hazardous Substances arising out of any action, inaction, or event described or referred to in Subsection 9.5, above, Lessee shall promptly reimburse Surface Owner for all costs associated with such Tests.

(b) Surface Owner's ability to seek reimbursement for any Tests under this Subsection shall be conditioned upon Surface Owner providing Lessee written notice of its intent to conduct any Tests at least thirty (30) calendar days prior to undertaking such Tests, unless such Tests are performed in response to an emergency situation, in which case Surface Owner shall only be required to give such notice as is reasonably practical.

(c) Lessee shall be entitled to split samples of any Test samples obtained by Surface Owner. The additional cost of any split samples shall be borne solely by Lessee. Any additional costs Surface Owner incurs by virtue of Lessee's split sampling shall be reimbursed to Surface Owner within thirty (30) calendar days after a bill for such costs is sent to Lessee.

9.8 Contamination Investigation.

(a) If Surface Owner has reason to believe that a release or threatened release of Hazardous Substances has occurred on the Burdened Property during Lessee's occupancy, Surface Owner may require Lessee to conduct a Closeout Environmental Assessment (Closeout Assessment) by providing Lessee with written notice of this requirement no later than ninety (90) calendar days prior to the Easement termination date, or within ninety (90) days of any valid notice to terminate the easement earlier than originally agreed. The purpose of the Closeout Assessment shall be to determine the existence, scope, or effects of any Hazardous Substances on the Burdened Property and any associated natural resources. If the initial results of the Closeout Assessment disclose the existence of Hazardous Substances that may have migrated to other property, Surface Owner may require additional Closeout Assessment work to determine the existence, scope, and effect of any Hazardous Substances on adjoining property, any other property subject to use by Lessee in conjunction with its use of the Burdened Property, or on any associated natural resources. The Closeout Assessment may include Sediment Sampling as well as any additional testing requirements Surface Owner may require based on changes in scientific, statutory, or regulatory standards for information concerning the activities of Lessee, its contractors, agents, employees, guests, invitees, or affiliates.

(b) Prior to undertaking the Closeout Assessment, Lessee shall submit a proposed plan in writing for Surface Owner's approval. The plan shall be provided to Surface Owner within thirty (30) days of Surface Owner's notice requiring the Closeout Assessment. If Surface Owner fails to respond in writing, either approving or disapproving of the proposed plan, within thirty (30) days of its receipt, the proposed plan shall be deemed approved. Lessee shall be responsible for all costs required to complete planning, sampling, analyzing, and reporting associated with the Closeout Assessment.

9.9 Reservation of Rights. The Parties have agreed to allocate certain environmental liabilities by the terms of Section 9. With respect to those environmental liabilities covered by the indemnification provisions of Subsection 9.5, that subsection shall exclusively govern the allocation of those liabilities. With respect to any environmental liabilities not covered by Subsection 9.5, the Parties expressly reserve and do not waive or relinquish any rights, claims, immunities, causes of action or defenses relating to the presence, release, or threatened release of Hazardous Substances in, on, under or above the Burdened Property, any adjoining property or any other property subject to use by Lessee in conjunction with its use of the Burdened Property that either Party may have against the other under federal, state or local laws, including but not limited to, CERLCA, MTCA, and the common law. No right, claim, immunity, or defense either party may have against third parties is affected by this Easement and the Parties expressly reserve

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all such rights, claims, immunities, and defenses. The allocations of risks, liabilities, and responsibilities set forth above do not release Lessee from or affect Lessee's liability for claims or actions by federal, state, or local regulatory agencies concerning Hazardous Substances.

9.10 **Impacts to Wildlife**. Lessee, its employees, contractors, successors and assigns shall make reasonable and good faith efforts to protect any legally protected wildlife to the best of their knowledge and ability. Lessee shall report to Surface Owner any harm or threats to harm or harass any legally protected wildlife should Lessee become aware of such harm or threats to harm or harass legally protected wildlife in the ordinary course of its operations on the Burdened Property.

SECTION 10 PRESERVATION OF SURVEY CORNERS

Lessee shall exercise reasonable care to ensure that all legal land subdivision survey corners and witness objects are preserved. If any survey corners or witness objects are destroyed or disturbed by Lessee, Lessee shall reestablish them by a registered professional engineer or licensed land surveyor in accordance with US General Land Office standards, at Lessee's own expense. Corners and/or witness objects that must necessarily be disturbed or destroyed in the process of construction of improvements and trade fixtures must be adequately referenced and/or replaced in accordance with all applicable laws and regulations in force at the time. The references must be approved by Surface Owner prior to removal of the survey corners and/or witness objects.

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SECTION 11 TERMINATION OF EASEMENT

11.1 **Termination for Cause**. This Easement shall terminate if Lessee receives notice from Surface Owner that Lessee is in material breach of this Easement and Lessee fails to cure that breach within ninety (90) days of Surface Owner's notice, or such longer period as may be required under the circumstances as approved by Surface Owner. If the breaching party fails to correct such breach or fails to diligently undertake efforts to cure such breach within such period, Surface Owner may terminate this Easement without further notice; provided, however, such termination shall not release the breaching party from liability for damage prior to such termination. In addition to terminating this Easement, Surface Owner shall have any other remedy available to it. Surface Owner's failure to exercise its right to terminate at any time shall not waive Surface Owner's right to terminate for any future breach.

11.2 **Termination for Non-Use**.

(a) Lessee shall submit to Surface Owner a summary report of Lessee's use of the Easement within thirty (30) days of the first anniversary of this Agreement, and an annual report thereafter, along with a fee of One Hundred Dollars ($100) for Surface Owner's administration of this Easement; Surface Owner reserves the right to recoup from Lessee additional reasonable administrative costs if Surface Owner's costs are significantly in excess of One Hundred Dollars ($100) as defined in Section 4.2 herein.

(b) Any portion of the Easement that is determined to be unused or abandoned pursuant to this paragraph shall terminate. Lessee shall upon request of Surface Owner execute a release of interest in the portion abandoned under the provisions of this Section. Under the non-use clause, Lessee shall be responsible for surface reclamation and restoration of the Burdened Property in accordance with Section 12 of this Agreement. Any portion of this Easement that is so described by the following conditions shall be deemed to be unused and abandoned:

(1) Within 365 days of the date of execution of this Agreement, Lessee fails to commence construction and installation of the infrastructure authorized under this Easement, unless otherwise waived by Surface Owner in writing;

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(2) Within two (2) years of the date of execution of this Agreement, Lessee does not obtain production of oil or gas from Lessee's oil and gas interests which relate to the Burdened Property, unless otherwise waived by Surface Owner in writing; or

(3) If after establishing production, Lessee suspends production or operations for the drilling or reworking of a well on Lessee's oil and gas interests for a period longer than thirty-six (36) consecutive months, unless otherwise waived by Surface Owner in writing.

11.3 **Voluntary Termination**. This Easement may also terminate as to all or part of the Burdened Property if Lessee has satisfied its outstanding obligations as to the part to be relinquished, provides Surface Owner with sixty (60) days written notice of its intent to terminate, and executes a release of interest to the portion terminated in recordable form. Lessee shall not be entitled to a refund for any relinquishment.

11.4 **Lessee's Obligations**. Lessee obligations not fully performed upon termination shall continue until fully performed.

SECTION 12. RECLAMATION

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12.1 **Timing**. As soon as practicable, following the construction of improvements and trade fixtures, or termination of the Easement, all disturbed land, other than access road driving surfaces for those portions of the Easement not terminated, will be recontoured to the approximate natural contours.

12.2 **Soil**. During construction of wellsites, access roads, and pipelines, any and all topsoil moved or removed will be stockpiled and preserved for present and future project area restoration. Soil from the right of way shall not enter any live stream or open water.

12.3 **Revegetation**. Lessee will re-establish a successful vegetation cover by reseeding with a seed mixture of shrubs, forbs, and grasses, as specified by Surface Owner. Lessee will not be released from this obligation until Surface Owner has inspected the site for two (2) years following construction and reclamation, and has made a determination that the re-vegetation is successful, or such time thereafter until re-vegetation has become successful.

12.4 **Unauthorized Travel**. In consultation with Surface Owner, Lessee will undertake reasonable measures, including the placement of signage, cattle guards, trenches, barrier rock or other obstacles, to restrict unauthorized motorized travel, including that of third parties, on or across the Burdened Property. If such measures are not effective in controlling unauthorized motorized travel, Lessee will consult with Surface Owner on additional measures that may be required to restrict such unauthorized motorized travel on the Burdened Property.

12.5 **Failure to Reclaim**. Surface Owner shall have the right, subject to at least sixty (60) days prior notice and a right to cure, to use funds from Lessee's surety bond to complete reclamation or restoration if Lessee fails to do so.

SECTION 13 OWNERSHIP AND REMOVAL OF IMPROVEMENTS, TRADE FIXTURES, AND EQUIPMENT

13.1 **Improvements.** No Lessee-Owned improvements, other than appurtenances for the rights herein granted, shall be placed on the Burdened Property without Surface Owner's prior written consent.

13.2 **Ownership of Improvements and Trade Fixtures**. Except as provided herein, Lessee shall retain ownership of all improvements and trade fixtures it may place on the Burdened Property (collectively "Lessee Owned Improvements"). Lessee-Owned Improvements shall not include any construction, reconstruction, alteration, or addition to any Unauthorized Improvements as defined in Subsection 13.5 below.

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13.3 **Construction**. Issuance of this Easement shall constitute authorization to undertake the initial construction work specified in that agreement, with notice to the Surface Owner's Appropriate Regional Habitat Manager as specified in Paragraph 6.5. Subsequent alterations, significant repairs, or new construction shall require advance notice to Surface Owner as contemplated in Section 5.

13.4 **Removal**. Lessee-Owned improvements and trade fixtures that have been installed above or below ground shall be removed by Lessee by the Termination Date unless Surface Owner notifies Lessee in writing that such may remain. If Surface Owner elects to have such above ground improvements remain on the Burdened Property after the Termination Date, they shall become the property of Surface Owner without payment by Surface Owner. If Lessee wishes to leave improvements on the Burdened Property upon expiration of the Easement, Lessee shall notify Surface Owner of such intent at least one hundred eighty (180) days before the Termination Date. Surface Owner shall then have ninety (90) days in which to notify Lessee whether Surface Owner elects to have the improvements removed or to have them remain. Failure to notify Lessee shall be deemed an election by Surface Owner for the improvements to be removed from the Burdened Property. If the improvements remain on the Burdened Property after the Termination Date without Surface Owner's actual or deemed consent, Surface Owner may remove them at Lessee's expense. Surface Owner may require Lessee to abandon improvements and/or trade fixtures, rather than remove them. Such abandonment shall be undertaken in accordance with a plan approved by Surface Owner. Abandonment of buried facilities should be performed in accordance with the appropriate regulations and any applicable permits. Should Surface Owner elect to allow any part of Lessee's improvements or trade fixtures to remain affixed to the Burdened Property, Lessee shall make a diligent and good-faith effort to clean the improvements or trade fixtures using the best industry practices and technologies available at the time, as directed by Surface Owner, in order to minimize as much as reasonably practical, environmental contaminants left on or in the Burdened Property.

13.5 **Unauthorized Improvements**. Improvements made on the Burdened Property without Surface Owner's prior written consent are not authorized ("Unauthorized Improvements"). Surface Owner may, at its option, require Lessee to sever, remove, and dispose of them or allow them to remain upon amendment of this Agreement, at which time all provisions of this Agreement shall apply to the Unauthorized Improvements unless otherwise explicitly stated in the amendment. If Lessee fails to remove an Unauthorized Improvement within sixty (60) days of notification by Surface Owner, Surface Owner may remove the Unauthorized Improvements and charge Lessee for the cost of removal and disposal.

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SECTION 14 INDEMNITY

Lessee agrees to protect, indemnify, save and hold harmless Surface Owner, its agents and employees, from and against all claims, demands, damages, and causes of action of every kind or character on account of bodily injuries, death, or damage to property arising because of, for, out of, or in any way connected with the performance of Lessee under this Agreement, except where such injury, death, or damage has resulted from the sole negligence of Surface Owner without negligence or willful act on the part of Lessee, its agents, employees, or subcontractors. Lessee shall defend all suits brought upon such claims and pay all costs and expenses incidental thereto, but Surface Owner shall have the right, at its option, to participate in the defense incidental thereto without relieving Lessee of any obligation hereunder. Lessee's liability to Surface Owner for hazardous substances, and its obligation to indemnify, defend, and hold Surface Owner harmless for hazardous substances, shall be governed exclusively by Section 9.

SECTION 15 FINANCIAL SECURITY

15.1 **Bonding.** At its own expense, Lessee shall procure and maintain a non-cancellable corporate surety bond or provide other financial security satisfactory to Surface Owner

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(the "Bond") in an amount equal **to Four-Hundred Seventy-Four Thousand Two-Hundred Nineteen Dollars ($474,219.00)**, said amount equivalent to One-Hundred and Fifteen percent (115%) of the estimated construction costs of the authorized improvements less materials, said estimated costs represented by Lessee, to be placed on or in the Burdened Property, which shall secure Lessee's full performance of its obligations under this Agreement. The amount of this bond shall not be deemed to limit any liability of Lessee. The Bond shall be in a form and issued by a surety company acceptable to Surface Owner. Lessee shall maintain the Bond so long as it uses the Easement. The Bond shall be in effect even if Lessee has conveyed all or part of the easement interest to a sublessee, assignee, or subsequent operator until Lessee fully satisfies its obligations, or until the Bond is replaced with a new bond posted by the sublessee assignee or subsequent operator. Said Bond at the date of execution of this Agreement is issued by RLI Insurance Company and is identified as Bond Number RLB0015750 (see Exhibit G).

15.2 **Bond Increase.** Lessee agrees that, for the causes stipulated below, at any time during the term of this Easement, Surface Owner may require that the amount of an existing Bond be increased in a sum described below, said Bond to be conditioned upon full compliance with all terms and conditions of this Agreement and the rules relating hereto.
(a) **Inflation.** Surface Owner has the option of requiring the value of the Bond to be adjusted to compensate for inflationary pressures on the dollar. The amount of adjustment shall be determined through the use of the Bureau of Labor Statistics Western Region Urban Consumer Price Index ("Western Region CPI-U"). Said adjustments shall reference the year 2013 Western Region CPI-U, and shall be directly proportional to the percent change in Western Region CPI-U between the year 2013 and the year preceding the date of adjustment.

(b) **Additional Improvements**. Surface Owner has the option of requiring increases in the Bond value for additional improvements authorized under amendments to this Agreement, the increases to be in an amount equivalent to 115% of the estimated costs of construction of said improvements, less materials.

15.3 **Default.** Upon any default by Lessee in its obligations under this Agreement, Surface Owner may collect on the Bond to offset the liability of Lessee to Surface Owner, subject to the notice and right to cure provisions in Sections 11 and 12 herein. Collection on the Bond shall not relieve Lessee of liability, shall not limit any of Surface Owner's other remedies, and shall not rein Surface Owner or cure the default or prevent termination of the Easement because of the default. Should the cost of Lessee's obligations exceed the value of the Bond, Lessee, it's successors and assigns, shall be liable for the costs over and above the bonded amount.

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SECTION 16 TAXES AND ASSESSMENTS

Lessee shall promptly pay all taxes, assessments and other governmental charges of any kind whatsoever levied as a result of this Easement or relating to Lessee's improvements and trade fixtures constructed pursuant to this Easement.

SECTION 17 ADVANCES BY SURFACE OWNER

If Surface Owner advances or pays any costs or expenses for or on behalf of Lessee, including, but not limited to taxes, assessments, insurance premiums, costs of removal and disposal of unauthorized materials, costs of removal and disposal of improvements and trade fixtures, or other amounts not paid when due, Lessee shall reimburse Surface Owner the amount paid and shall pay interest on such amount at the rate of one percent (1%) per month from the date Surface Owner notifies Lessee of the advance or payment.

SECTION 18 NOTICE

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Except as provided in Section 5 of this Agreement, any notices required or permitted under this Agreement shall be in writing and personally delivered or mailed by certified mail, return receipt requested, to the following addresses or to such other places as the parties may direct in writing from time to time:

Surface Owner
Habitat Section
Utah Division of Wildlife Resources
1594 West North Temple, Suite 2110
Salt Lake City, Utah 84114-6301

AND

Habitat Section
Utah Division of Wildlife Resources
318 North Vernal Ave.
Vernal, Utah 84078

Lessee
EP Energy E&P Company, L.P.
P.O. Box 4660
Houston, Texas 77210-4660
Attn: Altamont Business Area Director

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A notice shall be deemed given and delivered upon personal delivery, upon receipt of a confirmation report if delivered by facsimile machine, email or three (3) days after being mailed as set forth above, whichever is applicable.

SECTION 19 RESERVATIONS

Surface Owner, its successors and assigns, reserves all ownership of the Burdened Property and profits thereon, and the right of use for any and all purposes that do not unreasonably interfere with the rights granted herein, including the right to keep the Burdened Property open for public use for recreation; the right to remove profits from the Burdened Property; the right at all times to cross and recross the Burdened Property at any place on grade or otherwise; and the right to use the Easement for access to and from the lands owned by Surface Owner on both sides of the Easement. Surface Owner may grant to third parties any and all rights reserved. Once Lessee clears or removes any vegetation on the Burdened Property as provided in this Agreement, vegetation that is subsequently grown in such cleared areas shall belong to Surface Owner.

SECTION 20 CULTURAL RESOURCES

It is hereby understood and agreed that all treasure-trove, all articles of antiquity, and critical paleontological resources in or upon the Burdened Property or adjacent lands belonging to Surface Owner are and shall remain the property of Surface Owner. Lessee agrees that all costs associated with archeological and paleontological investigations on the Burdened Property that may be required by Surface Owner will be borne by Lessee. Lessee further agrees to cease all activity on the subject lands and immediately notify Surface Owner if any discovery of human remains or a "site" or "specimen," as defined in Section 9-8-302 or 63-73-1 Utah Code Annotated (1953), as amended, is made on the Burdened Property, and continue to cease all construction or maintenance therein until such time as the human remains, "site" or "specimen" in question has been treated to the satisfaction of Surface Owner.

SECTION 21 ASSIGNMENT

API Well Number: 43013530410000

21.1 **Consent of Surface Owner**. Lessee shall not hypothecate, mortgage, assign, transfer or otherwise alienate this Easement, or any interest therein, without the prior written consent of Surface Owner, which shall not be unreasonably withheld. In no case shall such consent operate to relieve Lessee of the responsibilities or liabilities assumed by Lessee hereunder, or be given unless such party is acceptable to Surface Owner and assumes in writing all of the obligations of Lessee under the terms of this Agreement as to the balance of the term thereof, or acquires the rights in trust as security and subject to conditions such as Surface Owner deems necessary. A sublease, conveyance, or assignment must be a sufficient legal instrument, properly executed and acknowledged, and should clearly set forth the easement lease contract number, lands involved, and the name and address of the assignee, and shall include any agreement which transfers control of the Easement to a third party. A copy of the documents subleasing, conveying, or assigning the interest shall be given to Surface Owner prior to Surface Owner's approval or denial of the assignment.

Surface Owner agrees to allow a one-time assignment or transfer of interest in the power line easement and power line infrastructure, without prior written authorization from Surface Owner as would be required by this Section 21. Within thirty days of said assignment or transfer, Lessee shall provide to Surface Owner a copy of the assignment or transfer contract, and shall provide to Surface Owner proof that assignee or transferee has secured a replacement bond to cover full reclamation of the portion of the Burdened Property interest assigned or transferred.

21.2 **Assignee**. Any assignment shall be in keeping with the purposes of this Easement and may only be made to a party qualified to do business in the State of Utah, and which has authority to operate the said facilities, and which is not in default under the laws of the State of Utah relative to qualification to do business within the State, and is not in default on any previous obligation to Surface Owner.

21.3 **Costs of Assignment**. A sublease, conveyance, or assignment may not be approved without reimbursement of Surface Owner's administrative costs associated with said sublease, conveyance, or assignment; and payment of the difference between what was originally paid for the permit, lease, or contract and what the division would charge for the permit, lease, or contract at the time the application for sublease, conveyance, or assignment is submitted.

21.4 **Effective Date of Assignment**. A sublease, conveyance, or assignment shall take effect on the date of Surface Owner's approval of the assignment. On the effective date of any assignment, the assignee is bound by the terms of the lease to the same extent as if the assignee were the original grantee, any conditions in the assignment to the contrary notwithstanding.

21.5 **Non-Waiver**. The consent of Surface Owner to any one assignment shall not constitute a waiver of Surface Owner's right to consent to subsequent assignments, nor shall consent of Surface Owner to any one assignment relieve any party previously liable as Lessee from any obligations under this Agreement. The acceptance by Surface Owner of payment of rent following an assignment shall not constitute consent to any assignment and Surface Owner's consent shall be evidenced only in writing.

SECTION 22 SUCCESSORS AND ASSIGNS

This Agreement shall be binding upon and inure to the benefit of the parties, their successors and assigns and shall be a covenant running with the land.

SECTION 23 TIME IS OF THE ESSENCE

TIME IS OF THE ESSENCE as to each and every provision of this Agreement.

CONFIDENTIAL

API Well Number: 43013530410000

SECTION 24 RECORDATION

Lessee shall record this Agreement in the counties in which the Burdened Property is located, at Lessee's sole expense. Lessee shall provide Surface Owner a copy of the public recording. Lessee shall have ninety (90) days from the date of delivery of the final executed Agreement to comply with the requirements of this Section.

SECTION 25 APPLICABLE LAW AND VENUE

This Agreement shall be interpreted and construed in accordance with and shall be subject to the laws of the State of Utah. Any reference to a statute shall mean that statute as presently enacted or hereafter amended or superseded. Lessee consents to suit in the courts of the State of Utah in any dispute arising under the terms of this Agreement or as a result of operations carried on under this Agreement. Service of process in any such action is hereby agreed to be sufficient if sent by registered mail to Lessee at the last known address of Lessee appearing in the records of Surface Owner. Lessee agrees for itself and its successors and assigns that any suit brought by Lessee, its successors or assigns concerning this Agreement may be maintained only in the Utah State District Court of Salt Lake County. In the event of any litigation arising under this Agreement, the prevailing party shall be entitled to recover its costs and reasonable attorneys' fees incurred in connection with the litigation, including any appeals.

SECTION 26 MODIFICATION

Any modification of this Agreement must be in writing and signed by the parties. Surface Owner or Lessee shall not be bound by any oral representations of Surface Owner or Lessee. If Surface Owner is the Utah Division of Wildlife Resources, authorized signatures may be provided by only the Director or the Director's designee.

SECTION 27 SURVIVAL

Any obligations which are not fully performed upon termination of this Easement shall not cease, but shall continue as obligations until fully performed.

SECTION 28 WAIVER

No Waiver of Conditions by Surface Owner of any default of Lessee or failure of Surface Owner to timely enforce any provision of this Agreement shall constitute a waiver of or constitute a bar to subsequent enforcement of the same or other provisions of this Agreement. No provision in this Agreement shall be construed to prevent Surface Owner from exercising any legal or equitable remedy it may have.

SECTION 29 WATER RIGHTS

Lessee shall not file an application to appropriate water from the surface or subsurface of Surface Owner's lands unless the application is approved by Surface Owner in writing and is filed in the name of the Surface Owner. All water structures, including impoundment, diversion and conveyance structures or works, used to impound, divert or convey water claimed solely under a Surface Owner water right shall be the property of Surface Owner.

SECTION 30 INVALIDITY

If any provision of this Agreement proves to be invalid, void, or illegal, it shall in no way affect, impair, or invalidate any other provision of this Agreement.

IN WITNESS WHEREOF, the Parties have executed this Agreement, effective on the date of the last signature below.

CONFIDENTIAL

API Well Number: 43013530410000

SURFACE OWNER

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES, DIVISION OF WILDLIFE RESOURCES

By:_____
Gregory Sheehan
Director of Wildlife Resources

Date:_____

LESSEE

EP ENERGY E&P COMPANY, L.P.

By_____
Thomas L. Muchard
Agent & Attorney-in-Fact

Date: 9-15-14

Funding Approvals:
Division of Wildlife Resources Fiscal Management

By:_____
Linda Braithwaite
Budget Officer
Date:_____

STATE OF UTAH)
) SS.
COUNTY OF SALT LAKE)

On this _____ day of _____, 2014 personally appeared before me Gregory Sheehan, who being first duly sworn said that he is the Director of the Division of Wildlife Resources for the State of Utah, that the foregoing instrument was executed pursuant to authority granted him by The Wildlife Resource Code of Utah (23-21-1), and he acknowledged to me that he executed the same.

_____
Notary Public for the State of Utah

Residing at_____

My commission expires_____

STATE OF TEXAS)
) SS.
COUNTY OF HARRIS)

On this 15th day of September, 2014, personally appeared before me Thomas L. Muchard, to me known to be the Agent & Attorney-in-Fact of EP Energy E&P Company, L.P., who executed the within and foregoing instrument, and acknowledged that the execution of the document herein was his free and voluntary act and deed, for the uses and purposes therein mentioned, and gave an oath that he is authorized to execute the within instrument for said corporation.

Ginger M. Cearley
Notary Public for the State of Texas

Ginger M. Cearley
Notary Public,
State of Texas
Expires:08-02-2018

Residing at Harris County, TX

My commission expires 8/2/2018

CONFIDENTIAL

API Well Number: 43013530410000

F70 1906

SURFACE OWNER

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES, DIVISION OF WILDLIFE RESOURCES

ACTING DIRECTOR

By: Michael F. C

Gregory Sheehan
Director of Wildlife Resources

Date: 9/16/14

LESSEE

EP ENERGY E&P COMPANY, L.P.

By_____
Thomas L. Muchard
Agent & Attorney-in-Fact

Date:_____

Funding Approvals:
Division of Wildlife Resources Fiscal Management

By: L Braithwaite

Linda Braithwaite
Budget Officer

Date: 9/16/14

CONFIDENTIAL

STATE OF UTAH)
) SS.
COUNTY OF SALT LAKE)

On this 16th day of September, 2014 personally appeared before me Gregory Sheehan, who being first duly sworn said that he is the Director of the Division of Wildlife Resources for the State of Utah, that the foregoing instrument was executed pursuant to authority granted him by The Wildlife Resource Code of Utah (23-21-1), and he acknowledged to me that he executed the same.

THU ANH VO-WOOD
Notary Public
State of Utah
My Commission Expires Sept. 20, 2015
#648527

_____
Notary Public for the State of Utah

Residing at Salt Lake, Ut

My commission expires 9-20-2015

STATE OF TEXAS)
) SS.
COUNTY OF HARRIS)

On this _____ day of _____, 2014, personally appeared before me Thomas L. Muchard, to me known to be the Agent & Attorney-in-Fact of EP Energy E&P Company, L.P., who executed the within and foregoing instrument, and acknowledged that the execution of the document herein was his free and voluntary act and deed, for the uses and purposes therein mentioned, and gave an oath that he is authorized to execute the within instrument for said corporation.

_____
Notary Public for the State of Texas

Residing at _____

My commission expires_____

API Well Number: 43013530410000

Exhibit A.1

Legal Descriptions of Wellsite, and Access Road, Pipeline and Power line Centerline for Wellsite DWR 4-14C6

WELLSITE BOUNDARY DESCRIPTION Commencing at the Northwest Corner of Section 14, Township 3 South, Range 6 West of the Uintah Special Base and Meridian; Thence South 24°51'13" East 926.22 feet to the TRUE POINT OF BEGINNING; Thence North 80°27'01" East 475.00 feet; Thence South 09°32'59" East 475.00 feet; Thence South 80°27'01" West 475.00 feet; Thence North 09°32'59" West 475.00 feet to the TRUE POINT OF BEGINNING, containing 5.18 acres.

ACCESS ROAD, PIPELINE, AND POWER LINE CORRIDOR RIGHT-OF-WAY DESCRIPTION A 66 feet wide access road, pipeline, and power line corridor right-of-way over portions of Sections 14 and 15, Township 3 South, Range 6 West of the Uintah Special Base and Meridian, the centerline of which is further described as follows; Commencing at the North Quarter Corner of said Section 14; Thence South 56°25'48" West 2288.83 feet to the TRUE POINT OF BEGINNING; Thence South 08°37'24" East 319.70 feet; Thence South 01°08'48" West 277.80 feet; Thence South 21°48'47" West 122.95 feet; Thence South 39°20'08" West 35.64 feet; Thence South 58°12'56" West 144.56 feet; Thence South 67°26'40" West 251.81 feet; Thence South 80°38'35" West 99.77 feet; Thence South 83°30'45" West 211.31 feet; Thence South 89°18'42" West 105.88 feet; Thence North 83°02'01" West 122.01 feet; Thence North 78°21'37" West 185.58 feet; Thence North 74°49'03" West 184.81 feet; Thence North 79°43'51" West 125.44 feet; Thence North 86°47'34" West 335.50 feet; Thence South 71°46'04" West 73.28 feet; Thence North 89°50'25" West 169.53 feet; Thence South 59°57'39" West 123.96 feet to the East line of the existing road. Said right-of-way being 2889.54 feet in length with the sidelines being shortened or elongated to intersect said wellsite boundary and existing road lines.

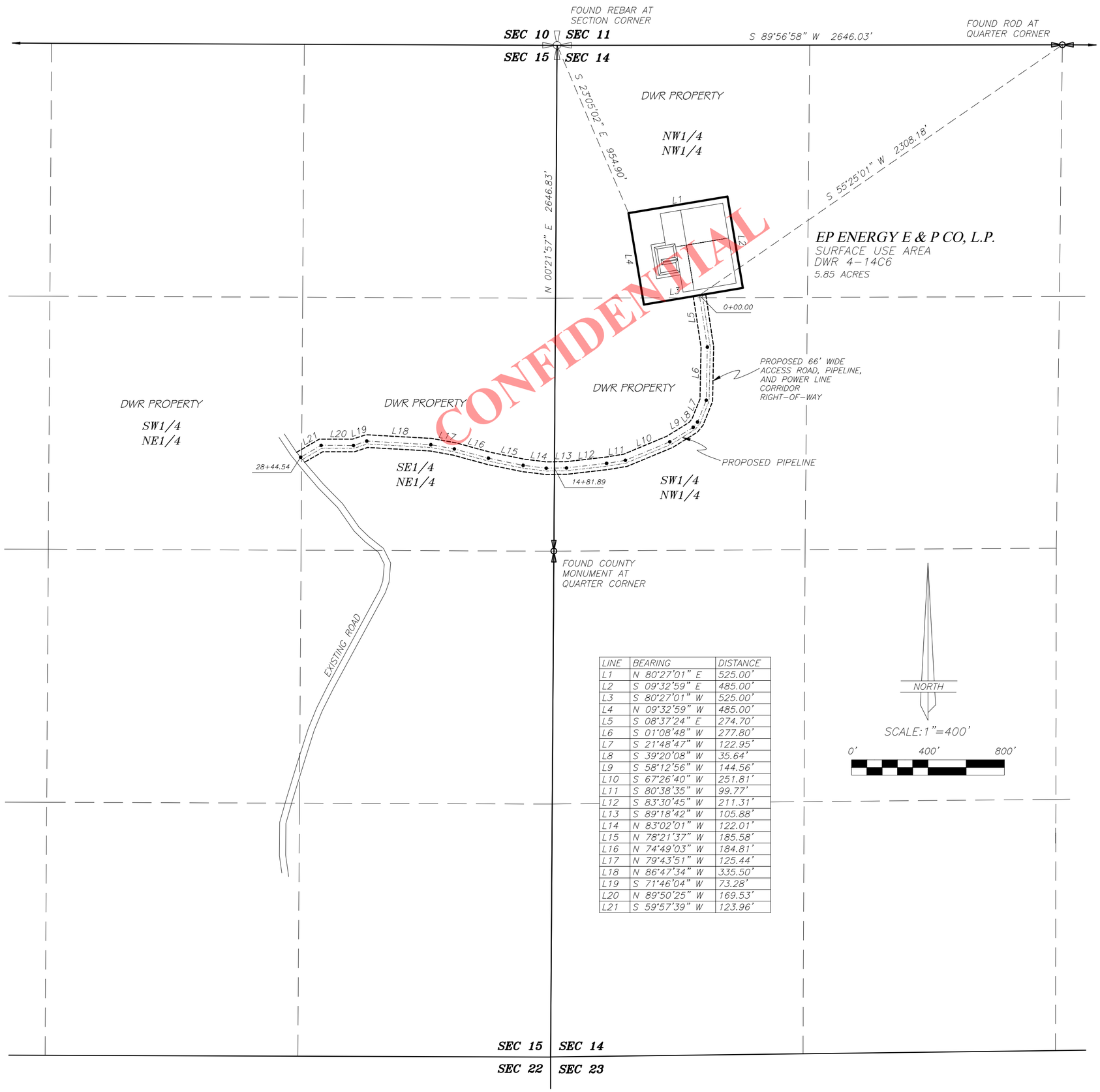
CONFIDENTIAL

API Well Number: 43013530410000

Exhibit A.2

Depiction of DWR 4-14C6 Wellsite, and Access Road,
Pipeline and Power line Corridor

CONFIDENTIAL



CONFIDENTIAL

LINE	BEARING	DISTANCE
L1	N 80°27'01" E	525.00'
L2	S 09°32'59" E	485.00'
L3	S 80°27'01" W	525.00'
L4	N 09°32'59" W	485.00'
L5	S 08°37'24" E	274.70'
L6	S 01°08'48" W	277.80'
L7	S 21°48'47" W	122.95'
L8	S 39°20'08" W	35.64'
L9	S 58°12'56" W	144.56'
L10	S 67°26'40" W	251.81'
L11	S 80°38'35" W	99.77'
L12	S 83°30'45" W	211.31'
L13	S 89°18'42" W	105.88'
L14	N 83°02'01" W	122.01'
L15	N 78°21'37" W	185.58'
L16	N 74°49'03" W	184.81'
L17	N 79°43'51" W	125.44'
L18	N 86°47'34" W	335.50'
L19	S 71°46'04" W	73.28'
L20	N 89°50'25" W	169.53'
L21	S 59°57'39" W	123.96'

LOCATION USE AREA, ACCESS ROAD, PIPELINE, AND POWER LINE CORRIDOR RIGHT-OF-WAY SURVEY FOR

EP ENERGY E&P COMPANY, L.P.

DWR 4-14C6

NW¼NW¼, SECTION 14, TOWNSHIP 3 SOUTH, RANGE 6 WEST, U.S.B.&M.
DUCHESNE COUNTY, UTAH

USE AREA BOUNDARY DESCRIPTION

Commencing at the Northwest Corner of Section 14, Township 3 South, Range 6 West of the Uintah Special Base and Meridian;
Thence South 23°05'02" East 954.90 feet to the TRUE POINT OF BEGINNING;
Thence North 80°27'01" East 525.00 feet;
Thence South 09°32'59" East 485.00 feet;
Thence South 80°27'01" West 525.00 feet;
Thence North 09°32'59" West 485.00 feet to the TRUE POINT OF BEGINNING, containing 5.85 acres.

ACCESS ROAD, PIPELINE, AND POWER LINE CORRIDOR RIGHT-OF-WAY DESCRIPTION

A 66 feet wide access road, pipeline, and power line corridor right-of-way over portions of Sections 14 and 15, Township 3 South, Range 6 West of the Uintah Special Base and Meridian, the centerline of which is further described as follows;
Commencing at the North Quarter Corner of said Section 14;
Thence South 55°25'01" West 2308.18 feet to the TRUE POINT OF BEGINNING;
Thence South 08°37'24" East 274.70 feet;
Thence South 01°08'48" West 277.80 feet;
Thence South 21°48'47" West 122.95 feet;
Thence South 39°20'08" West 35.64 feet;
Thence South 58°12'56" West 144.56 feet;
Thence South 67°26'40" West 251.81 feet;
Thence South 80°38'35" West 99.77 feet;
Thence South 83°30'45" West 211.31 feet;
Thence South 89°18'42" West 105.88 feet;
Thence North 83°02'01" West 122.01 feet;
Thence North 78°21'37" West 185.58 feet;
Thence North 74°49'03" West 184.81 feet;
Thence North 79°43'51" West 125.44 feet;
Thence North 86°47'34" West 335.50 feet;
Thence South 71°46'04" West 73.28 feet;
Thence North 89°50'25" West 169.53 feet;
Thence South 59°57'39" West 123.96 feet to the East line of the existing road. Said right-of-way being 2844.54 feet in length with the sidelines being shortened or elongated to intersect said use area boundary and existing road lines.

SURVEYOR'S CERTIFICATE

This is to certify that this plat was prepared from the field notes and electronic data collector files of an actual survey made by me, or under my personal supervision, of the use area and access road, pipeline, and power line right-of-way shown hereon, and that the monuments indicated were found or set during said survey, and that this plat accurately represents said survey to the best of my knowledge.

PROFESSIONAL LAND SURVEYOR No. 148951 JERRY D. ALLRED STATE OF UTAH
5 JUN '13

Jerry D. Allred, Professional Land Surveyor, Certificate 148951 (Utah)

THIS SURVEY WAS PERFORMED USING GLOBAL POSITIONING SYSTEM PROCEDURES AND EQUIPMENT

THE BASIS OF BEARINGS IS GEODETIC NORTH DERIVED FROM G.P.S. OBSERVATIONS AT A CONTROL POINT LOCATED AT LAT. 40°13'50.43923"N AND LONG. 110°29'48.25715"W USING THE UTAH STATE G.P.S. VIRTUAL REFERENCE STATION CONTROL NETWORK MAINTAINED AND OPERATED BY THE AUTOMATED GEOGRAPHIC REFERENCE CENTER

COUNTY SURVEYOR'S FILE NO.

REV 5 JUN 2013
10 DEC 2012 01-128-351

JERRY D. ALLRED AND ASSOCIATES
SURVEYING CONSULTANTS
1235 NORTH 700 EAST--BOX 975
DUCHESNE, UTAH 84021
(435) 738-5352

RECEIVED: September 17, 2014

Exhibit B.1

Legal Descriptions of Wellsite, and Access Road, Pipeline and Power line Centerline for Wellsite DWR 5-14C6

WELLSITE BOUNDARY DESCRIPTION Commencing at the Northeast Corner of Section 14, Township 3 South, Range 6 West of the Uintah Special Base and Meridian; Thence South 33°51'08" West 700.92 feet to the TRUE POINT OF BEGINNING; Thence South 15°38'15" West 475.00 feet; Thence North 74°21'45" West 475.00 feet; Thence North 15°38'15" East 475.00 feet; Thence South 74°21'45" East 475.00 feet to the TRUE POINT OF BEGINNING, containing 5.18acres.

ACCESS ROAD, PIPELINE, AND POWER LINE CORRIDOR RIGHT-OF-WAY DESCRIPTION A 66 feet wide access road, pipeline, and power line right-of-way over portions of Section14, Township 3 South, Range 6 West of the Uintah Special Base and Meridian, the centerline of which is further described as follows; Commencing at the Northeast Corner of said Section 14; Thence South 31°03'51" West 823.65 feet to the TRUE POINT OF BEGINNING; Thence South 79°29'29" East 279.30 feet; Thence South 83°24'24" East 90.61 feet; Thence South 89°36'24" East 36.02 feet to the West line of the existing road. Said right-of-way being 405.93 feet in length with the sidelines being shortened or elongated to intersect said wellsite boundary and said West road line.

CONFIDENTIAL

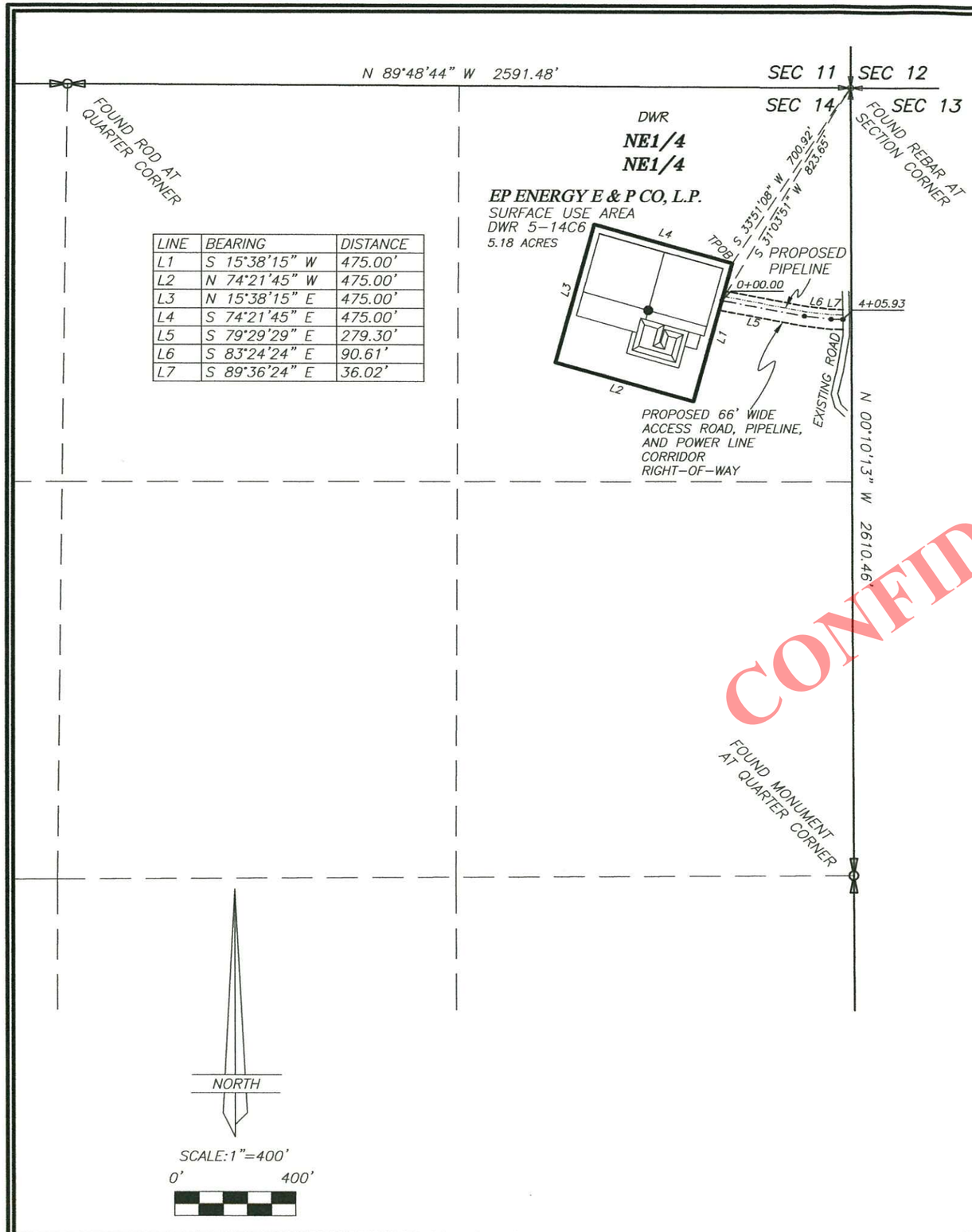
RECEIVED: September 17, 2014

Exhibit B.2

Depiction of DWR 5-14C6 Wellsite, and Access Road,
Pipeline and Power line Corridor

CONFIDENTIAL

RECEIVED: September 17, 2014



LINE	BEARING	DISTANCE
L1	S 15°38'15" W	475.00'
L2	N 74°21'45" W	475.00'
L3	N 15°38'15" E	475.00'
L4	S 74°21'45" E	475.00'
L5	S 79°29'29" E	279.30'
L6	S 83°24'24" E	90.61'
L7	S 89°36'24" E	36.02'

CONFIDENTIAL

LOCATION USE AREA, ACCESS ROAD, PIPELINE, AND POWER LINE CORRIDOR RIGHT-OF-WAY SURVEY FOR

EP ENERGY E&P COMPANY, L.P.

DWR 5-14C6

NE¼NE¼, SECTION 14, TOWNSHIP 3 SOUTH, RANGE 6 WEST, U.S.B.&M.
DUCHESNE COUNTY, UTAH

USE AREA BOUNDARY DESCRIPTION

Commencing at the Northeast Corner of Section 14, Township 3 South, Range 6 West of the Uintah Special Base and Meridian;
Thence South 33°51'08" West 700.92 feet to the TRUE POINT OF BEGINNING;
Thence South 15°38'15" West 475.00 feet;
Thence North 74°21'45" West 475.00 feet;
Thence North 15°38'15" East 475.00 feet;
Thence South 74°21'45" East 475.00 feet to the TRUE POINT OF BEGINNING, containing 5.18 acres.

ACCESS ROAD, PIPELINE, AND POWER LINE CORRIDOR RIGHT-OF-WAY DESCRIPTION

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Thence South 31°03'51" West 823.65 feet to the TRUE POINT OF BEGINNING;
Thence South 79°29'29" East 279.30 feet;
Thence South 83°24'24" East 90.61 feet;
Thence South 89°36'24" East 36.02 feet to the West line of the existing road.
Said right-of-way being 405.93 feet in length with the sidelines being shortened or elongated to intersect said use area boundary and said West road line.

SURVEYOR'S CERTIFICATE

This is to certify that this plat was prepared from the field notes and electronic data collector files of an actual survey made by me, or under my personal supervision, of the use area and access road, power line, and pipeline corridor right-of-way shown hereon, and that the monuments indicated were found or set during said survey, and that this plat accurately represents said survey to the best of my knowledge.

PROFESSIONAL LAND SURVEYOR
No. 148951
JERRY D. ALLRED
23 JAN '13
STATE OF UTAH

JERRY D. ALLRED, REGISTERED LAND SURVEYOR,
CERTIFICATE NO. 148951 (UTAH)

THIS SURVEY WAS PERFORMED USING GLOBAL POSITIONING SYSTEM PROCEDURES AND EQUIPMENT

THE BASIS OF BEARINGS IS GEODETIC NORTH DERIVED FROM G.P.S. OBSERVATIONS AT A CONTROL POINT LOCATED AT LAT. 40°13'50.43923"N AND LONG. 110°29'48.25715"W USING THE UTAH STATE G.P.S. VIRTUAL REFERENCE STATION CONTROL NETWORK MAINTAINED AND OPERATED BY THE AUTOMATED GEOGRAPHIC REFERENCE CENTER

23 JAN 2013 01-128-362

JERRY D. ALLRED AND ASSOCIATES
SURVEYING CONSULTANTS
1235 NORTH 700 EAST--P.O. BOX 975
DUCHESNE, UTAH 84021
(435) 738-5352

Exhibit C.1

Legal Descriptions of Wellsite, and Access Road, Pipeline and Power line Centerline for Wellsite DWR 4-32B5

WELLSITE BOUNDARY DESCRIPTION Commencing at the Southeast Corner of Section 32, Township 2 South, Range 5 West of the Uintah Special Base and Meridian; Thence North 29°55'24" West 1315.10 feet to the TRUE POINT OF BEGINNING; Thence North 68°33'54" West 475.00 feet; Thence North 21°26'06" East 475.00 feet; Thence South 68°33'54" East 475.00 feet; Thence South 21°26'06" West 475.00 feet to the TRUE POINT OF BEGINNING, containing 5.18acres.

ACCESS ROAD, PIPELINE, AND POWER LINE CORRIDOR RIGHT-OF-WAY DESCRIPTION A 66 feet wide access road, pipeline, and power line right-of-way over portions of Section32, Township 2 South, Range 5 West of the Uintah Special Base and Meridian, the centerline of which is further described as follows; Commencing at the East Quarter Corner of said Section 32; Thence South 24°21'24" West 1288.07 feet to the TRUE POINT OF BEGINNING; Thence North 80°21'09" East 120.59 feet; Thence North 79°58'24" East 107.90 feet; Thence North 08°28'49" East 234.89 feet; Thence North 39°58'00" West 121.43 feet; Thence North 12°13'20" West 453.70 feet; Thence North 13°54'19" West 320.04 feet; Thence North 19°33'05" West 645.25 feet; Thence North 23°53'59" West 134.69 feet to the East line of an existing road. Said right-of-way being 2138.49 feet in length with the sidelines being shortened or elongated to intersect said wellsite boundary and existing road lines.

CONFIDENTIAL

RECEIVED: September 17, 2014

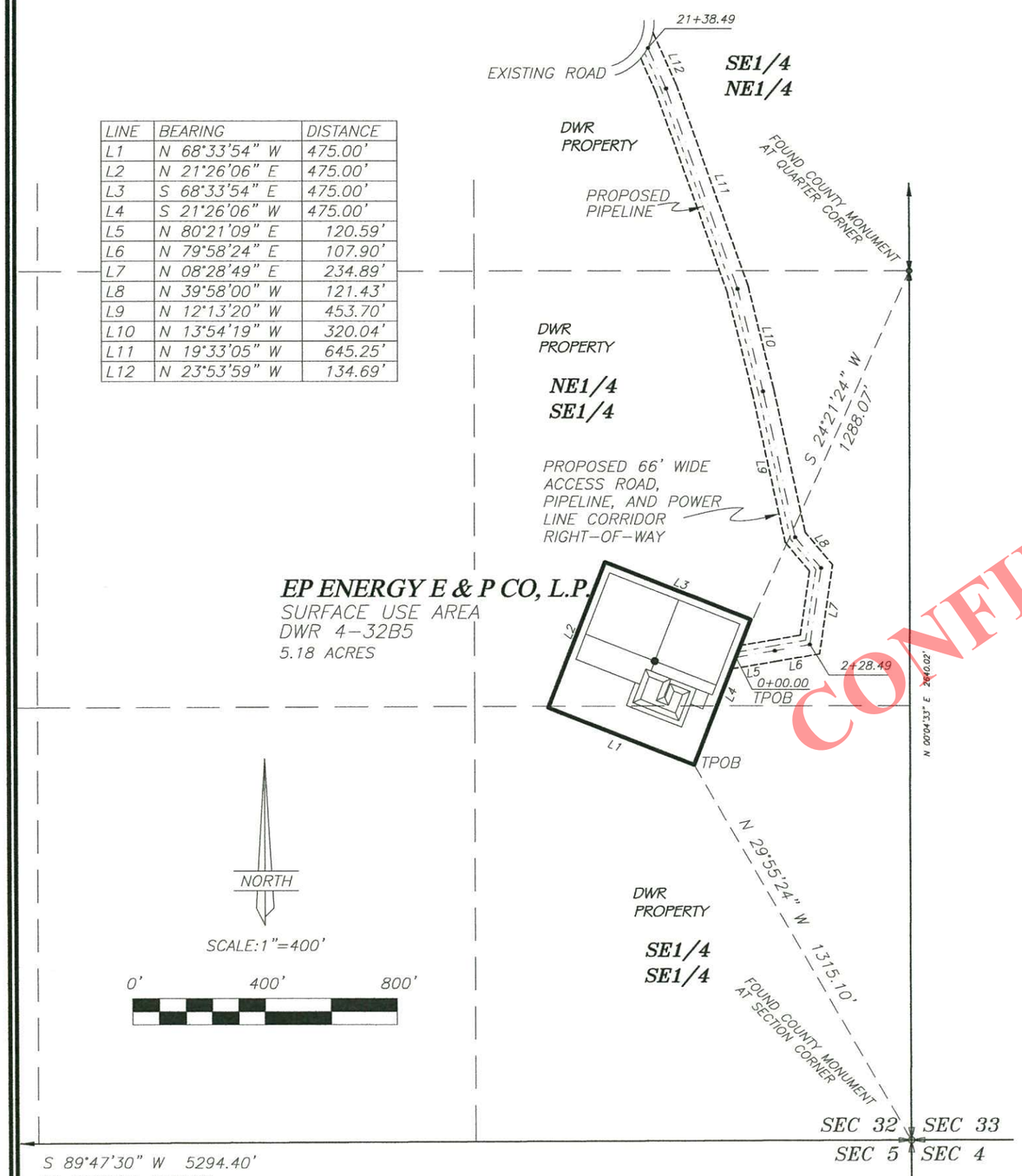
Exhibit C.2

Depiction of DWR 4-32B5 Wellsite, and Access Road,
Pipeline and Power line Corridor

CONFIDENTIAL

RECEIVED: September 17, 2014

LINE	BEARING	DISTANCE
L1	N 68°33'54" W	475.00'
L2	N 21°26'06" E	475.00'
L3	S 68°33'54" E	475.00'
L4	S 21°26'06" W	475.00'
L5	N 80°21'09" E	120.59'
L6	N 79°58'24" E	107.90'
L7	N 08°28'49" E	234.89'
L8	N 39°58'00" W	121.43'
L9	N 12°13'20" W	453.70'
L10	N 13°54'19" W	320.04'
L11	N 19°33'05" W	645.25'
L12	N 23°53'59" W	134.69'



CONFIDENTIAL

LOCATION USE AREA, ACCESS ROAD, PIPELINE, AND POWER LINE CORRIDOR RIGHT-OF-WAY SURVEY FOR

EP ENERGY E&P COMPANY, L.P.

DWR 4-32B5

SECTION 32, TOWNSHIP 2 SOUTH, RANGE 5 WEST, U.S.B.&M.
DUCHESNE COUNTY, UTAH

USE AREA BOUNDARY DESCRIPTION

Commencing at the Southeast Corner of Section 32, Township 2 South, Range 5 West of the Uintah Special Base and Meridian;
Thence North 29°55'24" West 1315.10 feet to the TRUE POINT OF BEGINNING;
Thence North 68°33'54" West 475.00 feet;
Thence North 21°26'06" East 475.00 feet;
Thence South 68°33'54" East 475.00 feet;
Thence South 21°26'06" West 475.00 feet to the TRUE POINT OF BEGINNING, containing 5.18 acres.

ACCESS ROAD, PIPELINE, AND POWER LINE CORRIDOR RIGHT-OF-WAY DESCRIPTION

A 66 feet wide access road, pipeline, and power line right-of-way over portions of Section 32, Township 2 South, Range 5 West of the Uintah Special Base and Meridian, the centerline of which is further described as follows;
Commencing at the East Quarter Corner of said Section 32;
Thence South 24°21'24" West 1288.07 feet to the TRUE POINT OF BEGINNING;
Thence North 80°21'09" East 120.59 feet;
Thence North 79°58'24" East 107.90 feet;
Thence North 08°28'49" East 234.89 feet;
Thence North 39°58'00" West 121.43 feet;
Thence North 12°13'20" West 453.70 feet;
Thence North 13°54'19" West 320.04 feet;
Thence North 19°33'05" West 645.25 feet;
Thence North 23°53'59" West 134.69 feet to the East line of an existing road. Said right-of-way being 2138.49 feet in length with the sidelines being shortened or elongated to intersect said use area boundary and existing road lines.

SURVEYOR'S CERTIFICATE

This is to certify that this plat was prepared from the field notes and electronic data collector files of an actual survey made by me, or under my personal supervision, of the use area and access road, pipeline, and power line right-of-way shown hereon, and that the monuments indicated were found or set during said survey, and that this plat accurately represents said survey to the best of my knowledge.

PROFESSIONAL LAND SURVEYOR
No. 148951
JERRY D. ALLRED
10 JAN '13
STATE OF UTAH

Jerry D. Allred, Professional Land Surveyor, Certificate 148951 (Utah)

THIS SURVEY WAS PERFORMED USING GLOBAL POSITIONING SYSTEM PROCEDURES AND EQUIPMENT

THE BASIS OF BEARINGS IS GEODETIC NORTH DERIVED FROM G.P.S. OBSERVATIONS AT A CONTROL POINT LOCATED AT LAT. 40°13'50.43923"N AND LONG. 110°29'48.25715"W USING THE UTAH STATE G.P.S. VIRTUAL REFERENCE STATION CONTROL NETWORK MAINTAINED AND OPERATED BY THE AUTOMATED GEOGRAPHIC REFERENCE CENTER

10 JAN 2013 01-128-359

JERRY D. ALLRED AND ASSOCIATES
SURVEYING CONSULTANTS
1235 NORTH 700 EAST--P.O. BOX 975
DUCHESNE, UTAH 84021
(435) 738-5352

Exhibit D.1

Legal Descriptions of Wellsite, and Access Road, Pipeline and Power line Centerline for Wellsite DWR 2-33B5

WELLSITE BOUNDARY DESCRIPTION Commencing at the South Quarter Corner of Section 33, Township 2 South, Range 5 West of the Uintah Special Base and Meridian; Thence North 61°22'55" West 1393.67 feet to the TRUE POINT OF BEGINNING; Thence North 65°54'41" West 475.00 feet; Thence North 24°05'19" East 475.00 feet; Thence South 65°54'41" East 475.00 feet; Thence South 24°05'19" West 475.00 feet to the TRUE POINT OF BEGINNING, containing 5.23acres.

ACCESS ROAD, PIPELINE, AND POWER LINE CORRIDOR RIGHT-OF-WAY DESCRIPTION A 66 feet wide access road, pipeline, and power line right-of-way over portions of Sections33 and 32, Township 2 South, Range 5 West of the Uintah Special Base and Meridian, the centerline of which is further described as follows; Commencing at the Southwest Corner of said Section 33; Thence North 43°12'32" East 1602.25 feet to the TRUE POINT OF BEGINNING; Thence North 81°28'48" West 148.61 feet; Thence North 85°14'16" West 136.05 feet; Thence North 80°21'21" West 306.14 feet; Thence North 68°24'33" West 274.87 feet; Thence North 66°11'05" West 246.54 feet; Thence North 56°44'09" West 35.34 feet to a point on the East line of the Southeast Quarter of said Section 32 which bears South 00°04'33" West 1167.51 feet from the East Quarter Corner of said Section 32; Thence North 56°44'09" West 128.62 feet; Thence North 49°21'42" West 89.75 feet; Thence North 29°38'23" West 190.35 feet to the East line of an existing road. Said right-of-way being 1556.27 feet in length with the sidelines being shortened or elongated to intersect said wellsite boundary and the existing road.

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RECEIVED: September 17, 2014

Exhibit D.2

Depiction of DWR 2-33B5 Wellsite, and Access Road,
Pipeline and Power line Corridor

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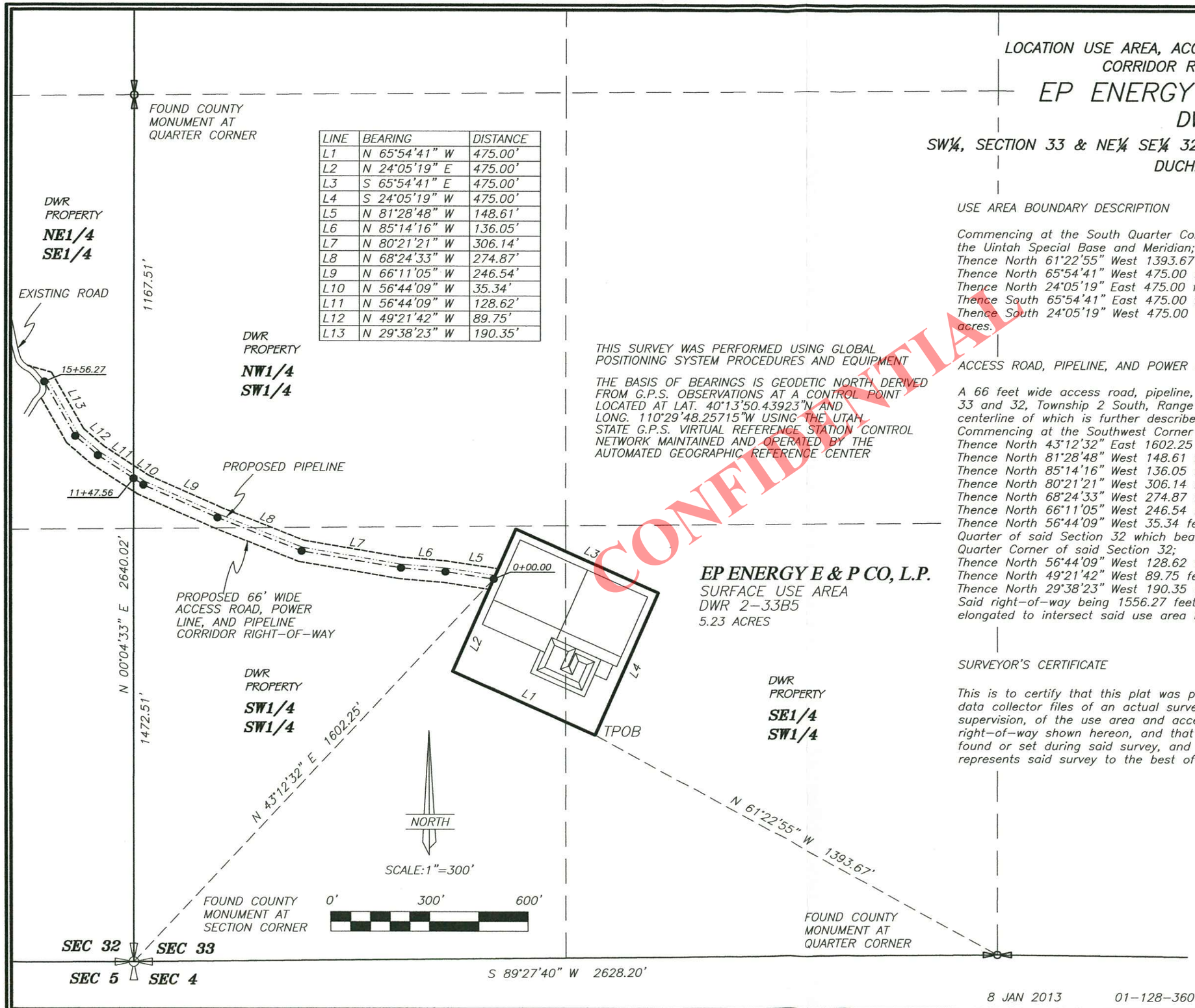
RECEIVED: September 17, 2014

LOCATION USE AREA, ACCESS ROAD, PIPELINE, AND POWER LINE CORRIDOR RIGHT-OF-WAY SURVEY FOR

EP ENERGY E&P COMPANY, L.P.

DWR 2-33B5

SW¼, SECTION 33 & NE¼ SE¼ 32, TOWNSHIP 2 SOUTH, RANGE 5 WEST, U.S.B.&M.
DUCHESNE COUNTY, UTAH



LINE	BEARING	DISTANCE
L1	N 65°54'41" W	475.00'
L2	N 24°05'19" E	475.00'
L3	S 65°54'41" E	475.00'
L4	S 24°05'19" W	475.00'
L5	N 81°28'48" W	148.61'
L6	N 85°14'16" W	136.05'
L7	N 80°21'21" W	306.14'
L8	N 68°24'33" W	274.87'
L9	N 66°11'05" W	246.54'
L10	N 56°44'09" W	35.34'
L11	N 56°44'09" W	128.62'
L12	N 49°21'42" W	89.75'
L13	N 29°38'23" W	190.35'

THIS SURVEY WAS PERFORMED USING GLOBAL POSITIONING SYSTEM PROCEDURES AND EQUIPMENT

THE BASIS OF BEARINGS IS GEODETIC NORTH DERIVED FROM G.P.S. OBSERVATIONS AT A CONTROL POINT LOCATED AT LAT. 40°13'50.43923"N AND LONG. 110°29'48.25715"W USING THE UTAH STATE G.P.S. VIRTUAL REFERENCE STATION CONTROL NETWORK MAINTAINED AND OPERATED BY THE AUTOMATED GEOGRAPHIC REFERENCE CENTER

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USE AREA BOUNDARY DESCRIPTION

Commencing at the South Quarter Corner of Section 33, Township 2 South, Range 5 West of the Uintah Special Base and Meridian;
Thence North 61°22'55" West 1393.67 feet to the TRUE POINT OF BEGINNING;
Thence North 65°54'41" West 475.00 feet;
Thence North 24°05'19" East 475.00 feet;
Thence South 65°54'41" East 475.00 feet;
Thence South 24°05'19" West 475.00 feet to the TRUE POINT OF BEGINNING, containing 5.23 acres.

ACCESS ROAD, PIPELINE, AND POWER LINE CORRIDOR RIGHT-OF-WAY DESCRIPTION

A 66 feet wide access road, pipeline, and power line right-of-way over portions of Sections 33 and 32, Township 2 South, Range 5 West of the Uintah Special Base and Meridian, the centerline of which is further described as follows;
Commencing at the Southwest Corner of said Section 33;
Thence North 43°12'32" East 1602.25 feet to the TRUE POINT OF BEGINNING;
Thence North 81°28'48" West 148.61 feet;
Thence North 85°14'16" West 136.05 feet;
Thence North 80°21'21" West 306.14 feet;
Thence North 68°24'33" West 274.87 feet;
Thence North 66°11'05" West 246.54 feet;
Thence North 56°44'09" West 35.34 feet to a point on the East line of the Southeast Quarter of said Section 32 which bears South 00°04'33" West 1167.51 feet from the East Quarter Corner of said Section 32;
Thence North 56°44'09" West 128.62 feet;
Thence North 49°21'42" West 89.75 feet;
Thence North 29°38'23" West 190.35 feet to the East line of an existing road.
Said right-of-way being 1556.27 feet in length with the sidelines being shortened or elongated to intersect said use area boundary and the existing road.

SURVEYOR'S CERTIFICATE

This is to certify that this plat was prepared from the field notes and electronic data collector files of an actual survey made by me, or under my personal supervision, of the use area and access road, pipeline, and power line right-of-way shown hereon, and that the monuments indicated were found or set during said survey, and that this plat accurately represents said survey to the best of my knowledge.

PROFESSIONAL LAND SURVEYOR
No. 148951
JERRY D. ALLRED
8 JAN '13
STATE OF UTAH

Jerry D. Allred, Professional Land Surveyor, Certificate 148951 (Utah)

JERRY D. ALLRED AND ASSOCIATES
SURVEYING CONSULTANTS
1235 NORTH 700 EAST--P.O. BOX 975
DUCHESNE, UTAH 84021
(435) 738-5352

8 JAN 2013 01-128-360

Exhibit E.1

Legal Descriptions of Wellsite, and Access Road, Pipeline and Power line Centerline for Wellsite DWR 3-33B5

WELLSITE BOUNDARY DESCRIPTION Commencing at the Northwest Corner of Section 33, Township 2 South, Range 5 West of the Uintah Special Base and Meridian; Thence South 62°22'18" East 772.29 feet to the TRUE POINT OF BEGINNING; Thence South 73°52'34" East 475.00 feet; Thence South 16°07'26" West 475.00 feet; Thence North 73°52'34" West 475.00 feet; Thence North 16°07'26" East 475.00 feet to the TRUE POINT OF BEGINNING, containing 5.18acres.

ACCESS ROAD, PIPELINE, AND POWER LINE CORRIDOR RIGHT-OF-WAY DESCRIPTION A 66 feet wide access road, pipeline, and power line right-of-way over portions of Section33, Township 2 South, Range 5 West of the Uintah Special Base and Meridian, the centerline of which is further described as follows; Commencing at the Northwest Corner of said Section 33; Thence South 43°14'55" East 879.46 feet to the TRUE POINT OF BEGINNING; Thence North 54°02'12" West 68.75 feet; Thence North 10°46'31" West 82.61 feet; Thence North 07°21'25" East 82.92 feet; Thence North 19°55'08" East 37.97 feet to the South line of the existing road. Said right-of-way being 272.25 feet in length with the sidelines being shortened or elongated to intersect said wellsite boundary and said South line of said road.

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Exhibit E.2

Depiction of DWR 3-33B5 Wellsite, and Access Road,
Pipeline and Power line Corridor

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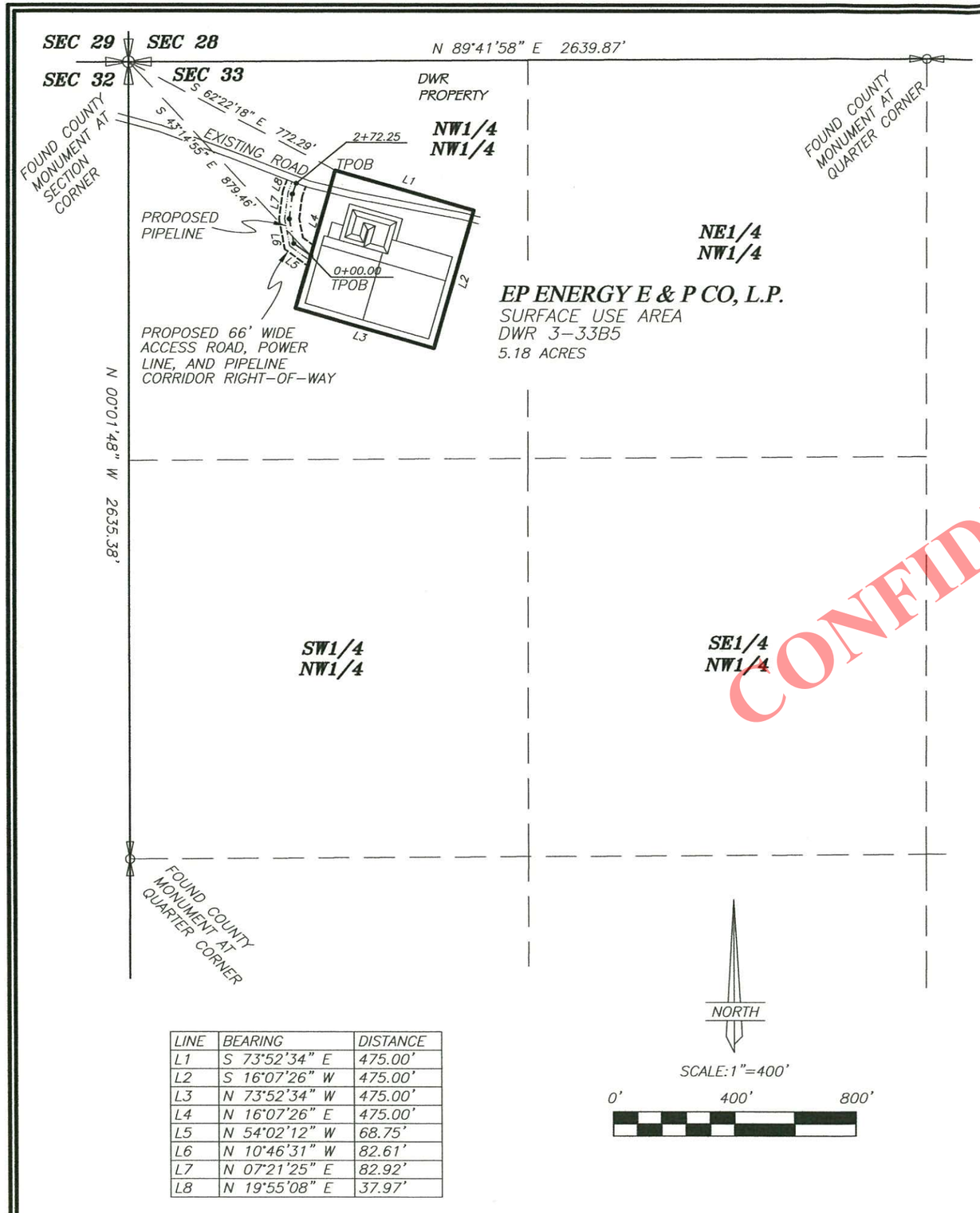
RECEIVED: September 17, 2014



LINE	BEARING	DISTANCE
L1	S 73°52'34" E	475.00'
L2	S 16°07'26" W	475.00'
L3	N 73°52'34" W	475.00'
L4	N 16°07'26" E	475.00'
L5	N 54°02'12" W	68.75'
L6	N 10°46'31" W	82.61'
L7	N 07°21'25" E	82.92'
L8	N 19°55'08" E	37.97'

LOCATION USE AREA, ACCESS ROAD, PIPELINE, AND POWER LINE CORRIDOR RIGHT-OF-WAY SURVEY FOR

EP ENERGY E&P COMPANY, L.P.

DWR 3-33B5

NW¼ NW¼, SECTION 33, TOWNSHIP 2 SOUTH, RANGE 5 WEST, U.S.B.&M.

DUCHESNE COUNTY, UTAH

CONFIDENTIAL

USE AREA BOUNDARY DESCRIPTION

Commencing at the Northwest Corner of Section 33, Township 2 South, Range 5 West of the Uintah Special Base and Meridian;
Thence South 62°22'18" East 772.29 feet to the TRUE POINT OF BEGINNING;
Thence South 73°52'34" East 475.00 feet;
Thence South 16°07'26" West 475.00 feet;
Thence North 73°52'34" West 475.00 feet;
Thence North 16°07'26" East 475.00 feet to the TRUE POINT OF BEGINNING, containing 5.18 acres.

ACCESS ROAD, PIPELINE, AND POWER LINE CORRIDOR RIGHT-OF-WAY DESCRIPTION

A 66 feet wide access road, pipeline, and power line right-of-way over portions of Section 33, Township 2 South, Range 5 West of the Uintah Special Base and Meridian, the centerline of which is further described as follows;
Commencing at the Northwest Corner of said Section 33;
Thence South 43°14'55" East 879.46 feet to the TRUE POINT OF BEGINNING;
Thence North 54°02'12" West 68.75 feet;
Thence North 10°46'31" West 82.61 feet;
Thence North 07°21'25" East 82.92 feet;
Thence North 19°55'08" East 37.97 feet to the South line of the existing road. Said right-of-way being 272.25 feet in length with the sidelines being shortened or elongated to intersect said use area boundary and said South line of said road.

SURVEYOR'S CERTIFICATE

This is to certify that this plat was prepared from the field notes and electronic data collector files of an actual survey made by me, or under my personal supervision, of the use area and access road, power line, and pipeline corridor right-of-way shown hereon, and that the monuments indicated were found or set during said survey, and that this plat accurately represents said survey to the best of my knowledge.

PROFESSIONAL LAND SURVEYOR No. 148951 JERRY D. ALLRED 22 JAN '13 STATE OF UTAH

Jerry D. Allred, Professional Land Surveyor, Certificate 148951 (Utah)

THIS SURVEY WAS PERFORMED USING GLOBAL POSITIONING SYSTEM PROCEDURES AND EQUIPMENT

THE BASIS OF BEARINGS IS GEODETIC NORTH DERIVED FROM G.P.S. OBSERVATIONS AT A CONTROL POINT LOCATED AT LAT. 40°13'50.43923"N AND LONG. 110°29'48.25715"W USING THE UTAH STATE G.P.S. VIRTUAL REFERENCE STATION CONTROL NETWORK MAINTAINED AND OPERATED BY THE AUTOMATED GEOGRAPHIC REFERENCE CENTER

22 JAN 2013 01-128-361

JERRY D. ALLRED AND ASSOCIATES
SURVEYING CONSULTANTS
1235 NORTH 700 EAST--P.O. BOX 975
DUCHESNE, UTAH 84021
(435) 738-5352

Exhibit F

Surface Use Plan for
EP Energy E&P Company, L.P.'s Development Program
Rabbit Gulch Duchesne County, Utah

EP Energy E&P Company, L.P. Surface Use Development Plan of Work

1) EXISTING ROADS
a) Refer to the site specific plat and map package submitted for each right-of-way (ROW), for the location of existing access roads.
b) Improvements to existing access roads will be noted in the site specific ROW's and in accordance with UDWR specifications.
c) All existing roads will be maintained and kept in good repair during all construction, completion, and producing operations associated with this project.

2) CONSTRUCTION/RECONSTRUCTED ACCESS ROADS
a) The road will be crown and ditch design. Lead-away ditches will be constructed on the access road as needed.
b) The topsoil will be windrowed and re-spread in the borrow area.
c) Turnouts will be constructed only if necessary.
d) Maximum slope will be less than 10%.
e) All equipment and vehicles will be confined to the access road, pad and area specified in the ROW.

3) LOCATION OF EXISTING WELLS
a) Existing oil, gas wells within one (1) mile radius of proposed well are provided in EXHIBIT C or D of the site specific plat packages.

4) LOCATION AND TYPE OF DRILLING WATER SUPPLY
a) Duchesne City water tap.

5) EXISTING/PROPOSED FACILITIES FOR PRODUCTIVE WELL
a) There are no existing facilities that will be utilized for this Well site.

6) CONSTRUCTION MATERIALS
a) Native soil from road and location will be used for construction materials along with gravel and/or scoria road base material. In the event conditions should necessitate graveling of all or part of the access road and location, surfacing materials will be purchased from commercial suppliers in the area. No materials will be removed from any federally-owned or state-owned sources.

7) ANCILLARY FACILITIES
a) There will be no ancillary facilities associated with this project.

8) SURFACE RECLAMATION PLANS
The following Reclamation Plan outlines procedures and measures that would be taken to complete reclamation within areas that have been or would be disturbed during the implementation of development by in the Rabbit Gulch Wildlife Project Area as it pertains to lands under UDWR jurisdiction. The objectives of this reclamation plan are to re-establish vegetation, reduce dust and erosion, compliment the visual resources of the surrounding area, and generally minimize impacts to the environment.

Interim reclamation refers to measures applied to stabilize disturbed areas and to control runoff and erosion during time periods when application of final reclamation measures is not feasible or practicable. Interim reclamation would be implemented on all disturbed areas that are not needed for production activities (this includes unused portions of road and pipeline ROW's well pads, and any other disturbed areas). Final reclamation refers to measures that would be applied after well abandonment and at the end of the project. Earthwork for final and interim reclamation would be completed within 6 months of well completion or well plugging (weather permitting.)
ROW disturbances can be immediately reclaimed. Whereas the life of a well can last 30 years, leaving final reclamation at a future date that would be analyzed as production and recovery activities diminish within the project area. Interim reclamation is a method of minimizing the effects of such long-term disturbance.

Reclamation Plan
Phase I: Construction, and Completion

Surface Disturbance:
1. Surface disturbances would be kept to a minimum (i.e. existing roads would be utilized where possible, well pads would be constructed to minimize the size of the pad while allowing for safe construction, drilling, and completion activities).

Noxious Weeds:
1. EP Energy will conduct weed management and control by using chemical methods which include using

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commercial herbicides where required to keep weed infestations under control. If necessary, use of mechanical methods which may include mowing, tilling, or hand weeding small area of weed infestations.
2. EP Energy will control any noxious and/or invasive weeds outbreak that is directly attributed to EP Energy activities.

Topsoil and Surface Preparations:
1. At all construction sites, topsoil will be stockpiled separately and identified appropriately from other soil materials and maintained for future use in rehabilitating the location. Signage disclosing the segregated pit soil levels will be placed in a manner that EP Energy and its contractors will not displace or degrade the resource.
2. Appropriate Best Management Practices (BMPs) will be applied to prevent soil loss to wind and water.
3. Salvaged topsoil will be seeded in a manner to maintain viability if stored longer than six months.
4. After well completion, compacted soils would be ripped 18-24 inches in a cross hatch manner and re-leveled, salvaged topsoil would be evenly re-spread over disturbed surfaces not actively used during the production phase, unless future well development is forecasted for that location.
5. EP Energy may utilize a number of methods to maintain suitable soil viability by use of soil stabilizing flocculates to prevent erosion, limit native vegetation loss, and maintain soil integrity.

Interim Reclamation:
1. After well completion, all disturbed areas not needed for the operation of the well will be recon toured and water barred to support vegetation and reduce erosion.
2. Water bars will be constructed at least one foot deep on the contour with approximately two feet of drop per 100 feet of water bar to ensure drainage, and extend into established vegetation. All water bars will be constructed with the berm on the downhill side to prevent soft materials from silting in the trench. Water bar spacing on the location will be as follows:

%SLOPE	SPACING INTERVAL
2 or <	200
2 to 4	100
4 to 5	75
5 or>	50

Additionally, the area would be seeded or topsoil spread and seeded. The seed mixtures to be used would be similar to the vegetation of the surrounding areas and may consist of grasses, forbs, or shrubs.
1. Seed mixtures will be approved by the UDWR and will be based on site specific observations of the surrounding habitat and vegetation communities.
2. Seeding would occur in the fall after August 15th and prior to winter freezing of the soil, weather permitting.
3. Depending on topography and/or timing, seeding will be predominately accomplished by hand broadcasting.

Phase II: Production and Maintenance
Access:
1. If necessary for safe access and operation during production, gravel or similar reinforcing material would be used on access routes and necessary portions of well pads to stabilize these areas.

Noxious and Invasive Weeds:
1. EP Energy would annually inspect well pads and ROWs to identify, treat and control any noxious weed infestations. Any herbicide application on UDWR lands would be applied in accordance with the label.
2. A list of noxious and invasive weeds would be obtained from the UDWR or County.

Fugitive Dust Control:
1. EP Energy would use water or other approved dust suppressants in the Project Area during construction and installation activities, as necessary, to abate fugitive dust.

Revegetation:
1. Re-vegetated areas will be inspected annually to document location and extent of areas with successful revegetation, and areas needing further reclamation. Success of criteria would be determined by UDWR and will be documented and reported.
2. Areas that do not meet the success criteria within this plan would be reseeded or inter-seeded as necessary.

Phase III: Decommissioning and Reclamation

Topsoil and Final Surface Preparation:
1. After demolition of compressor facility, all disturbed land administered by UDWR will be re-contoured back to the original contour or a contour that blends with the surrounding landform (roads will also be reclaimed unless the surface owner requests that they be left un-reclaimed).
2. The UDWR would determine if any gravel or similar materials used to reinforce an area is to be removed or buried in place during final reclamation.
3. Salvaged topsoil would be re-spread evenly over surfaces to be re-vegetated.
4. The soil surface would be prepared to provide a seedbed for re-establishment of desirable vegetation. Site preparation may include gouging, imprinting, scarifying, dozer track walking, mulching, or fertilizing.

Final Re-vegetation:
1. All disturbed and re-contoured areas would be reseeded using techniques outlined under Phase I and

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II of this Reclamation Plan. The seed mixtures to be used would be similar to the vegetation of the surrounding areas and may consist of grasses, forbs, or shrubs.
2. Compacted soil areas may need to be ripped and re-graded.
3. Alternate seed mixtures approved by the UDWR may be used.

Monitoring and Reporting
It is the responsibility of EP Energy to monitor reclaimed areas, determine if reclamation criteria are being met, develop and implement remedial actions if success standards are not being met, provide resulting data to the UDWR , and request concurrence from UDWR that success standards have been met and monitoring is no longer required.
It is the responsibility of the UDWR to evaluate the monitoring reports, provide concurrence (or not) with the reclamation assessments as to whether or not success standards are being met and the rationale for the determination, and provide recommendations to EP Energy E&P Company, L.P. to achieve compliance.

11) SURFACE OWNERSHIP and ROW for ACCESS TO DRILLSITE:
a) The ownership of the well site, access roads and pipeline corridors will be specified in the site specific right-of-way application and APD.

12) OTHER INFORMATION:
a) Equipment used during construction operations on this location will not be stacked or stored on UDWR administered lands after the conclusion of construction operations or at any other time without authorization by the DWR.
b) A class III archaeological survey has been conducted with reports submitted to the DWR. All personnel will refrain from collecting artifacts and from disturbing any significant cultural resources in the area. The operator is responsible for informing all persons in the area who are associated with this project that they may be subject to prosecution for knowingly disturbing historic or archaeological sites or for collecting artifacts. All vehicular traffic, personnel movement, construction, and restoration activities shall be confined to the areas examined, as referenced in the archaeological report, and to the existing roadways and/or evaluated access routes. If historic or archaeological materials are uncovered during construction, the Operator is to immediately stop work that might further disturb such materials and contact the DWR.

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API Well Number: 43013530410000

Exhibit G

70 1906

Reclamation Performance Bond Number RLB0015750

(Attached)

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API Well Number: 43013530410000

BOND NO. RLB0015750

70 1906

RIGHT-OF-WAY BOND

KNOW ALL BY THESE PRESENTS, that we, **EP Energy E&P Company, L.P.**, as Principal, and **RLI Insurance Company**, an Illinois corporation, as Surety, are held and firmly bound unto the **Utah Division of Wildlife Resources**, 1594 West North Temple, Suite 2110, Salt Lake City, Utah 84114-6301 as Obligee, in the sum of **Four Hundred Seventy Four Thousand Two Hundred Nineteen and No/100--Dollars ($474,219.00)** for which sum, well and truly to be paid, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, the Principal has been or is about to be granted a right-of-way permit for wellsites DWR 4-14C6, DWR 5-14C6, DWR 4-32B5, DWR 2-33B5, DWR 3-33B5 and their Supporting Roads, Pipelines and Power Lines, Rabbit Gulch Wildlife Management Area UDWR Easement Lease No. DUCH-1404EA-0472.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH THAT if the Principal shall well and truly comply with applicable local ordinances, and conduct business in ROW Easement Lease No. DUCH-1404EA-0472 in conformity therewith, then this obligation to be void; otherwise to remain in full force and effect. In no event shall the liability hereunder exceed the penal sum hereof.

PROVIDED AND SUBJECT TO THE CONDITIONS PRECEDENT:

1. This obligation may be canceled by the Surety by giving thirty (30) days notice in writing of its intention to do so to the Obligee, and the Surety shall be relieved of any further liability under this Bond thirty (30) days after receipt of said notice by the Obligee, except for defaults occurring prior thereto.

2. The term of this Bond shall be from September 5, 2014 to September 5, 2015.

3. Any claim must be presented in writing during the term of this bond, to RLI Insurance Company to the attention of Greg E. Chilson, 8 Greenway Plaza, Suite 400, Houston, Texas 77046. Any claims made outside the term of the bond shall be null and void and of no effect.

4. Surety shall have no obligation to the Principal, the Obligee or any other person or entity for any loss suffered by the Principal, the Obligee or any other person or entity by reason of acts or omissions which are or could be covered by the Obligee's or the Principal's general liability insurance, products liability insurance, completed operations insurance or any other insurance.

5. No right or action shall accrue under this Bond to or for the use or benefit of anyone other than the named Obligee.

6. The Obligee will issue a release of this Bond within a reasonable period, but in no instance longer than thirty (30) days after termination of the ROW easement.

7. Regardless of the number of years this Bond is in force, or the number of continuation certificates issued, the liability of the Surety shall not be cumulative in amounts from period to period and shall in no event exceed the amount set forth above, or as amended by rider.

IN WITNESS WHEREOF, the above bound parties have executed this instrument under their several seals this 5th day of September, 2014, the name and corporate seal of each corporate party being hereto affixed and those presents duly signed by its undersigned representative pursuant to authority of its governing body.

EP Energy E&P Company, L.P.
Principal

By

RLI Insurance Company
8 Greenway Plaza, Suite 400
Houston, TX 77046
Surety

By
Jason T. Kilpatrick, Attorney-in-Fact

CONFIDENTIAL

RLI

RLI Surety
A division of RLI Insurance Company

RLB0015750

POWER OF ATTORNEY
RLI Insurance Company

Know All Men by These Presents:

That the RLI INSURANCE COMPANY, a corporation organized and existing under the laws of the State of Illinois, and authorized and licensed to do business in all states and the District of Columbia does hereby make, constitute and appoint: JASON T. KILPATRICK in the City of HOUSTON, State of TEXAS, as Attorney-in-Fact, with full power and authority hereby conferred upon him to sign, execute, acknowledge and deliver for and on its behalf as Surety and as its act and deed, all of the following classes of documents to-wit:

$474,219.00

Indemnity, Surety and Undertakings that may be desired by contract, or may be given in any action or proceeding in any court of law or equity; policies indemnifying employers against loss or damage caused by the misconduct of their employees; official, bail and surety and fidelity bonds. Indemnity in all cases where indemnity may be lawfully given; and with full power and authority to execute consents and waivers to modify or change or extend any bond or document executed for this Company, and to compromise and settle any and all claims or demands made or existing against said Company.

The RLI INSURANCE COMPANY further certifies that the following is a true and exact copy of a Resolution adopted by the Board of Directors of RLI Insurance Company, and now in force to-wit:

"All bonds, policies, undertakings, Powers of Attorney, or other obligations of the corporation shall be executed in the corporate name of the Company by the President, Secretary, any Assistant Secretary, Treasurer, or any Vice President, or by such other officers as the Board of Directors may authorize. The President, any Vice President, Secretary, any Assistant Secretary, or the Treasurer may appoint Attorneys-in-Fact or Agents who shall have authority to issue bonds, policies, or undertakings in the name of the Company. The corporate seal is not necessary for the validity of any bonds, policies, undertakings, Powers-of-Attorney, or other obligations of the corporation. The signature of any such officer and the corporate seal may be printed by facsimile."

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IN WITNESS WHEREOF, the RLI Insurance Company has caused these presents to be executed by its PRESIDENT with its corporate seal affixed this

ATTEST:

Jean M. Stephenson

CORPORATE SECRETARY

RLI INSURANCE COMPANY CORPORATE SEAL ILLINOIS

RLI INSURANCE COMPANY

M J Stone

PRESIDENT

State of Illinois)
) SS
County of Peoria)

On this 5th day of September 2014 before me, a Notary Public, personally appeared Michael J. Stone and Jean M. Stephenson, who being by me duly sworn, acknowledged that they signed the above Power of Attorney as President and Corporate Secretary, respectively, of the said RLI INSURANCE COMPANY, and acknowledged said instrument to be the voluntary act and deed of said corporation.

Jacqueline M. Bockler

Notary Public

"OFFICIAL SEAL"
JACQUELINE M. BOCKLER
COMMISSION EXPIRES 01/14/18

SPA028 (03/11)

API Well Number: 43013530410000

API Well Number: 43013530410000

RLI Insurance Company
P.O. Box 3967 Peoria, IL 61612-3967
Phone: 309-692-1000 Fax: 309-683-1610

Texas Policyholder Notice

IMPORTANT NOTICE

To obtain information or make a complaint:

You may call **RLI Insurance Company**'s toll free telephone number for information or to make a complaint at 800-645-2402.

You may also write to **RLI Insurance Company** at:

9025 N. Lindbergh Drive
Peoria, IL 61615
FAX # 309-683-1610

You may contact the Texas Department of Insurance to obtain information on companies, coverages, rights or complaints at 1-800-252-3439.

You may also write the Texas Department of Insurance:

P.O. Box 149104
Austin, TX 78714-9104
Fax Number: (512) 475-1771
Web: http://www.tdi.texas.gov
E-mail: ConsumerProtection@tdi.texas.gov

PREMIUM OR CLAIM DISPUTES:

Should you have a dispute concerning your premium or about a claim, you should contact the agent first. If the dispute is not resolved, you may contact the Texas Department of Insurance.

ATTACH THIS NOTICE TO YOUR POLICY:

This notice is for information only and does not become a part or condition of the attached document.

AVISO IMPORTANTE

Para obtener informacion o para someter una queja:

Usted puede llamar al numero de telefono gratis de **RLI Insurance Company**'s para informacion o para someter una queja al 800-645-2402.

Usted tambien puede escribir a **RLI Insurance Company**:

9025 N. Lindbergh Drive
Peoria, IL 61615
FAX # 309-683-1610

Puede comunicarse con el Departamento de Seguros de Texas para obtener informacion acerca de companias, coberturas, derechos o quejas al 1-800-252-3439.

Puede escribir al Departamento de Seguros de Texas:

P.O. Box 149104
Austin, TX 78714-9104
Fax Number: (512) 475-1771
Web: http://www.tdi.texas.gov
E-mail: ConsumerProtection@tdi.texas.gov

DISPUTAS SOBRE PRIMAS O RECLAMOS:

Si tiene una disputa concerniente a su prima o a un reclamo, debe comunicarse con el agente primero. Si no se resuelve la disputa, puede entonces comunicarse con el departamento (TDI).

UNA ESTE AVISO A SU POLIZA:

Este aviso es solo para proposito de informacion y no se convierte en parte o condicion del documento adjunto.

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EP Energy E&P Company, L.P.

Related Surface Information

1. **Current Surface Use:**
   - Livestock Grazing and Oil and Gas Production.

2. **Proposed Surface Disturbance:**
   - The road will be crown and ditch. Water wings will be constructed on the access road as needed.
   - The topsoil will be windrowed and re-spread in the borrow area.
   - New road to be constructed will be approximately .08 miles in length and 66 feet wide.
   - All equipment and vehicles will be confined to the access road, pad and area specified in the APD.

3. **Location Of Existing Wells:**
   - Existing oil, gas wells within one (1) mile radius of proposed well are provided in EXHIBIT C.

4. **Location And Type Of Drilling Water Supply:**
   - Drilling water: Duchesne City Water

5. **Existing/Proposed Facilities For Productive Well:**
   - There are no existing facilities that will be utilized for this well.
   - A pipeline corridor .08 miles will parallel the proposed access road. The corridor will contain one 4 inch gas line and one 2 inch gas line and one 2 inch Salt Water disposal line. Rehabilitation of unneeded, previously disturbed areas will consist of backfilling and contouring the reserve pit area; backsloping and contouring all cut and fill slopes. These areas will be reseeded. Refer to plans for reclamation of surface for details.
   - Upgrade and maintain access roads and drainage control structures (e.g., culverts, drainage dips, ditching, etc.) as necessary to prevent soil erosion and accommodate safe, year-round traffic.

6. **Construction Materials:**
   - Native soil from road and location will be used for construction materials along with gravel and/or scoria road base material. In the event that conditions should necessitate graveling of all or part of the access road and location, surfacing materials will be purchased from commercial suppliers in the marketing area.

7. **Methods For Handling Waste Disposal:**
   - The reserve pit will be designed to prevent the collection of surface runoff and will be constructed with a minimum of ½ the total depth below the original ground surface on the lowest point with the pit. The pit will be lined with a 20-mil polyethylene to prevent leakage of fluids. The liner will be rolled into place and secured at the ends, i.e. buried on top of the pit berms. Prior to use, the reserve pit will be fenced on three sides; the fourth side will be fenced at the time the rig is removed. Drilling fluids, cuttings and produced water will be contained in the reserve pit (trash will be place in the trash cage). Fluids in the reserve pit will be allowed to evaporate prior to pit burial.
   - Garbage and other trash will be contained in the portable trash cage and hauled off the location to an authorized disposal site. Any trash on the pad will be cleaned up prior to the rig moving off location and hauled to an authorized disposal site.
   - Sewage will be handled in Portable Toilets.
   - Produced water will be placed in the reserve pit for a period not to exceed ninety days after initial production. Any hydrocarbons produced during completion work will be contained in test tanks and removed from the location at a later date.
   - Water from the reserve pit may be used for drilling of additional wells. The water will be trucked along access roads as approved in pertinent APD's

8. **Ancillary Facilities:**
   - There will be no ancillary facilities associated with this project.

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RECEIVED: July 14, 2014

9. Surface Reclamation Plans:

Backfilling of the pits will be done when dry. In the event of a dry hole, the location will be re-contoured, the topsoil will be distributed evenly over the entire location, and the seedbed prepared.

- Seed will be planted after September 15th, and prior to ground frost, or seed will be planted after the frost has left and before May 15th. Slopes to steep for machinery will be hand broadcast and raked with twice the specified amount of seed.

    1. The construction program and design are on the attached cut, fill and cross sectional diagrams.
    2. Prior to construction, all topsoil will be removed from the entire site and stockpiled. Topsoil for this site is the first 6 inches of soil materials.
    3. After the location has been reshaped and after redistributing the topsoil, the operator will rip and scarify the drilling platform and access road on the contour, to a depth of at least 12 inches.

- Rehabilitation will begin upon the completion of the drilling. Complete rehabilitation will depend on weather conditions and the amount of time required to dry the reserve pit.

    1. All rehabilitation work including seeding will be completed as soon as weather and the reserve pit conditions are appropriate.
    2. Landowner will be contacted for rehabilitation requirements.

10. Surface Ownership:

Utah Division of Wildlife Resources
Attn: Theresa Meyer, Wildlife Realty Specialist
1594 West North Temple, Suite 2110
P.O. Box 146301
Salt Lake City, UT 84114-6301
801-438-4866

Other Information:

- The surface soil consists of clay, and silt.
- Flora – vegetation consists of the following: Sagebrush, Juniper and prairie grasses.
- Fauna – antelope, deer, coyotes, raptors, small mammals, and domestic grazing animals.
- Current surface uses – Livestock grazing and mineral exploration and production.

- **Operator and Contact Persons:**

Construction and Reclamation:
EP Energy E&P Company, L.P.
Wayne Garner
PO Box 410
Altamont, Utah 84001
435-454-3394 – Office
435-823-1490 – Cell

Regarding This APD
EP Energy E&P Company, L.P.
Maria S. Gomez
1001 Louisiana, Rm 2730D
Houston, Texas 77002
713-997-5038 – Office

Drilling
EP Energy E&P Company, L.P.
Brad MacAfee – Drilling Engineer
1001 Louisiana, Rm 2660D
Houston, Texas 77002
713-997-6383 – office
281-813-0902 – Cell

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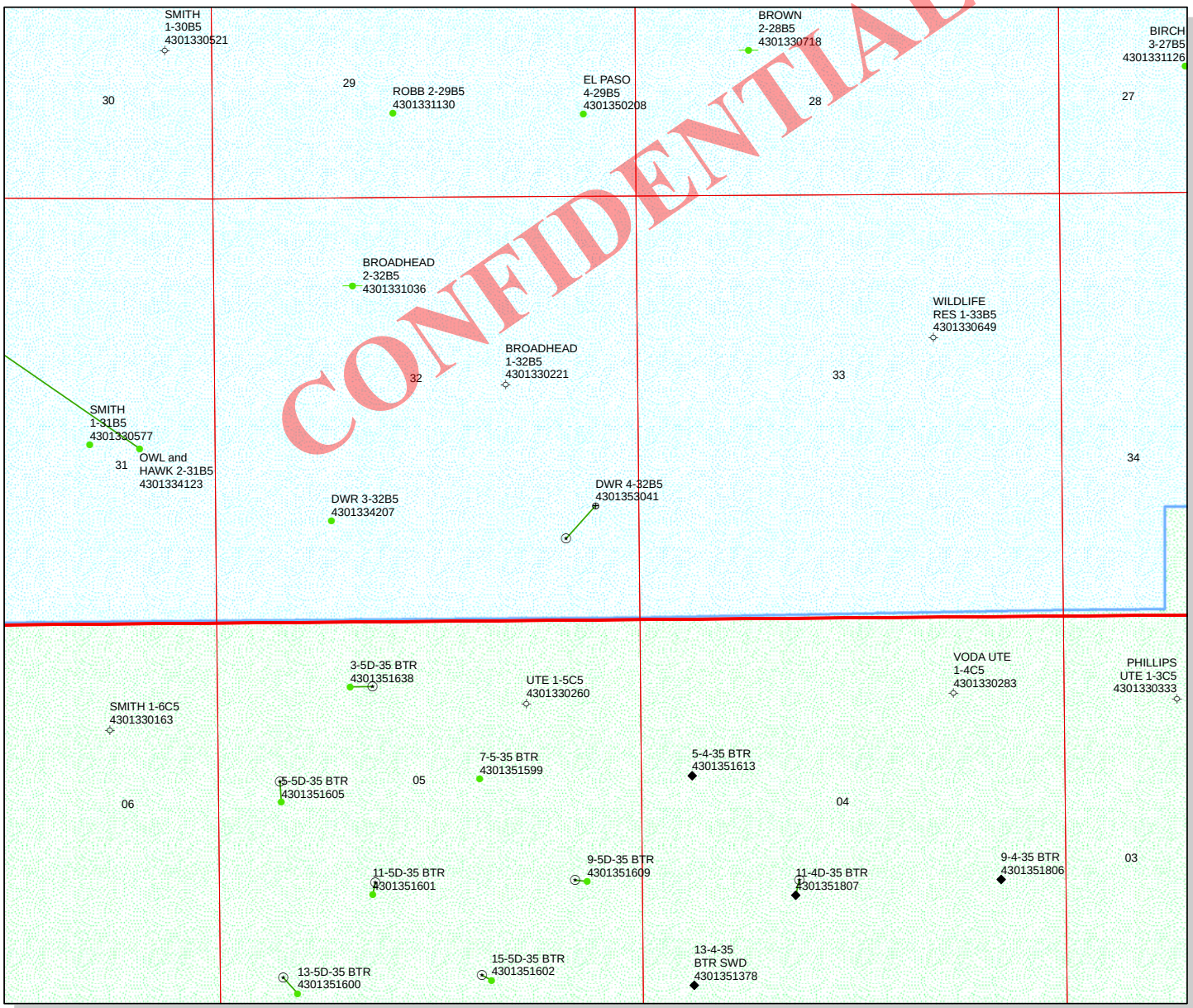
RECEIVED: July 14, 2014

API Well Number: 43013530410000



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API Number: 4301353041

Well Name: DWR 4-32B5

Township: T02.0S Range: R05.0W Section: 32 Meridian: U

Operator: EP ENERGY E&P COMPANY, L.P.

Map Prepared: 7/18/2014
Map Produced by Diana Mason

Wells Query

Status

- APD - Aproved Permit
- DRL - Spuded (Drilling Commenced)
- GIW - Gas Injection
- GS - Gas Storage
- LOC - New Location
- OPS - Operation Suspended
- PA - Plugged Abandoned
- PGW - Producing Gas Well
- POW - Producing Oil Well
- SGW - Shut-in Gas Well
- SOW - Shut-in Oil Well
- TA - Temp. Abandoned
- TW - Test Well
- WDW - Water Disposal
- WIW - Water Injection Well
- WSW - Water Supply Well

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

1,500 750 0 1,500 Feet

1:15,368

RECEIVED: July 18, 2014

API Well Number: 43013530410000

BOPE REVIEW EP ENERGY E&P COMPANY, L.P. DWR 4-32B5 43013530410000

Well Name	EP ENERGY E&P COMPANY, L.P. DWR 4-32B5 43013530410000			
String	COND	SURF	I1	L1
Casing Size(")	13.375	9.625	7.000	5.000
Setting Depth (TVD)	800	4000	9510	13230
Previous Shoe Setting Depth (TVD)	0	800	4000	9510
Max Mud Weight (ppg)	8.6	9.5	10.0	12.5
BOPE Proposed (psi)	500	1000	10000	10000
Casing Internal Yield (psi)	2730	5750	11220	13940
Operators Max Anticipated Pressure (psi)	8580			12.5

Calculations	COND String	13.375	"
Max BHP (psi)	.052*Setting Depth*MW=	358	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	262	YES diverter stack
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	182	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	182	NO OK
Required Casing/BOPE Test Pressure=		800	psi
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi *Assumes 1psi/ft frac gradient

Calculations	SURF String	9.625	"
Max BHP (psi)	.052*Setting Depth*MW=	1976	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	1496	NO diverter stack with rotating head
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	1096	NO OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	1272	NO
Required Casing/BOPE Test Pressure=		4000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		800	psi *Assumes 1psi/ft frac gradient

Calculations	I1 String	7.000	"
Max BHP (psi)	.052*Setting Depth*MW=	4945	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	3804	YES 10M BOPE w/rotating head, 5M annular, spacer spool,
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	2853	YES dbl rams, single w/flex rams
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	3733	YES OK
Required Casing/BOPE Test Pressure=		7854	psi
*Max Pressure Allowed @ Previous Casing Shoe=		4000	psi *Assumes 1psi/ft frac gradient

Calculations	L1 String	5.000	"
Max BHP (psi)	.052*Setting Depth*MW=	8599	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	7011	YES 10M BOPE w/rotating head, 5M annular, spacer spool,
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	5688	YES dbl rams, single w/flex rams
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	7781	YES OK
Required Casing/BOPE Test Pressure=		9758	psi
*Max Pressure Allowed @ Previous Casing Shoe=		9510	psi *Assumes 1psi/ft frac gradient

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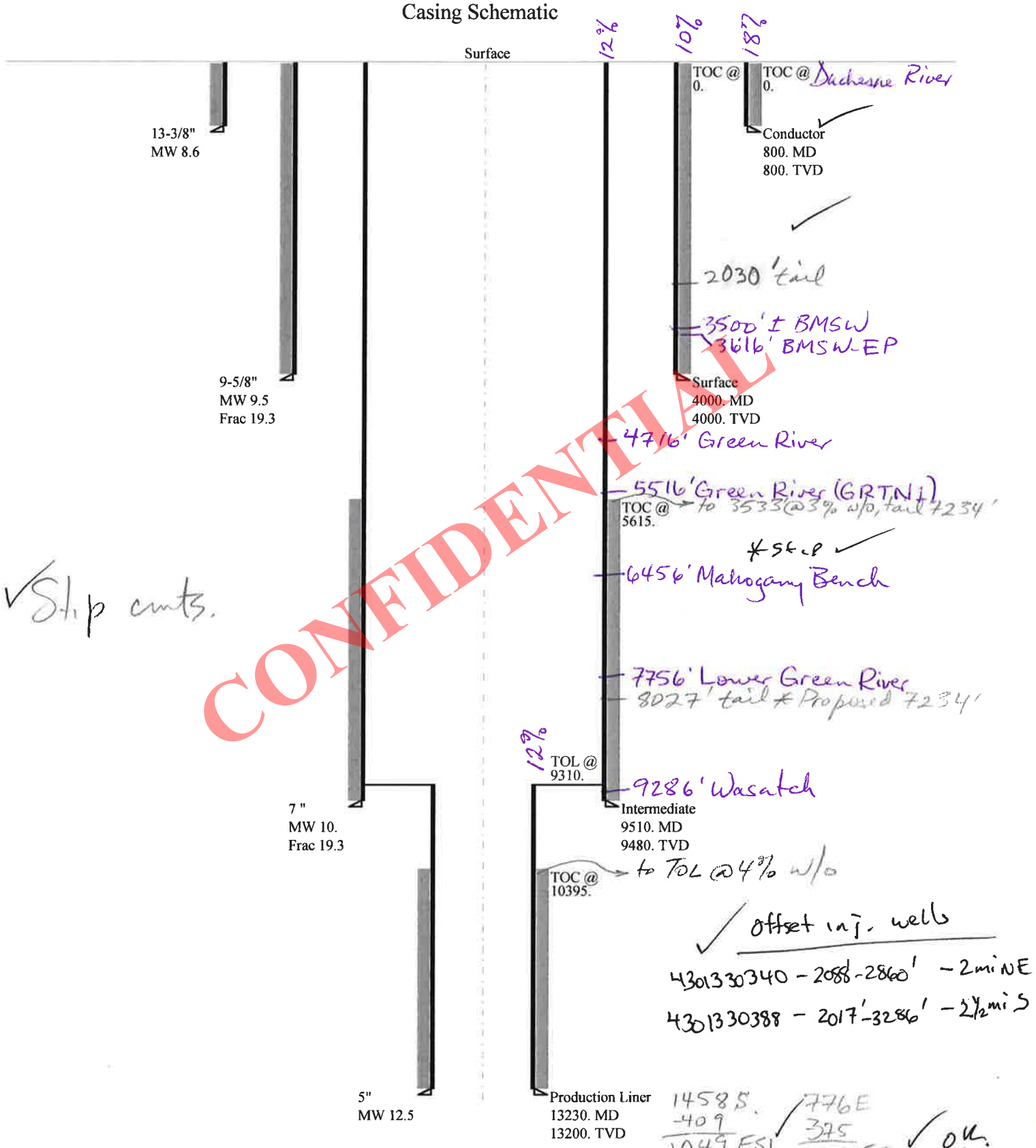
RECEIVED: September 17, 2014

API Well Number: 43013530410000

43013530410000 DWR 4-32B5

Casing Schematic



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API Well Number: 43013530410000

Well name:	**43013530410000 DWR 4-32B5**
Operator:	**EP ENERGY E&P COMPANY, LP.**
String type:	Conductor
Project ID:	43-013-53041
Location:	DUCHESNE COUNTY

Design parameters:

Collapse

Mud weight: 8.600 ppg

Design is based on evacuated pipe.

Burst

Max anticipated surface pressure: 261 psi

Internal gradient: 0.120 psi/ft

Calculated BHP 357 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 buoyed weight.

Neutral point: 698 ft

Environment:

H2S considered? No

Surface temperature: 74 °F

Bottom hole temperature: 85 °F

Temperature gradient: 1.40 °F/100ft

Minimum section length: 100 ft

Cement top: Surface

Non-directional string.

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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 ($)
1	800	13.375	54.50	J-55	ST&C	800	800	12.49	9926

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	357	1130	3.162	357	2730	7.64	38.1	514	13.51 J

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

Date: August 27,2014
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 800 ft, a mud weight of 8.6 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.

API Well Number: 43013530410000

Well name:	**43013530410000 DWR 4-32B5**
Operator:	**EP ENERGY E&P COMPANY, LP.**
String type:	Surface
Project ID:	43-013-53041
Location:	DUCHESNE COUNTY

Design parameters:

Collapse

Mud weight: 9.500 ppg

Design is based on evacuated pipe.

Burst

Max anticipated surface pressure: 2,839 psi

Internal gradient: 0.220 psi/ft

Calculated BHP 3,719 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 buoyed weight.

Neutral point: 3,435 ft

Environment:

H2S considered? No

Surface temperature: 74 °F

Bottom hole temperature: 130 °F

Temperature gradient: 1.40 °F/100ft

Minimum section length: 100 ft

Cement top: Surface

Non-directional string.

Re subsequent strings:

Next setting depth: 9,480 ft

Next mud weight: 10.000 ppg

Next setting BHP: 4,925 psi

Fracture mud wt: 19.250 ppg

Fracture depth: 4,000 ft

Injection pressure: 4,000 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	4000	9.625	40.00	N-80	LT&C	4000	4000	8.75	50898

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	1974	3090	1.565	3719	5750	1.55	137.4	737	5.36 J

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

Date: September 15,2014
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 4000 ft, a mud weight of 9.5 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.

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

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API Well Number: 43013530410000

Well name:	**43013530410000 DWR 4-32B5**
Operator:	**EP ENERGY E&P COMPANY, LP.**
String type:	Intermediate
Project ID:	43-013-53041
Location:	DUCHESNE COUNTY

Design parameters:

Collapse

Mud weight: 10.000 ppg

Design is based on evacuated pipe.

Burst

Max anticipated surface pressure: 5,668 psi

Internal gradient: 0.220 psi/ft

Calculated BHP 7,753 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 buoyed weight.

Neutral point: 8,068 ft

Environment:

H2S considered? No

Surface temperature: 74 °F

Bottom hole temperature: 207 °F

Temperature gradient: 1.40 °F/100ft

Minimum section length: 1,000 ft

Cement top: 5,615 ft

Directional well information:

Kick-off point 4050 ft

Departure at shoe: 555 ft

Maximum dogleg: 1.5 °/100ft

Inclination at shoe: 0 °

Re subsequent strings:

Next setting depth: 13,200 ft

Next mud weight: 12.500 ppg

Next setting BHP: 8,572 psi

Fracture mud wt: 19.250 ppg

Fracture depth: 9,480 ft

Injection pressure: 9,480 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	9510	7	29.00	HCP-110	LT&C	9480	9510	6.059	107393

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	4925	9200	1.868	7753	11220	1.45	233.3	797	3.42 J

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

Date: September 15,2014
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 9480 ft, a mud weight of 10 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.

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API Well Number: 43013530410000

Well name:	**43013530410000 DWR 4-32B5**
Operator:	**EP ENERGY E&P COMPANY, LP.**
String type:	Production Liner
Project ID:	43-013-53041
Location:	DUCHESNE COUNTY

Design parameters:

Collapse

Mud weight: 12.500 ppg

Design is based on evacuated pipe.

Burst

Max anticipated surface pressure: 5,668 psi

Internal gradient: 0.220 psi/ft

Calculated BHP 8,572 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 buoyed weight.

Neutral point: 12,482 ft

Environment:

H2S considered?	No
Surface temperature:	74 °F
Bottom hole temperature:	259 °F
Temperature gradient:	1.40 °F/100ft
Minimum section length:	1,000 ft
Cement top:	10,395 ft
Liner top:	9,310 ft

Directional well information:

Kick-off point	4050 ft
Departure at shoe:	555 ft
Maximum dogleg:	1.5 °/100ft
Inclination at shoe:	0 °

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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 ($)
1	3930	5	18.00	HCP-110	ST-L	13200	13230	4.151	311256

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	8572	15360	1.792	8572	13940	1.63	57.3	341	5.95 J

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

Date: September 15,2014
Salt Lake City, Utah

Remarks:

For this liner string, the top is rounded to the nearest 100 ft.Collapse is based on a vertical depth of 13200 ft, a mud weight of 12.5 ppg The 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 EP ENERGY E&P COMPANY, L.P.
Well Name DWR 4-32B5
API Number 43013530410000 **APD No** 10055 **Field/Unit** ALTAMONT
Location: 1/4,1/4 NESE **Sec** 32 **Tw** 2.0S **Rng** 5.0W 1458 FSL 776 FEL
GPS Coord (UTM) 551744 4452228 **Surface Owner**

Participants

Ben Williams - DWR; ????? - EP

Regional/Local Setting & Topography

This location is situated on an intermediate bench(known as Hair Bench) of what appears to be a historic floodplain, below a butte on the West Bench in Duchesne County. The current Duchesne River floodplain is found about one mile North as is the area known as Utahn. The town of Duchesne is found about 8 miles south of location. The soils are light red colored sandy clays and slope north to the cliffs (bench edge) and river floodplain. This is high desert shrubland with Pinyon / juniper and galletta as the dominant vegetation.
DWR manages the land as critical winter forage / habitat for big game species and has asked for winter drilling restrictions which the operator has agreed to. There are many natural channels cutting across pad footprint that will need to be diverted and returned to natural channels

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Surface Use Plan

Current Surface Use
Wildlfe Habitat
Deer Winter Range

New Road Miles	Well Pad	Src Const Material	Surface Formation
0.1	**Width** 250 **Length** 450	Onsite	UNTA

Ancillary Facilities

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

High desert shrubland ecosystem. Expected vegetation consists of sagebrush, globemallow, evening primrose, Atriplex spp., mustard spp, rabbit brush, horsebrush, broom snakeweed, Opuntia spp and spring annuals.
Dominant vegetation;
Galletta, and Utah juniper
Wildlife;
Adjacent habitat contains forbs that may be suitable browse for deer, antelope, prairie dogs or rabbits, though none were observed.
DWR responded with comment / issues;
Critical winter habitat for big game species

RECEIVED: September 22, 2014

Soil Type and Characteristics
light red colored sandy clays

Erosion Issues Y
soils are highly erodible with rilling across pad footprint

Sedimentation Issues N

Site Stability Issues N

Drainage Diverson Required? Y
overland flows and natural channels diverted South of pad and around corner B

Berm Required? Y

Erosion Sedimentation Control Required? N

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

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Reserve Pit

Site-Specific Factors		Site Ranking
Distance to Groundwater (feet)	75 to 100	10
Distance to Surface Water (feet)	>1000	0
Dist. Nearest Municipal Well (ft)	>5280	0
Distance to Other Wells (feet)	>1320	0
Native Soil Type	Mod permeability	10
Fluid Type	Fresh Water	5
Drill Cuttings	Normal Rock	0
Annual Precipitation (inches)	10 to 20	5
Affected Populations		
Presence Nearby Utility Conduits	Not Present	0
	Final Score	30 1 Sensitivity Level

Characteristics / Requirements
Pit to be dug to a depth of 8'. Because of the likely hood of disturbance to existing sandstone bedrock and clastic materials observed on the surface, pit underlayment is to be used to protect the liner from potential puncture. Pit should be fenced to prevent entry by deer, other wildlife and domestic animals. Pit to be closed within one year after drilling activities are complete.

Closed Loop Mud Required? N **Liner Required?** Y **Liner Thickness** 16 **Pit Underlayment Required?** Y

Other Observations / Comments

DWR had stips for this site

Chris Jensen 7/22/2014

RECEIVED: September 22, 2014

Evaluator **Date / Time**

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RECEIVED: September 22, 2014

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
10055	43013530410000	LOCKED	OW	S	No
Operator	EP ENERGY E&P COMPANY, L.P.		**Surface Owner-APD**		
Well Name	DWR 4-32B5		**Unit**		
Field	ALTAMONT		**Type of Work**	DRILL	
Location	NESE 32 2S 5W U 1458 FSL 776 FEL GPS Coord (UTM) 545339E 4456770N				

Geologic Statement of Basis

EP proposes to set 800 feet of conductor and 4,000 feet of surface casing both of which will be cemented to surface. The surface and intermediate holes will be drilled utilizing fresh water mud. The estimated depth to the base of moderately saline ground water is 3,500 feet. The surface formation at the proposed location is the Duchesne River Formation. The Duchesne River Formation can be a significant source of ground water. A search of Division of Water Rights records indicates that there are 14 water wells within a 10,000 foot radius of the center of Section 32. These wells range in depth from 25-700 feet. The wells are listed as being used for irrigation, stock watering, oil exploration and domestic. The proposed drilling, casing and cement program should adequately protect usable ground water in this area.

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Brad Hill	8/7/2014
APD Evaluator	**Date / Time**

Surface Statement of Basis

Location is proposed in a good location. Access road enters the pad from the east. The landowners (DWR) representative was in attendance for the pre-site inspection.
The soil type and topography at present do combine to pose a significant threat to erosion or sediment/ pollution transport in these regional climate conditions.
Usual construction standards of the Operator do not appear to be adequate for the proposed purpose as submitted. Plans lack measures for diversion of natural channel some of which cut across areas planned for the reserve pit and will spill over a tall cut slope. Fill slopes are planned under areas planned to support a bank of storage tanks. Operator has not submitted plans for the protection of slopes or top soil stockpile.
I recognize no special flora or animal species or cultural resources on site that the proposed action may harm. The location was not previously surveyed for cultural and paleontological resources (as the operator saw fit). I advise the operator take all measures necessary to comply with ESA and MBTA and that actions insure no disturbance to species that may have not been seen during onsite visit.
The location should be bermed to prevent fluids from entering or leaving the confines of the pad. Fencing around the reserve pit will be necessary to prevent wildlife and livestock from entering. A synthetic liner of 16 mils (minimum) should be utilized in the reserve pit. Measures (BMP's) shall be taken to protect steep slopes and topsoil pile from erosion, sedimentation and stability issues. A diversion is to be built sufficient to conduct overland or channel flows from natural channels south of the pad between corners 6 and 3, around the corner east and past marker 4 to reintroduce flows back into the natural channel found offsite to the east or below the pad near corner 2. Care to be taken that diversion of water

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does not impact or erode topsoil pile near corner B or topsoils will need to be stored elsewhere onsite.
IT was agreed onsite that:
Roads will be constructed in areas with junipers as much as possible
Drilling and construction activities will not be allowed from Decemeber 1st to April 15th

Chris Jensen	7/22/2014
Onsite Evaluator	**Date / Time**

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 16 mils with a felt subliner shall be properly installed and maintained in the reserve pit.
Surface	The well site shall be bermed to prevent fluids from entering or leaving the pad.
Surface	Measures (BMP's) shall be taken to protect steep slopes and topsoil pile from erosion, sedimentation and stability issues.
Surface	Drainages adjacent to the proposed pad shall be gathered across the entire south side of location and diverted east around the location where it will be returned to natural channels offsite.
Surface	The reserve pit shall be fenced upon completion of drilling operations.
Surface	Promises made with surface owner and agreements reached at onsite are to be honored and timely executed. Drilling and Construction restrictions during winter season (Dec. 1st to Apr 15th) New road construction restricted to areas populated with Pinion or Juniper to the greatest extent possible

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WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 7/14/2014
API NO. ASSIGNED: 43013530410000
WELL NAME: DWR 4-32B5
OPERATOR: EP ENERGY E&P COMPANY, L.P. (N3850)
PHONE NUMBER: 713 997-5038
CONTACT: Maria S. Gomez

PROPOSED LOCATION: NESE 32 020S 050W
Permit Tech Review: ✔

SURFACE: 1458 FSL 0776 FEL
Engineering Review: ✔

BOTTOM: 1050 FSL 1150 FEL
Geology Review: ✔

COUNTY: DUCHESNE
LATITUDE: 40.26017
LONGITUDE: -110.46682
UTM SURF EASTINGS: 545339.00
NORTHINGS: 4456770.00
FIELD NAME: ALTAMONT
LEASE TYPE: 3 - State
LEASE NUMBER: FEE
PROPOSED PRODUCING FORMATION(S): GREEN RIVER(LWR)-WASATCH
SURFACE OWNER: 3 - State
COALBED METHANE: NO

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RECEIVED AND/OR REVIEWED:

- ✔ **PLAT**
- ✔ **Bond:** STATE - 400JU0708
- ☐ **Potash**
- ☐ **Oil Shale 190-5**
- ☐ **Oil Shale 190-3**
- ☐ **Oil Shale 190-13**
- ✔ **Water Permit:** Duchesne City
- ☐ **RDCC Review:**
- ☐ **Fee Surface Agreement**
- ☐ **Intent to Commingle**

Commingling Approved

LOCATION AND SITING:

- ☐ **R649-2-3.**

Unit:

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

Board Cause No: Cause 139-84
Effective Date: 12/31/2008
Siting: 4 Wells Per 640 Acres

- ✔ **R649-3-11. Directional Drill**

Comments: Presite Completed
SURF OWNER DWR:

Stipulations:
5 - Statement of Basis - bhill
8 - Cement to Surface -- 2 strings - hmacdonald
12 - Cement Volume (3) - hmacdonald
15 - Directional - dmason

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GARY R. HERBERT
Governor
SPENCER J. COX
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: DWR 4-32B5
API Well Number: 43013530410000
Lease Number: FEE
Surface Owner: STATE
Approval Date: 9/22/2014

Issued to:
EP ENERGY E&P COMPANY, L.P., 1001 Louisiana, Houston, TX 77002

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 Cause 139-84. The expected producing formation or pool is the GREEN RIVER(LWR)-WASATCH 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:
In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

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

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" intermediate string shall be determined from actual hole diameter in order to place lead cement from the pipe setting depth back to 3500' and tail cement to 500' above the Lower Green River as indicated in the submitted drilling plan.

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

10/1/2014

Subject: 24 Hour Notice of Initial Spud on the following well.

Well Name: DWR 4-32b5
API Well Number: 43013530410000
Field: Altamont
County: Duchesne
Mineral Owner: Fee

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1458 FSL 776 FEL
NESE 32 2S 5W

October 1, 2014
10:00 AM
Leon Ross Drilling
Rig #35 Bucket Rig Spudded in on the above well for EP Energy LLC.

Best Regards

Gary Miller
Rig Site Supervisor
EP Energy LLC
C: 435-823-1725

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

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: FEE

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:

1. TYPE OF WELL
Oil Well

8. WELL NAME and NUMBER:
DWR 4-32B5

2. NAME OF OPERATOR:
EP ENERGY E&P COMPANY, L.P.

9. API NUMBER:
43013530410000

3. ADDRESS OF OPERATOR:
1001 Louisiana , Houston, TX, 77002

PHONE NUMBER:
713 997-5038 Ext

9. FIELD and POOL or WILDCAT:
ALTAMONT

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
1458 FSL 0776 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: NESE Section: 32 Township: 02.0S Range: 05.0W Meridian: U

COUNTY:
DUCHESNE

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: 12/5/2014	☐ 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: Initial Completion

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

EP plans to complete into the Wasatch. Please see attached for details.

Approved by the
December 03, 2014
Oil, Gas and Mining

Date:

By: Dark K Quist

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Maria S. Gomez	713 997-5038	Principal Regulatory Analyst

SIGNATURE	DATE
N/A	12/3/2014

DWR 4-32B5

Initial Completion

API # : 4301353041

The following precautions will be taken until the RCA for the Conover is completed:

1. Review torque turning and running of the 7" and 5" liner of anomalies.

2. Test and chart casing for 30 minutes, noting pressure if any on surface casing.

3. Test all lubricators, valves and BOP's to working pressure.

4. A frac tree with BOP equipment will be utilized during the stimulation treatment.

5. Monitor the surface casing during frac:

a. Lay a flowline to the flow back tank and keep the valve open.

b. This line will remain in place until a wire line set retrievable packer is in place isolating the 5" casing from the 7" after the frac.

6. 2 7/8" tubing will be run to isolate the 7" casing during the flow back of the well.

7. Well pressure and annulus pressure would be monitored during this time until the well is ready for pump.

Completion Information (Wasatch Formation)

Stage #1 RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~12015' – 12314' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of Power Prop 30/50. Total clean water volume is 3686 gals.

Stage #2 RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~11693' – 11973' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of Power Prop 30/50. Total clean water volume is 3681 gals.

Stage #3 RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~11369' – 11659' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of Power Prop 30/50. Total clean water volume is 3675 gals.

Stage #4 RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~11043' – 11342' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of Power Prop 30/50. Total clean water volume is 3669 gals.

Stage #5 RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~10719' – 11013' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of Power Prop 30/50. Total clean water volume is 3663 gals.

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Stage #6 RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~10441' – 10675' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of TLC 30/50. Total clean water volume is 3658 gals.

Stage #7 RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~10125' – 10402' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of TLC 30/50. Total clean water volume is 3653 gals.

Stage #8 RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~9811' – 10087' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of TLC 30/50. Total clean water volume is 3647 gals.

Stimulation Summary

	Top Perf	Btm. Perf	Gross Interval	Plug Depth	Net Perf Length	Total Shots	Perf Intervals	Type of Prop	Lbs of Prop	Lbs/ft	Lbs of 100 Mesh	Gals of HCL (15%)	BBLs of Clean H2O	BBLs of Slurry
Stage #1	12,015	12,314	299	NA	23	69	17	Power Prop 30/50	150,000	502	3,000	5,000	3,686	4,093
Stage #2	11,693	11,973	280	11,988	22	66	17	Power Prop 30/50	150,000	536	3,000	5,000	3,681	4,087
Stage #3	11,369	11,659	290	11,674	23	69	17	Power Prop 30/50	150,000	517	3,000	5,000	3,675	4,081
Stage #4	11,043	11,342	299	11,357	23	69	17	Power Prop 30/50	150,000	502	3,000	5,000	3,669	4,075
Stage #5	10,719	11,013	294	11,028	23	69	17	Power Prop 30/50	150,000	510	3,000	5,000	3,663	4,070
Stage #6	10,441	10,675	234	10,690	22	66	17	TLC 30/50	150,000	641	3,000	5,000	3,658	4,059
Stage #7	10,125	10,402	277	10,417	23	69	17	TLC 30/50	150,000	542	3,000	5,000	3,653	4,053
Stage #8	9,811	10,087	276	10,102	23	69	17	TLC 30/50	150,000	543	3,000	5,000	3,647	4,048
Average per Stage			**281**		**23**	**68**	**17**		**150,000**	**537**	**3,000**	**5,000**	**3,667**	**4,071**
Totals per Well			**2,249**		**182**	**546**	**136**		**1,200,000**		**24,000**	**40,000**	**29,332**	**32,565**

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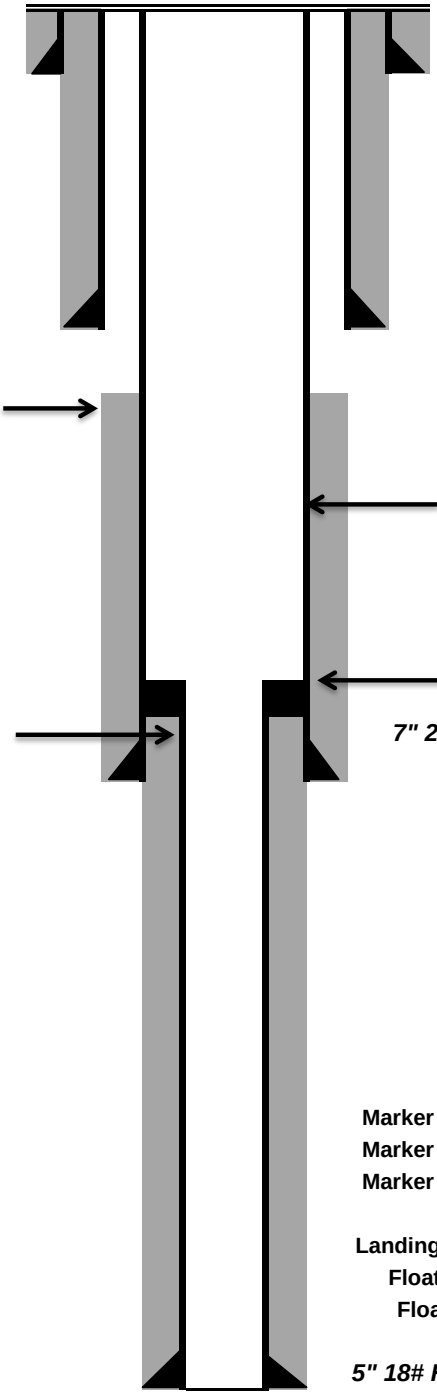
EP ENERGY

Pre-Completion Wellbore Schematic

Well Name:	**DWR 4-32B5**	Last Updated:	*11/26/2014*
Company Name:	*EP Energy*	By:	*Jarrod Kent*
Field, County, State:	*Altamont, Duchesne, Utah*	TD:	*12,381*
Surface Location:	*Lat: 40°15'36.976" N Long: 110°28'03.819" W*	API:	*4301353041*
Producing Zone(s):	*Wasatch*	AFE:	*160242*

8.43 ppg KCL substitute (Clay Webb Water) water in the wellbore



13-3/8" 54.5# J-55 STC @ 802 ft. MD

9-5/8" 40# HCL-80 LTC @ 3336 ft. MD

Estimated 7" TOC: XXXX ft MD

7" Marker Joint at: 7,759 ft MD

Top of Liner at: 9,041 ft MD

Liner TOC at: XXXX ft MD

7" 29# HCP-110 LTC @ 9276 ft. MD
Drift ID = 6.059"

Marker Joint 1 at:	9,393	ft MD
Marker Joint 2 at:	10,389	ft MD
Marker Joint 3 at:	11,385	ft MD
Landing Collar @	12,297	ft MD
Float Collar @	12,339	ft MD
Float Shoe @	12,381	ft MD

5" 18# HCP-110 STL @ 9041 - 12382 ft. MD
Drift ID = 4.151"

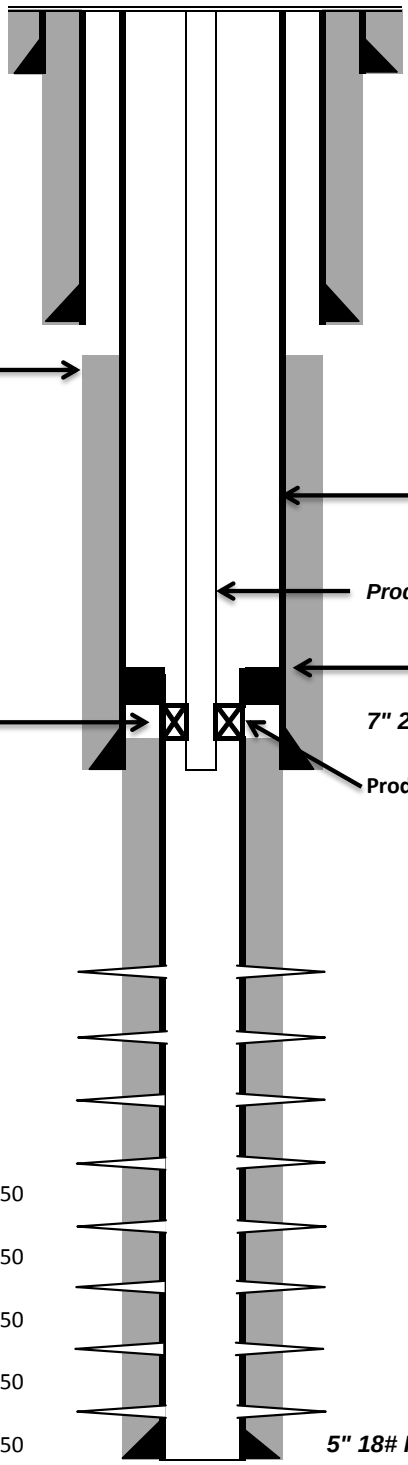
RECEIVED: Dec. 03, 2014

EP ENERGY

Post-Completion Wellbore Schematic

Well Name:	DWR 4-32B5	Last Updated:	11/26/2014
Company Name:	EP Energy	By:	Jarrod Kent
Field, County, State:	Altamont, Duchesne, Utah	TD:	12,381
Surface Location:	Lat: 40°15'36.976" N Long: 110°28'03.819" W	API:	4301353041
Producing Zone(s):	Wasatch	AFE:	160242

8.43 ppg KCL substitute (Clay Webb Water) water in the wellbore



13-3/8" 54.5# J-55 STC @ 802 ft. MD

9-5/8" 40# HCL-80 LTC @ 3336 ft. MD

Estimated TOC at: XXXX ft MD

7" Marker Joint at: 7,759 ft MD

Production Tubing: 2 7/8"

Top of Liner at: 9,041 ft MD

Liner TOC at: XXXX ft MD

7" 29# HCP-110 LTC @ 9276 ft. MD
Drift ID = 6.059"

Production Packer @ 9141 ft MD

Initial Completion Perf Information

Stage #8 9811 - 10087 23' /69 shots
5000 gal HCL & 150000 lbs TLC 30/50

Stage #7 10125 - 10402 23' /69 shots
5000 gal HCL & 150000 lbs TLC 30/50

Stage #6 10441 - 10675 22' /66 shots
5000 gal HCL & 150000 lbs TLC 30/50

Stage #5 10719 - 11013 23' /69 shots
5000 gal HCL & 150000 lbs Power Prop 30/50

Stage #4 11043 - 11342 23' /69 shots
5000 gal HCL & 150000 lbs Power Prop 30/50

Stage #3 11369 - 11659 23' /69 shots
5000 gal HCL & 150000 lbs Power Prop 30/50

Stage #2 11693 - 11973 22' /66 shots
5000 gal HCL & 150000 lbs Power Prop 30/50

Stage #1 12015 - 12314 23' /69 shots
5000 gal HCL & 150000 lbs Power Prop 30/50

Marker Joint 1 @:	9,393	ft MD
Marker Joint 2 @:	10,389	ft MD
Marker Joint 2 @:	11,385	ft MD
Landing Collar @	12,297	ft MD
Float Collar @	12,339	ft MD
Float Shoe @	12,381	ft MD

5" 18# HCP-110 STL @ 9041 - 12382 ft. MD
Drift ID = 4.151"

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Reset Form

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:

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

1a. TYPE OF WELL: OIL WELL ☑ GAS WELL ☐ DRY ☐ OTHER

7. UNIT or CA AGREEMENT NAME

b. TYPE OF WORK: NEW WELL ☑ HORIZ. LATS. ☐ DEEP-EN ☐ RE-ENTRY ☐ DIFF. RESVR. ☐ OTHER

8. WELL NAME and NUMBER: DWR 4-32B5

2. NAME OF OPERATOR: EP Energy E&P Company, L.P.

9. API NUMBER: 4301353041

3. ADDRESS OF OPERATOR: 1001 Louisiana CITY Houston STATE TX ZIP 77002

PHONE NUMBER: (713) 997-5038

10 FIELD AND POOL, OR WILDCAT: Altamont

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: 1458' FSL & 776' FEL
AT TOP PRODUCING INTERVAL REPORTED BELOW: 1002' FSL & 1181' FEL
AT TOTAL DEPTH: 900' FSL & 1194' FEL

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESE 32 2S 5W U

12. COUNTY: Duchesne

13. STATE: UTAH

14. DATE SPUDDED: 10/18/2014

15. DATE T.D. REACHED: 11/22/2014

16. DATE COMPLETED: 12/10/2014 ABANDONED ☐ READY TO PRODUCE ☑

17. ELEVATIONS (DF, RKB, RT, GL): 6114

18. TOTAL DEPTH: MD 12,400 TVD 12,368

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)
Sonic, Gamma Ray, Resistivity & Neutron Density

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
17.5	13.375	J55	54.5	0	815		G	900	1,035	0	
12.25	9.625	N80	40	0	3,336		V/G	2,825	4,638	0	
8.75	7"	HCP1:	29	0	9,276		H/G	810	1,461	4445	
6.125	5"	HCP1:	18	9,018	12,382		G	230	338	10450	

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2.875	10,275							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A) Wasatch	9,291	12,400	9,265	12,368
(B)				
(C)				
(D)				

27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)		SIZE	NO. HOLES	PERFORATION STATUS	
12,015	12,267	.43	57	Open ☑	Squeezed ☐
11,693	11,973	.43	66	Open ☑	Squeezed ☐
11,369	11,659	.43	69	Open ☑	Squeezed ☐
11,043	11,342	.43	69	Open ☑	Squeezed ☐

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC. See attached for further information on #27 & #28.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
12015-12267	5000 gal 15% HCL acid, 3000# 100 mesh, 150150# 30/50 PowerProp
11693-11973	5000 gal 15% HCL acid, 3000# 100 mesh, 150420# 30/50 PowerProp
11369-11659	5000 gal 15% HCL acid, 3000# 100 mesh, 150390# 30/50 PowerProp

29. ENCLOSED ATTACHMENTS: All logs are submitted to UDOGM by vendor.

☐ ELECTRICAL/MECHANICAL LOGS ☐ GEOLOGIC REPORT ☐ DST REPORT ☐ DIRECTIONAL SURVEY
☐ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION ☐ CORE ANALYSIS ☐ OTHER:

30. WELL STATUS: Prod

(5/2000)

(CONTINUED ON BACK)

RECEIVED: Jan. 08, 2015

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:
12/13/2014	12/16/2014	24		206	180	171	FL

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:
14	888	0	43.50	130	1		206	180	171	Prod

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.)

Sold

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.

34. FORMATION (Log) MARKERS:

Name	Top (Measured Depth)
Upper Green River	4,641
Middle Green River	6,367
Lower Green River	7,749
Wasatch	9,291

35. ADDITIONAL REMARKS (Include plugging procedure)

Had 4 additional cement jobs on surface casing with a total of 6.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) Maria S. Gomez TITLE Principal Regulatory Analyst

SIGNATURE Maria S. Gomez Digitally signed by Maria Gomez DN: cn=Maria Gomez, o=EP Energy, ou=Regulatory, email=maria.gomez@epenergy.com, c=US Date: 2015.01.08 17:03:48 -06'00' DATE 1/8/2015

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

(5/2000)

RECEIVED: Jan. 08, 2015

Attachment to Well Completion Report

Form 8 Dated January 8, 2015

Well Name: DWR 4-32B5

Items #27 and #28 Continued

27. Perforation Record

Interval (Top/Bottom – MD)	Size	No. of Holes	Perf. Status
10719'-11013'	.43	69	Open
10449'-10676'	.43	63	Open

28. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
11043'-11342'	5000 gal acid, 3000# 100 mesh, 150900# 30/50 PowerProp
10719'-11013'	5000 gal acid, 3000# 100 mesh, 147260# 30/50 PowerProp
10449'-10676'	5000 gal acid, 3000# 100 mesh, 150900# 30/50 THS

RECEIVED: Jan. 08, 2015

EP ENERGY

Company:	EP Energy	**Job Number:**		**Calculation Method**	Minimum Curvature
Well:	DWR 4-32B5	**Mag Decl.:**		**Proposed Azimuth**	0.00
Location:	Duchesne, UT	**Dir Driller:**		**Depth Reference**	KB
Rig:	Precision 404	**MWD Eng:**		**Tie Into:**	Gyro/MWD

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates N/S (ft)		Coordinates E/W (ft)		Closure Distance (ft)	Closure Direction Azimuth	Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
Tie In	**0.00**	**0.00**	**0.00**												
1	100.00	0.25	176.67	100.00	100.00	-0.22	0.22	S	0.01	E	0.22	176.67	0.25	0.25	176.67
2	200.00	0.41	53.66	100.00	200.00	-0.23	0.23	S	0.32	E	0.39	126.05	0.59	0.16	-123.01
3	300.00	0.61	55.33	100.00	299.99	0.29	0.29	N	1.05	E	1.08	74.59	0.20	0.20	1.67
4	400.00	0.52	16.79	100.00	399.99	1.03	1.03	N	1.62	E	1.92	57.59	0.38	-0.10	-38.54
5	500.00	0.08	249.18	100.00	499.99	1.44	1.44	N	1.68	E	2.21	49.55	0.57	-0.44	232.39
6	600.00	0.29	232.42	100.00	599.99	1.26	1.26	N	1.42	E	1.90	48.48	0.21	0.21	-16.76
7	700.00	0.34	222.69	100.00	699.99	0.89	0.89	N	1.02	E	1.36	49.04	0.08	0.06	-9.73
8	800.00	0.10	253.41	100.00	799.99	0.65	0.65	N	0.74	E	0.98	48.91	0.26	-0.24	30.72
9	900.00	0.29	98.20	100.00	899.99	0.59	0.59	N	0.91	E	1.08	57.17	0.38	0.19	-155.20
10	1000.00	0.34	162.17	100.00	999.98	0.26	0.26	N	1.25	E	1.27	78.08	0.34	0.06	63.97
11	1100.00	0.20	216.29	100.00	1099.98	-0.16	0.16	S	1.24	E	1.25	97.55	0.28	-0.14	54.12
12	1200.00	0.33	272.08	100.00	1199.98	-0.29	0.29	S	0.85	E	0.90	109.20	0.27	0.13	55.79
13	1300.00	0.06	14.74	100.00	1299.98	-0.24	0.24	S	0.57	E	0.62	112.30	0.34	-0.27	-257.34
14	1400.00	0.32	173.51	100.00	1399.98	-0.47	0.47	S	0.62	E	0.78	127.01	0.38	0.27	158.77
15	1500.00	0.32	251.26	100.00	1499.98	-0.84	0.84	S	0.39	E	0.92	154.99	0.40	-0.01	77.75
16	1600.00	0.18	304.69	100.00	1599.98	-0.83	0.83	S	0.00	W	0.83	180.19	0.25	-0.13	53.44
17	1700.00	0.33	202.55	100.00	1699.98	-1.01	1.01	S	0.24	W	1.04	193.62	0.41	0.15	-102.15
18	1800.00	0.76	223.55	100.00	1799.97	-1.75	1.75	S	0.81	W	1.93	204.84	0.47	0.43	21.01
19	1900.00	0.93	243.90	100.00	1899.96	-2.59	2.59	S	2.00	W	3.27	217.64	0.34	0.17	20.35
20	2000.00	1.27	232.13	100.00	1999.94	-3.63	3.63	S	3.60	W	5.11	224.79	0.41	0.34	-11.77
21	2100.00	1.58	228.06	100.00	2099.91	-5.23	5.23	S	5.50	W	7.59	226.46	0.32	0.31	-4.07
22	2200.00	1.42	242.66	100.00	2199.88	-6.72	6.72	S	7.63	W	10.17	228.63	0.41	-0.15	14.60
23	2300.00	1.52	231.74	100.00	2299.85	-8.11	8.11	S	9.78	W	12.70	230.31	0.30	0.09	-10.92
24	2400.00	2.19	230.90	100.00	2399.79	-10.14	10.14	S	12.30	W	15.94	230.50	0.67	0.67	-0.84
25	2500.00	2.06	233.82	100.00	2499.73	-12.41	12.41	S	15.23	W	19.65	230.84	0.17	-0.13	2.92
26	2600.00	2.24	215.04	100.00	2599.66	-15.07	15.07	S	17.81	W	23.33	229.76	0.72	0.18	-18.78
27	2700.00	2.39	210.82	100.00	2699.57	-18.46	18.46	S	20.00	W	27.22	227.29	0.23	0.15	-4.22
28	2800.00	2.14	204.31	100.00	2799.50	-21.95	21.95	S	21.84	W	30.96	224.85	0.36	-0.26	-6.51
29	2900.00	2.25	211.87	100.00	2899.42	-25.32	25.32	S	23.64	W	34.64	223.04	0.31	0.12	7.56
30	3000.00	2.34	198.94	100.00	2999.34	-28.92	28.92	S	25.34	W	38.45	221.23	0.52	0.08	-12.93
31	3100.00	2.31	188.40	100.00	3099.26	-32.84	32.84	S	26.30	W	42.07	218.69	0.43	-0.02	-10.54
32	3200.00	3.12	178.28	100.00	3199.15	-37.55	37.55	S	26.51	W	45.97	215.22	0.93	0.80	-10.12
33	3249.00	2.91	177.92	49.00	3248.08	-40.12	40.12	S	26.42	W	48.04	213.37	0.43	-0.43	-0.73
34	3408.00	3.02	212.22	159.00	3406.88	-47.69	47.69	S	28.51	W	55.57	210.87	1.10	0.07	21.57
35	3501.00	3.14	206.77	93.00	3499.75	-52.04	52.04	S	30.96	W	60.56	210.75	0.34	0.13	-5.86

Sundry Number: 59735 API Well Number: 43013530410000

EP ENERGY

Company:	EP Energy	**Job Number:**	
Well:	DWR 4-32B5	**Mag Decl.:**	
Location:	Duchesne, UT	**Dir Driller:**	
Rig:	Precision 404	**MWD Eng:**	

Calculation Method	Minimum Curvature
Proposed Azimuth	0.00
Depth Reference	KB
Tie Into:	Gyro/MWD

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates N/S (ft)		Coordinates E/W (ft)		Closure Distance (ft)	Closure Direction Azimuth	Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
36	3594.00	4.14	225.07	93.00	3592.56	-56.69	56.69	S	34.49	W	66.35	211.32	1.64	1.08	19.68
37	3687.00	4.52	227.25	93.00	3685.30	-61.54	61.54	S	39.56	W	73.16	212.73	0.45	0.41	2.34
38	3780.00	5.81	246.12	93.00	3777.92	-65.94	65.94	S	46.55	W	80.71	215.22	2.28	1.39	20.29
39	3873.00	5.93	244.04	93.00	3870.44	-69.95	69.95	S	55.18	W	89.09	218.27	0.26	0.13	-2.24
40	3966.00	7.64	239.83	93.00	3962.78	-75.16	75.16	S	64.84	W	99.26	220.79	1.91	1.84	-4.53
41	4058.00	9.95	234.20	92.00	4053.69	-82.88	82.88	S	76.58	W	112.84	222.74	2.68	2.51	-6.12
42	4152.00	9.67	232.55	94.00	4146.32	-92.43	92.43	S	89.43	W	128.61	224.05	0.42	-0.30	-1.76
43	4245.00	8.61	230.20	93.00	4238.14	-101.64	101.64	S	100.98	W	143.27	224.81	1.21	-1.14	-2.53
44	4338.00	7.42	224.93	93.00	4330.23	-110.35	110.35	S	110.57	W	156.21	225.06	1.50	-1.28	-5.67
45	4431.00	7.87	219.61	93.00	4422.40	-119.50	119.50	S	118.87	W	168.56	224.85	0.90	0.48	-5.72
46	4524.00	9.39	219.12	93.00	4514.35	-130.29	130.29	S	127.72	W	182.45	224.43	1.64	1.63	-0.53
47	4617.00	8.63	223.53	93.00	4606.20	-141.24	141.24	S	137.31	W	196.98	224.19	1.10	-0.82	4.74
48	4710.00	8.44	227.90	93.00	4698.17	-150.87	150.87	S	147.18	W	210.77	224.29	0.73	-0.20	4.70
49	4803.00	8.69	230.66	93.00	4790.14	-159.90	159.90	S	157.68	W	224.57	224.60	0.52	0.27	2.97
50	4896.00	8.89	233.93	93.00	4882.04	-168.59	168.59	S	168.92	W	238.65	225.06	0.58	0.22	3.52
51	4990.00	7.99	231.41	94.00	4975.03	-176.94	176.94	S	179.90	W	252.33	225.47	1.03	-0.96	-2.68
52	5083.00	7.74	229.92	93.00	5067.15	-185.00	185.00	S	189.74	W	265.00	225.72	0.35	-0.27	-1.60
53	5176.00	7.11	225.38	93.00	5159.37	-193.08	193.08	S	198.63	W	277.01	225.81	0.93	-0.68	-4.88
54	5269.00	6.10	222.24	93.00	5251.75	-200.78	200.78	S	206.05	W	287.69	225.74	1.15	-1.09	-3.38
55	5362.00	6.13	222.24	93.00	5344.22	-208.11	208.11	S	212.71	W	297.58	225.63	0.03	0.03	0.00
56	5456.00	6.92	232.32	94.00	5437.62	-215.29	215.29	S	220.56	W	308.22	225.69	1.48	0.84	10.72
57	5549.00	6.45	229.46	93.00	5529.98	-222.11	222.11	S	228.97	W	319.00	225.87	0.62	-0.51	-3.08
58	5642.00	6.27	231.32	93.00	5622.41	-228.68	228.68	S	236.90	W	329.27	226.01	0.29	-0.19	2.00
59	5735.00	5.52	228.62	93.00	5714.92	-234.81	234.81	S	244.22	W	338.79	226.13	0.86	-0.81	-2.90
60	5828.00	4.19	232.18	93.00	5807.58	-239.85	239.85	S	250.26	W	346.64	226.22	1.47	-1.43	3.83
61	5921.00	3.19	224.45	93.00	5900.39	-243.78	243.78	S	254.76	W	352.61	226.26	1.20	-1.08	-8.31
62	6014.00	3.15	218.75	93.00	5993.25	-247.62	247.62	S	258.17	W	357.73	226.19	0.34	-0.04	-6.13
63	6107.00	3.03	217.54	93.00	6086.11	-251.56	251.56	S	261.27	W	362.69	226.08	0.15	-0.13	-1.30
64	6201.00	3.06	212.95	94.00	6179.98	-255.64	255.64	S	264.15	W	367.59	225.94	0.26	0.03	-4.88
65	6294.00	3.27	207.70	93.00	6272.84	-260.07	260.07	S	266.73	W	372.53	225.72	0.38	0.23	-5.65
66	6387.00	3.45	208.24	93.00	6365.68	-264.88	264.88	S	269.29	W	377.73	225.47	0.20	0.19	0.58
67	6480.00	3.53	230.09	93.00	6458.51	-269.19	269.19	S	272.81	W	383.25	225.38	1.42	0.09	23.49
68	6574.00	3.80	224.35	94.00	6552.32	-273.27	273.27	S	277.20	W	389.25	225.41	0.48	0.29	-6.11
69	6666.00	2.94	233.53	92.00	6644.16	-276.85	276.85	S	281.23	W	394.64	225.45	1.10	-0.93	9.98
70	6760.00	2.93	229.54	94.00	6738.04	-279.84	279.84	S	285.00	W	399.42	225.52	0.22	-0.01	-4.24
71	6853.00	3.28	225.32	93.00	6830.90	-283.26	283.26	S	288.70	W	404.45	225.55	0.45	0.38	-4.54
72	6946.00	3.15	227.99	93.00	6923.75	-286.84	286.84	S	292.49	W	409.67	225.56	0.21	-0.14	2.87

Sundry Number: 59735 API Well Number: 43013530410000

EP ENERGY

Company:	EP Energy	**Job Number:**		**Calculation Method**	Minimum Curvature
Well:	DWR 4-32B5	**Mag Decl.:**		**Proposed Azimuth**	0.00
Location:	Duchesne, UT	**Dir Driller:**		**Depth Reference**	KB
Rig:	Precision 404	**MWD Eng:**		**Tie Into:**	Gyro/MWD

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates N/S (ft)		Coordinates E/W (ft)		Closure Distance (ft)	Closure Direction Azimuth	Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
73	7039.00	3.11	245.29	93.00	7016.62	-289.60	289.60	S	296.68	W	414.59	225.69	1.01	-0.04	18.60
74	7132.00	3.15	257.11	93.00	7109.48	-291.23	291.23	S	301.46	W	419.16	225.99	0.69	0.04	12.71
75	7222.00	3.58	248.33	90.00	7199.32	-292.82	292.82	S	306.48	W	423.88	226.31	0.74	0.48	-9.76
76	7318.00	3.32	239.47	96.00	7295.15	-295.34	295.34	S	311.66	W	429.37	226.54	0.62	-0.27	-9.23
77	7412.00	2.40	245.13	94.00	7389.03	-297.55	297.55	S	315.79	W	433.89	226.70	1.02	-0.98	6.02
78	7505.00	2.55	249.45	93.00	7481.95	-299.09	299.09	S	319.50	W	437.65	226.89	0.26	0.16	4.65
79	7598.00	2.88	233.36	93.00	7574.84	-301.21	301.21	S	323.31	W	441.88	227.03	0.89	0.35	-17.30
80	7691.00	3.11	219.57	93.00	7667.72	-304.55	304.55	S	326.79	W	446.70	227.02	0.81	0.25	-14.83
81	7784.00	3.41	212.24	93.00	7760.57	-308.83	308.83	S	329.87	W	451.88	226.89	0.55	0.32	-7.88
82	7877.00	3.56	202.59	93.00	7853.40	-313.84	313.84	S	332.46	W	457.19	226.65	0.65	0.16	-10.38
83	7970.00	3.21	219.82	93.00	7946.24	-318.51	318.51	S	335.24	W	462.42	226.47	1.15	-0.38	18.53
84	8063.00	3.37	221.59	93.00	8039.08	-322.55	322.55	S	338.72	W	467.73	226.40	0.20	0.17	1.90
85	8156.00	3.76	220.95	93.00	8131.90	-326.90	326.90	S	342.53	W	473.49	226.34	0.42	0.42	-0.69
86	8250.00	3.85	218.69	94.00	8225.70	-331.69	331.69	S	346.52	W	479.68	226.25	0.19	0.10	-2.40
87	8343.00	3.39	214.76	93.00	8318.51	-336.38	336.38	S	350.04	W	485.47	226.14	0.56	-0.49	-4.23
88	8436.00	3.29	218.11	93.00	8411.35	-340.74	340.74	S	353.26	W	490.81	226.03	0.24	-0.11	3.60
89	8529.00	3.36	218.84	93.00	8504.19	-344.97	344.97	S	356.61	W	496.16	225.95	0.09	0.08	0.78
90	8622.00	3.46	212.62	93.00	8597.03	-349.45	349.45	S	359.84	W	501.60	225.84	0.41	0.11	-6.69
91	8715.00	3.56	212.58	93.00	8689.86	-354.25	354.25	S	362.90	W	507.14	225.69	0.11	0.11	-0.04
92	8809.00	3.55	209.02	94.00	8783.68	-359.25	359.25	S	365.89	W	512.77	225.52	0.24	-0.01	-3.79
93	8902.00	3.64	212.13	93.00	8876.49	-364.27	364.27	S	368.85	W	518.41	225.36	0.23	0.10	3.34
94	8995.00	3.80	208.56	93.00	8969.30	-369.48	369.48	S	371.90	W	524.23	225.19	0.30	0.17	-3.84
95	9088.00	4.21	208.64	93.00	9062.07	-375.18	375.18	S	375.01	W	530.46	224.99	0.44	0.44	0.09
96	9181.00	3.15	198.04	93.00	9154.88	-380.61	380.61	S	377.43	W	536.02	224.76	1.35	-1.14	-11.40
97	9211.00	3.02	197.10	30.00	9184.83	-382.15	382.15	S	377.92	W	537.46	224.68	0.46	-0.43	-3.13
98	9300.00	3.29	198.04	89.00	9273.70	-386.82	386.82	S	379.40	W	541.82	224.45	0.31	0.30	1.06
99	9400.00	3.78	197.71	100.00	9373.51	-392.68	392.68	S	381.29	W	547.34	224.16	0.49	0.49	-0.33
100	9500.00	3.27	201.64	100.00	9473.32	-398.47	398.47	S	383.35	W	552.93	223.89	0.56	-0.50	3.94
101	9600.00	3.78	205.80	100.00	9573.13	-404.09	404.09	S	385.83	W	558.71	223.68	0.56	0.50	4.16
102	9700.00	3.26	209.23	100.00	9672.94	-409.53	409.53	S	388.65	W	564.60	223.50	0.56	-0.52	3.43
103	9800.00	3.47	203.87	100.00	9772.77	-414.78	414.78	S	391.26	W	570.20	223.33	0.38	0.21	-5.36
104	9900.00	3.70	202.10	100.00	9872.57	-420.53	420.53	S	393.70	W	576.06	223.11	0.26	0.23	-1.77
105	10000.00	3.91	197.50	100.00	9972.35	-426.77	426.77	S	395.94	W	582.16	222.85	0.37	0.22	-4.60
106	10100.00	3.78	193.92	100.00	10072.13	-433.23	433.23	S	397.76	W	588.14	222.56	0.27	-0.13	-3.57
107	10200.00	4.25	196.66	100.00	10171.88	-439.98	439.98	S	399.62	W	594.37	222.25	0.50	0.46	2.73
108	10300.00	3.98	199.40	100.00	10271.62	-446.81	446.81	S	401.83	W	600.92	221.97	0.33	-0.27	2.75
109	10400.00	3.17	197.51	100.00	10371.43	-452.71	452.71	S	403.82	W	606.64	221.73	0.82	-0.81	-1.89

Sundry Number: 59735 API Well Number: 43013530410000

EP ENERGY

Company:	EP Energy	**Job Number:**		**Calculation Method**	Minimum Curvature
Well:	DWR 4-32B5	**Mag Decl.:**		**Proposed Azimuth**	0.00
Location:	Duchesne, UT	**Dir Driller:**		**Depth Reference**	KB
Rig:	Precision 404	**MWD Eng:**		**Tie Into:**	Gyro/MWD

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates N/S (ft)		Coordinates E/W (ft)		Closure Distance (ft)	Closure Direction Azimuth	Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
110	10500.00	3.31	193.71	100.00	10471.27	-458.15	458.15	S	405.33	W	611.71	221.50	0.25	0.14	-3.81
111	10600.00	3.20	198.52	100.00	10571.11	-463.59	463.59	S	406.90	W	616.84	221.27	0.29	-0.11	4.81
112	10700.00	3.25	202.31	100.00	10670.95	-468.86	468.86	S	408.86	W	622.09	221.09	0.22	0.05	3.79
113	10800.00	3.09	204.92	100.00	10770.80	-473.93	473.93	S	411.07	W	627.37	220.94	0.21	-0.16	2.61
114	10900.00	3.14	201.23	100.00	10870.65	-478.93	478.93	S	413.20	W	632.54	220.79	0.21	0.04	-3.69
115	11000.00	2.78	196.72	100.00	10970.52	-483.80	483.80	S	414.89	W	637.33	220.62	0.43	-0.36	-4.51
116	11100.00	2.74	200.84	100.00	11070.40	-488.35	488.35	S	416.43	W	641.79	220.46	0.20	-0.04	4.12
117	11200.00	2.48	193.53	100.00	11170.30	-492.69	492.69	S	417.79	W	645.98	220.30	0.42	-0.26	-7.30
118	11300.00	2.63	191.01	100.00	11270.20	-497.04	497.04	S	418.73	W	649.92	220.11	0.19	0.15	-2.52
119	11400.00	2.79	175.67	100.00	11370.09	-501.73	501.73	S	418.99	W	653.67	219.87	0.74	0.16	-15.35
120	11500.00	3.01	176.03	100.00	11469.96	-506.77	506.77	S	418.62	W	657.31	219.56	0.21	0.21	0.36
121	11600.00	2.96	175.83	100.00	11569.82	-511.96	511.96	S	418.25	W	661.09	219.25	0.05	-0.05	-0.20
122	11700.00	3.12	177.48	100.00	11669.68	-517.24	517.24	S	417.95	W	665.00	218.94	0.18	0.16	1.65
123	11800.00	3.39	179.31	100.00	11769.52	-522.91	522.91	S	417.79	W	669.32	218.62	0.29	0.27	1.83
124	11900.00	3.45	179.28	100.00	11869.34	-528.88	528.88	S	417.72	W	673.94	218.30	0.06	0.06	-0.02
125	12000.00	3.40	176.32	100.00	11969.17	-534.84	534.84	S	417.49	W	678.49	217.98	0.18	-0.05	-2.96
126	12100.00	3.16	185.38	100.00	12069.00	-540.55	540.55	S	417.56	W	683.04	217.69	0.57	-0.24	9.06
127	12200.00	3.19	182.96	100.00	12168.85	-546.08	546.08	S	417.96	W	687.67	217.43	0.14	0.03	-2.42
128	12272.00	3.51	178.84	72.00	12240.73	-550.28	550.28	S	418.02	W	691.05	217.22	0.55	0.44	-5.71
129	12400.00	3.51	178.84	128.00	12368.49	-558.11	558.11	S	417.86	W	697.20	216.82	0.00	0.00	0.00
130															
131															
132															
133															
134															
135															
136															
137															

Sundry Number: 59735 API Well Number: 43013530410000

CENTRAL DIVISION

ALTAMONT FIELD
DWR 4-32B5
DWR 4-32B5
DRILLING LAND

Operation Summary Report

Disclaimer: Although the information contained in this report is based on sound engineering practices, the copyright owner (s) does (do) not accept any responsibility whatsoever, in negligence or otherwise, for any loss or damage arising from the possession or use of the report whether in terms of correctness or otherwise. The application, therefore, by the user of this report or any part thereof, is solely at the user's own risk.

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1 General

1.1 Customer Information

Company	CENTRAL DIVISION
Representative	
Address	

1.2 Well Information

Well	DWR 4-32B5		
Project	ALTAMONT FIELD	**Site**	DWR 4-32B5
Rig Name/No.	PRECISION DRILLING/404	**Event**	DRILLING LAND
Start date	10/22/2014	**End date**	11/27/2014
Spud Date/Time	10/22/2014	**UWI**	DWR 4-32B5
Active datum	KB @6,130.9ft (above Mean Sea Level)		
Afe No./Description	160242/52466 / DWR 4-32B5		

2 Summary

2.1 Operation Summary

Date	Time Start-End		Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
10/19/2014	6:00	6:00	0.00	CASCOND	25		P	815.0	INSTALLED 40' OF CONDUCTOR (24" HOLE) 80' OF 24" HOLE. SET 14" MOUSE HOLE,GROUTED BOTH. DRILLED PRE SET TO 815.00'GL. RAN AND CEMENTED 15 JOINTS (802.08') OF 13-3/8" 54.5# J-55 STC CASING. SHOE AT 802.08 GL. CEMENT WITH 900 SACKS CLASS G, 15.8 PPG 1.15 YIELD, 5 GALLONS PER SACK WATER, 1/4# / SK. FLOCELLE WITH 2% CA/CL. BUMPED PLUG, FLOATS HELD. 60 BBLS OF GOOD CEMENT BACK TO SURFACE. CEMENT DID NOT FALL BACK.
10/20/2014	6:00	6:00	24.00	MIRU	01		P	802.0	MOVE AND RIG UP. 100% RIGGED DOWN, 80% MOVED.
10/21/2014	6:00	6:00	24.00	MIRU	01		P	815.0	MOVE AND RIG UP. 100% MOVED. 25% RIGGED UP
10/22/2014	6:00	3:00	21.00	MIRU	01		P	815.0	RIG UP RAISE DERRICK, PICK UP AND RIG UP TOP DRIVE. ON COMPANY TIME @ 0300 10/22/2014.
	3:00	5:00	2.00	MIRU	42		P	815.0	NU ROTATING HEAD AND FLOW LINE.
	5:00	6:00	1.00	DRLSURF	30		P	815.0	RIG UP AND TEST DIVERTER.
10/23/2014	6:00	11:00	5.00	DRLSURF	30		P	815.0	PRESURE TEST DIVERTER STACK
	11:00	15:00	4.00	DRLSURF	42		P	815.0	STRAP AND CALIPER DC'S, RU FLOOR. HOOK UP FLOWLINE TO GAS BUSTER, BUSTED UNION.
	15:00	19:00	4.00	DRLSURF	13		P	815.0	PICK UP BHA
	19:00	20:00	1.00	DRLSURF	15		P	815.0	CIRCULATE, INSTALL ROTATING HEAD RUBBER.
	20:00	21:00	1.00	DRLSURF	31		P	815.0	TEST CASING TO 1,000 PSI. 30 MINS OK.
	21:00	22:00	1.00	DRLSURF	72		P	815.0	DRILL CEMENT & FLOAT EQUIPMENT.
	22:00	1:00	3.00	DRLSURF	07		P	815.0	DRILL F/ 815' TO 1045'. SPUD WELL @ 22:00 HRS 10/22/14.
	1:00	2:00	1.00	DRLSURF	11		P	1,045.0	CIRC HOLE CLEAN & RUN WIRE LINE SURVEY @ 1015'. INC. .04
	2:00	4:00	2.00	DRLSURF	07		P	1,045.0	DRILL FROM 1045' TO 1528'.
10/24/2014	6:00	11:00	5.00	DRLSURF	07		P	2,079.0	DRILLING FROM 1528' TO 2079'
	11:00	12:00	1.00	DRLSURF	11		P	2,079.0	WIRELINE SURVEY AT 2045'. 1.3 DEGREES
	12:00	22:00	10.00	DRLSURF	07		P	2,079.0	DRILLING FROM 2079' TO 2634'.
	22:00	23:00	1.00	DRLSURF	15		P	2,634.0	CIRC BOTTOM UP & PUMP SLUG.
	23:00	2:30	3.50	DRLSURF	13		P	2,634.0	TRIP OUT OF HOLE FOR BIT.
	2:30	4:00	1.50	DRLSURF	13		P	2,634.0	CHANGE OUT BIT & MUD MOTOR.
	4:00	6:00	2.00	DRLSURF	13		P	2,634.0	TRIP IN HOLE.
10/25/2014	6:00	7:00	1.00	DRLSURF	13		P	2,634.0	TIH WITH BIT #2.

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2.1 Operation Summary (Continued)

Date	Time Start-End		Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	7:00	8:00	1.00	DRLSURF	07		P	2,634.0	DRILLING FROM 2634' TO 2680'.
	8:00	9:00	1.00	DRLSURF	52		N	2,680.0	LOST FULL RETURNS. LOST 150 BBLS. MIX MUD AND LCM.
	9:00	11:00	2.00	DRLSURF	07		P	2,680.0	DRILLING FROM 2680' TO 2781'.
	11:00	12:30	1.50	DRLSURF	52		N	2,781.0	LOST FULL RETURNS, MIXING LCM PILL. LOST APP. 200 BBLS.
	12:30	13:30	1.00	DRLSURF	07		P	2,781.0	DRILLING FROM 2781' TO 2814', NO RETURNS, 30% LCM. LOST 180 BBLS.
	13:30	16:30	3.00	DRLSURF	52		N	2,814.0	SPOT 40# / BBL LCM PILL ON BOTTOM. (NO RETURNS) LOST 80 BBLS. BUILD VOLUME IN ACTIVE SYSTEM.
	16:30	17:00	0.50	DRLSURF	07		P	2,814.0	DRILLING FROM 2814' TO 2836'. NO RETURNS. LOST 450 BBLS.
	17:00	21:00	4.00	DRLSURF	52		N	2,836.0	MIXING MUD AND LCM.
	21:00	21:30	0.50	DRLSURF	07		P	2,836.0	DRILLING FROM 2836' TO 2847'. PARTIAL RETURNS LOST 350 BBLS.
	21:30	23:00	1.50	DRLSURF	52		N	2,847.0	MIXING MUD AND LCM. SPOT 50 BBLS LCM PILL ON BOTTOM.
	23:00	23:30	0.50	DRLSURF	07		P	2,847.0	DRILLING FROM 2847' TO 2861'. PARTIAL RETURNS LOST 400 BBLS.
	23:30	1:00	1.50	DRLSURF	52		N	2,861.0	MIXING MUD AND LCM. SPOT 50 BBLS LCM PILL ON BOTTOM.
	1:00	1:30	0.50	DRLSURF	07		P	2,861.0	DRILLING FROM 2861' TO 2870' PARTIAL RETURNS LOST 300 BBLS.
	1:30	5:30	4.00	DRLSURF	52		N	2,870.0	MIXING MUD AND LCM.
	5:30	6:00	0.50	DRLSURF	07		P	2,870.0	DRILLING FROM 2870' TO 2879'. PARTIAL RETURNS, LOST 300 BBLS
10/26/2014	6:00	8:00	2.00	DRLSURF	52		N	2,879.0	MIXING MUD AND LCM.
	8:00	10:00	2.00	DRLSURF	52		N	2,879.0	PUMP 40% LCM AT 30 SPM, NO RETURNS. LOST 260 BBLS.
	10:00	10:30	0.50	DRLSURF	13		P	2,879.0	PULL 3 STANDS OF DP TO 2600'.
	10:30	12:00	1.50	DRLSURF	52		P	2,879.0	FILL ANNULUS, TOOK 23.5 BBLS TO FILL. MONITOR LOSSES. FIRST 20 MINUTES, TOOK 17 BBLS.
	12:00	12:30	0.50	DRLSURF	52		N	2,879.0	PUMPED 40 BBL LCM PILL (55 VISC., 50% LCM) DISPLACED DP. LOST 90 BBLS.
	12:30	20:00	7.50	DRLSURF	52		N	2,879.0	MIX MUD AND LCM, BUILD VOLUME. MONITOR LOSSES WITH TRIP TANK. HOLE TOOK 250 BBLS, SPOT 40 BBLS 50% LCM PILL.
	20:00	0:30	4.50	DRLSURF	13		P	2,879.0	PULL OUT OF HOLE BREAK OUT BIT,LAY DOWN MUD MOTOR.
	0:30	1:30	1.00	DRLSURF	52		N	2,879.0	TRIP IN HOLE OPEN ENDED TO CASING SHOE.
	1:30	6:00	4.50	DRLSURF	52		N	2,879.0	MONITOR WELL.
10/27/2014	6:00	17:30	11.50	DRLSURF	42		N	2,879.0	MONITOR WELL, WAIT ON CEMENTERS. TIH AND TAG AT 2880'. PULL 6 STANDS TO 2330'. PUMPED 250 BBLS. OF DRILLING MUD AND 140 BBLS OF FRESH WATER DOWN ANNULUS, FILLED HOLE. CIRCULATED DRILLING MUD DOWN DRILL PIPE AND DISPLACED FRESH WATER. CIRCULATED AT A RATE OF 17.5 BBLS/MIN. FOR 15 MINUTES, TOTAL LOSSES 111 BBLS.
	17:30	19:00	1.50	DRLSURF	52		N	2,879.0	PJSM RIG UP HALLIBURTON CEMENTERS.
	19:00	21:00	2.00	DRLSURF	38		N	2,879.0	MIX AND PUMP 500 SKS OF CLASS G NEAT @ 15.8 PPG 1.15 YIELD 5 GAL H2O PER SK W/ 1% CA/CL.
	21:00	22:00	1.00	DRLSURF	13		N	2,879.0	TRIP OUT OF HOLE.
	22:00	1:30	3.50	DRLSURF	52		N	2,879.0	WAITING ON CEMENT.
	1:30	2:00	0.50	DRLSURF	52		N	2,879.0	FILL HOLE WITH 60 BBLS OF MUD AND MONITOR SAME.
	2:00	3:30	1.50	DRLSURF	13		N	2,879.0	TRIP IN HOLE OPEN ENDED TO 2330'.
	3:30	4:00	0.50	DRLSURF	15		N	2,879.0	CIRC. & MONITOR LOSSES. TOTAL LOSSES ZERO.
	4:00	5:00	1.00	DRLSURF	13		N	2,879.0	PULL OUT OF HOLE FOR DRILLING ASSEMBLY.
	5:00	6:00	1.00	DRLSURF	13		P	2,879.0	PICK MUD MOTOR & BIT.
10/28/2014	6:00	7:30	1.50	DRLSURF	13		P	2,879.0	TIH to 2230'
	7:30	12:00	4.50	DRLSURF	42		P	2,879.0	DRILLING GOOD CEMENT FROM 2345'TO 2740'. NO CEMENT FROM 2740' TO 2879'. LOST FULL RETURNS AT 2780'. SPOTTED 50% LCM PILL.
	12:00	16:00	4.00	DRLSURF	13		P	2,879.0	TOH WITH DRILLING ASSEMBLY, LAY DOWN MUD MOTOR.

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2.1 Operation Summary (Continued)

Date	Time Start-End		Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	16:00	18:30	2.50	DRLSURF	52		N	2,879.0	TIH OPEN ENDED WITH DP
	18:30	19:00	0.50	DRLSURF	52		N	2,879.0	PJSM RIG UP HALLIBURTON CEMENTERS.
	19:00	21:00	2.00	DRLSURF	38		N	2,879.0	MIX AND PUMP 300 SKS OF TAIL @ 14.3 PPG 1.3 YIELD 5.91GAL H2O PER SK W/1% CA/CL. 350 SKS OF CLASS G NEAT @ 15.8 PPG 1.15 YIELD 5 GAL H2O PER SK W/ 1% CA/CL.
	21:00	22:30	1.50	DRLSURF	13		N	2,879.0	TRIP OUT OF HOLE. FOR DRILLING ASSBLY.
	22:30	23:30	1.00	DRLSURF	14		P	2,879.0	PICK MUD MOTOR # 2 & BIT # 2 .
	23:30	1:00	1.50	DRLSURF	13		P	2,879.0	TRIP IN HOLE WITH DRILLING ASSBLY TO 2145'.
	1:00	3:00	2.00	DRLSURF	42		P	2,879.0	WAIT ON CEMENT.
	3:00	3:30	0.50	DRLSURF	16		P	2,879.0	WASH & REAM FROM 2395' TO 2480'.
	3:30	5:30	2.00	DRLSURF	42		P	2,879.0	DRILLING CEMENT FROM 2480' TO 2879'. LOSSED RETURNS.
	5:30	6:00	0.50	DRLSURF	13		P	2,879.0	TRIP OUT OF HOLE TO 2500'.
10/29/2014	6:00	6:30	0.50	DRLSURF	52		N	2,879.0	PUMP 50% LCM PILL @ 2500', PARTIAL RETURNS.
	6:30	10:30	4.00	DRLSURF	13		P	2,879.0	TOH WITH DRILLING ASSEMBLY.
	10:30	12:00	1.50	DRLSURF	42		P	2,879.0	FILL HOLE FROM BACKSIDE. TOOK 33 BBLS TO FILL. CHANGE SAVER SUB.
	12:00	13:30	1.50	DRLSURF	52		N	2,879.0	TIH OPEN ENDED WITH DP TO 2700'.
	13:30	16:00	2.50	DRLSURF	38		N	2,879.0	PJSM WITH HALLIBURTON. PRESSURE TEST LINES TO 3500 PSI. PUMP 60 BBLS. FRESH WATER SPACER, 20 BBLS. OF 10% CACL, 5 BBLS. OF FRESH WATER SPACER, 20 BBLS. OF FLO-CHECK, 5 BBLS. OF WATER SPACER, AND 46 BBLS. (200 SKS. 14.3 PPG 1.3 YIELD 5.91 GALLONS / SK WATER) PREMIUM CEMENT. DISPLACED WITH 42.0 BBLS. OF 9.0 PPG DRILLING MUD.
	16:00	17:30	1.50	DRLSURF	13		N	2,879.0	TOH WITH DP. WELL FLOWING BACK THROUGH DP.
	17:30	19:30	2.00	DRLSURF	13		N	2,879.0	PICK UP BIT & MUD MOTOR TRIP IN HOLE.
	19:30	2:00	6.50	DRLSURF	52		N	2,879.0	WAITING ON CEMENT.
	2:00	3:30	1.50	DRLSURF	13		N	2,879.0	TRIP IN HOLE, TAGGED UPON FIRM CMT AT 2,655'.
	3:30	4:00	0.50	DRLSURF	72		N	2,879.0	CLEAN OUT CEMENT F. 2,655' / 2,879' (224').
	4:00	6:00	2.00	DRLSURF	07		P	2,879.0	DRILL F. 2,879' - 2,919'.
10/30/2014	6:00	8:30	2.50	DRLSURF	07		P	2,919.0	DRILL 2,919' - 2,976' LOST ALL RETURNS TO SURFACE.
	8:30	9:00	0.50	DRLSURF	52		N		SPOTTED (2) 10 BBL 50 % LCM PILLS ON BOTTOM AT 2,976' - NO RETURNS SEEN AT SURFACE.
	9:00	9:30	0.50	DRLSURF	13		P	2,976.0	PULLED F. 2,976' TO 2,421' NO HOLE DRAG SEEN PULLING UP HOLE.
	9:30	12:00	2.50	DRLSURF	52		N	2,976.0	RAISED LCM CONTENT FROM 25% TO 40 % IN ACTIVE - PUMPED DOWN DRILL PIPE WITH 83.8 BBLS, HAD RETURNS BACK TO SURFACE - HOLE TAKING EST OF 640 BBLS / HR.
	12:00	14:00	2.00	DRLSURF	52		N	2,976.0	TAKE ON 40 BBLS OF CLEAN MUD FROM STORAGE INTO HOWCO BLENDER TANK - ADDED 25# / BBL OF BARACARB 50, 8# / BBL OF COARSE WALNUT.
	14:00	15:00	1.00	DRLSURF	52		N	2,976.0	DIAMOND SEAL PILL #1 - HPJSM RIG, HOWCO - TRIP BACK TO BOTTOM WITH DRILL PIPE - R/U HOWCO LINE - PUMPED 3 BBLS WATER, TESTED PUMP AND LINES TO 3,500 PSI, OK - PUMPED 30 BBLS OF FRESH WATER, NOTE: DIAMOND SEAL 5.0 # / BBL ADDED JUST BEFORE PUMPING SAME, TOTAL 40 BBLS PUMPED, FOLLOWED BY 20 BBLS OF FRESH WATER, THEN 25 BBLS OF MUD, LCM PILL IN PLACE AT 15:00 HRS 10/29/14 - NOTE HAD NO RETURNS TO SURFACE WHILE PLACING LCM PILL!.
	15:00	15:30	0.50	DRLSURF	13		N	2,976.0	PULLED OUT OF PILL, PULLED BACK UP TO 2,419'.

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2.1 Operation Summary (Continued)

Date	Time Start-End		Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	15:30	18:30	3.00	DRLSURF	52		N	2,976.0	PUMPED 30 SPM (107 GPM) OVER TOP OF LCM PILL THRU DRILL PIPE - PUMPED A TOTAL OF 73 BBLS BEFORE GETTING RETURNS TO SURFACE, SHUT DOWN MONITOR BACK SIDE THRU TRIP TANK EVERY 30 MINUTES, HOLE TAKING 32 BBLS / HR - SHUT DOWN FILLING BACK SIDE.
	18:30	23:00	4.50	DRLSURF	52		N	2,976.0	REDUCED MUD WT IN ACTIVE F. 9.2 PPG TO 8.9 PPG - CIRCULATE AROUND SAME THRU BIT / SURFACE - INCREASED PUMP RATE FROM 300 GPM / 600 GPM TO CHECK FOR LOSSES - NO LOSSES!.
	23:00	23:30	0.50	DRLSURF	13		P	2,976.0	TRIP BACK INTO 2,976'.
	23:30	5:00	5.50	DRLSURF	07		P	2,976.0	DRILL FROM 2,976' TO 3,093' - LOSING 336 BBLS / HR.
	5:00	5:30	0.50	DRLSURF	52		N	3,093.0	MIXED AND SPOTTED (2) 10 BBL 50% LCM PILLS AT 3,093' - LOST ALL RETURNS TO SURFACE - LOST 375 BBLS.
	5:30	6:00	0.50	DRLSURF	52		N	3,093.0	PULLING UP HOLE TO 2,700'.
10/31/2014	6:00	6:30	0.50	DRLSURF	13		N	3,093.0	TRIP BACK UP HOLE TO 2,718'.
	6:30	8:30	2.00	DRLSURF	52		N	3,093.0	BUILD BACK ACTIVE SFC. MUD VOLUME - MONITOR HOLE FOR LOSES VOLUMES - BRING MUD PUMPS UP TO 600 GPM FOR 5 MINUTES, HOLE TAKING 396 BBLS / HR.
	8:30	10:00	1.50	DRLSURF	52		N	3,093.0	TAKE ON 50 BBLS OF 8.9 PPG MUD ONTO HOWCO BLENDER - MIXED 2.5 # / BBL OF N-SEAL, 1.5 / BBL OF BARALIFT - BLEND IN WELL.
	10:00	10:30	0.50	DRLSURF	52		N	3,093.0	HPJSM, HOWCO PRECISION DRLG - TRIP BACK INTO BTM AT 3,093' MD.
	10:30	11:00	0.50	DRLSURF	52		N	3,093.0	DIAMOND SEAL PILL # 2 - INSTALLED HOWCO LINE TO 4 1/2" DRILL PIPE - PUMPED 2 BBLS FRESH WATER AHEAD, TEST P&L TO 3,500 PSI - PUMPED DIAMOND SEAL LCM PILL, NOTE: 50 BBLS OF 7# / BBL DIAMOND SEAL MIXED JUST PRIOR TO PUMPING SAME - FOLLOWED BY 20 BBLS OF FRESH WATER, 27 BBLS OF 8.9 PPG MUD - LCM PILL IN PLACE AT 10:55 HRS 10/30/14 - DRILL PIPE FLOWED BACK AN EST OF 3 1/2 BBLS BEFORE EQUALIZING.
	11:00	11:30	0.50	DRLSURF	13		N	3,093.0	PULL ABOVE LCM PILL TO 2,715'.
	11:30	14:00	2.50	DRLSURF	52		N	3,093.0	CIRCUALTE DOWN DRILL PIPE WITH 125 GPM 60 PSI FOR 30 MINUTES - HAD RETURNS BACK TO SURFACE AFTER PUMPING 15.7 BBLS.
	14:00	15:00	1.00	DRLSURF	52		N	3,093.0	STAGE UP GPM WATCH FOR LOSSES, 500 GPM 914 PSI. NO LOSSES SEEN.
	15:00	15:30	0.50	DRLSURF	13		N	3,093.0	TRIP BACK TO BOTTOM AT 3,093'
	15:30	17:30	2.00	DRLSURF	07		P	3,093.0	DRILL 3,093' - 3,138' - SENT MULTIPLE 60% LCM SWEEPS WHILE DRILLING - LOSSES CONTINUED TO INCREASE, THEN LOST ALL RETURNS AT 3,138' MUD WT: 8.9 PPG VIS: 44 LCM: 41 %.
	17:30	19:30	2.00	DRLSURF	52		N	3,138.0	PULLED BACK UP HIGH 3,083', WORKED DRILL PIPE WHILE BUILD BACK MUD VOLUME - HOWCO MIXING DIAMOND SEAL LCM PILL.
	19:30	20:00	0.50	DRLSURF	52		N	3,138.0	DIAMOND SEAL PILL # 3 - INSTALLED HOWCO LINE TO 4 1/2" DRILL PIPE - PUMPED 2 BBLS FRESH WATER AHEAD, TEST P&L TO 3,500 PSI - PUMPED DIAMOND SEAL LCM PILL, NOTE: 50 BBLS OF 7# / BBL DIAMOND SEAL MIXED JUST PRIOR TO PUMPING SAME - FOLLOWED BY 20 BBLS OF FRESH WATER, 26 BBLS OF 8.9 PPG MUD - LCM PILL IN PLACE AT 20:41 HRS 10/30/14 - NO FLOW BACK!.
	20:00	20:30	0.50	DRLSURF	13		N	3,138.0	PULLED BACK UP TO 2,538' - NOTE: UNABLE TO BREAK CONNECTION, ADDED TWO MORE JOINTS TO MAKE A STAND, STOOD BACK SAME - BUILD BACK MUD VOLUME IN ACTIVE, PRE-MIX TANK.

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2.1 Operation Summary (Continued)

Date	Time Start-End		Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	20:30	23:00	2.50	DRLSURF	52		N	3,138.0	PUMPED 35 SPM (2.9 BPM) - PUMPED 42 BBLS AWAY, NO RETURNS SEEN BACK TO SURFACE, SHUT DOWN - HOWOC MIXING UP DIAMOND SEAL LCM PILL.
	23:00	23:30	0.50	DRLSURF	52		N	3,138.0	FILLED BACK SIDE ANNULUS WITH 38 BBLS (282 LN FT).
	23:30	0:30	1.00	DRLSURF	42		P	3,138.0	PUMPED (2) 10 BBL 60% LCM PILLS HAD NO RETURNS TO SURFACE, LOST 153 BBLS.
	0:30	1:30	1.00	DRLSURF	52		N	3,138.0	TRIP BACK IN FROM 2,538' TAGGED UP ON BRIDGE AT 3,080' WASHED DOWN TO 3,097'.
	1:30	2:00	0.50	DRLSURF	52		N	3,138.0	DIAMOND SEAL PILL # 4 - INSTALLED HOWCO LINE TO 4 1/2" DRILL PIPE - PUMPED 2 BBLS FRESH WATER AHEAD, TEST P&L TO 3,500 PSI - PUMPED ANOTHER 8 BBLS OF FRESH WATER AHEAD, PUMPED DIAMOND SEAL LCM PILL, NOTE: 50 BBLS OF 5.8 # / BBL DIAMOND SEAL MIXED JUST PRIOR TO PUMPING SAME - FOLLOWED BY 20 BBLS OF FRESH WATER, 26 BBLS OF 8.9 PPG MUD - LCM PILL IN PLACE AT 20:41 HRS 10/30/14 - NO FLOW BACK!.
	2:00	2:30	0.50	DRLSURF	13		N	3,138.0	PULLED BACK UP HOLE TO 2,724'.
	2:30	5:30	3.00	DRLSURF	52		N	3,138.0	WAIT ON LCM PILL TO SEAL - PUMPED 10 BBLS DOWN DP, NO RETURN SEEN BACK TO SURFACE - WAITED ANOTHER 30 MINUTES - PUMPED DOWN DRILL PIPE GETTING SOME PARTIAL RETURNS TO SURFACE.
	5:30	6:00	0.50	DRLSURF	13		P	3,138.0	TRIP INTO BOTTOM 3,138'.
11/1/2014	6:00	8:00	2.00	DRLSURF	07		P	3,138.0	DRILL 3,138' - 3,186' HOLE LOSING AN EST OF 355 BBLS /HR BEFORE LOSING ALL RETURNS TO SURFACE.
	8:00	8:30	0.50	DRLSURF	52		N	3,186.0	PULLED BACK UP HOLE TO 2,818' - WORK PIPE WHILE HOWCO BLENDS DIAMOND SEAL LCM PILL.
	8:30	11:00	2.50	DRLSURF	52		N	3,186.0	DIAMOND SEAL PILL # 5 - INSTALLED HOWCO LINE TO 4 1/2" DRILL PIPE - PUMPED 2 BBLS FRESH WATER AHEAD, TEST P&L TO 3,500 PSI - PUMPED ANOTHER 28 BBLS OF FRESH WATER AHEAD, PUMPED DIAMOND SEAL LCM PILL, NOTE: 50 BBLS OF 5.0 # / BBL DIAMOND SEAL MIXED JUST PRIOR TO PUMPING SAME - FOLLOWED BY 40 BBLS OF FRESH WATER, - LCM PILL IN PLACE AT 11:07 HRS 10/31/14 - NO CIRCULATION SEEN TO SURFACE DURING PUMPING LCM PILL!.
	11:00	11:30	0.50	DRLSURF	13		N	3,186.0	PULLED BACK UP HOLE 2,818' TO 2,447'.
	11:30	14:00	2.50	DRLSURF	52		N	3,186.0	WAIT ON LCM PILL TO SEAL.
	14:00	14:30	0.50	DRLSURF	52		N	3,186.0	ATTEMPTED TO FILL BACK SIDE ANNULUS WITH 31 BBLS, NO RETURNS - PUMPED DOWN DRILL PIPE WITH 70 BBLS BEFORE GETTING RETURNS BACK , FLUID LEVEL IN ANNULUS DOWN 749'.
	14:30	15:00	0.50	DRLSURF	13		P	3,186.0	TIH TO BTM 3,186'.
	15:00	22:00	7.00	DRLSURF	07		P	3,186.0	DRILL 3,186' - 3,351'.
	22:00	22:30	0.50	DRLSURF	56		N	3,351.0	PULLED 5' OFF BTM, HOLE PACKED OFF, POPPED POP OFF - RE-SET POP OFF - DP STUCK - DP STRING WT. 130 K - WORKED SAME, PULLED 100 K OVER - PULLED STRING FREE, STILL HIGH TORQUE.
	22:30	0:00	1.50	DRLSURF	15		P	3,351.0	CIRCULATE AROUND (3) 10 BBL HIGH VIS SWEEPS - NO INCREASE IN FORMATION SEEN BACK TO SURFACE - SURFACE TD 3,351' MD - LOST ALL RETURNS IN LAST 14 MINUTES OF CIRCULATION!.
	0:00	2:30	2.50	DRLSURF	13		P	3,351.0	TRIP OUT TO RUN 9 5/8" SFC. CASING - PULL ROTATING HEAD - DID CALCULATED FILL UP FOR WET PIPE REMOVED.
	2:30	5:30	3.00	DRLSURF	14		P	3,351.0	LAY DOWN BIG DC'S, SHOCK SUB, MUD MOTOR, BIT.
	5:30	6:00	0.50	DRLSURF	42		P	3,351.0	CLEAR RIG FLOOR, C/O BAILS FOR RUNNING 9 5/8" CSG.
11/2/2014	6:00	6:30	0.50	DRLINT1	13		P	3,351.0	PULL OUT LAYING DOWN BHA (BIG DC'S, M/M, SS, BIT).

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2.1 Operation Summary (Continued)

Date	Time Start-End		Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	6:30	9:00	2.50	CASINT1	24		P	3,351.0	CLEAR RIG FLOOR, HELD SAFETY MEETING, R/U FRANKS CSG TOOLS FOR RUN'G 9 5/8" SURFACE CASING.
	9:00	17:00	8.00	CASINT1	24		P	3,351.0	RAN A TOTAL OF 74 JOINTS (3,342') OF 9 5/8" 40 # HCL-80, LTC FILL AND CIRCULATED BTMS UP AT 680' - 1,630' - 2,487' - RAN INTO 3,296' - PRECAUTIONARY WASH DOWN LAST JOINT TO 3,336' - FC: 3,288' - FS: 3,336'.
	17:00	18:30	1.50	CASINT1	15		P	3,351.0	CIRCULATE CASING AT 3,336' - HPJSM WITH HALLIBURTON CEMENTERS, RIG CREW - R/D CSG CREW TOOLS. - NOTE: HAD RETURNS TO SURFACE, EST. LOSSES AT 54 BBLS / HR - CIRCULATING AT 6.8 BBLS / MIN = 413 BBLS /HR. - LOSING 13% OF RETURNS BACK TO SURFACE.
	18:30	21:00	2.50	CASINT1	25		P	3,351.0	RIG UP CEMENT HEAD, LINES, TEST P&L TO 3,500 PSI, OK! - PUMPED 50 BBLS FRESH WATER AHEAD - MIXED AND PUMP 470 SACKS, (187 BBLS) OF LEAD CMT: 12.0 PPG YIELD 2.23 M/W: 13.12 G/ SK - TAIL CEMENT: 980 SACKS (227 BBLS) 14.3 PPG YIELD 1.3 - HAD INTERMITTEN RETURNS TO SURFACE WHILE MIXING AN PUMPING - DROP WIPER PLUG AN DISPLACED CEMENT WITH 246 BBLS OF 8.9 PPG MUD BUMPED PLUG WITH 554 PSI, FCP: 118 PSI, MAX PRESSURE SEEN WHILE PUMPING DISPLACEMENT 219 PSI - CIP AT 21:10 HRS 11/01/14 - CHECK FLOATS, HAD 3/4 OF A BBL BACK TO SURFACE, FLOATS HELD - NOTE: AFTER DROPPING WIPER PLUG, NO RETURNS WERE SEEN BACK TO SURFACE!.
	21:00	6:00	10.00	CASINT1	26		P	3,351.0	WAIT ON CEMENT.
11/3/2014	6:00	7:00	1.00	CASSURF	26		P	3,351.0	WAITING ON CEMENT TO SET UP.
	7:00	10:00	3.00	CASSURF	52		N	3,351.0	CMT TOP OUT JOB #1 -PUMPED 200 BBLS OF FRESH WATER DOWN CSG ANNULUS, NO PSI BUILD UP - MIXED AND PUMPED 625 SK'S (248.2 BBLS) OF 12.0 PPG LEAD MIX CEMENT - NO PSI BUILD UP, FINIAL CIR PSI 254 PSI - PUMPED 2 BBLS WATER BEHIND - CIP AT 09:40 HRS 11/02/14 - NOTE: CALLED UDOG AGENT MR. DENNIS INGRAM OF THIS TOP OUT JOB.
	10:00	17:00	7.00	CASSURF	26		N	3,351.0	WAITING ON CEMENT TO SET UP.
	17:00	18:00	1.00	CASSURF	25		N	3,351.0	CMT TOP OUT JOB #2 - PUMPED 2 BBLS OF FRESH WATER DOWN CSG ANNULUS AHEAD OF 250 SK'S (51.2 BBLS) OF "G" CMT 15.8 PPG Y: 1.15 CU FT / SK, M/W: 5.0 GALS / SK, 2% CACL2 - DISPLACED WITH 2 BBLS FRESH WATER - FCP: 64 PSI - CIP AT 18:05 HRS 11/02/2014.
	18:00	21:00	3.00	CASSURF	26		N	3,351.0	WAITING ON CEMENT TO SET UP.
	21:00	22:00	1.00	CASSURF	25		N	3,351.0	CMT TOP OUT JOB #3 - PUMPED 2 BBLS OF FRESH WATER DOWN CSG ANNULUS AHEAD OF 250 SK'S (56.5 BBLS) OF "G" CMT 15.2 PPG Y: 1.27 CUFT / SK, M/W: 5.76 GALS / SK, 2% CACL2 - DISPALCED WITH 2 BBLS FRESH WATER - FCP: 52 PSI - CIP AT 22:08 HRS 11/02/2014.
	22:00	1:00	3.00	CASSURF	26		N	3,351.0	WAIT ON CEMENT TO SET UP.
	1:00	2:00	1.00	CASSURF	25		N	3,351.0	CMT TOP OUT JOB #4- PUMPED 2 BBLS OF FRESH WATER DOWN CSG ANNULUS AHEAD OF 250 SK'S (56.5 BBLS) OF "G" CMT 15.2 PPG Y: 1.27 CU FT / SK, M/W: 5.76 GALS / SK, 2% CACL2 - DISPLACED WITH 2 BBLS FRESH WATER - FCP: 64 PSI - CIP AT 01:52 HRS 11/03/2014. WITH 15 BBLS PUMPED IN SEEN PRESSURE BUILD UP TO 205 PSI THEN DROPPED BACK OFF TO 64 PSI.
	2:00	5:00	3.00	CASSURF	26		N	3,351.0	WAIT ON CEMENT TO SET UP.

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2.1 Operation Summary (Continued)

Date	Time Start-End		Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	5:00	6:00	1.00	CASSURF	25		N	3,351.0	CMT TOP OUT JOB #5 -PUMPED 2 BBLS OF FRESH WATER DOWN CSG ANNULUS AHEAD OF 71 SK'S (16 BBLS) OF "G" CMT 15.2 PPG Y: 1.27 CU FT / SK, M/W: 5.76 GALS / SK, 2% CACL2 - HAD PRESURE BUILD UP FROM 64 PSI TO 1,000 PSI AFTER MIXING AND PUMPING 16 BBLS OF CMT (248' OF FILL) - PRESSURE BLEED OFF FROM 1,000 PSI TO 700 PSI IN 3 MINUTES, BLEED OFF ALL PRESSURE - PUMPED 10 BBLS OF SUGAR WATER ACROSS WELL HEAD - CIP AT 05:32 HRS 11/03/2014 - R/D HOWCO WHILE WAITING ON CEMENT TO SET UP AT REPORT TIME.
11/4/2014	6:00	9:00	3.00	CASSURF	26		P	3,351.0	WAITING ON CEMENT TO SET UP - 4 BOLT DIVERTER - PICKED UP 40' OF 1" PIPE, TAGGED UP SOLID CEMENT AT 17.5' / DF - REPORTED SAME TO UDOG AGENT MR. DENNIS INGRAM 10:00 HRS 11/03/14.
	9:00	14:00	5.00	CASSURF	29		P	3,351.0	N/D 13 5/8" 3 M DIVERTER - REMOVE SAME FROM SUB BASE - SET BACK IN 11" 10 M BOPE COMPONETS TO BE PICKED UP LATER.
	14:00	16:30	2.50	CASSURF	42		P	3,351.0	HPJSM VAUGHAN ENERGY SERVICES, PRECISION DRILLING - R/U SHEAVES FOR RUNNING GYRO SURVEY - M/U GYRO TOOL - RIH TAKING SURVEYS EVERY 100' - POOH TAKING CHECK SURVEYS EVERY 500' - R/D VAUGHAN ENERGY SERVICES.
	16:30	19:30	3.00	CASSURF	27		P	3,351.0	LAND 9 5/8" MUTI-BOWL 5 M WELL HEAD, TEST SAME WITH NITROGEN TO DRESS CASING AND WELD ON 9-5/8" 11" 5 M MULTI BOWL WELL HEAD - TEST SAME TO 1,500 PSI WITH NITROGEN, 10 MINUTES WITTNESSED BY STEVEN MURPHY CO-REP.
	19:30	2:30	7.00	CASSURF	28		P	3,351.0	PJSM. INSTALL 11" 10 M BOPE EQUIPMENT, TORQUE ALL CONNECTIONS. TORQUE BOPE'S W/ WEATHERFORD WELL HEAD CREW.
	2:30	6:00	3.50	CASSURF	30		P	3,351.0	PJSM - SET IN TEST PLUG - FILLED SAME WITH WATER - TESTED 11" 5M ANNULAR TO LOW 250 PSI / HIGH 2,500 PSI. TEST BOPE'S LOW 250 PSI / HIGH 5,000 PSI. HELD EACH TEST 10 MINUTES.
11/5/2014	6:00	9:30	3.50	CASSURF	19		P	3,351.0	PJSM. INSTALL TEST PLUG.TEST PIPE RAMS, BLIND RAMS, KILL LINE VALVES, CHOKE LINES AND UPPER / LOWER KELLY VALVES TO 250PSI LOW / 5,000 HIGH PSI - PSI TEST ANNULAR TO 250 PSI LOW / 2500 PSI HIGH AND HELD FOR 10 MINUTES EACH TEST. CHARTED ALL TESTS.
	9:30	10:00	0.50	CASSURF	31		P	3,351.0	TEST CASING TO 2,500 PSI FOR 30 MINUTES. TEST GOOD.
	10:00	12:30	2.50	CASSURF	27		P	3,351.0	CHANGED OUT ELEVATOR BAILS TO SHORTER ONES - INSTALL 4 1/2" ELEVATORS - INSTALL WEAR BUSHING.
	12:30	14:00	1.50	CASSURF	14		P	3,351.0	M/U BIT #3 ON DIRECTIONAL TOOLS - P/U 8¾" BHA - INSTALL ROTATING RUBBER - TESTED ALL CHOKE MANIFOLD VALVES TO 250 PSI LOW, 10,000 PSI HIGH - ALL TEST RAN AT 10 MINUTES EACH.
	14:00	17:00	3.00	CASSURF	13		P	3,351.0	TIH TO 2,070'.
	17:00	17:30	0.50	CASSURF	12		P	3,351.0	RIG SERVICE.
	17:30	18:00	0.50	CASSURF	13		P	3,351.0	TIH TO 3,200.'
	18:00	20:00	2.00	CASSURF	17		P	3,351.0	SLIP & CUT DL.
	20:00	20:30	0.50	CASSURF	33		P	3,351.0	PERFORMED CASING TEST FOR FIT PARAMETER.
	20:30	21:30	1.00	CASSURF	32		P	3,351.0	DRILL OUT FE & 10' FORMATION
	21:30	22:00	0.50	DRLINT1	33		P	3,361.0	PERFORMED FIT W/ 8.9 PPG MW. LEAKED OFF WITH 116 PSI SURFACE PRESSURE. 9.6 PPG EQUIVALENT MW.
	22:00	1:30	3.50	DRLINT1	07		P	3,361.0	DRILLED, 3,361' - 3,560'
	1:30	2:00	0.50	DRLINT1	12		P	3,560.0	SERVICED RIG & TDU.

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2.1 Operation Summary (Continued)

Date	Time Start-End		Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	2:00	6:00	4.00	DRLINT1	07		P	3,560.0	DRILLED, 3,560' - 3875'. SLOWED PUMP RATE TO 375 GPM. BYPASSED SHAKERS, LCM TO 20%
11/6/2014	6:00	14:00	8.00	DRLINT1	07		P	3,875.0	DRILL 3,875' - 4,422' LOST ALL RETURNS TO SURAFCE (637 BBLS / HR).
	14:00	14:30	0.50	DRLINT1	52		N	4,422.0	MIXED AND PUMPED LCM SWEEPS - REGAINED CIRCULATION WITH 17% LCM, BUILDING TO 25% LCM WHILE DRILLING AHEAD.
	14:30	1:00	10.50	DRLINT1	07		P	4,422.0	DRILLED, 4,422' - 4,867'.
	1:00	1:30	0.50	DRLINT1	12		P	4,867.0	SERVICED RIG & TDU.
	1:30	6:00	4.50	DRLINT1	07		P	4,867.0	DRILLED, 4,867' - 5,106'.
11/7/2014	6:00	11:00	5.00	DRLINT1	07		P	5,106.0	DRILLED, 5,106' - 5,423' NOTE: 100% BY-PASSED 35% LCM.
	11:00	11:30	0.50	DRLINT1	12		P	5,423.0	RIG SERVICE.
	11:30	0:00	12.50	DRLINT1	07		P	5,423.0	DRILLED TO 5,515' (HOLE STARED TAKING 82 BBLS / HR) DRILLED TO 5,985' NOTE: 100% BY-PASSED 35% LCM.
	0:00	0:30	0.50	DRLINT1	12		P	5,985.0	SERVICED RIG & TDU.
	0:30	6:00	5.50	DRLINT1	07		P	5,985.0	DRILLED, 5,985' - 6,130' (LOSING 20 BBLS / HR.) NOTE: 100% BY-PASSED 35% LCM.
11/8/2014	6:00	7:00	1.00	DRLINT1	15		P	6,130.0	CIRCULATE FOR TRIP OUT FOR M/M, BIT CHANGE.
	7:00	13:00	6.00	DRLINT1	13		P	6,130.0	TOOH, HAD TIGHT HOLE AT 3,533' / 3,494' AND 3,445' / 3380' - TOOH, REMOVE MWD TOOL, BREAK OFF BIT, LAY OUT M/M.
	13:00	13:30	0.50	DRLINT1	12		P	6,130.0	RIG SERVICE.
	13:30	17:30	4.00	DRLINT1	14		P	6,130.0	P/U NEW WFT 6.75" FIXED 1.5 DEG BEND M/M: L: 7/8, S: 5.7 REV: 0.23 / GAL - M/U BIT #4 MM64D - SCRIBE IN MWD TOOL - M/U BHA - INSTALL ROTATING HEAD.
	17:30	18:00	0.50	DRLINT1	15		P	6,130.0	CIRCULATE THRU BHA.
	18:00	23:30	5.50	DRLINT1	13		P	6,130.0	TIH TO 6,078'. CIRCULATED BU 2,000'. HIT OBSTRUCTION @ 3,357'. REAMED TO 3,658'. TIH ON ELEVATORS TO 5,030'. CBU.
	23:30	0:00	0.50	DRLINT1	16		P	6,130.0	REAM / WASH F/ 6,078' - 6,130'.
	0:00	0:30	0.50	DRLINT1	07		P	6,130.0	DRILLED, 6,130' - 6,169'.
	0:30	1:00	0.50	DRLINT1	12		P	6,169.0	SERVICED RIG & TDU.
	1:00	5:30	4.50	DRLINT1	07		P	6,169.0	DRILLED, 6,169' - 6,415'.
	5:30	6:00	0.50	DRLINT1	45		N	6,415.0	WORKING ON MUD PUMPS.
11/9/2014	6:00	7:30	1.50	DRLINT1	45		N	6,450.0	GO THROUGH PUMPS, CLEAN OUT SUCTIONS, REPLACE DISCHARGE VALVES.
	7:30	15:30	8.00	DRLINT1	07		P	6,450.0	DRILLED, 6,415' - 6,691'. LOST 968 BBLS.
	15:30	16:30	1.00	DRLINT1	52		P	6,691.0	LOST ALL RETURNS, PUMP LCM SWEEPS, BUILD VOLUME.
	16:30	17:00	0.50	DPDCOND	07		P	6,691.0	DRILLED, 6,691' - 6,720'. HOLE TAKING 195 BBLS PER HOUR.
	17:00	17:30	0.50	DRLINT1	12		P	6,720.0	SERVICED RIG & TDU.
	17:30	18:00	0.50	DRLINT1	07		P	6,720.0	DRILLED, 6,720' - 6,730'. PUMPED MICA AND CAL CARB 150 - NO RETURNS TO SURFACE!.
	18:00	22:00	4.00	DRLINT1	52		N	6,730.0	MIXED & PUMPED LCM PILLS CONSISTING OF SAWDUST, BAROSEAL, CEDAR FIBER, COTTONSEED HULLS, WITH MINIMAL RESULTS. MIXED & PUMPED #1 LCM PILL (10 BBL) PILLS OF DIAMOND SEAL, 3 PPB OF DIAMOND SEAL, 1/2 SACK N-SEAL, 1/2 BOX OF BAROLIFT, PER 10 BBLS PILL) WITH MINIMAL RETURNS. MIXED AND PUMPED LCM PILLS #2 THRU # 4 (10 BBL) PILLS 5 PPB DIAMOND SEAL, 10 BBL PILLS BACK TO BACK, DISPLACED DRILL STRING WITH 95 BBLS MUD.
	22:00	22:30	0.50	DRLINT1	13		N	6,730.0	PULLED 5 STAND, PULLED UP TO 6,260' .
	22:30	1:00	2.50	DRLINT1	52		N	6,730.0	WAIT FOR DIAMOND SEAL PILLS TO SET UP.
	1:00	1:30	0.50	DRLINT1	52		N	6,730.0	TIH SLOWLY TO 6,730'.
	1:30	2:00	0.50	DRLINT1	07		P	6,730.0	DRILLED, 6,730' - 6,759'. NO RETURNS SEEN TO SURFACE!.
	2:00	3:30	1.50	DRLINT1	52		N	6,759.0	MIXED & PUMPED #5 LCM PILL (50 BBLS) AT 6 PPB OF DIAMOND SEAL, 4 SX N-SEAL, 1/2 BOX BAROLIFT).

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2.1 Operation Summary (Continued)

Date	Time Start-End		Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	3:30	4:00	0.50	DRLINT1	13		N	6,759.0	PULLED 5 STANDS TO 6,260'.
	4:00	6:00	2.00	DRLINT1	52		N	6,759.0	WAIT FOR DIAMOND SEAL PILL TO SET - NOTE: AFTER 1 1/2 HRS FILLED BACK SIDE - FLUID LEVEL AT 62' DOWN FROM KB.
11/10/2014	6:00	10:30	4.50	DRLINT1	52		N	6,759.0	AT 6,260' BUILD VOLUME WHILE WAITING FOR DIAMOND SEAL PILL TO SET UP.
	10:30	11:00	0.50	DRLINT1	12		P	6,759.0	SERVICED RIG & TDU.
	11:00	14:30	3.50	DRLINT1	52		N	6,759.0	MIXED & PUMPED # 6 LCM PILL (100 BBLS) AT 50 PPB OF COTTONSEED HULLS, 10 PPB BAROSEAL, 10 PPB CEDAR FIBER, MICA AND BARACARB 50 & 150. DISPLACED DP WITH 95 BBLS OF MUD - PUMPED # 6 LCM PILL BACK UP INTO 9 5/8" SHOE BASED OFF TOTAL STROKES TO CLEAR DP AND ANNULAR VOLUME BACK UP INTO SHOE - NO RETURNS SEEN BACK TO SURFACE - STARTING PSI 215 PSI WHILE PUMPING 100 BBL #6 LCM PILL, HIGHEST PSI SEEN 414 PSI AFTER PUMPING A TOTAL OF 123 BBLS - FINIAL PSI SEEN WHILE PUMPING AT 2 BPM 336 PSI - SLOWED PUMP RATE TO 1 BPM, TRIED MILKING HOLE, HAD RETURNS BACK TO SURFACE ON UP STROKE BUT DIED OFF IN 15 SECONDS AFTER EVERY UP STROKE.
	14:30	19:30	5.00	DRLINT1	13		N	6,759.0	TOOH STRAIGHT PULLING AND PUMPING 2.36 BPM DUE TO HOLE WANTING TO SWAB - HAD TIGHT HOLE, TRYING TO PACK OFF - BACK REAMED F. 3,572' / 3,336' - BACK UP INTO 9 5/8" CSG - SHOE AT 3,336'.
	19:30	23:30	4.00	DRLINT1	52		N	6,759.0	SHIPPED MUD OUT FROM ACTIVE TANK # 1& # 3 - REPAIRED 10" EQUALIZER LINE FOR ISOLATION FOR LCM PILLS IN TANK # 1 - FILLED HOLE FROM BACKSIDE, TOOK 4 BBLS, ANNULUS FLUID DOWN 71 FT.
	23:30	1:30	2.00	DRLINT1	52		N	6,759.0	AT SHOE, 3,336', ATTEMPTED TO REGAIN CIRCULATION, PUMPING 9.2 PPG, 42 VIS. MUD AT 1 BPM. MIXING 100 BBL LCM PILL # 7.
	1:30	3:30	2.00	DRLINT1	52		N	6,759.0	PUMPED # 7 LCM PILL (50 BBLS) AT 30 PPB OF COTTONSEED HULLS, 10 PPB BAROSEAL, 10 PPB CEDAR FIBER, MICA AND BARACARB 50 & 150 @ 2 BPM. DISPLACED WITH 46 BBLS OF MUD @ 1 BPM.
	3:30	4:30	1.00	DRLINT1	13		N	6,759.0	TOOH 10 STANDS TO 2,355' - FILLING BACK SIDE WHILE TOOH.
	4:30	6:00	1.50	DRLINT1	52		N	6,759.0	PUMPING 100 BBLS OF 8.9 PPG VIS: 44 PUMPING SAME AT 2 BPM TRYING TO REGAIN CIRCULATION.
11/11/2014	6:00	7:30	1.50	DRLINT1	15		N	6,759.0	CIRCULATE OUT HEAVIER MUD 9.2 PPG AND LCM ACROSS SHAKERS - PUMPING IN 8.9 PPG MUD.
	7:30	8:00	0.50	DRLINT1	13		N	6,759.0	TIH F. 2,355' / 2,820' TO MOVE NEXT HEAVIER MUD SECTION UP THE HOLE.
	8:00	9:00	1.00	DRLINT1	15		N	6,759.0	CIRCULATE UP NEXT SECTION OF HEAVIER MUD F. 2,820' - 750' - NOTE: SHAKING OUT LCM, RUNNING CENTRIFUGE CUTTING MUD WT - 8.9 PPG PUMPING 90 / 450 GPM.
	9:00	9:30	0.50	DRLINT1	13		N	6,759.0	TIH F. 2,820' / 3,372' TO MOVE NEXT HEAVIER MUD SECTION UP THE HOLE - BIT IS 136' OUT OF 9 5/8" CSG SHOE.
	9:30	11:30	2.00	DRLINT1	16		N	6,759.0	REAMED TIGHT HOLE / BRIDGE F. 3,372' - 3,451' - SHAKING OUT LCM, RUNNING CENTRIFUGE CUTTING MUD WT - 8.7 PPG. PUMPING 204 / 450 GPM.
	11:30	13:30	2.00	DRLINT1	42		N	6,759.0	WENT THROUGH PUMPS, CLEANED OUT SUCTIONS OF LCM AND SOLIDS.
	13:30	14:30	1.00	DRLINT1	16		N	6,759.0	REAMED TIGHT HOLE / BRIDGE F / 3,451' - 3,617'.
	14:30	15:30	1.00	DRLINT1	13		N	6,759.0	TIH F/ 3,617' - 4,296' TO MOVE NEXT HEAVIER MUD SECTION UP THE HOLE - SHAKING OUT LCM, RUNNING CENTRIFUGE CUTTING MUD WT 8.7 PPG.

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2.1 Operation Summary (Continued)

Date	Time Start-End		Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	15:30	17:00	1.50	DRLINT1	13		N	6,759.0	TIH F/ 4,296' - 5,226' TO MOVE NEXT HEAVIER MUD SECTION UP THE HOLE - SHAKING OUT LCM, RUNNING CENTRIFUGE CUTTING MUD WT 8.7 PPG.
	17:00	18:00	1.00	DRLINT1	13		N	6,759.0	TIH F/ 5,226' - 5,687' TO MOVE NEXT HEAVIER MUD SECTION UP THE HOLE - SHAKING OUT LCM, RUNNING CENTRIFUGE CUTTING MUD WT 8.7 PPG.
	18:00	19:00	1.00	DRLINT1	13		N	6,759.0	TIH F/ 5,687' - 6,166' TO MOVE NEXT HEAVIER MUD SECTION UP THE HOLE - SHAKING OUT LCM, RUNNING CENTRIFUGE CUTTING MUD WT 8.7 PPG.
	19:00	20:00	1.00	DRLINT1	13		N	6,759.0	TIH F/ 6,166' - 6,626' TO MOVE NEXT HEAVIER MUD SECTION UP THE HOLE - SHAKING OUT LCM, RUNNING CENTRIFUGE CUTTING MUD WT 8.7 PPG.
	20:00	20:30	0.50	DRLINT1	16		P	6,759.0	PRE-CAUTIONARY WASH / REAM F/ 6,626' - 6,759'
	20:30	0:00	3.50	DRLINT1	07		P	6,759.0	DRILLED, 6,759' - 6,913'.
	0:00	0:30	0.50	DRLINT1	12		P	6,913.0	SERVICED RIG & TDU.
	0:30	4:00	3.50	DRLINT1	07		P	6,913.0	DRILLED 6.913' - 7,008'.
	4:00	5:30	1.50	DRLINT1	45		N	7,008.0	WORKING MUD PUMPS AIRING UP - BACK FLUSH SUCTION MANIFOLDS, PURGE WITH AIR.
	5:30	6:00	0.50	DRLINT1	07		P	6,913.0	DRILLED, 6,913' - 7,050'.
11/12/2014	6:00	7:00	1.00	DRLINT1	45		N	7,050.0	WORK ON AIRED UP MUD PUMP #1, FOUND BAD SUCTION VALVE.
	7:00	11:30	4.50	DRLINT1	07		P	7,050.0	DRILLED 7,050' - 7,167'.
	11:30	12:30	1.00	DRLINT1	45		N	7,167.0	WORK ON AIRED UP MUD PUMPS.
	12:30	15:00	2.50	DRLINT1	07		P	7,167.0	DRILLED, 7,167' - 7,285'.
	15:00	15:30	0.50	DRLINT1	12		P	7,285.0	RIG SERVICE.
	15:30	0:30	9.00	DRLINT1	07		P	7,285.0	DRILLED, 7,285' - 7,660'.
	0:30	1:00	0.50	DRLINT1	12		P	7,660.0	RIG SERVICE
	1:00	2:00	1.00	DRLINT1	07		P	7,660.0	DRILLED, 7,660' - 7695'.
	2:00	2:30	0.50	DRLINT1	45		N	7,695.0	WORKING ON MUD PUMP # 1.
	2:30	6:00	3.50	DRLINT1	07		P	7,695.0	DRILLED 7695' - 7834'.
11/13/2014	6:00	14:00	8.00	DRLINT1	07		P	7,834.0	DRILLING FROM 7,834' TO 8,221'.
	14:00	14:30	0.50	DRLINT1	12		P	8,221.0	RIG SERVICE.
	14:30	23:30	9.00	DRLINT1	07		P	8,221.0	DRILLING FROM 8,221' TO 8,684'.
	23:30	0:00	0.50	DRLINT1	12		P	8,684.0	RIG SERVICE.
	0:00	4:00	4.00	DRLINT1	07		P	8,684.0	DRILLING FROM 8,684' TO 8,983'.
11/14/2014	6:00	12:00	6.00	DRLINT1	07		P	8,983.0	DRILLING FROM 8983' TO 9169'.
	12:00	13:00	1.00	DRLINT1	45		N	9,169.0	GO THROUGH MUD PUMPS.
	13:00	14:30	1.50	DRLINT1	07		P	9,169.0	DRILLING FROM 9169' TO 9242'.
	14:30	15:00	0.50	DRLINT1	12		P	9,242.0	RIG SERVICE.
	15:00	16:00	1.00	DRLINT1	07		P	9,242.0	DRILLING FROM 9242' TO 9276'.
	16:00	18:30	2.50	DRLINT1	15		P	9,276.0	CIRCULATE AND CONDITION MUD.
	18:30	21:30	3.00	DRLINT1	13		P	9,276.0	POOH TO CASING SHOE.
	21:30	1:00	3.50	DRLINT1	13		P	9,276.0	TRIP IN HOLE BREAK CIRC PER. 3000'.
	1:00	6:00	5.00	DRLINT1	15		P	9,276.0	CIRCULATE BOTTOM UP GAS 9500 UNITS & 12' FLARE, INCREASE WT. TO 9.3 PPG.
11/15/2014	6:00	8:30	2.50	DRLINT1	15		P	9,276.0	CIRCULATE AT REDUCED RATE (4.35 BPM) AND RAISE MUD WEIGHT TO 9.2 PPG.
	8:30	12:30	4.00	DRLINT1	13		P	9,276.0	PUMP SLUG. TOH TO CASING SHOE (3351).
	12:30	16:00	3.50	DRLINT1	14		P	9,276.0	POOH LAYING DOWN DRILL PIPE.
	16:00	19:30	3.50	DRLINT1	14		P	9,276.0	LAY DOWN BHA.
	19:30	20:00	0.50	DRLINT1	42		P	9,276.0	FLOW CHECK OK CLEAN AND CLEAR RIG FLOOR OF TOOLS.
	20:00	21:30	1.50	DRLINT1	13		P	9,276.0	TRIP IN HOLE WITH DRILL PIPE TO CASING SHOE.
	21:30	0:00	2.50	DRLINT1	14		P	9,276.0	POOH LAYING DOWN DRILL PIPE.
	0:00	1:00	1.00	DRLINT1	13		P	9,276.0	TRIP IN HOLE WITH DRILL PIPE TO CASING SHOE.

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2.1 Operation Summary (Continued)

Date	Time Start-End		Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	1:00	4:00	3.00	DRLINT1	14		P	9,276.0	POOH LAYING DOWN DRILL PIPE.
	4:00	4:30	0.50	CASINT1	42		P		PULL WEAR BUSHING.
	4:30	6:00	1.50	CASINT1	24		P	9,276.0	PJSM WITH FRANK'S WESTATES. CHANGE ELEVATOR BAILS, RU CASING CREW, TORQUE TURN.
11/16/2014	6:00	7:00	1.00	CASINT1	24		P	9,276.0	RIG UP CASING CREW.
	7:00	1:00	18.00	CASINT1	24		P	9,276.0	RUN 223 JTS OF 7" 29# HCP-110 LTC CSG TO 9276'. FILL SHOE TRACK AND TEST FLOATS. FILL PIPE EVERY 1000' AND CIRC. 5 MINUTES. FILL PIPE AND CIRCULATE BU EVERY 2000'.
	1:00	2:00	1.00	CASINT1	24		P	9,276.0	WORK TO ESTABLISH CIRC @ 9,020'.
	2:00	6:00	4.00	CASINT1	24		P	9,276.0	WASH DOWN CASING JTS FROM 9,020' TO 9,276'.
11/17/2014	6:00	7:30	1.50	CASINT1	16		P	9,276.0	WASH AND REAM CASING TO BOTTOM
	7:30	8:00	0.50	CASINT1	24		P	9,276.0	LAY DOWN TAG JOINT, PU LANDING JOINT.
	8:00	9:30	1.50	CASINT1	15		P	9,276.0	CIRCULATE BU 1-1/2 TIMES AT 4.00 BPM.
	9:30	12:30	3.00	CASINT1	25		P	9,276.0	PJSM. RU HALLIBURTON CEMENT HEAD AND LINES. CEMENT WITH 40 BBLS (11.5 PPG 3.59 YIELD 21.5 GAL/SK WATER) TUNED SPACER. 167 BBLS (490 SKS. 12.5 PPG 1.91 YIELD 10.32 GAL/SK WATER) LEAD. 93 BBLS (320 SKS. 13.0 PPG 1.64 YIELD 8.21 GAL/SK WATER) TAIL. SHUT DOWN /WASH PUMPS/DROP PLUG. DISPLACED WITH 342.5 BBLS OF 8.9 PPG DRILLING MUD. BUMPED PLUG. PRESSURE PRIOR TO BUMPING 1780 PSI. BUMPED AT 500 OVER. FLOATS HELD. FLOWED BACK 2.5 BBLS. FULL RETURNS THROUGHT JOB.
	12:30	13:00	0.50	CASINT1	25		P	9,276.0	RIG DOWN HALLIBURTON
	13:00	16:30	3.50	CASINT1	19		P	9,276.0	INSTALL PACKOFF AND TEST TO 5000 PSI. CHANGE ELEVATOR BAILS AND SAVER SUB. PICK UP 4" TOOLS.
	16:30	21:30	5.00	DRLPRD	19		P	9,276.0	INSTALL TEST PLUG IN WELLHEAD. PRESSURE TEST BOP RAMS, BOTH INSIDE AND OUTSIDE CHOKE AND KILL LINE VALVES, ALL LINES, VALVES ON TOP DRIVE, STABBING VALVE AND INSIDE BOP TO 250 LOW AND 10,000 HIGH FOR 10 MINUTES EACH. PRESSURE TEST ANNULAR TO 250 LOW AND 4,000 HIGH FOR 10 MINUTES. ALL TESTS WERE CHARTED.
	21:30	23:30	2.00	DRLPRD	14		P	9,276.0	STAGE BHA, LOAD AND STRAP DRILL PIPE TO PIPE RACKS.
	23:30	0:00	0.50	DRLPRD	12		P	9,276.0	SERVICE TOP DRIVE
	0:00	2:30	2.50	DRLPRD	14		P	9,276.0	HELD JSA WITH CREW. M/U BIT #5 - P/U 4¾" BHA
	2:30	6:00	3.50	DRLPRD	14		P	9,276.0	P/U & M/U 4-3/4' DRILL COLLARS AND 4 DRILL PIPE.
11/18/2014	6:00	15:30	9.50	DRLPRD	13		P	9,276.0	PU 4" DRILL PIPE
	15:30	17:00	1.50	DRLPRD	17		P	9,276.0	SLIP AND CUT DRILLING LINE.
	17:00	18:00	1.00	DRLPRD	13		P	9,276.0	PU DRILL PIPE. TAG CEMENT AT 9,222'. DRILLING FLOAT COLLAR, CEMENT, AND SHOE AND 10' NEW HOLE.
	18:00	19:30	1.50	DRLPRD	15		P	9,286.0	CIRCULATE BOTTOMS UP FOR FIT. PERFORM FIT. 10.5 MUD WEIGHT 1885 ADDED SURFACE PRESSURE. EMW 14.4 PPG.
	19:30	21:30	2.00	DRLPRD	07		P	9,286.0	DRILLING PRODUCTION SECTION FROM 9,286' TO 9,350'
	21:30	22:00	0.50	DRLPRD	12		P	9,350.0	SERVICE RIG, CHECK VALVES AND SEATS IN BOTH PUMPS.
	22:00	22:30	0.50	DRLPRD	15		P	9,350.0	CIIRCULATE AND CONDITION MUD, PUMP LCM SWEEP DUE TO LOSSES.
	22:30	6:00	7.50	DRLPRD	07		P	9,350.0	DRILL FROM 9,350' TO 9,703'
11/19/2014	6:00	9:30	3.50	DRLPRD	07		P	9,703.0	DRILLING FROM 9703' TO 9811
	9:30	11:00	1.50	DRLPRD	11		P	9,811.0	WIRELINE SURVEY AT 9,780'
	11:00	14:00	3.00	DRLPRD	07		P	9,811.0	DRILLING FROM 9811' TO 9942'
	14:00	14:30	0.50	DRLPRD	12		P	9,942.0	RIG SERVICE
	14:30	22:30	8.00	DRLPRD	07		P	9,942.0	DRILLING FROM 9942' TO 10,204'
	22:30	23:00	0.50	DRLPRD	43		N	10,204.0	CIRCULATE AND WORK PIPE WHILE CHANGING BELTS ON TOP DRIVE POWER PACK.
	23:00	23:30	0.50	DRLPRD	12		P	10,204.0	RIG SERVICE
	23:30	6:00	6.50	DRLPRD	07		P	10,204.0	DRILLING FROM 10,204' to 10,347'

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Date	Time Start-End		Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
11/20/2014	6:00	12:00	6.00	DRLPRD	07		P	10,347.0	DRILLING FROM 10,347' TO 10,510'
	12:00	12:30	0.50	DRLPRD	12		P	10,510.0	SERVICE RIG AND TOP DRIVE.
	12:30	16:00	3.50	DRLPRD	07		P	10,510.0	DRILLING FROM 10,510' TO 10,582'
	16:00	1:30	9.50	DRLPRD	13		P	10,582.0	TFB #6, BREAK BIT # 5, M/U BIT #6.
	1:30	2:00	0.50	DRLPRD	12		P	10,582.0	SERVICE RIG AND TOP DRIVE.
	2:00	6:00	4.00	DRLPRD	13		P	10,582.0	TIH WITH BIT #6 TO 4,500'
11/21/2014	6:00	9:30	3.50	DRLPRD	13		P	10,582.0	TIH WITH BIT #6. WASH LAST 2 STANDS TO BOTTOM.
	9:30	13:30	4.00	DRLPRD	07		P	10,582.0	DRILLING FROM 10,582' TO 10700'. RAISE MUD WEIGHT TO 10.9 PPG.
	13:30	14:00	0.50	DRLPRD	12		P	10,700.0	RIG SERVICE
	14:00	3:30	13.50	DRLPRD	07		P	10,700.0	DRILLING FROM 10,700' TO 11,073
	3:30	4:00	0.50	DRLPRD	12		P	11,073.0	RIG SERVICE
	4:00	6:00	2.00	DRLPRD	07		P	11,073.0	DRILLING FROM 11,073' TO 11,130'
11/22/2014	6:00	12:00	6.00	DRLPRD	07		P	11,130.0	DRILLING FROM 11,130' TO 11,359'
	12:00	12:30	0.50	DRLPRD	12		P	11,359.0	RIG SERVICE
	12:30	4:30	16.00	DRLPRD	07		P	11,359.0	DRILLING FROM 11,359' TO 11,918'
	4:30	5:00	0.50	DRLPRD	12		P	11,918.0	SERVICE RIG AND TOP DRIVE
	5:00	6:00	1.00	DRLPRD	07		P	11,965.0	DRILLING FROM 11,918' TO 11,965'
11/23/2014	6:00	14:00	8.00	DRLPRD	07		P	11,965.0	DRILLING FROM 11'965' TO 1,2210'
	14:00	14:30	0.50	DRLPRD	12		P	12,210.0	RIG SERVICE
	14:30	20:00	5.50	DRLPRD	07		P	12,210.0	DRILLING FROM 12,210' TO 12,400'
	20:00	22:30	2.50	DRLPRD	15		P	12,400.0	CIRCULATE AND CONDITION HOLE @ 12,400' 2-BOTTOMS UP.
	22:30	2:30	4.00	DRLPRD	13		P	12,400.0	TOOH FROM 12,400' TO CASING SHOE @ 9,276'. FILL HOLE WITH RIG PUMP THROUGH TOP DRIVE EVERY 5 STANDS.
	2:30	3:30	1.00	DRLPRD	13		P	12,400.0	BLOW DOWN TOP DRIVE. TIH FROM 9,276, TO 11,987'.
	3:30	4:30	1.00	DRLPRD	16		P	12,400.0	WASH AND REAM FROM 11,987' TO 12,400'.
	4:30	6:00	1.50	DRLPRD	15		P	12,400.0	CIRCULATE AND CONDITION HOLE @ 12,400' FOR LOGS.
11/24/2014	6:00	8:00	2.00	DRLPRD	15		P	12,400.0	CIRCULATE AND CONDITION MUD
	8:00	16:30	8.50	EVLPRD	13		P	12,400.0	TOH FOR LOGS. HOLE TOOK PROPER FILL
	16:30	23:00	6.50	EVLPRD	22		P	12,400.0	PJSM. RU HALLIBURTON. M/U ULTRA SLIM QUAD COMBO - RIH WITH SAME TO 12,380' (WLM) LOG UP WITH SAME. R/D HALLIBURTON LOGGERS.
	23:00	6:00	7.00	CASPRD1	24		P	12,400.0	PJSM WITH FRANK'S WESTATES, RU CASING CREW & TORQUE TURN. M/U FLOAT SHOE, 1 JOINT 5" 18# HCP-110 STL CASING ,FLOAT COLLAR, 1 JOINT AND STOP COLLAR. CHECK FLOAT, OK. RUN 78 FULL JTS & 3 MARKER JOINTS OF 5" 14# STL HCP-110 LINER WITH VERSAFLEX LINER HANGER. THREAD LOCK ALL STL CONNECTIONS OF THE SHOE TRACK. CIRCULATE BOTTOMS UP EVERY 2000'. LOWER MUD WT. FROM 11.7 PPG TO 11.5 PPG.
11/25/2014	6:00	12:00	6.00	CASPRD1	24		P	12,400.0	RUN 5" LINER. FILL PIPE EVERY 1000'. CIRCULATE BOTTOMS UP EVERY 2000'(3300, 5300, 7300, 9200, AND 10,800) AT 2.5 BBLS/MIN. MAXIMUM.
	12:00	4:30	16.50	CASPRD1	15		P	12,400.0	AFTER PUMPING 1089 STROKES ON BOTTOM,TRYING TO PACK OFF ADJUSTING FLOW/PRESSURE.
	4:30	6:00	1.50	CASPRD1	71		N	12,400.0	HOLE PACKED OFF, TRYING TO REGAIN CIRCULATION, WORKING UP HOLE.
11/26/2014	6:00	8:00	2.00	CASPRD1	42		N	12,400.0	TRYING TO WORK PIPE FREE AND REGAIN CIRCULATION.

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2.1 Operation Summary (Continued)

Date	Time Start-End		Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	8:00	17:30	9.50	CASPRD1	24		P	12,400.0	PJSM WITH HALLIBURTON. RIG UP CEMENT HEAD. PRESSURE TEST LINES. PUMPED 20 BBL TUNED SPACER (11.7 PPG 3.51 YIELD 22.4 GAL/SK WATER) 61 BBLS. (230 SKS 14.2 PPG. 1.49 YIELD 6.5 GAL/SK WATER) LEAD CEMENT. SHUT DOWN , WASH PUMPS, DROP PLUG. DISPLACED WITH 70 BBLS. CLA-WEB / ALDACIDE WATER AND 87 BBLS. OF 11.5 PPG. PLUG DID NOT BUMP. PUMPED 1/2 BBL. OVER DISPLACEMENT. DROPPED BALL. (COULD NOT HEAR BALL DROP. TOOK OFF CEMENT HEAD AND DROPPED SECOND BALL) WAIT ON BALL TO FREE FALL. (DART AND 1ST BALL WERE FOUND IN CEMENT HEAD.) PRESSURED TO 8100 PSI AND SET LINER PACKER. PULL TESTED 50K OVER (250,000) OK. SLACKED OFF TO 95K AND SHEARED OFF OF LINER. RECIPROCATED DP WHILE CIRCULATING BU 1-1/2 TIMES. NO CEMENT OR SPACER TO SURFACE. PRESSURE TESTED LINER TOP 1000 PSI / 10 MINUTES OK. DISPLACED HOLE WITH CLA-WEB / ALDACIDE WATER.
	17:30	20:00	2.50	CASPRD1	42		P	12,400.0	RIG DOWN HALLIBURTON AND CEMENT HEAD. RU TO LAY DOWN DP.
	20:00	6:00	10.00	CASPRD1	14		P	12,400.0	LDDP.
11/27/2014	6:00	15:00	9.00	CASPRD1	14		P	12,400.0	L/D 5" LINER RUNNING TOOL, FOUND 5" LINER WIPER PLUG STILL ATTACHED TO RUNNING TOOL - RIH 4 3/4" DC'S & 4" DRILL PIPE FROM DERRICK - POOH L/D SAME - NOTE: HAD HIGH WIND CONDITIONS WHLE TRYING TO RIH FROM DERRICK.
	15:00	18:00	3.00	CASPRD1	29		P	12,400.0	N/D 11" 10K BOPE. N/U TUBING HEAD SPOOL AND FRAC VALVE. P. TEST TO 5000 PSI. FOR 15 MINUTES. OK. RIG RELEASED AT 18:00 11/26/2014.
	18:00	6:00	12.00	RDMO	02		P	12,400.0	RIGGING DOWN. 90% RIGGED DOWN. FINIAL REPORT.

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CENTRAL DIVISION

ALTAMONT FIELD
DWR 4-32B5
DWR 4-32B5
COMPLETION LAND

Operation Summary Report

Disclaimer: Although the information contained in this report is based on sound engineering practices, the copyright owner (s) does (do) not accept any responsibility whatsoever, in negligence or otherwise, for any loss or damage arising from the possession or use of the report whether in terms of correctness or otherwise. The application, therefore, by the user of this report or any part thereof, is solely at the user's own risk.

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1 General

1.1 Customer Information

Company	CENTRAL DIVISION
Representative	
Address	

1.2 Well Information

Well	DWR 4-32B5		
Project	ALTAMONT FIELD	**Site**	DWR 4-32B5
Rig Name/No.		**Event**	COMPLETION LAND
Start date	12/1/2014	**End date**	
Spud Date/Time	10/22/2014	**UWI**	DWR 4-32B5
Active datum	KB @6,130.9ft (above Mean Sea Level)		
Afe No./Description	160242/52466 / DWR 4-32B5		

2 Summary

2.1 Operation Summary

Date	Time Start-End		Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
12/2/2014	6:00	10:00	4.00	SITEPRE	18		P		CREW TRAVEL TO LOCATION HSM WRITE AND REVIEW JSA TOPIC; CLEAN OUT OPERATIONS...CLEAN AND BLADE LOCATION AS NEED WHILE ROADING RIG FROM 2-20C4 TO LOCATION VES HAD RIGGED UP STARTED RUNNING LOG
	10:00	13:00	3.00	WLWORK	22		P		WAIT ON VES TO FINISH RUN LOG FOR DRILLING DEPT
	13:00	14:00	1.00	MIRU	01		P		MIRU
	14:00	15:30	1.50	WOR	16		P		N/U 5K BOPE SET CAT WALK UNLOAD AND RACK 2 7/8" AND TALLY 2 3/8" TBG
	15:30	18:00	2.50	WOR	31		P		P/U 4 1/8" ROCK BIT SIH w 108 JTS OF 2 3/8" TBG 2 3/8" X 2 7/8" X-OVER CHANGE HANDLING TOOLS TALLY 2 7/8" TBG CONTINUE w 1 JTS OF 2 7/8" TBG SECURE WELL SDFN EOT 3347'
12/3/2014	6:00	7:00	1.00	WOR	28		P		CREW TRAVEL TO LOCATION HSM WRITE AND REVIEW JSA TOPIC; PICKING UP TUBING
	7:00	12:00	5.00	WOR	39		P		CONTINUE TIH w 275 JTS OF 2 7/8" TBG TAG AT 12296' TMD
	12:00	15:00	3.00	WOR	10		P		R/U PUMP AND LINES CIRC WELL CLEAN w 485 BBLS OF 2% KCL WATER
	15:00	18:00	3.00	WOR	39		P		SOH w 218 JTS OF 2 7/8" TBG EOT 5832' DRAIN PUMP AND LINES SECURE WELL SDFN
12/4/2014	6:00	7:00	1.00	WOR	28		P		CREW TRAVEL TO LOCATION HSM WRITE AND REVIEW JSA TOPIC; LAYING DOWN TUBING
	7:00	10:00	3.00	WOR	39		P		TOH L/D 77 JTS OF 2 7/8" CHANGE HANDLING TOOLS L/D 105 JTS OF 2 3/8" TBG L/D BIT AND BIT SUB
	10:00	10:30	0.50	WOR	16		P		N/D BOPE INSTALL NIGHT CAP
	10:30	11:30	1.00	RDMO	02		P		RDMO
	11:30	18:00	6.50	WLWORK	18		P		PRESSURE TEST CSG TO 4000 PSI FOR 15 MINUTES. TESTED GOOD. RUN CBL/CCL/GR LOG FROM 12296' TO 3100' UNDER 4000 PSI, W/ CMT TOP @ 4444' & LITTLE OR NO CMT FROM 10450' TO LINER TOP @ 9018'. RD WIRELINE UNIT. SDFN
12/6/2014	6:00	7:30	1.50	STG01	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON NIPPLING UP WELLHEAD. FILL OUT & REVIEW JSA
	7:30	10:30	3.00	STG01	16		P		NU FRAC STACK.

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2.1 Operation Summary (Continued)

Date	Time Start-End		Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	10:30	11:30	1.00	STG01	18		P		PRESSURE TEST CSG. PRESSURED UP TO 8500 PSI THEN DROPPED TO 3500 PSI. WAS UNABLE TO PRESSURE UP ABOVE 3800 PSI.
	11:30	20:00	8.50	WLWORK	26		P		WORK 4" OD GUAGE RING IN HOLE TO 11375'. SET DOWN. PU ON GUAGE RING. GUAGE RING HUNG UP. WORK GUAGE RING FREE. POOH ABOVE LINERTOP. RIH TO PBTD @ 12268'. POOH. RIH & SET WEATHERFORD 5" 12K CBP @ 12267'. DUMP BAIL 10 CMT ON CBP. SDFN
12/7/2014	6:00	7:30	1.50	STG01	28		P		TRAVEL TO LOCATION HOLD SAFETY MEETING ON PRESSURE TESTING CSG. FILL OUT & REVIEW JSA
	7:30	10:00	2.50	STG01	18		P		PRESSURE TEST FRAC STACK & FLOW BACK LINES TO 10,000 PSI. PRESSURE TEST CSG TO 9000 PSI FOR 30 MINUTES. TESTED GOOD.
	10:00	14:00	4.00	STG01	21		P		RU WIRELINE UNIT. PERFORATE STAGE 1 PERFORATIONS 12215' TO 12239', . BEGINNING PRESSURE 1000 PSI. ENDING PRESSURE 1200 PSI. RD WIRELINE UNIT. NOTE: BOTTOM 2 SHOTS 12257' TO 12258' & 12266' TO 12267' WERE NOT SHOT. UNABLE TO GET DEEPER THAN 12268' W/ CBL LOG & TOP OF CMT WAS TOP OC BAILED CMT WAS 12256'. VERBAL PERMISSION WAS OBTAINED FROM PETER SCHMELTZ.
12/8/2014	6:00	6:00	24.00	STG01	18		P		HEAT FRAC WTR
12/9/2014	6:00	9:00	3.00	STG01	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON FRAC SAFETY. FILL OUT & REVIEW JSA.
	9:00	10:30	1.50	STG01	35		P		PRESSURE TEST LINES TO 9427 PSI. OPEN WELL. SICP 1681 PSI. BREAK DOWN STAGE 1 PERFORATIONS @ 4281 PSI, PUMPING 6 BPM. BRING RATE UP TO 34 BPM. PUMP 118 TTL BBLS FLUID THEN PERFORM STEP RATE SHUT DOWN. ISIP 3812 PSI. FG .74. 5 MIN 3612 PSI. 10 MIN 3572 PSI. 15 MIN 3536 PSI. TREAT STAGE 1 PERFORATIONS W/ 5000 GALLONS HCL ACID, 3000LBS 100 MESH SAND IN 1/2 PPG STAGE & 150,150 LBS POWER PROP 30/50 SAND IN 1/2 PPG, 1 PPG, 2 PPG & 3 PPG STAGES. ISIP 3404 PSI. FG ..71. AVG RATE 72.7 BPM. MAX RATE 75.7BPM. AVG PSI 5219 PSI. MAX PSI 73248 PSI. TURN WELL OVER TO WIRE LINE. 3881 BBLS FLUID TO RECOVER
	10:30	12:00	1.50	STG02	21		P		SET CIBP @ 11988'. PERFORATE STAGE 2 PERFORATIONS 11693' TO 11973', USING 2-3/4" OWENS 16 GRAM CHARGES, 3 JSPF, 120 DEGREE PHASING. BEGINNING PRESSURE 3800 PSI. ENDING PRESSURE 1000 PSI. TURN WELL OVER TO FRAC CREW
	12:00	14:00	2.00	STG02	35		P		PRESSURE TEST LINES TO 9238 PSI. OPEN WELL. SICP 290 PSI. BREAK DOWN STAGE 2 PERFORATIONS @ 4310 PSI, PUMPING 6 BPM. BRING RATE UP TO 33 BPM. PUMP 96 TTL BBLS FLUID THEN PERFORM STEP RATE SHUT DOWN. ISIP 4310 PSI. FG .70. 5 MIN 2450 PSI. 10 MIN 2242 PSI. 15 MIN 2110 PSI. TREAT STAGE 2 PERFORATIONS W/ 5000 GALLONS HCL ACID, 3000LBS 100 MESH SAND IN 1/2 PPG STAGE & 150,420 LBS POWER PROP 30/50 SAND IN 1/2 PPG, 1 PPG, 2 PPG & 3 PPG STAGES. ISIP 3891PSI. FG .76. AVG RATE 76.8 BPM. MAX RATE 77.8 BPM. AVG PSI 4860 PSI. MAX PSI 7739 PSI. TURN WELL OVER TO WIRE LINE. 3885 BBLS FLUID TO RECOVER
	14:00	15:30	1.50	STG03	21		P		SET CIBP @ 11674'. PERFORATE STAGE 3 PERFORATIONS 11369' TO 11659', USING 2-3/4" OWENS 16 GRAM CHARGES, 3 JSPF, 120 DEGREE PHASING. BEGINNING PRESSURE 3700 PSI. ENDING PRESSURE 3500 PSI. TURN WELL OVER TO FRAC CREW

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2.1 Operation Summary (Continued)

Date	Time Start-End		Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	15:30	17:00	1.50	STG03	35		P		PRESSURE TEST LINES TO 9602 PSI. OPEN WELL. SICP 3444 PSI. BREAK DOWN STAGE 3 PERFORATIONS @ 4420 PSI, PUMPING 5 BPM. BRING RATE UP TO 35 BPM. PUMP 72 TTL BBLS FLUID THEN PERFORM STEP RATE SHUT DOWN. ISIP 3830 PSI. FG .76. 5 MIN 3576 PSI. 10 MIN 3505 PSI. 15 MIN 2110 PSI. TREAT STAGE 3 PERFORATIONS W/ 5000 GALLONS HCL ACID, 3000LBS 100 MESH SAND IN 1/2 PPG STAGE & 150,390 LBS POWER PROP 30/50 SAND IN 1/2 PPG, 1 PPG, 2 PPG & 3 PPG STAGES. ISIP 4034PSI. FG .78. AVG RATE 75 BPM. MAX RATE 78 BPM. AVG PSI 4801 PSI. MAX PSI 7607 PSI. TURN WELL OVER TO WIRE LINE. 3803 BBLS FLUID TO RECOVER
	17:00	19:00	2.00	STG04	21		P		SET CIBP @ 11352'. PERFORATE STAGE 4 PERFORATIONS 11043' TO 11342', USING 2-3/4" OWENS 16 GRAM CHARGES, 3 JSPF, 120 DEGREE PHASING. BEGINNING PRESSURE 3600 PSI. ENDING PRESSURE 3400 PSI. SDFN
12/10/2014	6:00	8:00	2.00	STG04	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON FRAC SAFETY. FILL OUT & REVIEW JSA
	8:00	10:00	2.00	STG04	35		P		PRESSURE TEST LINES TO 9481PSI. OPEN WELL. SICP 1241 PSI. BREAK DOWN STAGE 4 PERFORATIONS @ 4495 PSI, PUMPING 5 BPM. BRING RATE UP TO 34 BPM. PUMP 71 BBLS FLUID THEN PERFORM STEP RATE SHUT DOWN. ISIP 3974 PSI. FG .74. 5 MIN 3008 PSI. 10 MIN 2350 PSI. 15 MIN 2010 PSI. TREAT STAGE 4 PERFORATIONS W/ 5000 GALLONS HCL ACID, 3000LBS 100 MESH SAND IN 1/2 PPG STAGE & 150,900 LBS POWER PROP 30/50 SAND IN 1/2 PPG, 1 PPG, 2 PPG & 3 PPG STAGES. ISIP 4406 PSI. FG .82. AVG RATE 76 BPM. MAX RATE 76.8 BPM. AVG PSI 5218 PSI. MAX PSI 7170 PSI. TURN WELL OVER TO WIRE LINE. 3829 BBLS FLUID TO RECOVER
	10:00	11:30	1.50	STG05	21		P		SET CIBP @ 11025'. SICP @ 0 PSI. PRESSURE UP TO 1000 PSI.PERFORATE STAGE 5 PERFORATIONS 10719" TO 11013', USING 2-3/4" OWENS TITAN 16 GRAM CHARGES, 3 JSPF, 120 DEGREE PHASING. BEGINNING PRESSURE 1000 PSI. ENDING PRESSURE 0 PSI (PRESSURE DROPPED TO 0PSI WHILE SHOOTING 2nd SHOT SELECTION 10989' TO 10990'). TURN WELL OVER TO FRAC CREW
	11:30	13:30	2.00	STG05	35		P		PRESSURE TEST LINES TO 9427 PSI. OPEN WELL. SICP 0 PSI. PUMP 43 BBLS 2% KCL TO FILL HOLE. BREAK DOWN STAGE 5 PERFORATIONS @ 3740 PSI, PUMPING 5 BPM. BRING RATE UP TO 33 BPM. PUMP 70 BBLS FLUID THEN PERFORM STEP RATE SHUT DOWN. ISIP 3387 PSI. FG .74. 5 MIN 790 PSI. 10 MIN 286 PSI. 15 MIN 0 PSI.DUE TO LEAK OFF 25# FLUID LOSS WAS MIXED WITH 100 GALLONS WTR & PUMPED DURING SPACER STAGE, RIGHT AFTER ACID STAGE. TREAT STAGE 5 PERFORATIONS W/ 5000 GALLONS HCL ACID, 3000LBS 100 MESH SAND IN 1/2 PPG STAGE & 1147640 LBS POWER PROP 30/50 SAND IN 1/2 PPG, 1 PPG, 2 PPG & 3 PPG STAGES. ISIP 4363 PSI. FG 83. AVG RATE 76.4 BPM. MAX RATE 77.2 BPM. AVG PSI 5155 PSI. MAX PSI 6537 PSI. TURN WELL OVER TO WIRE LINE. 3870 BBLS FLUID TO RECOVER
	13:30	15:00	1.50	STG06	21		P		SET CIBP @ 10691'. PERFORATE STAGE 6 PERFORATIONS 10449' TO 10676', USING 2-3/4" OWENS TITAN 16 GRAM CHARGES, 3 JSPF, 120 DEGREE PHASING. BEGINNING PRESSURE 3600 PSI. ENDING PRESSURE 2700 PSI. TURN WELL OVER TO FRAC CREW

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2.1 Operation Summary (Continued)

Date	Time Start-End		Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	15:00	16:30	1.50	STG06	35		P		PRESSURE TEST LINES TO 9474 PSI. OPEN WELL. SICP 2292 PSI. BREAK DOWN STAGE 6 PERFORATIONS @ 3276 PSI, PUMPING 5 BPM. BRING RATE UP TO 32 BPM. PUMP 67 BBLS FLUID THEN PERFORM STEP RATE SHUT DOWN. ISIP 3094 PSI. FG .72. 5 MIN 2836 PSI. 10 MIN 2743 PSI. TREAT STAGE 6 PERFORATIONS W/ 5000 GALLONS HCL ACID, 3000LBS 100 MESH SAND IN 1/2 PPG STAGE & 150,800 LBS THS 30/50 SAND IN 1/2 PPG, 1 PPG, 2 PPG & 3 PPG STAGES. ISIP 3920 PSI. FG .80. AVG RATE 76 BPM. MAX RATE 77 BPM. AVG PSI 4603 PSI. MAX PSI 5833 PSI. 3821 BBLS FLUID TO RECOVER
	16:30	19:30	3.00	RDMO	02		P		RD FRAC EQUIPMENT & MOVE OFF LOCATION.
12/11/2014	6:00	7:30	1.50	CTU	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON COIL TBG SAFETY. FILL OUT & REVIEW JSA
	7:30	11:00	3.50	CTU	01		P		RU COIL TBG UNIT. INSTALL COIL CONNECTOR. FILL COIL. PRESSURE TEST & PULL TEST COIL CONNECTOR. MAKE UP MOTOR ASSEMBLY. FUNCTION TEST MOTOR.PRESSURE TEST STACK.
	11:00	17:30	6.50	CTU	10		P		RIH & DRILL CBP'S. CLEAN OUT TO PBTD @ 12279', COIL TBG MEASUREMENT. CIRCULATE HOLE CLEAN. POOH W/ COIL TBG UNIT
	17:30	19:30	2.00	CTU	16		P		LD TOOLS. RD COIL TBG UNIT.
	19:30	6:00	10.50	FB	19		P		FLOW WELL TO FLOW BACK TANK. RECOVERED 444 BBLS FLUID, FLOWING @ 800 PSI ON A 12/64" CHOKE.
12/12/2014	6:00	7:30	1.50	WLWORK	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON WIRELINE SAFETY. FILL OUT & REVIEW JSA
	7:30	10:00	2.50	WLWORK	27		P		RU WIRELINE UNIT. RIH & SET 4-1/2" ARROW SET PKR @ 9100'. RD WIRELINE UNIT.
	10:00	13:00	3.00	WOR	18		P		ND FRAC STACK. NU BOP. BLEED PRESSURE OFF WELL. RU RIG & SPOT CAT WALK & PIPE RACKS. MOVE TBG TO WELL HEAD
	13:00	17:30	4.50	WOR	24		P		RIH W/ ON/OFF SKIRT, 5 JTS 2-3/8"EUE TBG, X-OVER & 198 JTS 2-7/8"EUE TBG. SDFN
12/13/2014	6:00	7:30	1.50	INSTUB	28		P		TRAVEL TO LOCATION.HOLD SAFETY MEETING ON PICKING UP TBG. FILL OUT & REVIEW JSA
	7:30	9:00	1.50	INSTUB	24		P		PU 84 JTS 2-7/8"EUE TBG. TAG PKR @ 9103' SLM. RELEASE ON/OFF SKIRT LD 2 JTS TBG.
	9:00	11:30	2.50	INSTUB	06		P		CIRCULATE HOLE W/ 350 BBLS PKR FLUID.
	11:30	14:30	3.00	INSTUB	16		P		LD 1 JT TBG. PU 22' (10', 8' & 4' X 2-7/8"PUP JTS. PU 1 JT 2-7/8"EUE TBG & 6' X 2-7/8" EUE PUP JT. LAND TBG W/ BACK PRESSURE VALVE INSTALLED IN TBG HANGER. ND BOP & FRAC VALVE.REMOVE BACK PRESSURE VALVE. LD 6' PUP JT. LAND TBG IN 15K TENSION. INSTALL BACK PRESSURE VALVE IN HANGER. NU WELL HEAD. REMOVE BACK PRESSURE VALVE. PRESSURE TEST WELL HEAD & FLOW LINES TO 5000 PSI. TESTED GOOD. PRESSURE TEST ANNULUS TO 3000 PSI. TESTED GOOD. PUMP OUT PLUG @ 2800 PSI.
	14:30	15:30	1.00	RDMO	02		P		RD RIG & MOVE OFF LOCATION
	15:30	6:00	14.50	FB	19		P		OPEN WELL TO PRODUCTION FACILITY. RECOVERED156 MCF GAS, 0 BBLS OIL & 269 BBLS WTR FLOWING @ 1125 PSI ON A 12/64" CHOKE.
12/14/2014	6:00	6:30	0.50	FB	28		P		HOLD SAFETY MEETING ON FLOW BACK OPERATIONS. FILL OUT & REVIEW JSA
	6:30	6:00	23.50	FB	17		P		FLOW WELL TO PRODUCTION FACILITY. RECOVERED 156 MCF GAS, 177 BBL OIL & 198 BBLS WTR FLOWING @ 1100 PSI ON A 12/64" CHOKE
12/15/2014									

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2.1 Operation Summary (Continued)

Date	Time Start-End		Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	6:00	6:30	0.50	FB	28		P		HOLD SAFETY MEETING ON FLOW BACK OPERATIONS. FILL OUT & REVIEW JSA
	6:30	6:00	23.50	FB	19		P		FLOW WELL TO PRODUCTION FACILITY. RECOVERED 174 MCF GAS, 266 BBLS OIL & 199 BBLS WTR FLOWING @ 1000 PSI ON A 12/64" CHOKE. APPROXIMATLY 70 BBLS OIL RECOVERED WAS TRANSFERED FROM FLOW BACK TANK
12/16/2014	6:00	6:30	0.50	FB	28		P		HOLD SAFETY MEETING ON FLOW BACK OPERATIONS. FILL OUT & REVIEW JSA
	6:30	6:30	0.00	FB	19		P		FLOW WELL TO PRODUCTION FACILITY. RECOVERED 180 MCF GAS, 206 BBL OIL & 171 BBLS WTR FLOWING @ 800 PSI ON A 14/64" CHOKE
12/17/2014	6:00	6:30	0.50	FB	28		P		HOLD SAFETY MEETING ON FLOWBACK OPERATIONS. FILL OUT & REVIEW JSA
	6:30	6:00	23.50	FB	19		P		FLOW WELL TO PRODUCTION FACILITY. RECOVERED 153 MCF GAS, 186 BBLS OIL & 159 BBLS WTR FLOWING @ 700 PSI ON A 14/64" CHOKE.

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FORM 9

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

5.LEASE DESIGNATION AND SERIAL NUMBER: FEE

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:

1. TYPE OF WELL
Oil Well

8. WELL NAME and NUMBER:
DWR 4-32B5

2. NAME OF OPERATOR:
EP ENERGY E&P COMPANY, L.P.

9. API NUMBER:
43013530410000

3. ADDRESS OF OPERATOR:
1001 Louisiana , Houston, TX, 77002

PHONE NUMBER:
713 997-5138 Ext

9. FIELD and POOL or WILDCAT:
ALTAMONT

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
1458 FSL 0776 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: NESE Section: 32 Township: 02.0S Range: 05.0W Meridian: U

COUNTY:
DUCHESNE

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: 1/23/2017	☐ 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 attached procedure for the 7 stage recom at the DWR 4-32B5.

Approved by the
Utah Division of
Oil, Gas and Mining
January 09, 2017

Date:

By: Dark K Quist

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Erik Hauser	713 997-6717	Sr EHS Specialist

SIGNATURE	DATE
N/A	1/6/2017

RECEIVED: Jan. 06, 2017

DWR 4-32 B5 Recom Summary Procedure

- POOH with co-rod & tubing. Inspect/Repair/Re-furbish as needed. Replace any bad tubing.
- Set 15M CBP for 5" 18# casing @ 10,430' and dump bail 15' cmt on top of plug.
- Perform cement squeeze operations to squeeze cement from 10,175' up to 9276'. Squeeze holes @ 10,175' and composite cement retainer @ 10,100'. Confirm cement with CBL.
- Stage 1:
  - Perforate new LGR interval from **9,908' - 10,086'.**
  - Prop Frac Perforations with **100,000 lbs 30/50** (6,000 gals 15% HCl acid and 6,000 lbs 100 mesh) (Stage 1 Recom).
- Stage 2:
  - RIH with 7" CBP & set @ 9,882'.
  - Perforate new LGR interval from **9,761' - 9,867'.**
  - Prop Frac Perforations with **65,000 lbs 30/50** (4,000 gals 15% HCl acid and 4,000 lbs 100 mesh) (Stage 2 Recom).
- Stage 3:
  - RIH with 7" CBP & set @ 9,558'.
  - Perforate new LGR interval from **9,330' - 9,543'.**
  - Prop Frac Perforations with **120,000 lbs 30/50** (7,000 gals 15% HCl acid and 7,000 lbs 100 mesh) (Stage 3 Recom).
- Stage 4:
  - RIH with 7" CBP & set @ 9,225'.
  - Perforate new LGR interval from **9,136' - 9,210'.**
  - Prop Frac Perforations with **50,000 lbs 30/50** (3,000 gals 15% HCl acid and 3,000 lbs 100 mesh) (Stage 4 Recom).
- Stage 5:
  - RIH with 7" CBP & set @ 9,025'.
  - Perforate new LGR interval from **8,875' - 9,010'.**
  - Acid Frac Perforations with **16,000** gals 15% HCl acid (Stage 5 Recom).
- Stage 6:
  - RIH with 7" CBP & set @ 8,492'.
  - Perforate new LGR interval from **8,540' - 8,744'.**
  - Acid Frac Perforations with **23,000** gals 15% HCl acid (Stage 6 Recom).
- Stage 7:
  - RIH with 7" CBP & set @ 9,525'.
  - Perforate new LGR interval from **8,412' - 8,510'.**
  - Acid Frac Perforations with **12,000** gals 15% HCl acid (Stage 7 Recom).
- Clean out well drilling up (2) 7" CBPs and (3) 5" CBPs leaving (1) 5" 15M CBP @ 10,430'. Top perf BELOW plugs @ 10,449'.
- RIH w/ production tubing, pump, and rods.
- Clean location and resume production.

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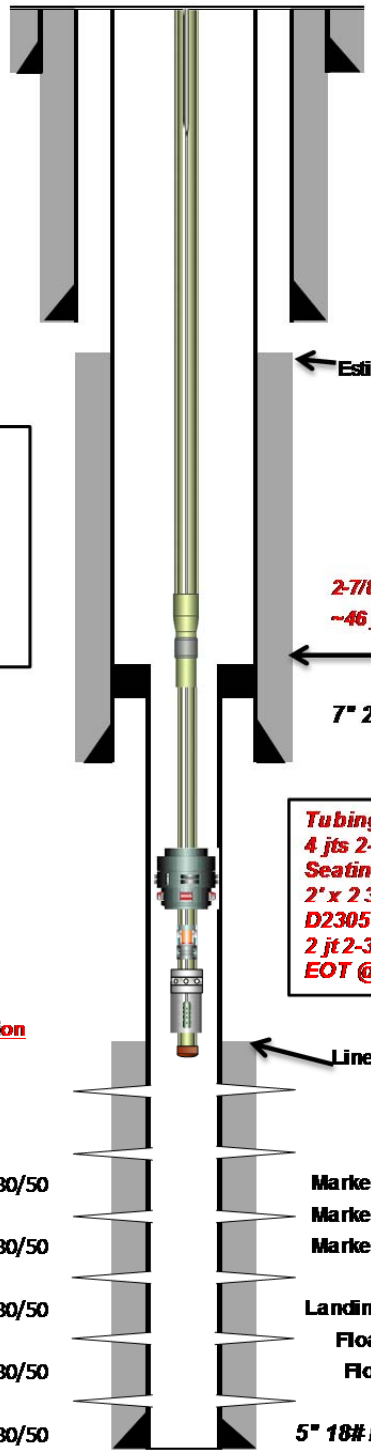
EP ENERGY

Current Pumping Wellbore Schematic

Well Name:	DWR 4-32B5	Last Updated:	1/3/2017
Company Name:	EP Energy	By:	R Fondren
Field, County, State:	Altamont, Duchesne, Utah	TD:	12,381
Surface Location:	Lat: 40°15'36.976" N Long: 110°28'03.819" W	API:	4301353041
Producing Zone(s):	Wasatch	AFE:	

8.43 ppg KCL substitute (Clay Webb Water) water in the wellbore



13-3/8" 54.5# J-55 STC @ 802 ft. MD

~270 Jts 2-7/8" 6.5# N-80 8rd Tubing

9-5/8" 40# HCL-80 LTC @ 3336 ft. MD

Estimated TOC at: 4,445' MD

Rod Detail @ 4.3 SPM
1-1/2" x 40' Polished Rod
985' - 18/16" CoRod-semi SE
955' - 17/16" CoRod-semi SE
1,156' - 16/16" CoRod-semi SE
5,506' - 15/16" CoRod-semi SE
1,500' - 16/16" CoRod-semi SE
2" x 1-1/2" x 36' 2stg HVR Insert Pump

2-7/8" x 2-3/8" Crossover @ 8,800'
~46 jts of 2-3/8" 4.7# N-80 8rd Tubing
Top of Liner at: 9,018'

7" 29# HCP-110 LTC @ 9276 ft. MD
Drift ID = 6.059"

ft MD

Tubing Anchor @ 10,075'
4 jts 2-3/8" 4.7# N-80 8rd Tubing
Seating Nipple @ ~10,200'
2' x 2 3/8" Tubing Sub
D2305 Desander
2 jt 2-3/8" Mud Anchor
EOT @~10,300'

Liner TOC at: 10,450' MD

Initial Completion Perf Information

Stage #6	10449 - 10 21' /63 shots
	5000 gal HCL & 150000 lbs TLC 30/50
Stage #5	10719 - 11 23' /69 shots
	5000 gal HCL & 150000 lbs Power Prop 30/50
Stage #4	11043 - 11 23' /69 shots
	5000 gal HCL & 150000 lbs Power Prop 30/50
Stage #3	11369 - 11 23' /69 shots
	5000 gal HCL & 150000 lbs Power Prop 30/50
Stage #2	11693 - 11 22' /66 shots
	5000 gal HCL & 150000 lbs Power Prop 30/50
Stage #1	12015 - 12 19' /57 shots
	5000 gal HCL & 150000 lbs Power Prop 30/50

Marker Joint 1 @:	9,369	ft MD
Marker Joint 2 @:	10,363	ft MD
Marker Joint 2 @:	11,358	ft MD
Landing Collar @	12,297	ft MD
Float Collar @	12,339	ft MD
Float Shoe @	12,381	ft MD

5" 18# HCP-110 STL @ 9018 - 12382 ft. MD
Drift ID = 4.151"

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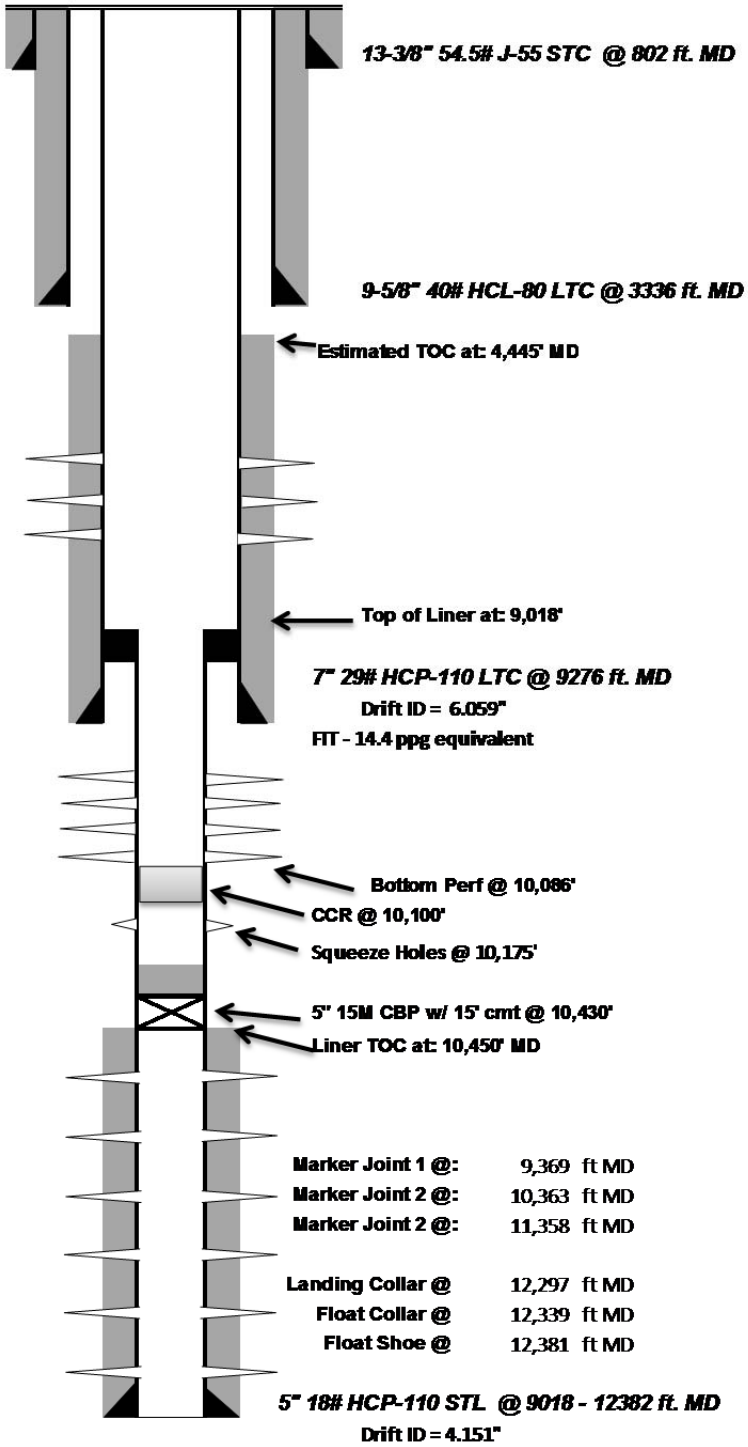
EP ENERGY

Proposed Pumping Wellbore Schematic

Well Name:	DWR 4-32B5	Last Updated:	1/3/2017
Company Name:	EP Energy	By:	R Fondren
Field, County, State:	Altamont, Duchesne, Utah	TD:	12,381
Surface Location:	Lat: 40°15'36.976" N Long: 110°28'03.819" W	API:	4301353041
Producing Zone(s):	Wasatch	AFE:	

~270 Jts 2-7/8" 6.5# N-80 8rd Tubing

2017 Recompletion
STG 7: 8,412' - 8,510' (20'/60 holes) 12,000 gals HCl
STG 6: 8,540' - 8,744' (17'/69 holes) 23,000 gals HCl
STG 5: 8,875' - 9,010' (19'/57 holes) 16,000 gals HCl
STG 4: 9,136' - 9,210' (15'/45 holes) 3,000 gals HCl + 3,000# 100M + 50,000# 30/50
STG 3: 9,330' - 9,543' (23'/69 holes) 7,000 gals HCl + 7,000# 100M + 120,000# 30/50
STG 2: 9,761' - 9,867' (19'/57 holes) 4,000 gals HCl + 4,000# 100M + 65,000# 30/50
STG 1: 9,908' - 10,086' (20'/60 holes) 6,000 gals HCl + 6,000# 100M + 100,000# 30/50



Initial Completion Perf Information

Stage #6	10449 - 10676	21' /63 shots
	5000 gal HCL & 150000 lbs TLC 30/50	
Stage #5	10719 - 11013	23' /69 shots
	5000 gal HCL & 150000 lbs Power Prop 30/50	
Stage #4	11043 - 11342	23' /69 shots
	5000 gal HCL & 150000 lbs Power Prop 30/50	
Stage #3	11369 - 11659	23' /69 shots
	5000 gal HCL & 150000 lbs Power Prop 30/50	
Stage #2	11693 - 11973	22' /66 shots
	5000 gal HCL & 150000 lbs Power Prop 30/50	
Stage #1	12015 - 12267	19' /57 shots
	5000 gal HCL & 150000 lbs Power Prop 30/50	

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