

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 EP Energy 8-20C4							
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT ALTAMONT							
4. TYPE OF WELL Oil Well <input checked="" type="checkbox"/> Coalbed Methane Well: NO <input type="checkbox"/>						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 <input type="checkbox"/>			11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>							
13. NAME OF SURFACE OWNER (if box 12 = 'fee') EP Energy						14. SURFACE OWNER PHONE (if box 12 = 'fee') 713-997-7106							
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee') 1001 Louisiana Street, Houston, TX 77002						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 <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			19. SLANT VERTICAL <input checked="" type="checkbox"/> DIRECTIONAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/>							
20. LOCATION OF WELL		FOOTAGES		QTR-QTR		SECTION		TOWNSHIP		RANGE		MERIDIAN	
LOCATION AT SURFACE		2261 FSL 791 FWL		NWSW		20		3.0 S		4.0 W		U	
Top of Uppermost Producing Zone		2261 FSL 791 FWL		NWSW		20		3.0 S		4.0 W		U	
At Total Depth		2261 FSL 791 FWL		NWSW		20		3.0 S		4.0 W		U	
21. COUNTY DUCHESNE			22. DISTANCE TO NEAREST LEASE LINE (Feet) 791			23. NUMBER OF ACRES IN DRILLING UNIT 80							
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 1500			26. PROPOSED DEPTH MD: 11900 TVD: 11900							
27. ELEVATION - GROUND LEVEL 5848			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			
Surf	12.25	9.625	0 - 2000	40.0	N-80 LT&C	0.0	Type V	386	2.23	12.0			
							Class G	194	1.3	14.3			
I1	8.75	7	0 - 8700	29.0	HCP-110 LT&C	10.2	Class G	471	1.91	12.5			
							Class G	304	1.64	13.0			
L1	6.125	5	8500 - 11900	18.0	HCP-110 LT&C	12.2	Class G	202	14.2	1.47			
ATTACHMENTS													
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES													
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER						<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN							
<input checked="" type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)						<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER							
<input type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)						<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP							
NAME Maria S. Gomez				TITLE Principal Regulatory Analyst				PHONE 713 997-5038					
SIGNATURE				DATE 10/07/2014				EMAIL maria.gomez@epenergy.com					
API NUMBER ASSIGNED 43013531660000				APPROVAL  Permit Manager									

**EP Energy 8-20C4
Sec. 20, T3S, R4W
DUCHESNE COUNTY, UT**

EP ENERGY E&P COMPANY, L.P.

DRILLING PROGRAM

1. Estimated Tops of Important Geologic Markers

<u>Formation</u>	<u>Depth</u>
Green River (GRRV)	3,842' TVD
Green River (GRTN1)	4,551' TVD
Mahogany Bench	5,444' TVD
L. Green River	6,754' TVD
Wasatch	8,614' TVD
T.D. (Permit)	11,900' TVD

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

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
	Green River (GRRV)	3,842' MD/TVD
	Green River (GRTN1)	4,551' MD/TVD
	Mahogany Bench	5,444' MD/TVD
Oil	L. Green River	6,754' MD/TVD
Oil	Wasatch	8,614' MD/TVD

3. Pressure Control Equipment: (Schematic Attached)

A Diverter Stack on structural pipe from 40' MD/TVD to 2,000' MD/TVD. A 10M BOP stack w/ rotating head, spacer spool, 5M annular, flex rams, blind rams & single w/ flex rams used from 2,000' MD/TVD to 8,700' MD/TVD. A 10M BOP stack w/ rotating head, spacer spool, 5M annular, flex rams, blind rams & single w/ flex rams from 8,700' MD/TVD to TD (11,900' MD/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 nipped 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 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 # 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 2,000' - TD
- B) Mud logger with gas monitor – 2,000' 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

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	Air	Air
Intermediate	WBM	9.3 – 10.2
Production	WBM	11.0 – 12.2

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: 2,000' 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 11,900' TVD equals approximately 7,549 psi. This is calculated based on a 0.6344 psi/ft gradient (12.2 ppg mud density at TD).

Maximum anticipated surface pressure equals approximately 4,931 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 8,700' TVD = 6,960 psi

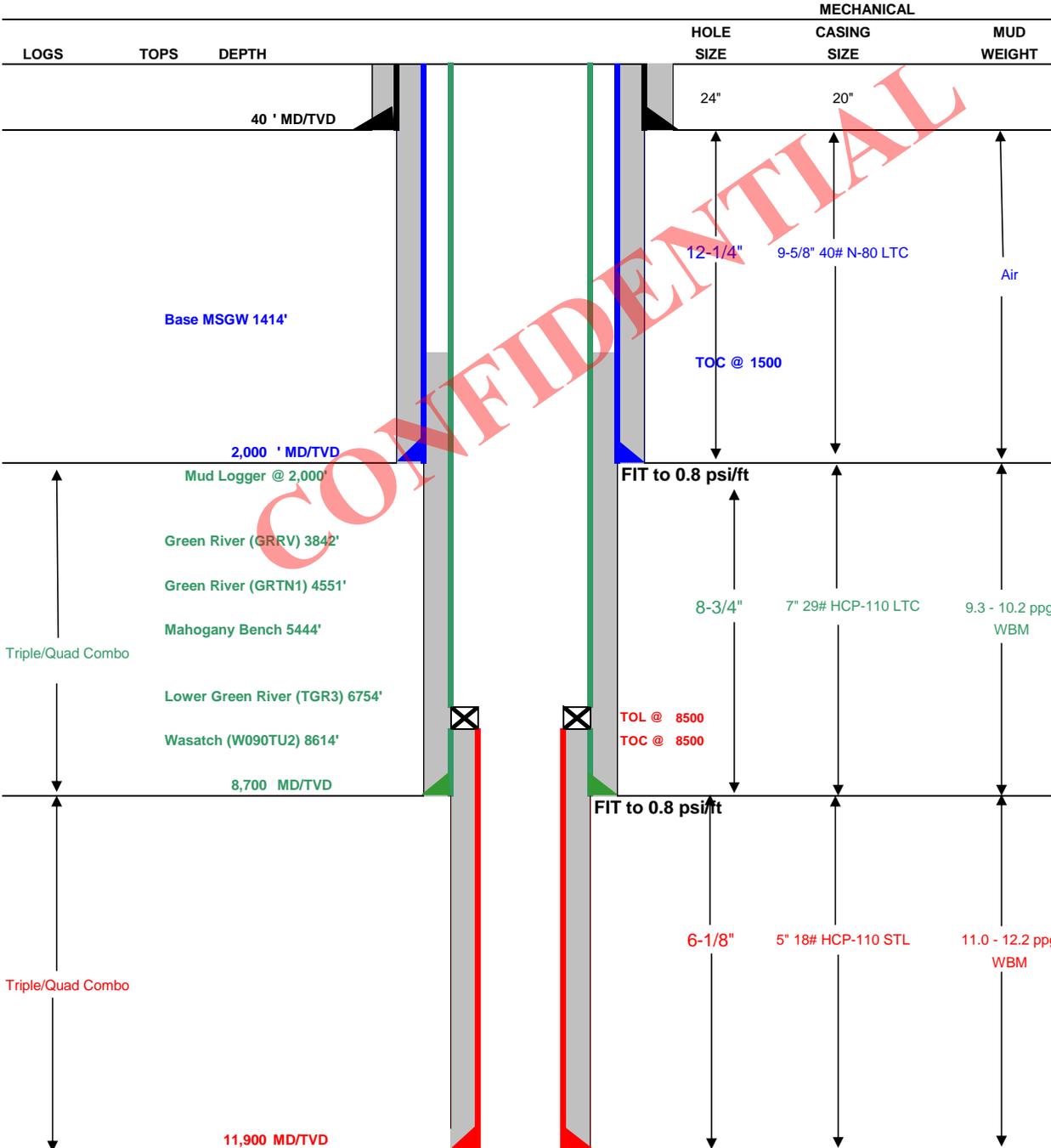
BOPE and casing design will be based on the lesser of the two MASPs which is 4,931 psi.

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



Drilling Schematic

Company Name: EP ENERGY	Date: September 30, 2014
Well Name: EP Energy 8-20C4	TD: 11,900
Field, County, State: Altamont, Duchesne, Utah	AFE #: TBD
Surface Location: Sec 20 T3S R4W 2261' FSL 791' FWL	BHL: Straight Hole
Objective Zone(s): Green River, Wasatch	Elevation: 5847
Rig: Precision 404	Spud (est.): TBD
BOPE Info: Diverter System on structural pipe from 40' to 2,000' . 11 10M BOPE w/ rotating head & 5M annular from 2,000' to 8,700' . 11 10M BOPE w/ rotating head, spacer spool, 5M annular, flex rams, blind rams, single w/ flex rams from 8,700' to TD	



DRILLING PROGRAM

CASING PROGRAM	SIZE	INTERVAL		WT.	GR.	CPLG.	BURST	COLLAPSE	TENSION
SURFACE	9-5/8"	0	2000	40.00	N-80	LTC	5,750	3,090	737
INTERMEDIATE	7"	0	8700	29.00	HCP-110	LTC	11,220	9,750	797
PRODUCTION LINER	5'	8500	11900	18.00	HCP-110	STL	13,940	15,450	495

CEMENT PROGRAM		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
CONDUCTOR		40	Class G + 3% CACL2	142	100%	15.8 ppg	1.15
SURFACE	Lead	1,500	EXTENDACEM SYSTEM: Type V Cement + 2% Cal-Seal 60 + 0.35% Versaset + 0.3% D-Air 5000 + 2% Econolite + 0.125 lb/sk Pol-E-Flake + 0.3% HR-5	386	75%	12.0 ppg	2.23
	Tail	500	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	194	50%	14.3 ppg	1.30
INTERMEDIATE	Lead	4,700	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	471	30%	12.5 ppg	1.91
	Tail	2,500	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	304	30%	13.0 ppg	1.64
PRODUCTION LINER		3,400	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	202	25%	14.20	1.47

FLOAT EQUIPMENT & CENTRALIZERS	
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 +/- 6,750'.
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



EP ENERGY 8-20C4
WELL LOCATION: NW/SW SECTION 20, T.3S, R.4W. U.S.B.&M.
DUCHESNE COUNTY, UTAH

PROCEED IN AN EASTERLY DIRECTION FROM DUCHESNE, UT ALONG HIGHWAY 87 APPROXIMATELY 3.5 MILES TO THE JUNCTION OF THIS ROAD AND 6000 S TO THE EAST; TURN RIGHT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 1.2 MILES TO THE JUNCTION OF THIS ROAD AND AN UNNAMED ACCESS ROAD TO THE SOUTH; TURN RIGHT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 0.5 MILES TO THE JUNCTION OF THIS ROAD AND AN UNNAMED ACCESS ROAD TO THE WEST; TURN RIGHT AND PROCEED IN A WESTERLY THEN SOUTHERLY DIRECTION APPROXIMATELY 0.2 MILES TO THE JUNCTION OF THIS ROAD AND THE PROPOSED ACCESS ROAD TO THE EAST; TURN LEFT AND FOLLOW ROAD FLAGS IN AN EASTERLY DIRECTION APPROXIMATELY 96 FEET TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM DUCHESNE, UTAH TO THE PROPOSED LOCATION IS APPROXIMATELY 5.5 MILES.

CONFIDENTIAL



OUTLAW
ENGINEERING INC.

P.O. BOX 1800
ROOSEVELT, UTAH 84066
(435) 232-4321



EP ENERGY 8-20C4

WELL LOCATION: NW/SW SECTION 20, T.3S, R.4W, U.S.B.&M.
DUCHESNE COUNTY, UTAH



Photo: View of location stake

Camera Angle: Easterly



Photo: View from beginning of proposed access

Camera Angle: Southerly



**OUTLAW
ENGINEERING INC.**

P.O. BOX 1800
ROOSEVELT, UTAH 84066
(435) 232-4321

Location Photos

VERSION:	V2
SURVEYED:	9-4-14

SEPTEMBER 9, 2014
AUTHOR: BWH

PHOTO

PARCEL INFORMATION SHOWN HAS NOT BEEN SURVEYED BY OUTLAW ENGINEERING, INC. AND MAY NOT REFLECT ACTUAL LOCATION OF PROPERTY LINES.

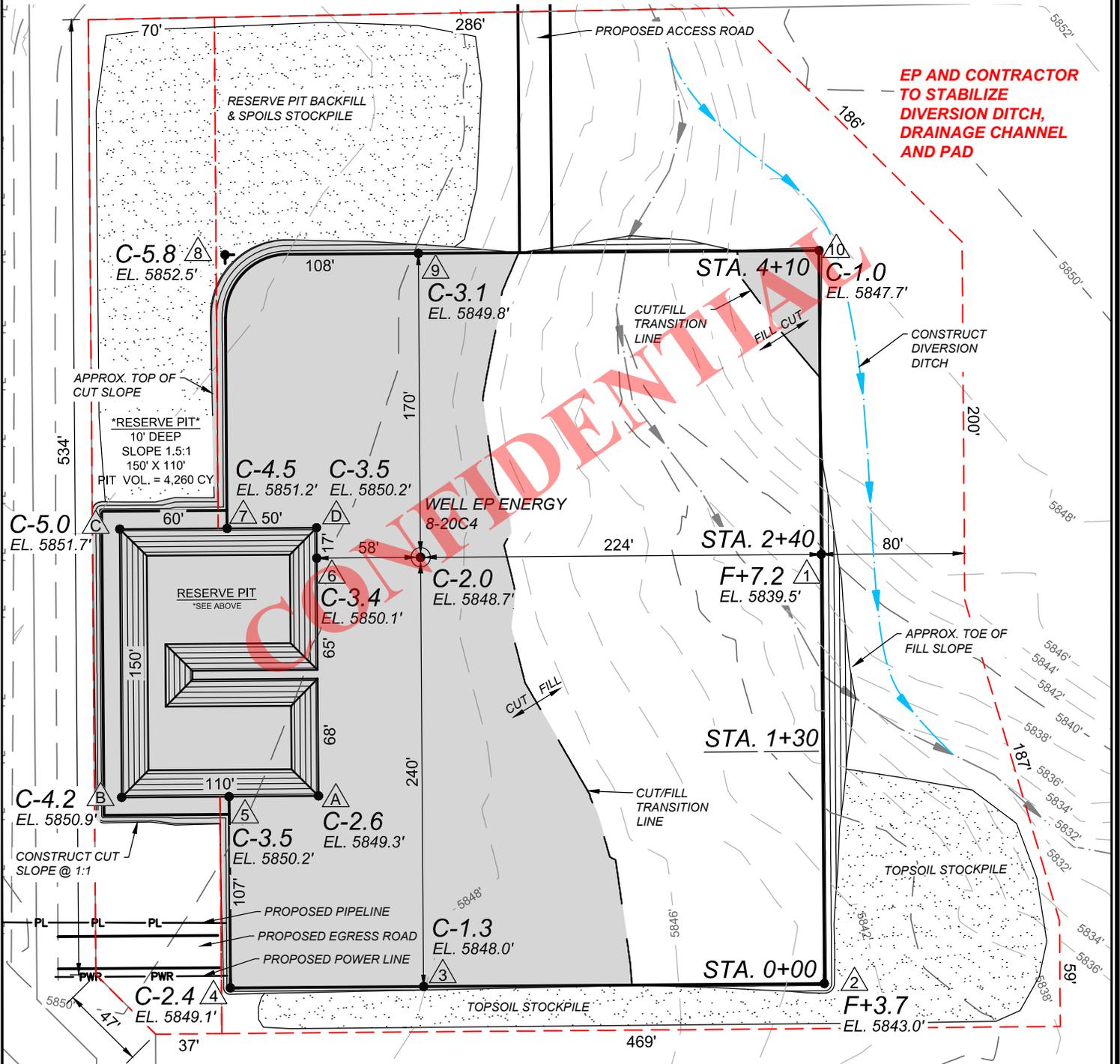


PROPOSED LOCATION LAYOUT

EP ENERGY 8-20C4

WELL LOCATION: NW/SW SECTION 20, T3S, R4W, U.S.B.&M.

DUCHESNE COUNTY, UTAH

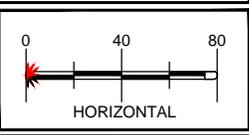


LEGEND	
	EXISTING CONTOURS
	PROPOSED CONTOURS
	LIMITS OF DISTURBANCE
	EXISTING FENCE
	CORNER NUMBER
	CUT/FILL NUMBER
	EXISTING GRADE
	PROPOSED WELL LOCATION

SUMMARY	
EXISTING GRADE @ CENTER OF WELL= 5848.7'	
FINISH GRADE ELEVATION = 5846.7'	
CUT SLOPES = 1.5 : 1	
FILL SLOPES = 1.5 : 1	
TOTAL WELL PAD AREA = 3.40 ACRES	
TOTAL WELL PAD DISTURBANCE AREA = 6.34 ACRES	
QUANTITIES	
GRUB =	NET CUT 2,750 CU YDS
FINISH =	CUT 11,350 CU YDS
	FILL 11,350 CU YDS
	NET CUT 0 CU YDS

PROPOSED LOCATION LAYOUT
EP ENERGY 8-20C4
 WELL LOCATION: NW/SW SECTION 20, T3S, R4W, U.S.B.&M.
 DUCHESNE COUNTY, UTAH

OUTLAW ENGINEERING INC.
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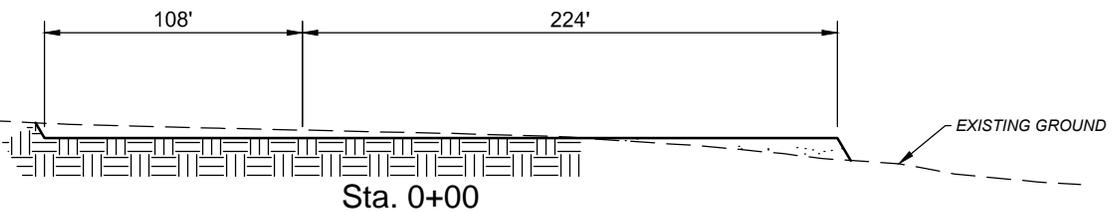
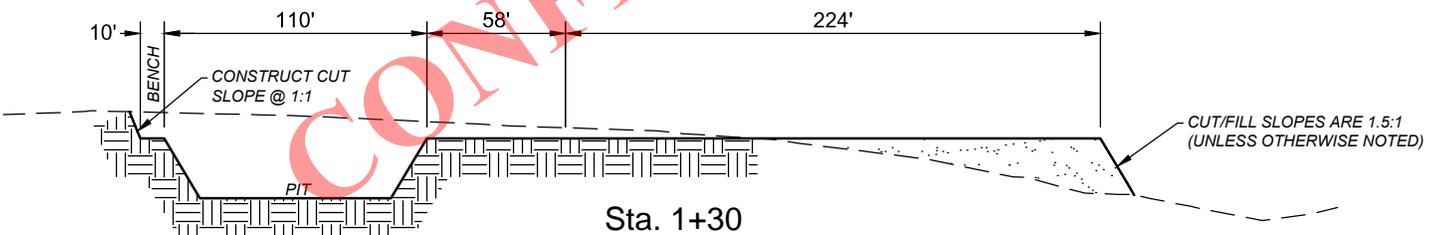
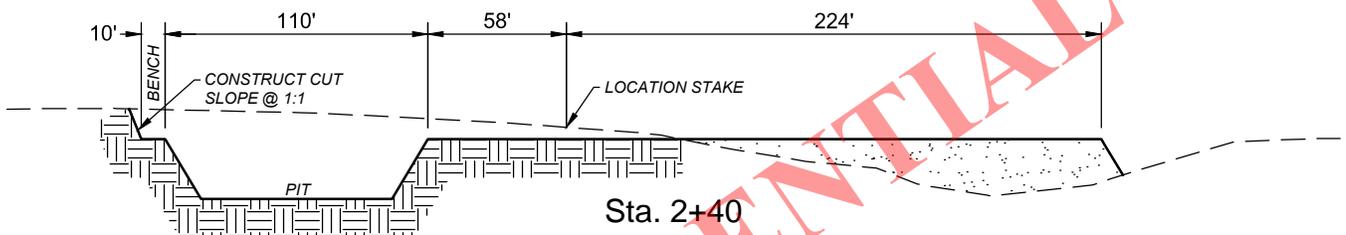
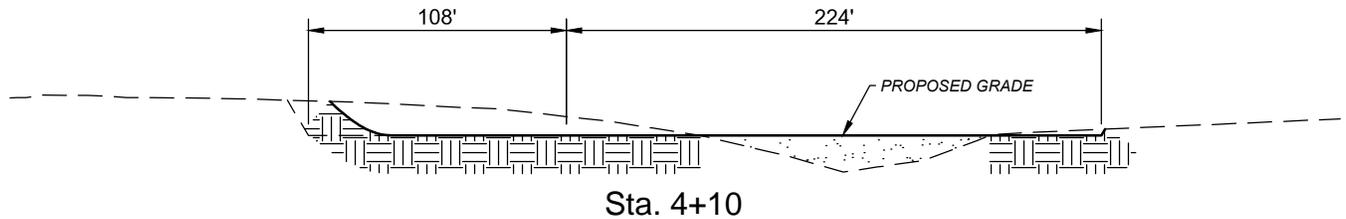
PAD/PIT GRADING	AUGUST 20, 2014	SHEET NO.
	SCALE: 1" = 80'	2
	DESIGN: MA,RFII DRAWN: JMH	



CROSS SECTIONS

EP ENERGY 8-20C4

WELL LOCATION: NW/SW SECTION 20, T3S, R4W, U.S.B.&M.
 DUCHESNE COUNTY, UTAH



LEGEND

- EXISTING CONTOURS
- PROPOSED CONTOURS

SUMMARY

EXISTING GRADE @ CENTER OF WELL= 5848.7'
 FINISH GRADE ELEVATION = 5846.7'
 CUT SLOPES = 1.5 : 1
 FILL SLOPES = 1.5 : 1
 TOTAL WELL PAD AREA = 3.40 ACRES
 TOTAL WELL PAD DISTURBANCE AREA = 6.34 ACRES

QUANTITIES

GRUB = NET CUT 2,750 CU YDS
 FINISH = CUT 11,350 CU YDS
 FILL 11,350 CU YDS
 NET CUT 0 CU YDS

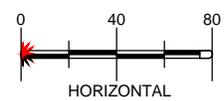
CROSS SECTIONS

EP ENERGY 8-20C4

WELL LOCATION: NW/SW SECTION 20, T3S, R4W, U.S.B.&M.
 DUCHESNE COUNTY, UTAH



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 ROOSEVELT, UTAH 84066
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CROSS SECTIONS

AUGUST 20, 2014
 SCALE: 1" = 80'
 DESIGN: MA,RFII DRAWN: JMH

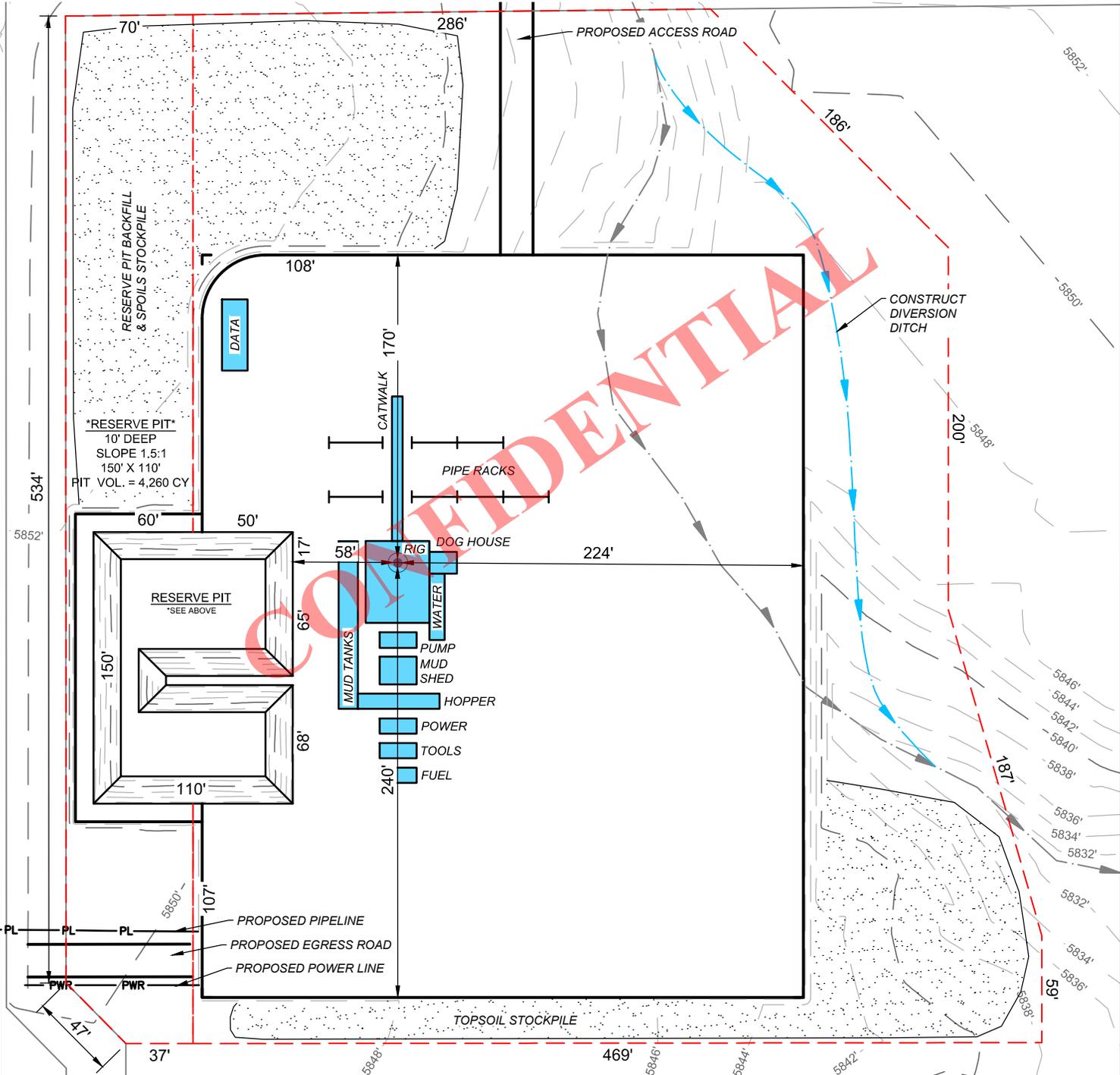
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RIG LAYOUT

EP ENERGY 8-20C4

WELL LOCATION: NW/SW SECTION 20, T3S, R4W, U.S.B.&M.
 DUCHESNE COUNTY, UTAH



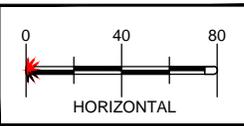
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LEGEND	
	EXISTING CONTOURS
	PROPOSED CONTOURS
	LIMITS OF DISTURBANCE
	EXISTING FENCE
	CORNER NUMBER
	CUT/FILL NUMBER
	EXISTING GRADE
	PROPOSED WELL LOCATION

SUMMARY
 SEE CROSS SECTION SHEET FOR SUMMARY

RIG LAYOUT
EP ENERGY 8-20C4
 WELL LOCATION: NW/SW SECTION 20, T3S, R4W, U.S.B.&M.
 DUCHESNE COUNTY, UTAH

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RIG LAYOUT

AUGUST 20, 2014
 SCALE: 1" = 80'
 DESIGN: MA,RFII DRAWN: JMH

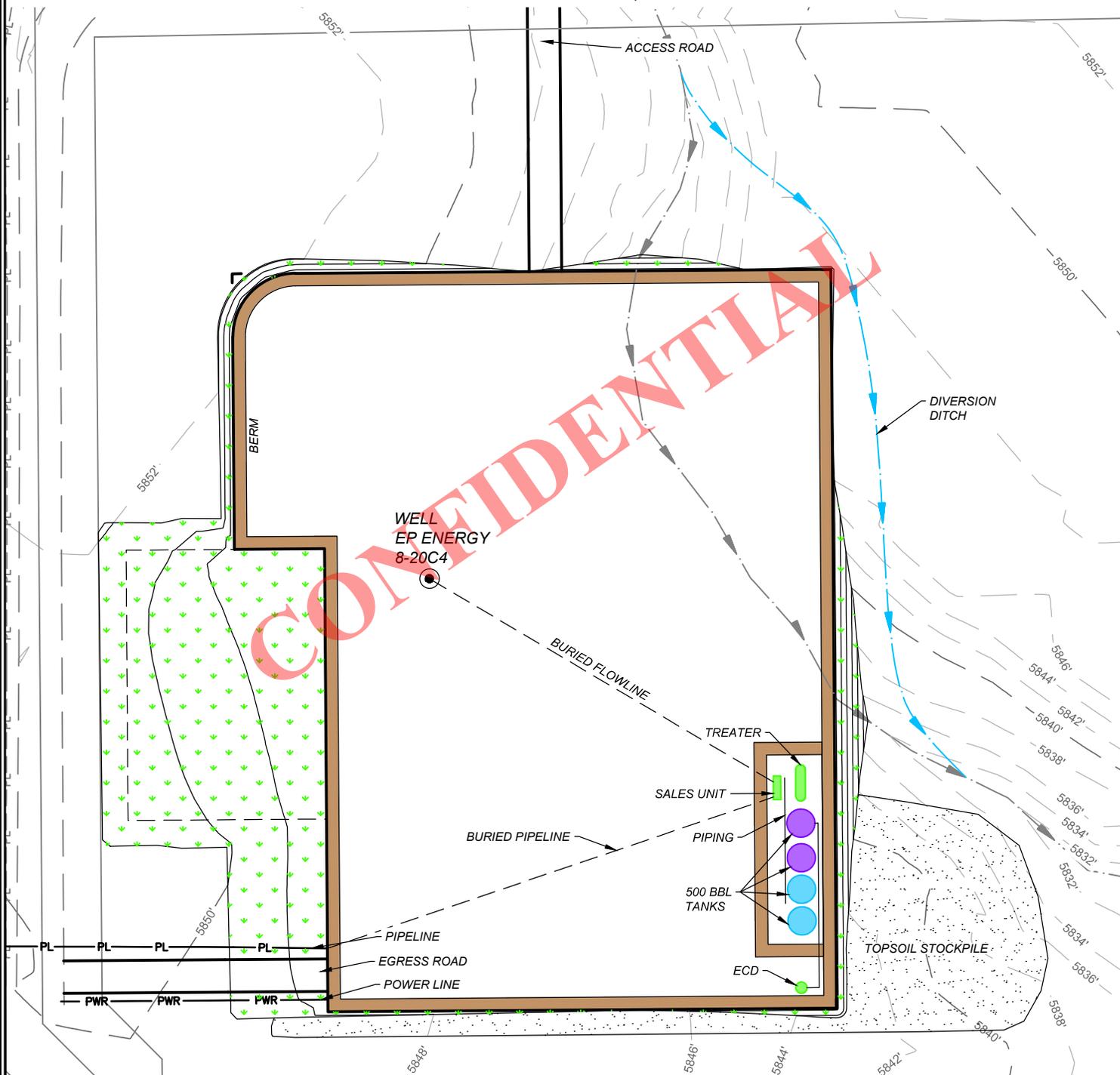
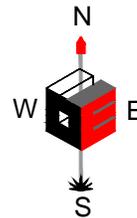
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PRODUCTION FACILITY LAYOUT

EP ENERGY 8-20C4

WELL LOCATION: NW/SW SECTION 20, T3S, R4W, U.S.B.&M.
 DUCHESNE COUNTY, UTAH



<p>LEGEND</p> <ul style="list-style-type: none"> — EXISTING CONTOURS - - - PROPOSED CONTOURS - - - LIMITS OF DISTURBANCE -x-x- EXISTING FENCE — BERM 	<p>▲ CORNER NUMBER F+5.7 CUT/FILL NUMBER EL. 5860.8' EXISTING GRADE ● PROPOSED WELL LOCATION * * * RECLAIMED AREA</p>	<p>SUMMARY</p> <p>APPROX UN-RECLAIMED AREA = 2.82 ACRES APPROX RECLAIMED AREA = 0.57 ACRES</p>	<p>PRODUCTION FACILITY LAYOUT EP ENERGY 8-20C4 WELL LOCATION: NW/SW SECTION 20, T3S, R4W, U.S.B.&M. DUCHESNE COUNTY, UTAH</p>			
		<p>EP ENERGY</p> <table border="1"> <tr> <td data-bbox="1006 1953 1201 2037"> <p>PRODUCTION LAYOUT</p> </td> <td data-bbox="1201 1953 1412 2037"> <p>AUGUST 20, 2014 SCALE: 1" = 80' DESIGN: MA,RFII DRAWN: JMH</p> </td> <td data-bbox="1412 1953 1547 2037"> <p>SHEET NO. 5</p> </td> </tr> </table>		<p>PRODUCTION LAYOUT</p>	<p>AUGUST 20, 2014 SCALE: 1" = 80' DESIGN: MA,RFII DRAWN: JMH</p>	<p>SHEET NO. 5</p>
<p>PRODUCTION LAYOUT</p>	<p>AUGUST 20, 2014 SCALE: 1" = 80' DESIGN: MA,RFII DRAWN: JMH</p>	<p>SHEET NO. 5</p>				

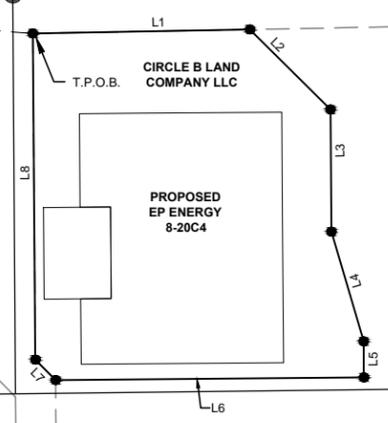
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PREVIOUSLY PLATTED
RIGHT OF WAY FOR
KT VI PROPERTIES 2-20C4

FOUND GLO BRASS CAP
WEST QUARTER CORNER
SECTION 20
T. 3 S., R. 4 W., U.S.

S85° 35' 55"E
707.46



PREVIOUSLY PLATTED
RIGHT OF WAY FOR
KT VI PROPERTIES 2-20C4

LINE #	DIRECTION	LENGTH
L1	N88° 57' 17"E	356.20
L2	S45° 18' 27"E	186.00
L3	S00° 25' 07"E	199.99
L4	S16° 25' 32"E	187.35
L5	S00° 25' 07"E	59.04
L6	S89° 30' 51"W	505.76
L7	N44° 59' 12"W	47.09
L8	N00° 27' 03"W	534.05

BASIS OF BEARING
S00° 01' 26"E 2632.31'

FOUND GLO BRASS CAP
SOUTHWEST CORNER
SECTION 20
T. 3 S., R. 4 W., U.S.B.&M.

FOUND 1/2" REBAR
SOUTH QUARTER CORNER
SECTION 20, T. 3 S., R. 4 W., U.S.B.&M.

N88° 56' 32"E 2675.22'

EP ENERGY
LOCATION SURFACE AREA RIGHT-OF-WAY SURVEY ON
CIRCLE B LAND COMPANY LLC FEE LANDS FOR
EP ENERGY 8-20C4
LOCATED IN SECTION 20 TOWNSHIP 3 S., RANGE 4 W., U.S.B.&M.
DUCHESNE COUNTY, UTAH

SURVEYOR'S CERTIFICATE
I, DAN E. KNOWLDEN JR. DO HEREBY CERTIFY THAT I AM A REGISTERED LAND SURVEYOR AND THAT I HOLD CERTIFICATE NO. 7173588 AS PRESCRIBED UNDER THE LAWS OF THE STATE OF UTAH AND THAT A SURVEY OF THE DESCRIBED PROPERTY HEREIN WAS PERFORMED UNDER MY DIRECTION.



SURFACE USE AREA DESCRIPTION
COMMENCING AT THE WEST QUARTER CORNER OF SECTION 20, TOWNSHIP 3 SOUTH, RANGE 4 WEST OF THE UTAH SPECIAL BASE AND MERIDIAN AND RUNNING THENCE SOUTH 85° 35' 55" EAST 707.46 FEET, TO THE RIGHT-OF-WAY LINE FOR KT VI PROPERTIES 2-20C4 AND THE TRUE POINT OF BEGINNING; THENCE NORTH 88° 57' 17" EAST 356.20 FEET ALONG SAID NORTH RIGHT-OF-WAY LINE; THENCE SOUTH 45° 18' 27" EAST 186.00 FEET; THENCE SOUTH 00° 25' 07" EAST 199.99 FEET; THENCE SOUTH 16° 25' 32" EAST 187.35 FEET; THENCE SOUTH 00° 25' 07" EAST 59.04 FEET; THENCE SOUTH 89° 30' 51" WEST 505.76 FEET, TO THE EAST RIGHT-OF-WAY LINE FOR KT VI PROPERTIES 2-20C4; THENCE NORTH 44° 59' 12" WEST 47.09 FEET, ALONG SAID RIGHT-OF-WAY LINE; THENCE NORTH 00° 27' 03" WEST 534.05 FEET, ALONG SAID RIGHT-OF-WAY LINE, TO THE TRUE POINT OF BEGINNING.

SURFACE USE AREA
CIRCLE B LAND COMPANY LLC = 6.34 ACRES, MORE OR LESS

- LEGEND**
- = FOUND SECTION CORNER
 - = FOUND REBAR ORIGINAL CORNER
 - = SECTION LINE
 - = QUARTER SECTION LINE
 - = SIXTEENTH SECTION LINE

SCALE: 1" = 300'
11X17 SHEET

SHEET
RIGHT-OF-WAY PLAT

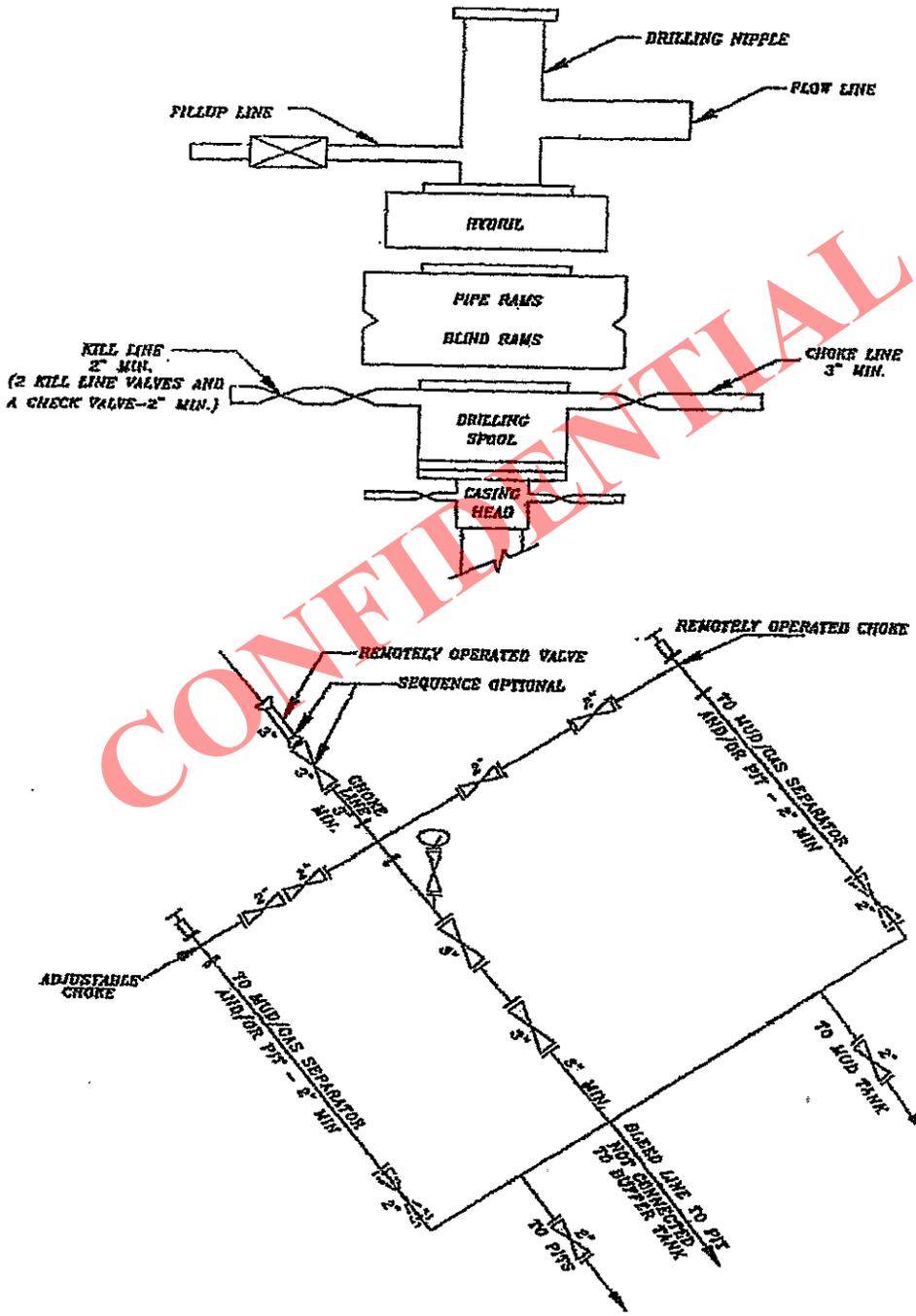
EP ENERGY



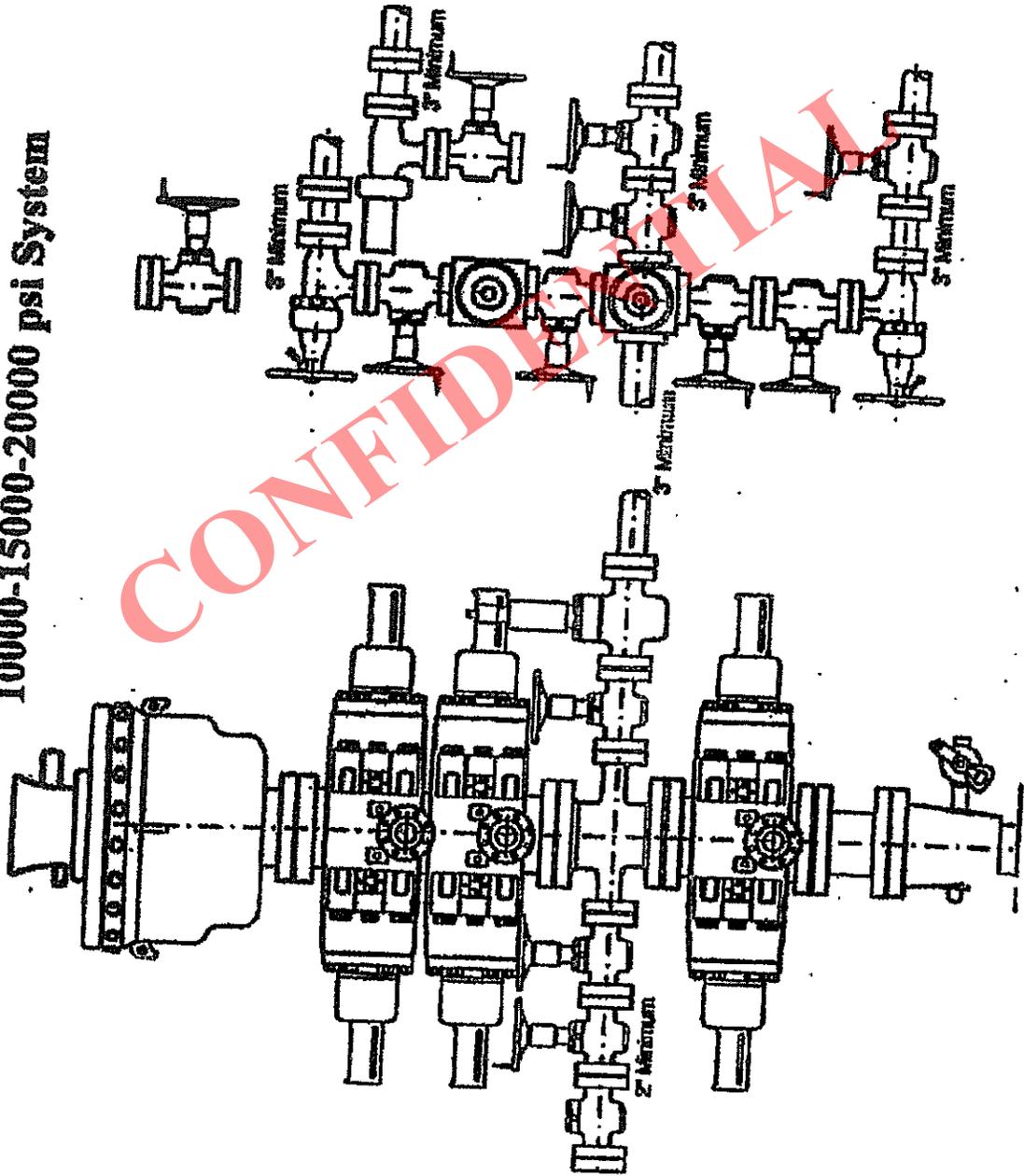
PLAT NO. 210 | DATE SEPTEMBER 5, 2014 | SHEET NO. 1 OF 1

RECEIVED: October 07, 2014

5M BOP STACK and CHOKE MANIFOLD SYSTEM



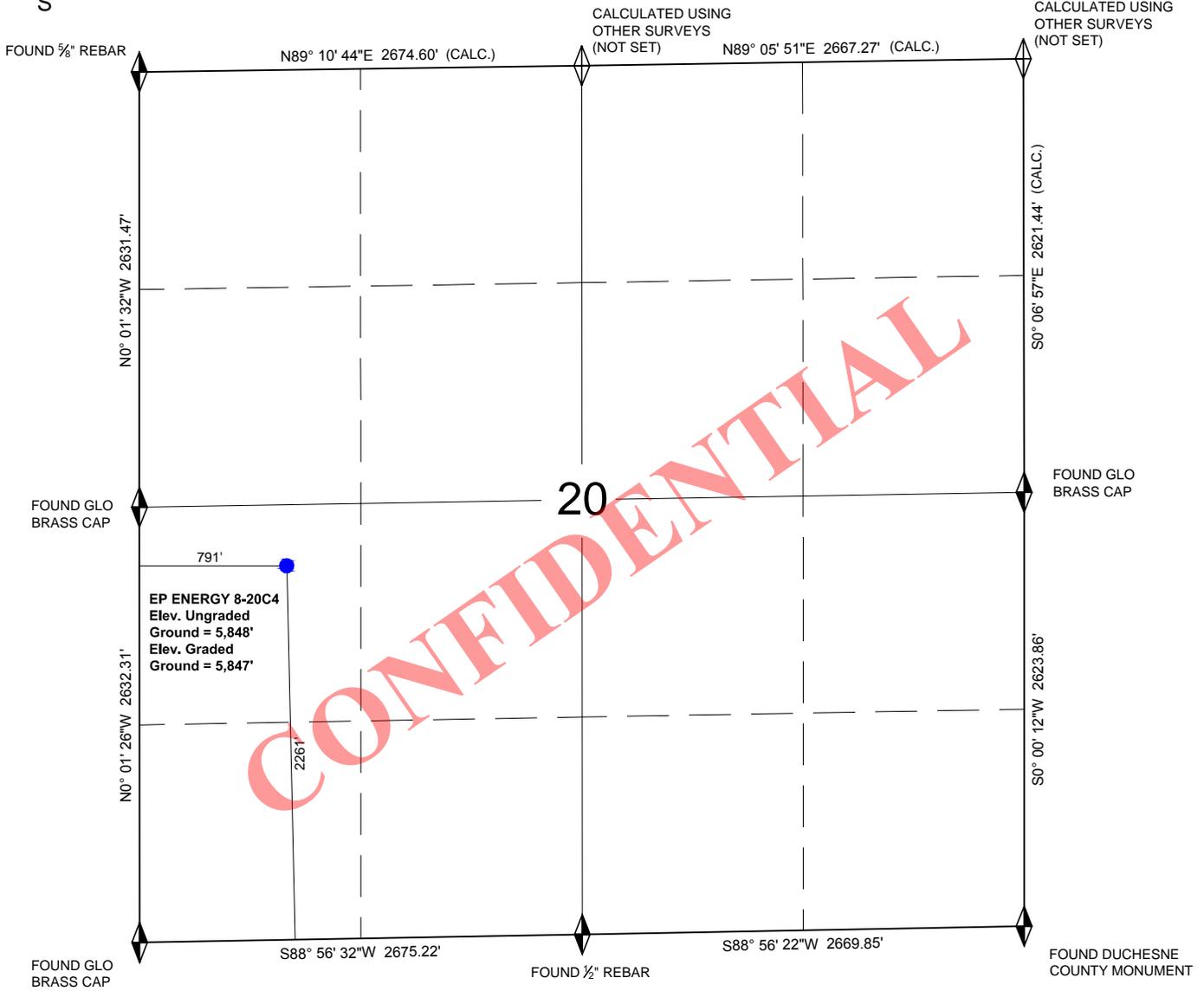
10000-15000-20000 psi System





EP ENERGY
WELL LOCATION PLAT
WELL: EP ENERGY 8-20C4

PAD LOCATION: NW/SW, SECTION 20, T.3S, R.4W, U.S.B.&M.
 DUCHESNE COUNTY, UTAH



CONFIDENTIAL

CERTIFICATE
 THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM THE FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION, AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

LEGEND

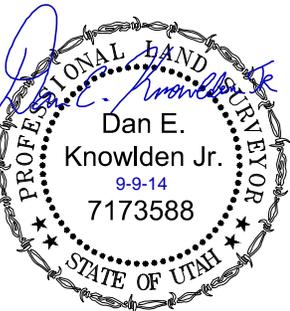
- = FOUND SECTION CORNER
- = CALC. SECTION CORNER
- = PROPOSED WELL HEAD

NOTES:

1. WELL FOOTAGES ARE MEASURED AT RIGHT ANGLES TO THE SECTION LINE.
2. ALL BEARINGS AND DISTANCES ARE MEASURED UNLESS OTHERWISE NOTED.
3. BEARINGS ARE DERIVED FROM G.P.S. OBSERVATIONS AND EQUIPMENT.
4. THE GENERAL LAND OFFICE G.L.O. PLAT WAS USED FOR REFERENCE

BASIS OF ELEVATION

SPOT ELEVATION AT THE WEST QUARTER CORNER OF SECTION 20, T3S, R4W, U.S.B.&M. NAVD 88 DATUM USING THE UTAH REFERENCE NETWORK SYSTEM. SAID ELEVATION IS 5855.61 FEET.



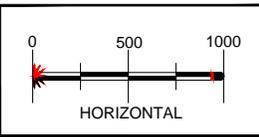
REGISTERED LAND SURVEYOR
 REGISTRATION NO. 7173588
 STATE OF UTAH

OUTLAW ENGINEERING INC.
 P.O. BOX 1800
 ROOSEVELT, UTAH 84066
 (435) 232-4321

EP ENERGY

WELL LOCATION PLAT
WELL: EP ENERGY 8-20C4
 PAD LOCATION: NW/SW SECTION 20,
 T.3 S., R. 4 W., U.S.B.&M.
 DUCHESNE COUNTY, UTAH

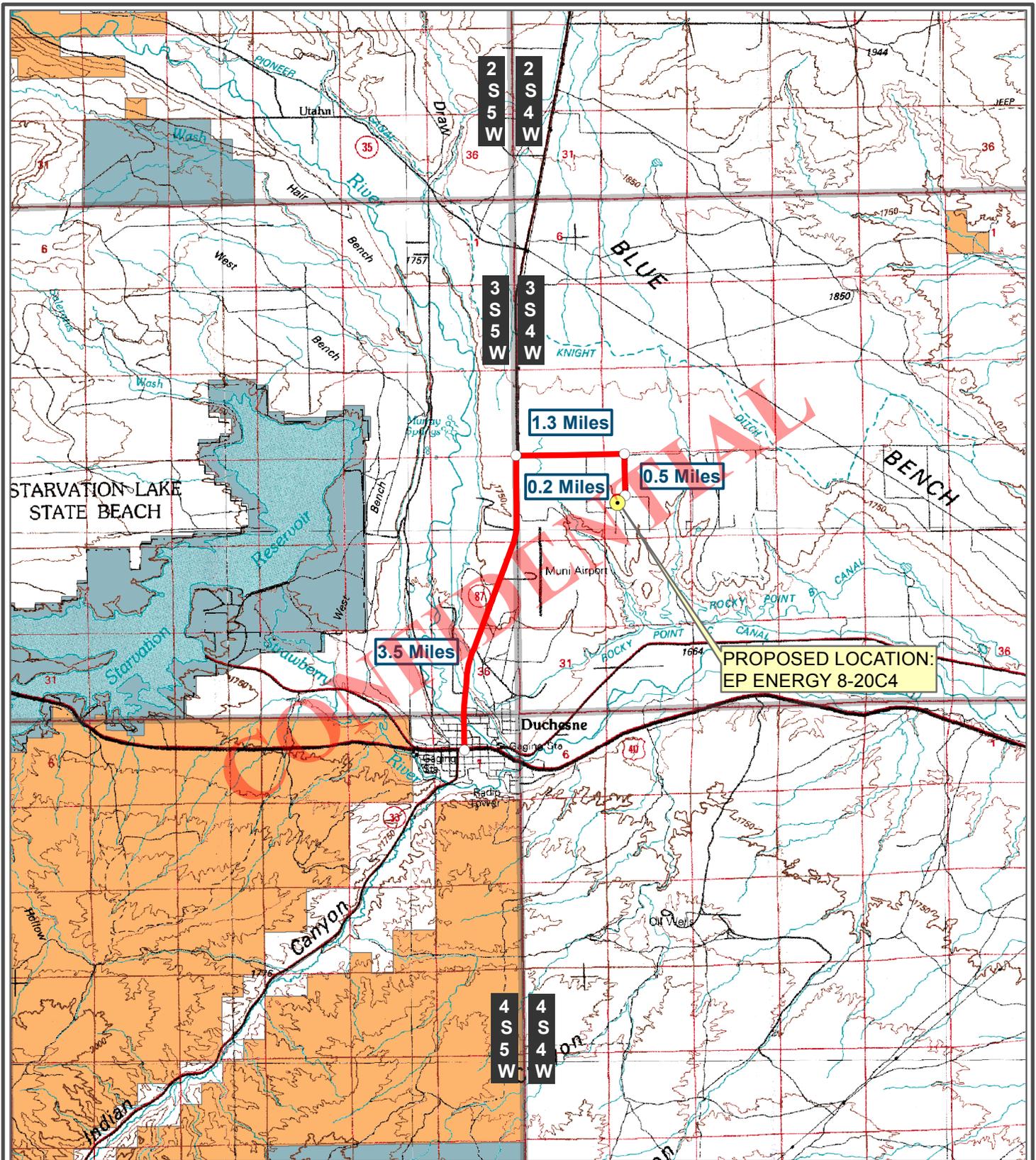
NAD 83 SURFACE LOCATION
LATITUDE = 40.204867
LONGITUDE = 110.366881
NAD 27 SURFACE LOCATION
LATITUDE = 40.204908
LONGITUDE = 110.366169



WELL PLAT

DATE SURVEYED: AUGUST 25, 2014
SURVEYED BY: DK/CW
DRAWN: AUGUST 27, 2014
DRAWN: DEK
SCALE: 1" = 1000'

SHEET NO.
1



PARCEL INFORMATION SHOWN HAS NOT BEEN SURVEYED BY OUTLAW ENGINEERING, INC. AND MAY NOT REFLECT ACTUAL LOCATION OF PROPERTY LINES

LEGEND

- EP Energy 8-20C4 Site Location
- Proposed Access Road
- Existing Access Road

- Federal
- Private
- State
- Tribal

EP ENERGY 8-20C4

WELL LOCATION: NW/SW SECTION 20, T.3S, R.4W, U.S.B.&M.
DUCHEсне COUNTY, UTAH



Site Location

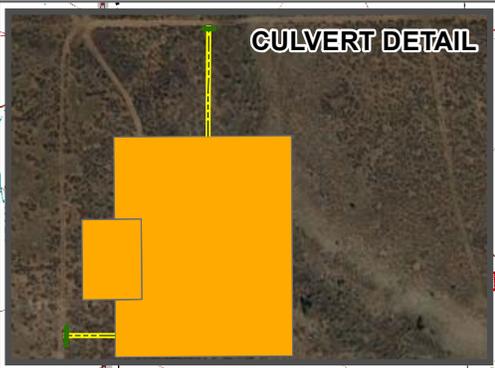
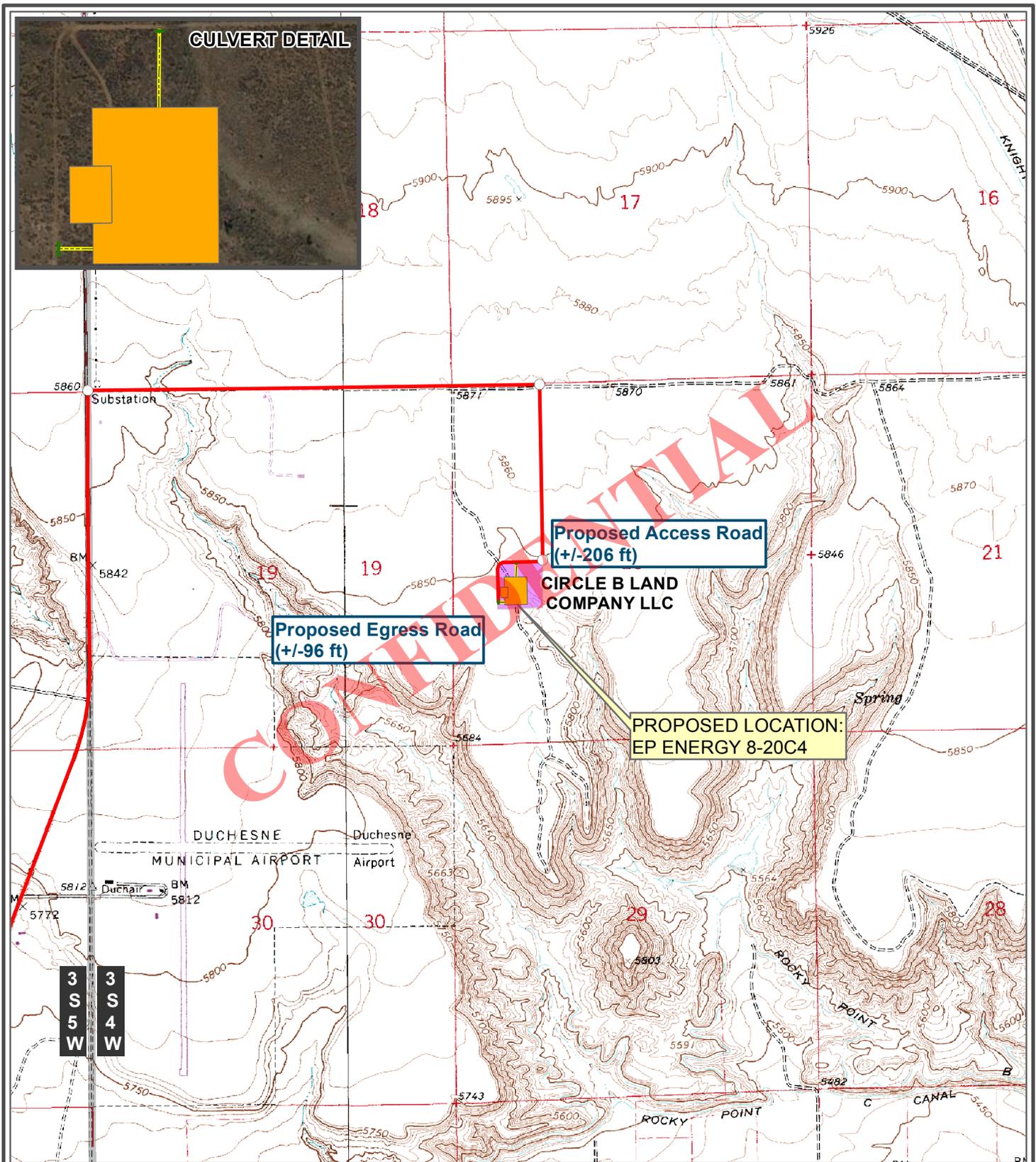


VERSION: **V2**
SURVEYED: **9-4-14**

USGS 7.5' Duchesne NE Quadrangle

SEPTEMBER 9, 2014
SCALE: 1" = 8,342'
AUTHOR: BWH

SHEET
A



PROPOSED

Proposed Access Road (+/-206 ft)

Proposed Egress Road (+/-96 ft)

CIRCLE B LAND COMPANY LLC

PROPOSED LOCATION: EP ENERGY 8-20C4

OUTLAW ENGINEERING INC.
 P. O. BOX 1800
 ROOSEVELT, UTAH 84066
 (435) 232-4321



PARCEL INFORMATION SHOWN HAS NOT BEEN SURVEYED BY OUTLAW ENGINEERING, INC. AND MAY NOT REFLECT ACTUAL LOCATION OF PROPERTY LINES

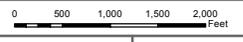
- LEGEND**
- Proposed Access Road
 - Culvert Required
 - Existing Access Road
 - Proposed Pad

EP ENERGY 8-20C4

WELL LOCATION: NW/SW SECTION 20, T.3S, R.4W, U.S.B.&M.
 DUCHESNE COUNTY, UTAH



Proposed Access Road



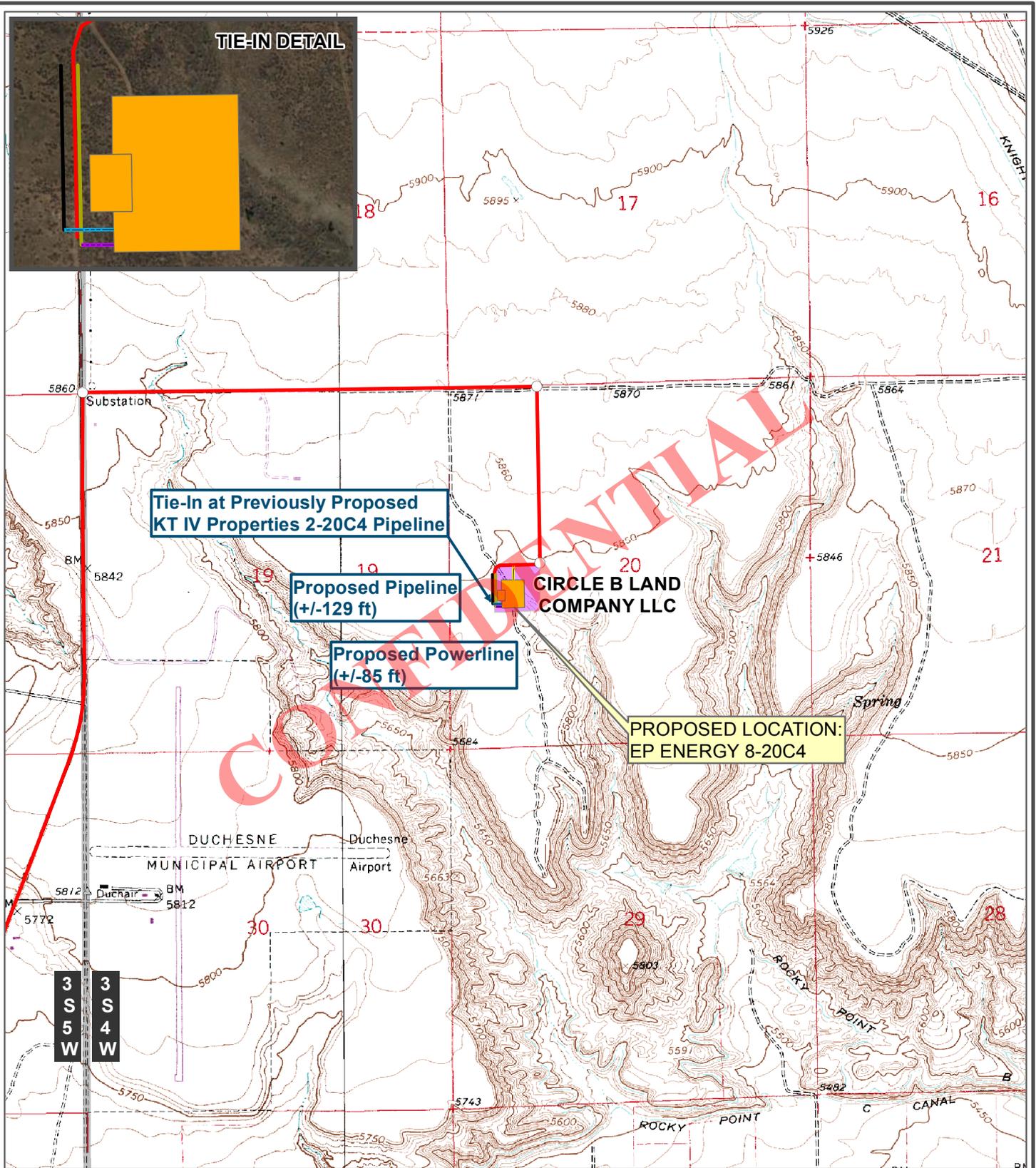
VERSION: **V2**
 SURVEYED: **9-4-14**

- Federal
- Private
- State
- Tribal

USGS 7.5' Duchesne NE Quadrangle
 2014 Google Imagery

SEPTEMBER 9, 2014
 SCALE: 1" = 2,000'
 AUTHOR: BWH

SHEET **B**



Tie-In at Previously Proposed KT IV Properties 2-20C4 Pipeline

Proposed Pipeline (+/-129 ft)

Proposed Powerline (+/-85 ft)

PROPOSED LOCATION: EP ENERGY 8-20C4

CIRCLE B LAND COMPANY LLC

OUTLAW ENGINEERING INC.
 P. O. BOX 1800
 ROOSEVELT, UTAH 84066
 (435) 232-4321



PARCEL INFORMATION SHOWN HAS NOT BEEN SURVEYED BY OUTLAW ENGINEERING, INC. AND MAY NOT REFLECT ACTUAL LOCATION OF PROPERTY LINES

LEGEND

- Proposed Pipeline
- Proposed Powerline
- Proposed Access Road
- Previously Proposed Powerline
- Previously Proposed Pipeline
- Existing Access Road
- Proposed Pad

Yellow	Federal	White	Private	Light Blue	State	Orange	Tribal
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EP ENERGY 8-20C4

WELL LOCATION: NW/SW SECTION 20, T.3S, R.4W, U.S.B.&M.
 DUCHESNE COUNTY, UTAH



Proposed Pipeline & Powerline

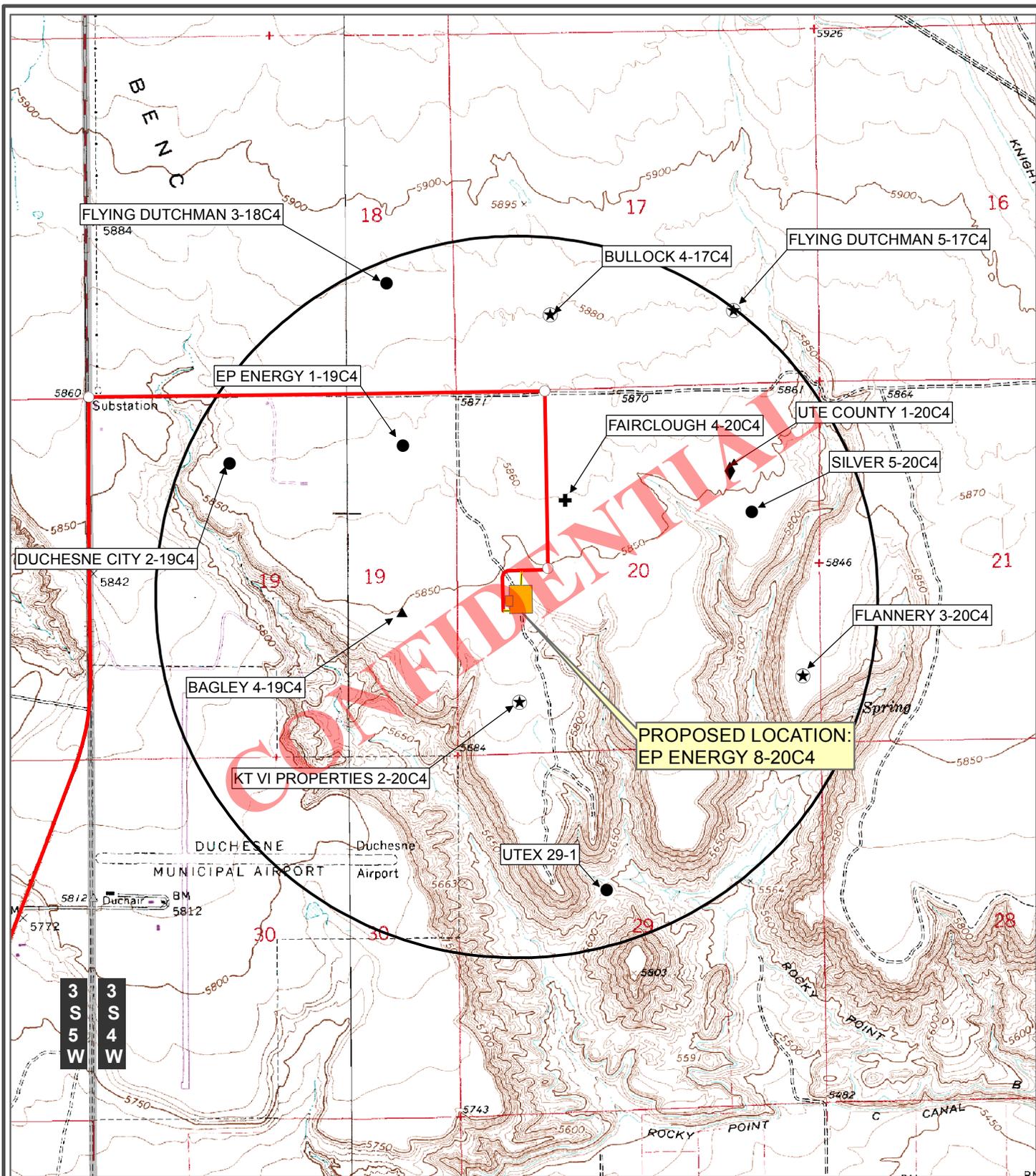
0 500 1,000 1,500 2,000 Feet

VERSION: **V2**
 SURVEYED: **9-4-14**

USGS 7.5' Duchesne NE Quadrangle
 2014 Google Imagery

SEPTEMBER 9, 2014
 SCALE: 1" = 2,000'
 AUTHOR: BWH

SHEET **C**



**PROPOSED LOCATION:
EP ENERGY 8-20C4**



**OUTLAW
ENGINEERING INC.**
P. O. BOX 1800
ROOSEVELT, UTAH 84066
(435) 232-4321



PARCEL INFORMATION SHOWN HAS NOT BEEN SURVEYED BY OUTLAW ENGINEERING, INC. AND MAY NOT REFLECT ACTUAL LOCATION OF PROPERTY LINES

LEGEND

- ★ New Permit
- ▲ Approved Permit
- ⊕ Drilling
- Producing
- ◆ Plugged & Abandoned
- One Mile Radius

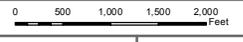
Federal
 Private
 State
 Tribal

EP ENERGY 8-20C4

WELL LOCATION: NW/SW SECTION 20, T.3S, R.4W, U.S.B.&M.
DUCHESNE COUNTY, UTAH



**Surrounding
Wells**



VERSION: **V2**
SURVEYED: **9-4-14**

USGS 7.5'
Duchesne NE
Quadrangle

SEPTEMBER 9, 2014
SCALE: 1" = 2,000'
AUTHOR: BWH

SHEET
D

AFFIDAVIT OF DAMAGE SETTLEMENT AND RELEASE

Corie A. Mathews personally appeared before me, and, being duly sworn, deposes and says:

1. My name is Corie A. Mathews. I am a Senior Landman for EP Energy E&P Company, L.P., whose address is 1001 Louisiana Street, Houston, Texas 77002 ("EP Energy").
2. EP Energy is the operator of the proposed EP Energy 8-20C4 well ("the Well") to be located in the NW/4 of the SW/4 of Section 20, Township 3 South, Range 4 West, USM, Duchesne County, Utah (the "Drillsite Location"). The surface owner of the Drillsite location is EP Energy, whose address is referenced above and whose telephone number is (713) 997-7106 (the "Surface Owner").
3. EP Energy and the Surface Owner have entered into a Surface Use Agreement dated September 26, 2014 to cover any and all injuries or damages of every character and description sustained by the Surface Owner or Surface Owner's property as a result of operations associated with the drilling, completing and producing of the Well.

FURTHER AFFIANT SAYETH NOT.

Corie A. Mathews

ACKNOWLEDGMENT

STATE OF TEXAS §
 §
COUNTY OF HARRIS §

This instrument was acknowledged before me on this the 26th day of September, 2014 by Corie A. Mathews as a Senior Landman for EP ENERGY E&P COMPANY, L.P., a Delaware limited partnership, on behalf of said partnership and acknowledged to me that he executed the same as his own free and voluntary act and deed for the uses and purposes therein set forth.



Ginger M. Cearley
Notary Public in and for State of Texas

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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 .04 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 .02 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 placed 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.

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:

EP Energy E&P Company, L.P.
1001 Louisiana Street
Houston, Texas 77002

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

API Number: 43-013-53166

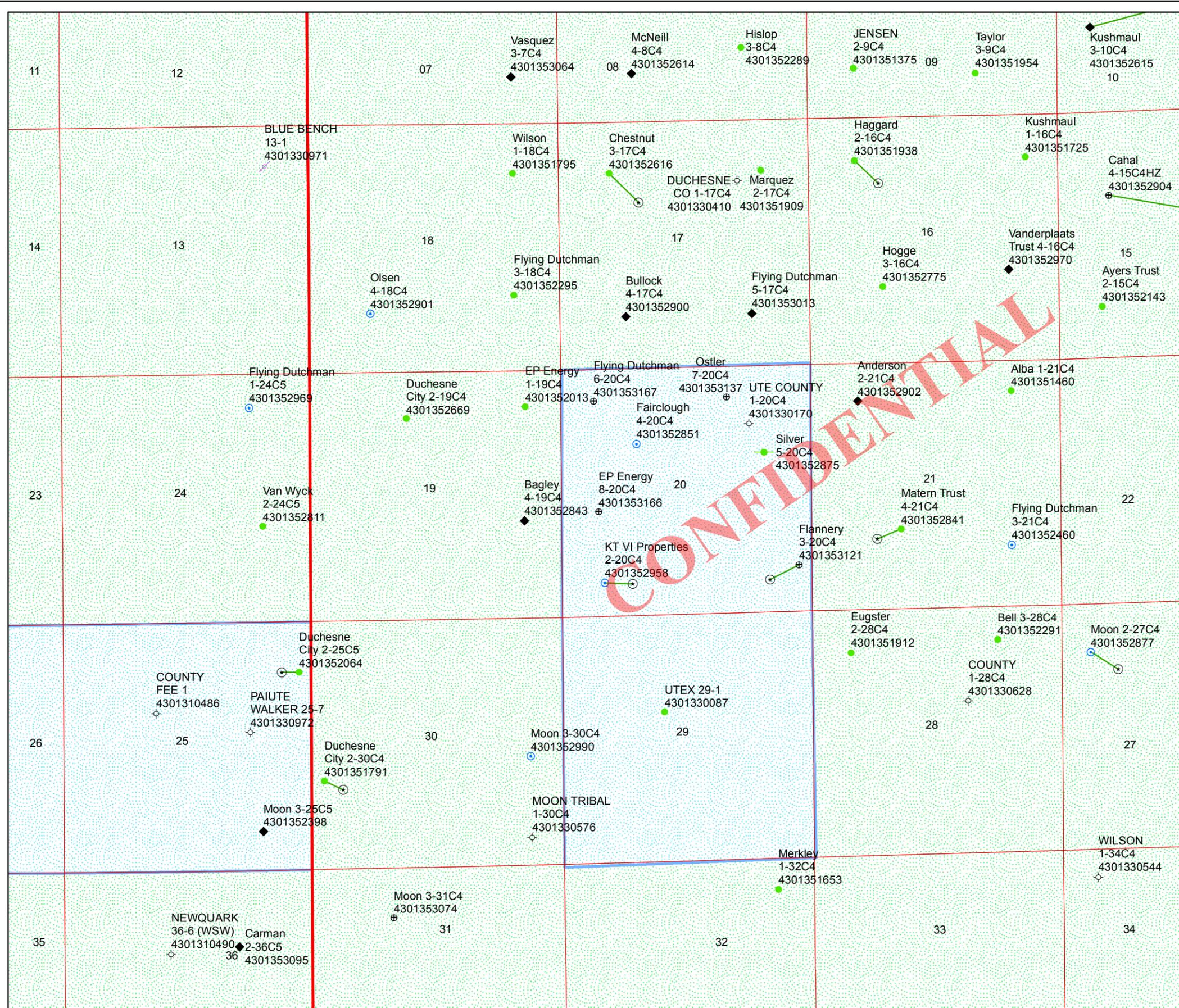
Well Name: EP Energy 8-20C4

Section: 20 Township: 3S Range: 4W Meridian: USM

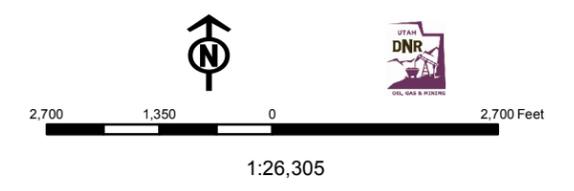
Operator: EP ENERGY E&P COMPANY, L.P.

Map Prepared: Oct. 15, 2014

Map Produced by Lisha Cordova



Wells Query		Units	
Status		STATUS	
◆	APD - Aproved Permit	▨	ACTIVE
⊙	DRL - Spuded (Drilling Commenced)	▨	EXPLORATORY
↗	GIW - Gas Injection	▨	GAS STORAGE
★	GS - Gas Storage	▨	NF PP OIL
⊕	LOC - New Location	▨	NF SECONDARY
△	OPS - Operation Suspended	▨	PI OIL
⊖	PA - Plugged Abandoned	▨	PP GAS
⊗	PGW - Producing Gas Well	▨	PP GEOTHERML
●	POW - Producing Oil Well	▨	PP OIL
⊗	SGW - Shut-in Gas Well	▨	SECONDARY
⊖	SOW - Shut-in Oil Well	▨	TERMINATED
⊖	TA - Temp. Abandoned		
○	TW - Test Well		
↘	WDW - Water Disposal		
↘	WW - Water Injection Well		
●	WSW - Water Supply Well		
Fields	STATUS		
	Unknown	▨	Unknown
	ABANDONED	▨	ABANDONED
	ACTIVE	▨	ACTIVE
	COMBINED	▨	COMBINED
	INACTIVE	▨	INACTIVE
	STORAGE	▨	STORAGE
	TERMINATED	▨	TERMINATED



Well Name	EP ENERGY E&P COMPANY, L.P. EP Energy 8-20C4 43013531660000			
String	Surf	I1	L1	
Casing Size(")	9.625	7.000	5.000	
Setting Depth (TVD)	2000	8700	11900	
Previous Shoe Setting Depth (TVD)	0	2000	8700	
Max Mud Weight (ppg)	8.3	10.2	12.2	
BOPE Proposed (psi)	500	10000	10000	
Casing Internal Yield (psi)	5750	11220	13940	
Operators Max Anticipated Pressure (psi)	7549		12.2	

Calculations	Surf String	9.625	"
Max BHP (psi)	.052*Setting Depth*MW=	863	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	623	NO diverter stack
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	423	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	423	NO
Required Casing/BOPE Test Pressure=		2000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi *Assumes 1psi/ft frac gradient

Calculations	I1 String	7.000	"
Max BHP (psi)	.052*Setting Depth*MW=	4614	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	3570	YES 10M BOPE w/rotating head, 5M annular, spacer spool,
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	2700	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)=	3140	NO OK
Required Casing/BOPE Test Pressure=		7854	psi
*Max Pressure Allowed @ Previous Casing Shoe=		2000	psi *Assumes 1psi/ft frac gradient

Calculations	L1 String	5.000	"
Max BHP (psi)	.052*Setting Depth*MW=	7549	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	6121	YES 10M BOPE w/rotating head, 5M annular, spacer spool,
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	4931	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)=	6845	YES OK
Required Casing/BOPE Test Pressure=		9758	psi
*Max Pressure Allowed @ Previous Casing Shoe=		8700	psi *Assumes 1psi/ft frac gradient

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

43013531660000 EP Energy 8-20C4

Casing Schematic

Surface

12 1/2"

18 3/4"

TOC @ Duchesne River

1100' ± BMSW
1414' BMSW-EP
1555' tail * 1500' proposed

Surface
2000. MD

9-5/8"
MW 8.
Frac 19.3

to 1416' @ 5% w/p, tail 6119'
* Proposed 1500' / 6200'

TOC @
3250.

3842' Green River

Green River (GRTN1)

5444' Mahogany

6754' Lower Green River
6757' tail * Proposed 6200'
* ✓

✓ Stip cmts.

CONFIDENTIAL

12 1/2"

TOL @
8500.

8614' Wasatch

Intermediate
8700. MD

TOC @
9432.

to TOL @ 4% w/p

Offset int. wells

4301330971 - 4106 to 7528' - ± 2 mi NW

7"
MW 10.2
Frac 19.3

5"
MW 12.2

Production Liner
11900. MD

Well name:	43013531660000 EP Energy 8-20C4		
Operator:	EP ENERGY E&P COMPANY, LP.		
String type:	Surface	Project ID:	43-013-53166
Location:	DUCHESNE COUNTY		

Design parameters:

Collapse

Mud weight: 8.000 ppg
 Internal fluid density: 1.000 ppg

Minimum design factors:

Collapse:

Design factor 1.125

Environment:

H2S considered? No
 Surface temperature: 74 °F
 Bottom hole temperature: 102 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 100 ft

Burst:

Design factor 1.00

Cement top: Surface

Burst

Max anticipated surface pressure: 1,760 psi
 Internal gradient: 0.120 psi/ft
 Calculated BHP 2,000 psi

No backup mud specified.

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)

Non-directional string.

Re subsequent strings:

Next setting depth: 8,700 ft
 Next mud weight: 10.200 ppg
 Next setting BHP: 4,610 psi
 Fracture mud wt: 19.250 ppg
 Fracture depth: 2,000 ft
 Injection pressure: 2,000 psi

Tension is based on buoyed weight.
 Neutral point: 1,762 ft

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	2000	9.625	40.00	N-80	LT&C	2000	2000	8.75	25447
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	727	3090	4.249	2000	5750	2.88	70.5	737	10.46 J

Prepared by: Helen Sadik-Macdonald
 Div of Oil, Gas & Mining

Phone: 801 538-5357
 FAX: 801-359-3940

Date: November 26, 2014
 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 2000 ft, a mud weight of 8 ppg. An internal gradient of .052 psi/ft was used for collapse from TD to Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:	43013531660000 EP Energy 8-20C4		
Operator:	EP ENERGY E&P COMPANY, LP.		
String type:	Intermediate	Project ID:	43-013-53166
Location:	DUCHESNE COUNTY		

Design parameters:**Collapse**

Mud weight: 10.200 ppg
Design is based on evacuated pipe.

Minimum design factors:**Collapse:**

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 196 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,000 ft

Cement top: 3,250 ft

Burst

Max anticipated surface pressure: 4,924 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 6,838 psi

No backup mud specified.

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: 7,357 ft

Non-directional string.**Re subsequent strings:**

Next setting depth: 11,900 ft
Next mud weight: 12.200 ppg
Next setting BHP: 7,542 psi
Fracture mud wt: 19,250 ppg
Fracture depth: 8,700 ft
Injection pressure: 8,700 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	8700	7	29.00	HCP-110	LT&C	8700	8700	6.059	98246
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	4610	9200	1.996	6838	11220	1.64	213.3	797	3.74 J

Prepared by: Helen Sadik-Macdonald
Div of Oil, Gas & Mining

Phone: 801 538-5357
FAX: 801-359-3940

Date: November 26, 2014
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 8700 ft, a mud weight of 10.2 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.

Well name:	43013531660000 EP Energy 8-20C4		
Operator:	EP ENERGY E&P COMPANY, LP.		
String type:	Production Liner	Project ID:	43-013-53166
Location:	DUCHESNE COUNTY		

Design parameters:

Collapse

Mud weight: 12.200 ppg
 Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
 Surface temperature: 74 °F
 Bottom hole temperature: 241 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 1,000 ft

Cement top: 9,432 ft

Liner top: 8,500 ft

Non-directional string.

Burst

Max anticipated surface pressure: 4,924 psi
 Internal gradient: 0.220 psi/ft
 Calculated BHP 7,542 psi

No backup mud specified.

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: 11,269 ft

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	3400	5	18.00	HCP-110	ST-L	11900	11900	4.151	269280
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	7542	15360	2.037	7542	13940	1.85	49.8	341	6.84 J

Prepared by: Helen Sadik-Macdonald
 Div of Oil, Gas & Mining

Phone: 801 538-5357
 FAX: 801-359-3940

Date: November 26, 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 11900 ft, a mud weight of 12.2 ppg. The 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.

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator EP ENERGY E&P COMPANY, L.P.
Well Name EP Energy 8-20C4
API Number 43013531660000 **APD No** 10379 **Field/Unit** ALTAMONT
Location: 1/4,1/4 NWSW **Sec** 20 **Tw** 3.0S **Rng** 4.0W 2261 FSL 791 FWL
GPS Coord (UTM) 553878 4450689 **Surface Owner** EP Energy

Participants

Randy Fredrick (EP Energy Construction); Kelsey Carter (Independent Landman, KC Land Services, On Behalf of Transcontinental Oil Company As Agent for EP Energy E&P Company, LP); Dennis Ingram (DOGM)

Regional/Local Setting & Topography

The proposed EP Energy 8-20C4 staked up 3.54 miles north of Duchesne, then east along a county road for 1.3 miles, then south along access road for another 0.50 miles with the well pad just west of this road. Regionally, this well is located in northeastern Utah in the Uintah Basin along the southern edge of Blue Bench out near Rocky Point, where several canyons head up and drain snow melt or storm waters south toward the Duchesne River Corridor. The topography at the well pad is open rangelands with good stands of sagebrush, bunch grass and cactus that slopes gently to the south. The Duchesne Municipal Airport is located approximately 1.0 miles southwest of this site.

Surface Use Plan

Current Surface Use

Wildlife Habitat
Residential

New Road Miles

0.02

Well Pad

Width 407 **Length** 410

Src Const Material

Onsite

Surface Formation

UNTA

Ancillary Facilities N

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

Sagebrush, bunch grass, prickly pear cactus; potential mule deer, mountain lion, coyote, fox, raccoon, rabbits, ground squirrels and smaller mammals common to or near the Duchesne River bottoms.

Soil Type and Characteristics

Reddish, fine-grained sand with some clays and gravels

Erosion Issues Y

Sedimentation Issues Y

Site Stability Issues N**Drainage Diversion Required?** Y

Re-route drainage just west of northeast corner further east around location

Berm Required? Y**Erosion Sedimentation Control Required?** N**Paleo Survey Run?** N **Paleo Potential Observed?** N **Cultural Survey Run?** N **Cultural Resources?** N**Reserve Pit**

Site-Specific Factors		Site Ranking
Distance to Groundwater (feet)	>200	0
Distance to Surface Water (feet)	>1000	0
Dist. Nearest Municipal Well (ft)	>5280	0
Distance to Other Wells (feet)	>1320	0
Native Soil Type	High permeability	20
Fluid Type	Fresh Water	5
Drill Cuttings	Normal Rock	0
Annual Precipitation (inches)		0
Affected Populations	30 to 50	30 to 50
Presence Nearby Utility Conduits	Present	15
	Final Score	48 1 Sensitivity Level

Characteristics / Requirements

Proposed reserve pit staked off the west side of location in cut, measuring 110' wide by 150' long by 10' deep

Closed Loop Mud Required? **Liner Required?** Y **Liner Thickness** 20 **Pit Underlayment Required?****Other Observations / Comments**

Surface bought and owned by EP Energy, narrow jeep trail running north to south down middle of pad and across well staking, shallow drainage cuts southerly across northeastern portion of pad and exists between corners 1 & 2, open rangeland minus fencing or housing.

Dennis Ingram
Evaluator10/21/2014
Date / Time

**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
10379	43013531660000	LOCKED	OW	P	No
Operator	EP ENERGY E&P COMPANY, L.P.		Surface Owner-APD	EP Energy	
Well Name	EP Energy 8-20C4		Unit		
Field	ALTAMONT		Type of Work	DRILL	
Location	NWSW 20 3S 4W U 2261 FSL (UTM) 553854E 4450679N		791 FWL	GPS Coord	

Geologic Statement of Basis

EP proposes to set 2,000 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 1,100 feet. A search of Division of Water Rights records indicates that there are 12 water wells within a 10,000 foot radius of the center of Section 20. These wells probably produce water from the Duchesne River Formation and associated alluvium. Depths of the wells fall in the range of 57-370 feet. The wells are listed as being used for irrigation, stock watering, municipal and domestic. The proposed drilling, casing and cement program should adequately protect the highly used Duchesne River aquifer.

Brad Hill
APD Evaluator

10/27/2014
Date / Time

Surface Statement of Basis

Location is staked running north/south with the reserve pit off the west side of well pad in cut. The reserve pit shall be lined with a 20 mil synthetic liner and fenced to keep wildlife or stock from entering same. A shallow drainage runs east across this well pad, entering between corners 9 & 10, then turning southeast and exiting this proposed location between corners 1 & 2. That drainage shall be diverted around the location and tied back into the existing drainage to minimize erosion. The topsoil storage is planned immediately to the south and southeast of the well pad between corners 1.5 and 4. Erosion controls are probably needed around the base corner number 10 to prevent storm waters from washing out location edge.

A presite was scheduled for the EP Energy 8-20C4 on October 21, 2014 to take input and address issues regarding the construction and drilling of this well. The operator is the owner of this surface and therefore participated as operator and surface owner at the presite meeting.

Dennis Ingram
Onsite Evaluator

10/21/2014
Date / Time

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 20 mils shall be properly installed and maintained in the reserve pit.
Pits	The reserve pit should be located on the west side of the location.
Surface	Drainages adjacent to the proposed pad shall be diverted around the location.

API Well Number: 43013531660000

Surface The well site shall be bermed to prevent fluids from entering or leaving the pad.

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RECEIVED: December 01, 2014

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 10/7/2014

API NO. ASSIGNED: 43013531660000

WELL NAME: EP Energy 8-20C4

OPERATOR: EP ENERGY E&P COMPANY, L.P. (N3850)

PHONE NUMBER: 713 997-5038

CONTACT: Maria S. Gomez

PROPOSED LOCATION: NSW 20 030S 040W

Permit Tech Review:

SURFACE: 2261 FSL 0791 FWL

Engineering Review:

BOTTOM: 2261 FSL 0791 FWL

Geology Review:

COUNTY: DUCHESNE

LATITUDE: 40.20479

LONGITUDE: -110.36721

UTM SURF EASTINGS: 553854.00

NORTHINGS: 4450679.00

FIELD NAME: ALTAMONT

LEASE TYPE: 4 - Fee

LEASE NUMBER: Fee

PROPOSED PRODUCING FORMATION(S): GREEN RIVER(LWR)-WASATCH

SURFACE OWNER: 4 - Fee

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

- PLAT
- Bond: STATE/FEE - 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

Commingle Approved

LOCATION AND SITING:

- R649-2-3.
- Unit:
- R649-3-2. General
- R649-3-3. Exception
- Drilling Unit
- Board Cause No: Cause: 139-124
- Effective Date: 11/6/2014
- Siting: 8 wells, 660 F Sec. Lines 990 F other wells
- R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations: 5 - Statement of Basis - bhill
12 - Cement Volume (3) - hmacdonald
25 - Surface Casing - hmacdonald



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: EP Energy 8-20C4
API Well Number: 43013531660000
Lease Number: Fee
Surface Owner: FEE (PRIVATE)
Approval Date: 12/1/2014

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: 139-124. 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:

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

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 1500' MD and tail cement to 500' above the Lower Green River as indicated in the submitted drilling plan.

Surface casing shall be cemented to the surface.

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:

A handwritten signature in black ink, appearing to read "J. Rogers", written in a cursive style.

For John Rogers
Associate Director, Oil & Gas

CONFIDENTIAL



Carol Daniels <caroldaniels@utah.gov>

NWS W SEC. 20 T03S R04W FEE LEASE

24hr Notice Run & Cement Casing

1 message

LANDRIG009 (Precision 406) <LANDRIG009@epenergy.com>

Thu, Dec 11, 2014 at 1:39 PM

To: "alexishuefner@utah.gov" <alexishuefner@utah.gov>, "MacAfee, Bradley D" <Brad.MacAfee@epenergy.com>, "caroldaniels@utah.gov" <caroldaniels@utah.gov>, "dennisingram@utah.gov" <dennisingram@utah.gov>, "Dodd, Robert W" <Robert.Dodd@epenergy.com>, "Mangum, Danny R (Contractor)" <danny.mangum@epenergy.com>, "Gomez, Maria S" <Maria.Gomez@epenergy.com>, "Derden, Roy Lynn (Contractor)" <Roy.Derden@epenergy.com>

RE: EP ENERGY

EP ENERGY 8-20C4

API # 43013531660000

ALTAMONT FIELD

DUCHESNE COUNTY

Leon Ross Drilling Rig 26 commenced drilling the 12¼" hole section @ 17:00hrs on 12/10/2014. We plan on running and cementing 9-5/8" Surface Casing to +/- 2,000' within 24hrs.

Regards,

Tony Wilkerson / Bill Owen

EP Energy LLC

PD Rig 406

Rig: 713-997-1220

Cell: 435-823-1764

THIS E-MAIL AND ANY MATERIALS TRANSMITTED WITH IT MAY CONTAIN CONFIDENTIAL OR PROPRIETARY MATERIAL FOR THE SOLE USE OF THE INTENDED RECIPIENT. ANY REVIEW, USE, DISTRIBUTION OR DISCLOSURE BY OTHERS IS STRICTLY PROHIBITED. IF YOU ARE NOT THE INTENDED RECIPIENT, OR AUTHORIZED TO RECEIVE THE INFORMATION FROM THE RECIPIENT, PLEASE NOTIFY THE SENDER BY REPLY E-MAIL AND DELETE ALL COPIES OF THIS MESSAGE.

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Carol Daniels <caroldaniels@utah.gov>

NW SW S-20 T03S R04W FEE LEASE

Update Ep Energy 8-20C4 API # 43013531660000

1 message

LANDRIG009 (Precision 406) <LANDRIG009@epenergy.com>

Mon, Jan 12, 2015 at 9:37 AM

To: "alexishuefner@utah.gov" <alexishuefner@utah.gov>, "MacAfee, Bradley D" <Brad.MacAfee@epenergy.com>, "caroldaniels@utah.gov" <caroldaniels@utah.gov>, "dennisingram@utah.gov" <dennisingram@utah.gov>, "Dodd, Robert W" <Robert.Dodd@epenergy.com>, "Mangum, Danny R (Contractor)" <danny.mangum@epenergy.com>, "Gomez, Maria S" <Maria.Gomez@epenergy.com>, "Derden, Roy Lynn (Contractor)" <Roy.Derden@epenergy.com>

RE: EP ENERGY

EP ENERGY 8-20C4

API # 43013531660000

ALTAMONT FIELD

DUCHESNE COUNTY

We moved in with Precision Drilling Rig 406 on 1/8/15. Nippled Up 11" 10M BOPE. Finished Testing BOPE & 9-5/8" Surface Casing 1/10/15 @ 16:00hrs. Commenced drilling 8¾" Intermediate section @ 04:26hrs 1/11/15.

Regards,

Tony Wilkerson / Bill Owen

EP Energy LLC

PD Rig 406

Rig: 713-997-1220

Cell: 435-823-1764

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Carol Daniels <caroldaniels@utah.gov>

NW 5W SEC 20 T 03S R 04W FEE LEASE

24hr Notice run & cement casing

1 message

LANDRIG009 (Precision 406) <LANDRIG009@epenergy.com>

Thu, Jan 15, 2015 at 7:53 PM

To: "alexishuefner@utah.gov" <alexishuefner@utah.gov>, "MacAfee, Bradley D" <Brad.MacAfee@epenergy.com>, "caroldaniels@utah.gov" <caroldaniels@utah.gov>, "dennisingram@utah.gov" <dennisingram@utah.gov>, "Dodd, Robert W" <Robert.Dodd@epenergy.com>, "Mangum, Danny R (Contractor)" <danny.mangum@epenergy.com>, "Gomez, Maria S" <Maria.Gomez@epenergy.com>, "Derden, Roy Lynn (Contractor)" <Roy.Derden@epenergy.com>

RE: EP ENERGY

EP ENERGY 8-20C4

API # 43013531660000

ALTAMONT FIELD

DUCHESNE COUNTY

We plan on running & cementing 7" HCP-110 29# LTC Intermediate casing to +/- 8,704' within 24 hours.

Regards,

Tony Wilkerson / Bill Owen

EP Energy LLC

PD Rig 406

Rig: 713-997-1220

Cell: 435-823-1764

THIS E-MAIL AND ANY MATERIALS TRANSMITTED WITH IT MAY CONTAIN CONFIDENTIAL OR PROPRIETARY MATERIAL FOR THE SOLE USE OF THE INTENDED RECIPIENT. ANY REVIEW, USE, DISTRIBUTION OR DISCLOSURE BY OTHERS IS STRICTLY PROHIBITED. IF YOU ARE NOT THE INTENDED RECIPIENT, OR AUTHORIZED TO RECEIVE THE INFORMATION FROM THE RECIPIENT, PLEASE NOTIFY THE SENDER BY REPLY E-MAIL AND DELETE ALL COPIES OF THIS MESSAGE.

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Carol Daniels <caroldaniels@utah.gov>

NW 5-20 T03S R04W FREE LEASE

24hr Notince run & cement casing

1 message

LANDRIG009 (Precision 406) <LANDRIG009@epenergy.com>

Mon, Jan 19, 2015 at 8:38 PM

To: "alexishuefner@utah.gov" <alexishuefner@utah.gov>, "MacAfee, Bradley D" <Brad.MacAfee@epenergy.com>, "caroldaniels@utah.gov" <caroldaniels@utah.gov>, "dennisingram@utah.gov" <dennisingram@utah.gov>, "Dodd, Robert W" <Robert.Dodd@epenergy.com>, "Mangum, Danny R (Contractor)" <danny.mangum@epenergy.com>, "Gomez, Maria S" <Maria.Gomez@epenergy.com>, "Derden, Roy Lynn (Contractor)" <Roy.Derden@epenergy.com>

RE: EP ENERGY

EP ENERGY 8-20C4

API # 43013531660000

ALTAMONT FIELD

DUCHESNE COUNTY

We plan on running & cementing 5" 18# HCP-110 STL Production liner to +/- 11,514' within 24 hours.

Regards,

Tony Wilkerson / Bill Owen

EP Energy LLC

PD Rig 406

Rig: 713-997-1220

Cell: 435-823-1764

THIS E-MAIL AND ANY MATERIALS TRANSMITTED WITH IT MAY CONTAIN CONFIDENTIAL OR PROPRIETARY MATERIAL FOR THE SOLE USE OF THE INTENDED RECIPIENT. ANY REVIEW, USE, DISTRIBUTION OR DISCLOSURE BY OTHERS IS STRICTLY PROHIBITED. IF YOU ARE NOT THE INTENDED RECIPIENT, OR AUTHORIZED TO RECEIVE THE INFORMATION FROM THE RECIPIENT, PLEASE NOTIFY THE SENDER BY REPLY E-MAIL AND DELETE ALL COPIES OF THIS MESSAGE.

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

AMENDED REPORT FORM 8
(highlight changes)

5. LEASE DESIGNATION AND SERIAL NUMBER:

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT or CA AGREEMENT NAME

8. WELL NAME and NUMBER:

9. API NUMBER:

10 FIELD AND POOL, OR WILDCAT

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

12. COUNTY

13. STATE

UTAH

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL GAS WELL DRY OTHER _____

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

2. NAME OF OPERATOR:

3. ADDRESS OF OPERATOR: CITY STATE ZIP PHONE NUMBER:

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE:

AT TOP PRODUCING INTERVAL REPORTED BELOW:

AT TOTAL DEPTH:

14. DATE SPUDDED: 15. DATE T.D. REACHED: 16. DATE COMPLETED: ABANDONED READY TO PRODUCE 17. ELEVATIONS (DF, RKB, RT, GL):

18. TOTAL DEPTH: MD TVD 19. PLUG BACK T.D.: MD TVD 20. IF MULTIPLE COMPLETIONS, HOW MANY? * 21. DEPTH BRIDGE MD PLUG SET: TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each) 23. WAS WELL CORED? NO YES (Submit analysis)
WAS DST RUN? NO YES (Submit report)
DIRECTIONAL SURVEY? NO YES (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A)				
(B)				
(C)				
(D)				

27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

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

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL

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:

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:
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 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.)

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.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)

35. ADDITIONAL REMARKS (Include plugging procedure)

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

NAME (PLEASE PRINT) _____ TITLE _____

SIGNATURE _____ DATE _____

This report must be submitted within 30 days of

- completing or plugging a new well
- reentering a previously plugged and abandoned well
- drilling horizontal laterals from an existing well bore
- significantly deepening an existing well bore below the previous bottom-hole depth
- recompleting to a different producing formation
- 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 Phone: 801-538-5340
 1594 West North Temple, Suite 1210
 Box 145801 Fax: 801-359-3940
 Salt Lake City, Utah 84114-5801

Attachment to Well Completion Report**Form 8 Dated March 10, 2015****Well Name: EP Energy E&P Company, L.P.****Items #27 and #28 Continued****27. Perforation Record**

Interval (Top/Bottom – MD)	Size	No. of Holes	Perf. Status
9535'-9768'	.43	69	Open
9220'-9502'	.43	69	Open
8982'-9186'	.43	69	Open
8720'-8950'	.43	69	Open

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

Depth Interval	Amount and Type of Material
9803'-10030'	5000 gal 15% HCL acid, 3000# 100 mesh, 150100# 30/50 TLC
9535'-9768'	5000 gal 15% HCL acid, 3000# 100 mesh, 150070# 30/50 TLC
9220'-9502'	5000 gal 15% HCL acid, 3000# 100 mesh, 150040# 30/50 TLC
8982'-9186'	5000 gal 15% HCL acid, 3000# 100 mesh, 150100# 30/50 TLC
8720'-8950'	5000 gal 15% HCL acid, 3000# 100 mesh, 150130# 30/50 TLC



Company: EP Energy Job Number: _____
 Well: EP Energy 8-20C4 Mag Decl.: _____
 Location: Duchesne, UT Dir Driller: _____
 Rig: Precision 406 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		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')		
							N/S (ft)	E/W (ft)	Distance (ft)	Direction Azimuth					
Tie In	0.00	0.00	0.00												
1	100.00	0.46	118.50	100.00	100.00	-0.19	0.19	S	0.35	E	0.40	118.50	0.46	0.46	118.50
2	200.00	0.56	111.73	100.00	199.99	-0.56	0.56	S	1.16	E	1.29	115.95	0.11	0.10	-6.78
3	300.00	0.50	124.41	100.00	299.99	-0.99	0.99	S	1.97	E	2.20	116.68	0.13	-0.06	12.69
4	400.00	0.42	151.31	100.00	399.99	-1.55	1.55	S	2.50	E	2.94	121.85	0.23	-0.08	26.90
5	500.00	0.53	158.97	100.00	499.98	-2.30	2.30	S	2.84	E	3.65	129.02	0.13	0.11	7.66
6	600.00	0.31	159.45	100.00	599.98	-2.98	2.98	S	3.10	E	4.30	133.89	0.22	-0.22	0.48
7	700.00	0.27	180.27	100.00	699.98	-3.47	3.47	S	3.19	E	4.71	137.38	0.11	-0.04	20.83
8	800.00	0.36	177.86	100.00	799.98	-4.02	4.02	S	3.20	E	5.14	141.47	0.09	0.09	-2.41
9	900.00	0.38	205.89	100.00	899.98	-4.64	4.64	S	3.07	E	5.56	146.51	0.18	0.02	28.03
10	1000.00	0.62	204.26	100.00	999.97	-5.43	5.43	S	2.70	E	6.06	153.54	0.24	0.24	-1.63
11	1100.00	0.61	221.21	100.00	1099.97	-6.32	6.32	S	2.13	E	6.67	161.39	0.18	-0.01	16.95
12	1200.00	0.61	214.00	100.00	1199.96	-7.17	7.17	S	1.48	E	7.32	168.35	0.08	0.00	-7.21
13	1300.00	0.78	212.15	100.00	1299.95	-8.18	8.18	S	0.82	E	8.22	174.30	0.16	0.16	-1.85
14	1400.00	0.90	200.81	100.00	1399.94	-9.49	9.49	S	0.18	E	9.50	178.93	0.21	0.13	-11.34
15	1500.00	0.91	203.49	100.00	1499.93	-10.96	10.96	S	0.42	W	10.97	182.20	0.04	0.01	2.68
16	1600.00	1.17	198.83	100.00	1599.91	-12.65	12.65	S	1.07	W	12.70	184.82	0.27	0.25	-4.67
17	1700.00	1.31	197.75	100.00	1699.89	-14.70	14.70	S	1.74	W	14.80	186.76	0.14	0.14	-1.07
18	1798.00	1.27	192.12	98.00	1797.87	-16.82	16.82	S	2.31	W	16.98	187.82	0.14	-0.04	-5.75
19	2118.00	1.39	215.09	320.00	2117.78	-23.45	23.45	S	5.28	W	24.04	192.69	0.17	0.04	7.18
20	2214.00	0.12	171.52	96.00	2213.77	-24.50	24.50	S	5.94	W	25.21	193.62	1.36	-1.32	-45.39
21	2310.00	1.59	40.73	96.00	2309.76	-23.59	23.59	S	5.05	W	24.13	192.09	1.74	1.53	-136.24
22	2406.00	3.04	32.99	96.00	2405.68	-20.45	20.45	S	2.80	W	20.64	187.79	1.54	1.51	-8.06
23	2502.00	3.70	16.17	96.00	2501.52	-15.34	15.34	S	0.55	W	15.35	182.05	1.23	0.69	-17.52
24	2599.00	4.15	11.94	97.00	2598.29	-8.90	8.90	S	1.05	E	8.96	173.28	0.55	0.46	-4.36
25	2695.00	3.29	7.90	96.00	2694.08	-2.77	2.77	S	2.15	E	3.51	142.24	0.94	-0.90	-4.21
26	2791.00	4.06	8.61	96.00	2789.89	3.32	3.32	N	3.03	E	4.50	42.45	0.80	0.80	0.74
27	2887.00	4.45	358.71	96.00	2885.62	10.40	10.40	N	3.46	E	10.96	18.39	0.86	0.41	364.69
28	2983.00	4.25	9.35	96.00	2981.35	17.63	17.63	N	3.95	E	18.07	12.63	0.86	-0.21	-363.92
29	3079.00	4.48	14.38	96.00	3077.07	24.78	24.78	N	5.46	E	25.37	12.43	0.46	0.24	5.24
30	3174.00	5.59	17.65	95.00	3171.70	32.78	32.78	N	7.79	E	33.69	13.36	1.21	1.17	3.44
31	3270.00	4.65	13.86	96.00	3267.32	41.01	41.01	N	10.14	E	42.25	13.88	1.04	-0.98	-3.95
32	3366.00	4.95	9.54	96.00	3362.98	48.88	48.88	N	11.75	E	50.27	13.52	0.49	0.31	-4.50
33	3462.00	4.86	6.49	96.00	3458.63	57.00	57.00	N	12.90	E	58.44	12.75	0.29	-0.09	-3.18
34	3558.00	3.92	3.81	96.00	3554.35	64.32	64.32	N	13.58	E	65.73	11.92	1.00	-0.98	-2.79
35	3654.00	3.51	17.11	96.00	3650.15	70.40	70.40	N	14.66	E	71.91	11.76	0.99	-0.43	13.85



Company: EP Energy
Well: EP Energy 8-20C4
Location: Duchesne, UT
Rig: Precision 406

Job Number: _____
Mag Decl.: _____
Dir Driller: _____
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			Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')	
							N/S (ft)	E/W (ft)		Distance (ft)	Direction Azimuth				
36	3750.00	3.87	14.21	96.00	3745.95	76.35	76.35	N	16.32	E	78.07	12.07	0.42	0.38	-3.02
37	3847.00	4.69	10.83	97.00	3842.68	83.42	83.42	N	17.87	E	85.31	12.09	0.88	0.85	-3.48
38	3942.00	4.73	5.13	95.00	3937.36	91.13	91.13	N	18.95	E	93.08	11.75	0.49	0.04	-6.00
39	4038.00	4.65	2.26	96.00	4033.04	98.96	98.96	N	19.46	E	100.86	11.12	0.26	-0.08	-2.99
40	4134.00	4.05	1.93	96.00	4128.76	106.24	106.24	N	19.72	E	108.05	10.52	0.63	-0.63	-0.34
41	4231.00	4.04	11.79	97.00	4225.52	113.01	113.01	N	20.54	E	114.86	10.30	0.72	-0.01	10.16
42	4327.00	3.84	10.26	96.00	4321.29	119.48	119.48	N	21.80	E	121.45	10.34	0.24	-0.21	-1.59
43	4423.00	4.35	5.65	96.00	4417.05	126.27	126.27	N	22.73	E	128.30	10.21	0.63	0.53	-4.80
44	4519.00	2.81	1.39	96.00	4512.86	132.24	132.24	N	23.15	E	134.25	9.93	1.63	-1.60	-4.44
45	4616.00	3.90	11.09	97.00	4609.69	137.86	137.86	N	23.84	E	139.90	9.81	1.26	1.12	10.00
46	4712.00	4.27	26.13	96.00	4705.45	144.27	144.27	N	26.04	E	146.60	10.23	1.18	0.39	15.67
47	4808.00	4.47	28.04	96.00	4801.17	150.78	150.78	N	29.38	E	153.62	11.02	0.26	0.21	1.99
48	4904.00	4.72	18.35	96.00	4896.86	157.83	157.83	N	32.38	E	161.12	11.59	0.85	0.26	-10.09
49	5000.00	4.96	21.52	96.00	4992.52	165.44	165.44	N	35.14	E	169.13	11.99	0.37	0.25	3.30
50	5097.00	3.81	24.73	97.00	5089.23	172.27	172.27	N	38.03	E	176.42	12.45	1.21	-1.19	3.31
51	5191.00	3.89	20.77	94.00	5183.02	178.09	178.09	N	40.47	E	182.63	12.80	0.30	0.09	-4.21
52	5288.00	4.35	15.38	97.00	5279.77	184.71	184.71	N	42.61	E	189.56	12.99	0.62	0.47	-5.56
53	5384.00	4.52	14.04	96.00	5375.48	191.89	191.89	N	44.49	E	196.98	13.05	0.21	0.18	-1.40
54	5479.00	4.62	23.76	95.00	5470.18	199.02	199.02	N	46.94	E	204.49	13.27	0.82	0.11	10.23
55	5575.00	4.18	21.31	96.00	5565.90	205.82	205.82	N	49.77	E	211.76	13.59	0.50	-0.46	-2.55
56	5671.00	2.89	18.26	96.00	5661.72	211.38	211.38	N	51.80	E	217.64	13.77	1.36	-1.34	-3.18
57	5768.00	1.68	2.73	97.00	5758.64	215.12	215.12	N	52.64	E	221.47	13.75	1.39	-1.25	-16.01
58	5865.00	0.96	352.43	97.00	5855.61	217.35	217.35	N	52.60	E	223.62	13.60	0.78	-0.74	360.52
59	5960.00	0.49	318.27	95.00	5950.60	218.44	218.44	N	52.22	E	224.60	13.44	0.65	-0.49	-35.96
60	6057.00	0.34	259.30	97.00	6047.60	218.70	218.70	N	51.66	E	224.72	13.29	0.44	-0.15	-60.79
61	6152.00	0.65	219.08	95.00	6142.60	218.23	218.23	N	51.05	E	224.12	13.17	0.47	0.33	-42.34
62	6249.00	1.05	202.14	97.00	6239.59	216.98	216.98	N	50.36	E	222.74	13.07	0.48	0.41	-17.46
63	6345.00	1.42	189.98	96.00	6335.56	214.99	214.99	N	49.83	E	220.69	13.05	0.47	0.39	-12.67
64	6441.00	1.56	188.92	96.00	6431.53	212.53	212.53	N	49.42	E	218.20	13.09	0.15	0.15	-1.10
65	6537.00	1.27	187.47	96.00	6527.50	210.18	210.18	N	49.08	E	215.84	13.14	0.30	-0.30	-1.51
66	6633.00	1.71	185.48	96.00	6623.47	207.70	207.70	N	48.80	E	213.36	13.22	0.46	0.46	-2.07
67	6729.00	1.51	190.27	96.00	6719.43	205.03	205.03	N	48.44	E	210.67	13.29	0.25	-0.21	4.99
68	6826.00	1.64	189.06	97.00	6816.40	202.40	202.40	N	47.99	E	208.01	13.34	0.14	0.13	-1.25
69	6921.00	1.97	186.62	95.00	6911.35	199.44	199.44	N	47.59	E	205.04	13.42	0.36	0.35	-2.57
70	7017.00	1.95	204.67	96.00	7007.29	196.31	196.31	N	46.72	E	201.80	13.39	0.64	-0.02	18.80
71	7113.00	1.35	231.23	96.00	7103.25	194.12	194.12	N	45.15	E	199.30	13.09	1.00	-0.63	27.67
72	7209.00	1.90	208.49	96.00	7199.22	192.02	192.02	N	43.51	E	196.88	12.77	0.87	0.57	-23.69



Company: EP Energy
Well: EP Energy 8-20C4
Location: Duchesne, UT
Rig: Precision 406

Job Number: _____
Mag Decl.: _____
Dir Driller: _____
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		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')		
							N/S (ft)	E/W (ft)	Distance (ft)	Direction Azimuth					
73	7306.00	2.42	199.83	97.00	7296.15	188.68	188.68	N	42.05	E	193.31	12.56	0.63	0.54	-8.93
74	7402.00	2.20	193.22	96.00	7392.07	184.98	184.98	N	40.94	E	189.45	12.48	0.36	-0.23	-6.89
75	7498.00	2.18	191.25	96.00	7488.00	181.39	181.39	N	40.17	E	185.78	12.49	0.08	-0.02	-2.05
76	7594.00	2.52	186.53	96.00	7583.92	177.50	177.50	N	39.57	E	181.86	12.57	0.41	0.35	-4.92
77	7691.00	2.47	174.79	97.00	7680.83	173.30	173.30	N	39.52	E	177.75	12.85	0.53	-0.05	-12.10
78	7787.00	2.36	187.28	96.00	7776.74	169.28	169.28	N	39.45	E	173.82	13.12	0.56	-0.11	13.01
79	7883.00	2.69	187.03	96.00	7872.65	165.09	165.09	N	38.93	E	169.61	13.27	0.34	0.34	-0.26
80	7979.00	2.91	192.19	96.00	7968.53	160.47	160.47	N	38.14	E	164.94	13.37	0.35	0.23	5.38
81	8075.00	3.46	186.62	96.00	8064.39	155.21	155.21	N	37.29	E	159.63	13.51	0.66	0.57	-5.80
82	8171.00	2.72	180.69	96.00	8160.25	150.05	150.05	N	36.93	E	154.53	13.83	0.84	-0.77	-6.18
83	8267.00	2.68	174.77	96.00	8256.14	145.54	145.54	N	37.10	E	150.20	14.30	0.29	-0.04	-6.17
84	8363.00	3.17	188.09	96.00	8352.02	140.68	140.68	N	36.94	E	145.45	14.71	0.87	0.51	13.88
85	8459.00	2.00	210.91	96.00	8447.92	136.61	136.61	N	35.70	E	141.20	14.65	1.60	-1.22	23.77
86	8556.00	1.51	228.27	97.00	8544.87	134.31	134.31	N	33.88	E	138.52	14.16	0.74	-0.51	17.90
87	8640.00	1.73	222.35	84.00	8628.84	132.64	132.64	N	32.20	E	136.49	13.65	0.33	0.26	-7.05
88	8800.00	2.08	197.42	160.00	8788.75	128.08	128.08	N	29.70	E	131.48	13.06	0.56	0.22	-15.58
89	8900.00	2.26	200.00	100.00	8888.68	124.50	124.50	N	28.48	E	127.71	12.89	0.20	0.17	2.59
90	9000.00	2.40	193.70	100.00	8988.60	120.61	120.61	N	27.32	E	123.67	12.76	0.29	0.14	-6.30
91	9100.00	2.44	196.69	100.00	9088.51	116.54	116.54	N	26.21	E	119.45	12.67	0.13	0.04	2.99
92	9200.00	2.49	206.33	100.00	9188.42	112.55	112.55	N	24.63	E	115.21	12.34	0.42	0.05	9.64
93	9300.00	2.21	195.42	100.00	9288.33	108.74	108.74	N	23.15	E	111.18	12.02	0.53	-0.29	-10.91
94	9400.00	2.84	198.34	100.00	9388.24	104.53	104.53	N	21.86	E	106.79	11.81	0.64	0.63	2.92
95	9500.00	3.12	197.46	100.00	9488.10	99.58	99.58	N	20.27	E	101.62	11.50	0.29	0.29	-0.89
96	9600.00	3.18	194.01	100.00	9587.95	94.29	94.29	N	18.78	E	96.14	11.26	0.20	0.06	-3.45
97	9700.00	3.40	189.21	100.00	9687.78	88.67	88.67	N	17.63	E	90.40	11.25	0.35	0.22	-4.80
98	9800.00	3.28	186.11	100.00	9787.61	82.89	82.89	N	16.85	E	84.59	11.49	0.22	-0.13	-3.10
99	9900.00	3.39	187.16	100.00	9887.45	77.12	77.12	N	16.18	E	78.80	11.85	0.13	0.12	1.05
100	10000.00	3.41	185.37	100.00	9987.27	71.22	71.22	N	15.53	E	72.90	12.30	0.11	0.02	-1.79
101	10100.00	3.28	178.45	100.00	10087.10	65.40	65.40	N	15.33	E	67.18	13.19	0.42	-0.13	-6.92
102	10200.00	3.52	185.28	100.00	10186.92	59.49	59.49	N	15.12	E	61.38	14.26	0.47	0.25	6.83
103	10300.00	3.48	187.76	100.00	10286.74	53.43	53.43	N	14.43	E	55.34	15.12	0.16	-0.05	2.47
104	10400.00	3.49	183.17	100.00	10386.55	47.39	47.39	N	13.85	E	49.37	16.30	0.28	0.01	-4.59
105	10500.00	3.21	187.43	100.00	10486.38	41.58	41.58	N	13.33	E	43.66	17.77	0.37	-0.28	4.26
106	10600.00	3.06	187.45	100.00	10586.23	36.16	36.16	N	12.62	E	38.30	19.24	0.15	-0.15	0.02
107	10700.00	3.41	181.16	100.00	10686.07	30.54	30.54	N	12.21	E	32.89	21.79	0.50	0.35	-6.29
108	10800.00	3.32	183.67	100.00	10785.90	24.68	24.68	N	11.97	E	27.43	25.86	0.17	-0.08	2.51
109	10900.00	3.06	185.04	100.00	10885.75	19.13	19.13	N	11.55	E	22.34	31.11	0.27	-0.26	1.37



Company: EP Energy **Job Number:** _____
Well: EP Energy 8-20C4 **Mag Decl.:** _____
Location: Duchesne, UT **Dir Driller:** _____
Rig: Precision 406 **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		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')		
							N/S (ft)	E/W (ft)	Distance (ft)	Direction Azimuth					
110	11000.00	3.14	188.50	100.00	10985.60	13.76	13.76	N	10.91	E	17.56	38.39	0.20	0.07	3.46
111	11100.00	3.42	194.02	100.00	11085.44	8.16	8.16	N	9.78	E	12.74	50.14	0.43	0.29	5.52
112	11200.00	3.34	196.24	100.00	11185.26	2.48	2.48	N	8.24	E	8.61	73.28	0.16	-0.08	2.22
113	11300.00	3.49	191.39	100.00	11285.09	-3.31	3.31	S	6.83	E	7.59	115.84	0.33	0.16	-4.86
114	11328.00	3.33	189.88	28.00	11313.04	-4.94	4.94	S	6.52	E	8.18	127.16	0.68	-0.60	-5.39
115	11514.00	3.33	189.88	186.00	11498.72	-15.57	15.57	S	4.67	E	16.26	163.31	0.00	0.00	0.00

CENTRAL DIVISION

ALTAMONT FIELD
EP ENERGY 8-20C4
EP ENERGY 8-20C4
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.

1 General**1.1 Customer Information**

Company	CENTRAL DIVISION
Representative	
Address	

1.2 Well Information

Well	EP ENERGY 8-20C4		
Project	ALTAMONT FIELD	Site	EP ENERGY 8-20C4
Rig Name/No.	PRECISION DRILLING/406	Event	DRILLING LAND
Start date	1/9/2015	End date	1/24/2015
Spud Date/Time	1/11/2015	UWI	EP ENERGY 8-20C4
Active datum	KB @5,864.0ft (above Mean Sea Level)		
Afe No./Description	163416/52889 / EP ENERGY 8-20C4		

2 Summary**2.1 Operation Summary**

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
12/12/2014	6:00 6:00	24.00	CASSURF	24		P	0.0	SET 57' 20" STRUCTURAL, SET MOUSE HOLE @ 80'. DRILLED 12¼" HOLE TO 2,057'. RAN & CMT 1,994' 9-5/8" 40# N-80 LT&C. FC @ 1,948', SHOE @ 1,994'. ADDED RKB CORRECTION FOR PD 406.
1/9/2015	6:00 6:00	24.00	MIRU	01		P	2,057.0	MOVE IN & RIG UP. 100% MOVED IN 70% RIGGED UP. RELEASED TRUCKS @ 16:30 HRS 1/8/15.
1/10/2015	6:00 1:30	19.50	MIRU	01		P	2,057.0	RIG UP. PREP & RAISE DERRICK. RU FLOOR, PU TDU. INSTALL SAVER SUB. INSTALL GAS BUSTER LINES. PERFORM RIG INSPECTION. RIG ON RATE @ 01:30 HRS 1/10/15
	1:30 6:00	4.50	CASSURF	28		P	2,057.0	NU 11" 10M BOPE.
1/11/2015	6:00 9:00	3.00	CASSURF	28		P	2,057.0	NU 11" 10M BOPE.
	9:00 15:00	6.00	CASSURF	19		P	2,057.0	TESTED 11" 5M ANNULAR TO 250 / 2,500 PSI AND REMAINING BOPE, FLOOR VALVES, ETC TO 250 / 5,000 PSI. TESTED CHOKE MANIFOLD TO 250 / 10,000 PSI. HELD EACH TEST 10 MINUTES. INSTALL WEAR BUSHING.
	15:00 16:00	1.00	CASSURF	31		P	2,057.0	TEST CASING TO 2,500 PSI FOR 30 MINUTES. TEST GOOD.
	16:00 18:00	2.00	CASSURF	28		P	2,057.0	NU ROT HEAD & INSTALL FLOW LINE.
	18:00 23:00	5.00	CASSURF	14		P	2,057.0	PU 8¾" BHA. TIH. TAG CEMENT @ 1,819'.
	23:00 1:00	2.00	CASSURF	17		P	2,057.0	SLIP & CUT DRILL LINE.
	1:00 4:30	3.50	CASSURF	32		P	2,057.0	DRILL OUT CEMENT, FLOAT COLLAR @ 1,948', SHOE TRACK & FLOAT SHOE @ 1,992'. WASH TO BOTTOM @ 2,057'. DRILL 10' NEW HOLE TO 2,067'. SPUD @ 04:26 01/11/2015
	4:30 5:00	0.50	DRLINT1	33		P	2,067.0	CIRCULATE. FIT TO 15.4 PPG EMW. ACTIVITY MW 9.7 PPG. 612 PSI SURFACE PRESSURE APPLIED.
	5:00 6:00	1.00	DRLINT1	07		P	2,067.0	DRILLED 2,067' - 2,182'.
1/12/2015	6:00 14:00	8.00	DRLINT1	07		P	2,182.0	DRILLED 2,182' - 2,952'.
	14:00 14:30	0.50	DRLINT1	12		P	2,952.0	SERVICED RIG & TDU.
	14:30 22:00	7.50	DRLINT1	07		P	2,952.0	DRILLED 2,952' - 3,622'.
	22:00 22:30	0.50	DRLINT1	12		P	3,622.0	SERVICED RIG & TDU.
	22:30 6:00	7.50	DRLINT1	07		P	3,622.0	DRILLED 3,622' - 4,273'.
1/13/2015	6:00 14:00	8.00	DRLINT1	07		P	4,273.0	DRILLED 4,273' - 4,870'.
	14:00 14:30	0.50	DRLINT1	12		P	4,870.0	SERVICED RIG & TDU.
	14:30 23:00	8.50	DRLINT1	07		P	4,870.0	DRILLED 4,870' - 5,635'.

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	23:00 23:30	0.50	DRLINT1	12		P	5,635.0	SERVICED RIG & TDU.
	23:30 0:30	1.00	DRLINT1	07		P	5,635.0	DRILLED 5,635' - 5,784'.
	0:30 2:00	1.50	DRLINT1	44		N	5,784.0	LOCATE & REPAIR ELECTRICAL CONNECTION TO DRILLERS CONSOLE.
	2:00 6:00	4.00	DRLINT1	07		P	5,784.0	DRILLED 5,784' - 6024'.
1/14/2015	6:00 8:00	2.00	DRLINT1	07		P	6,024.0	DRILLED 6,024' - 6,180'.
	8:00 8:30	0.50	DRLINT1	70		P	6,180.0	SAFETY SHUT DOWN WITH HOUSTON OFFICE & PRECISION PERSONEL.
	8:30 14:00	5.50	DRLINT1	07		P	6,180.0	DRILLED 6,180' - 6,505'.
	14:00 14:30	0.50	DRLINT1	07		P	6,505.0	SERVICE RIG & TDU.
	14:30 23:30	9.00	DRLINT1	07		P	6,505.0	DRILLED 6,505' - 7,077'.
	23:30 0:00	0.50	DRLINT1	12		P	7,077.0	SERVICE RIG & TDU.
	0:00 0:30	0.50	DRLINT1	70		P	7,077.0	SAFETY SHUT DOWN WITH PRECISION PERSONEL.
	0:30 6:00	5.50	DRLINT1	07		P	7,077.0	DRILLED 7,077' - 7,370'.
1/15/2015	6:00 13:30	7.50	DRLINT1	07		P	7,370.0	DRILLED 7,370' - 7,755'.
	13:30 14:00	0.50	DRLINT1	12		P	7,755.0	SERVICED RIG & TDU.
	14:00 23:00	9.00	DRLINT1	07		P	7,755.0	DRILLED 7,755' - 8,233'.
	23:00 23:30	0.50	DRLINT1	12		P	8,233.0	SERVICED RIG & TDU.
	23:30 23:30	0.00	DRLINT1	07		P	8,233.0	DRILLED 8,233' - 8,620'.
1/16/2015	6:00 7:30	1.50	DRLINT1	07		P	8,620.0	DRILLED 8,620' - 8,704'. INTERMEDIATE TD.
	7:30 8:30	1.00	EVLINT1	15		P	8,704.0	SIM CONN. CBU. BU GAS 5,050 UNITS FOR 3 MIN, NO LOSSES. BG GAS 92 UNITS.
	8:30 17:30	9.00	EVLINT1	13		P	8,704.0	FC, WELL STATIC. POOH & LD DIR BHA. FC @ 5,349', 2,047, & BHA. WELL STATIC.
	17:30 22:30	5.00	EVLINT1	13		P	8,704.0	MU BIT & TIH TO 8,704'.
	22:30 0:30	2.00	EVLINT1	15		P	8,704.0	C&C MUD TO 10.4 PPG. MAX BU GAS 7,808 UNITS FOR 20 MIN WITH 5/10 MC TO 9.6 PPG. NO GAIN, NO FLARE. PREFORM RIG SERVICE WHILE CCM. LOST 84 BBL MUD ON TRIP.
	0:30 6:00	5.50	EVLINT1	13		P	8,704.0	FLOW CHECK. WELL STATIC. LD 4½" DP. CLEAN OFF RIG FLOOR. FLOW CHECK @ 5,000', 2,000'.
1/17/2015	6:00 8:30	2.50	EVLINT1	14		P	8,704.0	FLOW CHECK. WELL STATIC. POOH LDDP AND BHA. FC @ SHOE & BHA.
	8:30 9:00	0.50	EVLINT1	14		P	8,704.0	PULL WEAR BUSHING.
	9:00 14:30	5.50	EVLINT1	22		P	8,704.0	PJSM. RU & RUN HES STANDARD QUAD COMBO TO 8,628'. LOG UP FROM 8,628'. RD WL.
	14:30 6:00	15.50	CASSURF	24		P	8,704.0	PJSM. RU CSG CREW & TORQ TURN. RUNNING 7" CSG @ 6,530'. NO DISPLACEMENT RETURNS. COULD NOT CIRC @ 6,000'.
1/18/2015	6:00 8:30	2.50	CASINT1	24		P	8,704.0	RAN 196 JTS 7" 20# ICP-110 LT&C CSG TO 8,704'. FLOAT COLLAR @ 8,660', MARKER JT @ 6,732'. NO RETURNS.
	8:30 11:00	2.50	CASINT1	15		P	8,704.0	ATTEMPT TO RE-GAIN RETURNS, NO SUCCESS. PUMPED 50 BBL H2O, 40 BBL LCM @ 28 PPB.
	11:00 15:00	4.00	CASINT1	25		P	8,704.0	M&P PUMPED 40 BBL 10.3 PPG TUNED SPACER. 530 SXS (180 BBL) EXTENDACEM LEAD CMT @ 12.5 PPG, 1.91 YLD TAILED WITH 340 SXS (99 BBL) OF EXPANDACHEM CMT @ 13 PPG, 1.64 YIELD @ 4 BPM. RELEASED TOP PLUG. DISPLACED WITH 321 BBL OF 10.1 PPG MUD @ 3 BPM. BUMPED PLUG @ 14:21 HRS 1/17/15 WITH 2,176 PSI. 2.5 BBL BLED BACK, FLOATS HELD. RD CEMENTERS. NO RETURNS DURING CMT OPS. EST TOC 2,000'.
	15:00 18:00	3.00	CASINT1	27		P	8,704.0	LD LANDING JT. CO BAILS. INSTALL & TEST PACK-OFF TO 5,000 PSI FOR 10MIN.
	18:00 23:00	5.00	CASINT1	30		P	8,704.0	RU TESTER. ATTEMPT TO TEST ANNULAR, FAILED TEST. TESTED BOPE, FLOOR VALVES, ETC TO 250 / 10,000 PSI. HELD EACH TEST 10 MIN.

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	23:00 1:00	2.00	CASINT1	48		N	8,704.0	ND ROT HEAD & FLOW LINE. CHANGE OUT ANNULAR ELEMENT.
	1:00 2:00	1.00	CASINT1	30		P	8,704.0	TEST ANNULAR TO 250/4,000 PSI 10 MIN EACH. PULL TEST PLUG.
	2:00 3:00	1.00	CASINT1	31		P	8,704.0	TEST 7" CSG TO 2,500 PSI FOR 30 MIN.
	3:00 4:00	1.00	CASINT1	48		N	8,704.0	NU ROT HEAD & FLOW LINE.
	4:00 6:00	2.00	CASINT1	13		P	8,704.0	PU HANDLING TOOLS. MU BIT & BHA. TIH.
1/19/2015	6:00 15:30	9.50	CASINT1	14		P	8,704.0	TIH PU 4" DP.
	15:30 17:00	1.50	CASINT1	17		P	8,704.0	S&C DRILL LINE.
	17:00 17:30	0.50	CASINT1	12		P	8,704.0	SERVICED RIG & TDU.
	17:30 19:00	1.50	CASINT1	32		P	8,704.0	TAG FC @ 8,660'. DRILL OUT FE, SHOE TRACK & 10'.
	19:00 19:30	0.50	CASINT1	33		P	8,714.0	CBU & ATTEMPT TO PERFORM FIT TO 15.4 EMW WITH 10.5 PPG MUD, LEAKED OFF TO 1,750 PSI, 14.3 EMW.
	19:30 23:00	3.50	DRLPRD	07		P	8,714.0	DRILLED 8,714' - 9,185'.
	23:00 23:30	0.50	DRLPRD	12		P	9,185.0	SERVICED RIG & TDU.
	23:30 0:00	0.50	DRLPRD	07		P	9,185.0	DRILLED 9,185' - 9,280'.
	0:00 1:30	1.50	DRLPRD	11		P	9,280.0	CBU. WL SURVEY 2.54* @ 9,247'.
1:30 6:00	4.50	DRLPRD	07		P	9,280.0	DRILLED 9,280' - 9,662'.	
1/20/2015	6:00 15:00	9.00	DRLPRD	07		P	9,662.0	DRILLED 9,662' - 10,892'.
	15:00 15:30	0.50	DRLPRD	12		P	10,892.0	SERVICED RIG & TDU.
	15:30 19:30	4.00	DRLPRD	07		P	10,892.0	DRILLED 10,892' - 11,362'.
	19:30 20:00	0.50	DRLPRD	12		P	11,362.0	SERVICED RIG & TDU.
	20:00 21:00	1.00	DRLPRD	07		P	11,362.0	DRILLED 11,362' - 11,514'.
	21:00 22:00	1.00	EVLPRD	15		P	11,514.0	C&C MUD TO 11.5 PPG. BG GAS 34 UNITS. FLOW CHECK. WELL STATIC.
	22:00 2:00	4.00	EVLPRD	13		P	11,514.0	WIPER TRIP TO SHOE.
	2:00 4:00	2.00	EVLPRD	15		P	11,514.0	CCM TO 11.8 PPG. MAX GAS BU 4,296 UNITS. NO FLARE. MC TO 11.4 PPG. FLOW CHECK. WELL STATIC. AFTER WEIGHT UP BGG 22 UNITS.
4:00 6:00	2.00	EVLPRD	13		P	11,514.0	POOH FOR LOGS. FLOW CHECK AT 8,704'. WELL STATIC. DROP DP DRIFT.	
1/21/2015	6:00 10:00	4.00	EVLPRD	14		P	11,514.0	POOH LD BHA.
	10:00 21:00	11.00	EVLPRD	22		P	11,514.0	PJSM. RU & RAN ULTRA SLIM QUAD COMBO. 1ST RUN TO 5,000', TOOLS FAILED. 2ND RUN TO 7,400' TOOLS FAILED. FOUND BAD AREA IN CABLE, CUT & RE-DRESS HEAD. 3RD RUN MADE IT TO BTM, THE CALIPER & DENSITY FAILED. LOG UP TO SHOE @ 8,704' WITH GAMMA & NEUTRON.
	21:00 2:00	5.00	CASPRD1	24		P	11,514.0	PJSM. RU & RAN 71 JTS 5" 18# P-110HC STL LINER. 2 MARKER JTS. MADE UP VERSAFLEX LINER HANGER ASSEMBLY & SETTING TOOL. BREAK CIRC @ 1000', 2000'.
	2:00 3:00	1.00	CASPRD1	15		P	11,514.0	INSTALLED ROTATING ELEMENT. CIRC LINER VOLUME @ 2.5 BPM. RD CSG CREW.
	3:00 6:00	3.00	CASPRD1	13		P	11,514.0	TIH @ 75 FPM WITH 5" LINER ON 4" XT 39 DP. BREAK CIRC EVERY 1,000'. CIRC OUT EVERY 2,000'.
1/22/2015	6:00 11:30	5.50	CASPRD1	24		P	11,514.0	TIH W/ 5" LINER ON 4" DP @ 70 FPM TO 8,715'. BREAK CIRC EVERY 1,000'. NO LOSSES.
	11:30 13:00	1.50	CASPRD1	15		P	11,514.0	CBU @ 2.5 BPM. MAX GAS 6310 UNITS. NO MC. NO FLARE. FINAL BG 157UNITS.
	13:00 17:30	4.50	CASPRD1	24		P	11,514.0	TIH @ 50 FPM WITH 5" LINER ON 4" DP. BREAK CIRC EVERY 1,000'. TAG BTM WITH 10K. NO LOSSES. SPACED OUT & RU CMT HEAD.
	17:30 21:30	4.00	CASPRD1	15		P	11,514.0	CBU X 2 @ 2.5 BPM. MAX GAS 4289 UNITS. BGG 140 UNITS. NO FLARE. NO LOSSES. MW IN 11.3 PPG / OUT 11.2. FINAL CIRC PRESSURE 600 PSI @ 2.5 BPM.

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	21:30 0:00	2.50	CASPRD1	25		P	11,514.0	RU HES & TESTED LINES TO 8,000 PSI. PUMPED 20 BBLS 11.5 PPG TUNED SPACER & 220 SKS (60.0 BBLS) 14.2 PPG WITH 1.52 YIELD EXPANDACEM CMT. WASHED LINES. DROPPED DP DART. PUMPED 60 BBLS H2O WITH 2% KCL 0.1 % BIOCIDES, 77.9 BBLS 11.3 PPG MUD. BUMPED PLUG WITH 2645 PSI @ 23:47 HRS 01/21/15. CHECKED FLOATS, FLOATS HELD, 1.5 BBLS BLED BACK. EST TOC 8,558'.
	0:00 0:30	0.50	CASPRD1	25		P	11,514.0	RELEASED BALL, RUPTURE DISC @ 5,380 PSI. PUMPED 44 BBLS, PRESSURED TO 6,790 PSI, EXPANDED HANGER. PULL TESTED LINER WITH 60K OVERPULL. SAT DOWN 70K, RELEASED SETTING TOOL FROM LINER HANGER. LANDED FS @ 11,514', FC @ 11,469', LC @ 11,425'. TOL @ 8,558'. 146' OF LAP. TOTAL LINER 2,955'. MARKER JT TOPS @ 10,512' & 9,517'.
	0:30 2:00	1.50	CASPRD1	15		P	11,514.0	PULLED UP TO TOL. OBSERVED 3 OVERPULLS OF 5K THROUGH CLAD SECTION. CIRC 2 TIMES ANNULAR VOLUME. 20 BBLS WEIGHTED SPACER & 4 BBLS WEIGHTED CEMENT TO SURFACE. CHECKED FLOW (NEG). POSITIVE TEST TOL TO 1,000 PSI FOR 10MIN.
	2:00 5:00	3.00	CASPRD1	15		P	11,514.0	PUMPED 300 BBLS H2O WITH NO ADDITIVES, 300 BBLS H2O WITH 2% KCL 0.1 % BIOCIDES TILL CLEAN RETURNS. RD HES.
	5:00 6:00	1.00	CASPRD1	14		P	11,514.0	LD CEMENT HEAD & POOH LD 4" DP.
1/23/2015	6:00 17:30	11.50	CASPRD1	14		P	11,514.0	LD 4" DP.
	17:30 18:00	0.50	CASPRD1	42		P	11,514.0	CLEANED RIG FLOOR OF 4" EQUIPMENT.
	18:00 23:00	5.00	CASPRD1	29		P	11,514.0	PJSM. ND BOPE. USED WFT TORQUE TURN TO BREAK BOP BOLTS. AFTER PULLING B SECTION OFF. NOTICED BOTTOM GASKET ON 7" PACK OFF WAS LEAKING F/ BACKSIDE. RE INSTALLED B SECTION & 11" X 10,000 & 7" X 5,000 DSA. INSTALLED 7-5K X 2-7/8" EUE B4T ADAPTER FLANGE (NIGHT CAP) AND 2" BALL VLV. RELEASED RIG @ 23:00 01/22/2015.
	0:00 6:00		RDMO	02		P	11,514.0	PJSM. RD & PREP RIG FOR MOVE TO THE FLYING DUTCHMAN 5-17C4.
1/24/2015	6:00 6:00	24.00	RDMO	02		P	11,514.0	RIG DOWN PREPARED FOR RIG MOVE T/ FLYING DUTCHMAN 5-17C4.
1/27/2015	6:00 8:00	2.00	CASPRD1	42		P	11,514.0	WAIT ON HALLIBURTON.
	8:00 12:30	4.50	CASPRD1	34		P	11,514.0	PJSM. CK PRESSURE ON CSG 170 PSI. RU HALLIBURTON. PRESSURE UP INSIDE 7" CSG TO 2,000 PSI. TEST LINES TO 4,000 PSI. PUMP 50 BBL'S DRILLING MUD 12.0#. 40 BBL'S OF WATER. 10 BBL'S TUNED SPACER. PUMPED 143 BBL'S LEAD CEMENT. 14.0# 1.36 YIELD. PUMPED TAIL CEMENT PUMPED 35 BBL'S 15.8# 1.17 YIELD. PUMP 5 BBL'S DISPLACEMENT. (CSG ON VACUMN).
	12:30 19:00	6.50	CASPRD1	26		P	11,514.0	WOC.
	19:00 21:00	2.00	CASPRD1	31		P	11,514.0	PJSM. PRESSURE UP INSIDE 7" CSG TO 2,000 PSI. PUMPED 10.2 BBL'S WATER BETWEEN 7" CASING & 9 5/8" CSG. PRESSURE TEST SQUEEZE 500 PSI. LOST 10 PSI IN 5 MINS. RD HALLIBURTON.
	21:00 6:00	9.00	CASPRD1	26		P	11,514.0	WOC.

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CENTRAL DIVISION

ALTAMONT FIELD
EP ENERGY 8-20C4
EP ENERGY 8-20C4
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.

1 General

1.1 Customer Information

Company	CENTRAL DIVISION
Representative	
Address	

1.2 Well Information

Well	EP ENERGY 8-20C4		
Project	ALTAMONT FIELD	Site	EP ENERGY 8-20C4
Rig Name/No.		Event	COMPLETION LAND
Start date	2/3/2015	End date	
Spud Date/Time	1/11/2015	UWI	EP ENERGY 8-20C4
Active datum	KB @5,864.0ft (above Mean Sea Level)		
Afe No./Description	163416/52889 / EP ENERGY 8-20C4		

2 Summary

2.1 Operation Summary

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
2/3/2015	6:00 7:00	1.00	MIRU	28		P		CREW TRAVEL TO LOCATION HSM WRITE AND REVIEW JSA TOPIC; MOVING RIG...ROAD RIG FROM 4-2B4 TO LOCATION
	7:00 11:00	4.00	MIRU	01		P		BLADE LOCATION FILL IN SOFT SPOT w 3"- GRAVEL
	11:00 12:30	1.50	MIRU	01		P		MIRU N/U 5K BOPE 2 7/8" PIPE RAMS & BLINES ON TOP OF 7" X 10K FRAC VALVE SET CAT WALK RACK AND TALLY TBG
	12:30 17:30	5.00	PRDHEQ	39		P		P/U 4 1/8" RB 2 3/8" REG X 2 3/8" EUE 8RD BIT SUB 100 JTS OF 2 3/8" TBG 2 3/8" X 2 7/8" EUE 8RD X-OVER CONTINUE P/U 240 JTS OF 2 7/8" TBG EOT 10838' SECURE WELL 7" X 10K FRAC VALVE 5K BOPE TIW VALVE w NIGHT CAP
2/4/2015	6:00 7:00	1.00	PRDHEQ	28		P		CREW TRAVEL TO LOCATION HSM WRITE AND REVIEW JSA TOPIC; P/U TBG
	7:00 8:00	1.00	PRDHEQ	39		P		FINISH TIH TAG AT 11369'
	8:00 11:40	3.67	PRDHEQ	10		P		R/U POWER SWIVEL ESTABLISH CIRC C/O TO 11425' CIRC WELL CLEAN w 450 BBLs OF 2% KCL
	11:40 12:00	0.33	PRDHEQ	39		P		R/D POWER SWIVEL
	12:00 16:30	4.50	PRDHEQ	39		P		TOH w 252 JTS OF 2 7/8" TBG CHANGE HANDLING TOOLS CONTINUE w 100 JTS OF 2 3/8" TBG L/D BIT AND BIT SUB
	16:30 18:00	1.50	PRDHEQ	16		P		SECURE WELL SHUT 7" X 10K FRAC VALVE N/D BOPE INSTALL NIGHT CAP ON 7" X 10K FRAC VALVE RACK OUT PUMP AND LINES SDFN
2/5/2015	6:00 6:00	24.00	MIRU	18		P		HAUL WATER AND PREP FOR FRAC
2/6/2015	6:00 6:30	0.50	MIRU	28		P		TGSM & JSA (NU & TESTING PROCEDURES)
	6:30 12:30	6.00	MIRU	16		P		NU FRAC STACK, TEST CASING TO 9000 PSI FOR 30 MINUTES. TEST FLOW BACK IRON TO 4600 PSI. TEST STACK TO 9000 PSI.
2/7/2015	6:00 6:30	0.50	STG01	28		P		TGSM & JSA (PERFORATING)
	6:30 11:30	5.00	STG01	21		P		RIH W/ 2-3/4" HSC GUNS LOADED 3 JSPF W/ 15.1 GM CHARGES & 120* PHASING W/ CBP, PRESSURE UP ON CASINNG TO 1000 PSIG. PERFORATE STAGE 1 11,196 TO 10,840. NO PRESSURE CHANGES. SHUT FRAC VALVE, SHUT AND LOCK HCR VALVES, ENSURE CASING AND FLOW CROSS VALVES SHUT WITH NIGHT CAPS. RDMO W/ WIRE LINE.
2/8/2015	6:00 6:00	24.00	STG01	28		P		PREP FOR FRAC
2/9/2015	6:00 6:00	24.00	STG01	28		P		PREP FOR FRAC
2/10/2015	6:00 6:30	0.50	MIRU	28		P		TGSM & JSA (FRAC OPERATIONS)

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	6:30 11:00	4.50	MIRU	01		P		MIRU WEATHERFORD FRAC EQUIPMENT,PRESSURE TEST EQUIPMENT TO 9500 PSIG
	11:00 12:30	1.50	STG01	35		P		SIP @ 225 PSIG, BREAK DOWN STAGE 1 PERFS 7.2 BPM @ 4,606 PSIG, ESTABLISH INJECTION RATE @ 27 BPM @ 4889 PSI. ISIP @ 3977 F.G 79.5 MIN 3848. PUMP 5000 GAL 15% HCL, TREAT STAGE 1 PERFS W/ 3000# 100 MESH IN .5 PPG STAGE AND 150,040 # TLC 30/50 IN .5-3 PPG FLUSH TO TOP PERF ISDP @ 4,481, F.G .83, AVG RATE 76.7 BPM, MAX RATE 78.8 BPM, AVE PRES 5,281, MAX PRES 7,735. AVE HORSE POWER 9,928 SWI TOT WIRELINE, STAGE 1 WATER TO RECOVER 3,782.
	12:30 13:30	1.00	STG02	21		P		RU WIRELINE SET CBP @ 10775' W/ 4400 PSI. PERFORATED STAGE #2 FROM 10760' TO 10461'. ALL PERFS CORRELATED TO CUTTERS RADIAL CEMENT, GAMMA RAY, CCL LOG RUN #1 DATED 25-JAN-2015. 23 NET FT. 69 SHOTS. USING 2 3/4" GUNS, 15 GM CHARGES, 3 JSPF, 120 PHASING. FINAL PRESSURE 3800 PSI. RD WIRELINE.
	13:30 15:30	2.00	STG02	35		P		SIP @ 3762 PSIG, BREAK DOWN STAGE 2 PERFS 5 BPM @ 4,356 PSIG, ESTABLISH INJECTION RATE @ 30.7 BPM @ 4710 PSI. ISIP @ 4163 F.G 82.5 MIN 4130. PUMP 5000 GAL 15% HCL, TREAT STAGE 2 PERFS W/ 3000# 100 MESH IN .5 PPG STAGE AND 150,100 # TLC 30/50 IN .5-3 PPG FLUSH TO TOP PERF ISDP @ 4,320, F.G .84, AVG RATE 77.7 BPM, MAX RATE 82 BPM, AVE PRES 5,421, MAX PRES 7,542. AVE HORSE POWER 10,324 SWI TOT WIRELINE, STAGE 2 WATER TO RECOVER 3,783.
	15:30 16:30	1.00	STG03	21		P		RU WIRELINE SET CBP @ 10,381' W/ 4300 PSI. PERFORATED STAGE #3 FROM 10366' TO 10083'. ALL PERFS CORRELATED TO CUTTERS RADIAL CEMENT, GAMMA RAY, CCL LOG RUN #1 DATED 25-JAN-2015. 23 NET FT. 69 SHOTS. USING 2 3/4" GUNS, 15 GM CHARGES, 3 JSPF, 120 PHASING. FINAL PRESSURE 3800 PSI. RD WIRELINE.
	16:30 18:00	1.50	STG03	35		P		SIP @ 4013 PSIG, BREAK DOWN STAGE 3 PERFS 10 BPM @ 4,460 PSIG, ESTABLISH INJECTION RATE @ 33.1 BPM @ 4710 PSI. ISIP @ 4231 F.G 84.5 MIN 4173. PUMP 5000 GAL 15% HCL, TREAT STAGE 3 PERFS W/ 3000# 100 MESH IN .5 PPG STAGE AND 150,080 # TLC 30/50 IN .5-3 PPG FLUSH TO TOP PERF ISDP @ 4,406, F.G .86, AVG RATE 76.7 BPM, MAX RATE 83 BPM, AVE PRES 5,293, MAX PRES 7,578. AVE HORSE POWER 10,080 SWI TOT WIRELINE, STAGE 3 WATER TO RECOVER 3,682.
	18:00 19:30	1.50	STG04	21		P		RU WIRELINE SET CBP @ 10,045' W/ 4400 PSI. PERFORATED STAGE #4 FROM 10030' TO 9803'. ALL PERFS CORRELATED TO CUTTERS RADIAL CEMENT, GAMMA RAY, CCL LOG RUN #1 DATED 25-JAN-2015. 23 NET FT. 69 SHOTS. USING 2 3/4" GUNS, 15 GM CHARGES, 3 JSPF, 120 PHASING. FINAL PRESSURE 3800 PSI. RD WIRELINE. (WHEN PERFORATED 9886 TO 9888 WAS TEMORARY STUCK HAD TO WORK FREE)
	19:30 20:30	1.00	STG04	18		P		GREASE VALVES. SHUT IN FRAC VALVE, LOWER AND UPPER HCR VALVES WITH NIGHT CAP. EN SURE ALL CASING VALVE AND FLOW CROSS VALVES CLOSED AND NIGHT CAPS INSTALLED.
2/11/2015	6:00 6:30	0.50	STG04	28		P		TGSM & JSA (FRAC OPERATIONS)

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	6:30 8:00	1.50	STG04	35		P		SIP @ VAC. FILL CASING WITH 78 BBLS. BREAK DOWN STAGE 4 PERFS 20 BPM @ 4,367 PSIG, ESTABLISH INJECTION RATE @ 34.6 BPM @ 4367 PSI. ISIP @ 121 F.G 43 . 5 MIN VAC. PUMP 5000 GAL 15% HCL, TREAT STAGE 4 PERFS W/ 3000# 100 MESH IN .5 PPG STAGE AND 150,100 # TLC 30/50 IN .5-3 PPG FLUSH TO TOP PERF ISDP @ 3,147, F.G .75, AVG RATE 79.9 BPM, MAX RATE 80.8 BPM, AVE PRES 5,091 MAX PRES 6,634. AVE HORSE POWER 9,970 SWI TOT WIRELINE, STAGE 4 WATER TO RECOVER 3,907.
	8:00 9:00	1.00	STG05	21		P		RU WIRELINE SET CBP @ 9,783' W/ 400 PSI. PERFORATED STAGE #5 FROM 9768' TO 9535'. ALL PERFS CORRELATED TO CUTTERS RADIAL CEMENT, GAMMA RAY, CCL LOG RUN #1 DATED 25-JAN-2015. 23 NET FT. 69 SHOTS. USING 2 3/4" GUNS, 15 GM CHARGES, 3 JSPF, 120 PHASING. FINAL PRESSURE 1800 PSI. RD WIRELINE.
	9:00 10:30	1.50	STG05	35		P		SIP @ 1803 PSIG, BREAK DOWN STAGE 5 PERFS 10 BPM @ 4,213 PSIG, ESTABLISH INJECTION RATE @ 32.4 BPM @ 4628 PSI. ISIP @ 4213 F.G 81. 5 MIN 3065. PUMP 5000 GAL 15% HCL, TREAT STAGE 5 PERFS W/ 3000# 100 MESH IN .5 PPG STAGE AND 150,070 # TLC 30/50 IN .5-3 PPG FLUSH TO TOP PERF ISDP @ 4,481. F.G .89, AVG RATE 77.9 BPM, MAX RATE 82.4 BPM, AVE PRES 5,167, MAX PRES 6,884. AVE HORSE POWER 9,865 SWI TOT WIRELINE, STAGE 5 WATER TO RECOVER 3,698.
	10:30 11:30	1.00	STG06	21		P		RU WIRELINE SET CBP @ 9,517' W/ 4300 PSI. PERFORATED STAGE #6 FROM 9502' TO 9220'. ALL PERFS CORRELATED TO CUTTERS RADIAL CEMENT, GAMMA RAY, CCL LOG RUN #1 DATED 25-JAN-2015. 23 NET FT. 69 SHOTS. USING 2 3/4" GUNS, 15 GM CHARGES, 3 JSPF, 120 PHASING. FINAL PRESSURE 3150 PSI. RD WIRELINE.
	11:30 12:30	1.00	STG06	35		P		SIP @ 3137 PSIG, BREAK DOWN STAGE 6 PERFS 9 BPM @ 3,823 PSIG, ESTABLISH INJECTION RATE @ 30.8 BPM @ 4320 PSI. ISIP @ 3580 F.G 81. 5 MIN 3376. PUMP 5000 GAL 15% HCL, TREAT STAGE 6 PERFS W/ 3000# 100 MESH IN .5 PPG STAGE AND 150,040 # TLC 30/50 IN .5-3 PPG FLUSH TO TOP PERF ISDP @ 3,852. F.G .84, AVG RATE 78.9 BPM, MAX RATE 84.4 BPM, AVE PRES 4,740, MAX PRES 6,212. AVE HORSE POWER 9,073 SWI TOT WIRELINE, STAGE 6 WATER TO RECOVER 3,775.
	12:30 13:30	1.00	STG07	21		P		RU WIRELINE SET CBP @ 9,201' W/ 3850 PSI. PERFORATED STAGE #7 FROM 9186' TO 8982'. ALL PERFS CORRELATED TO CUTTERS RADIAL CEMENT, GAMMA RAY, CCL LOG RUN #1 DATED 25-JAN-2015. 23 NET FT. 69 SHOTS. USING 2 3/4" GUNS, 15 GM CHARGES, 3 JSPF, 120 PHASING. FINAL PRESSURE 3100 PSI. RD WIRELINE.
	13:30 15:00	1.50	STG07	35		P		SIP @ 3072 PSIG, BREAK DOWN STAGE 7 PERFS 7 BPM @ 3,280 PSIG, ESTABLISH INJECTION RATE @ 35 BPM @ 3745 PSI. ISIP @ 3244 F.G 79. 5 MIN 3136. PUMP 5000 GAL 15% HCL, TREAT STAGE 7 PERFS W/ 3000# 100 MESH IN .5 PPG STAGE AND 150,100 # TLC 30/50 IN .5-3 PPG FLUSH TO TOP PERF ISDP @ 3,945. F.G .86, AVG RATE 79.3 BPM, MAX RATE 83.2 BPM, AVE PRES 4,504, MAX PRES 5,690. AVE HORSE POWER 8,754 SWI TOT WIRELINE, STAGE 7 WATER TO RECOVER 3,745.

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	15:00 16:00	1.00	STG08	21		P		RU WIRELINE SET CBP @ 8,965' W/ 3550 PSI. PERFORATED STAGE #8 FROM 8950' TO 8720'. ALL PERFS CORRELATED TO CUTTERS RADIAL CEMENT, GAMMA RAY, CCL LOG RUN #1 DATED 25-JAN-2015. 23 NET FT. 69 SHOTS. USING 2 3/4" GUNS, 15 GM CHARGES, 3 JSPF, 120 PHASING. FINAL PRESSURE 3000 PSI. RD WIRELINE.
	16:00 17:30	1.50	STG08	35		P		SIP @ 3119 PSIG, BREAK DOWN STAGE 8 PERFS 10 BPM @ 3,571 PSIG, ESTABLISH INJECTION RATE @ 33.7 BPM @ 4013 PSI. ISIP @ 3233 F.G 79. 5 MIN 3069. PUMP 5000 GAL 15% HCL, TREAT STAGE 8 PERFS W/ 3080# 100 MESH IN .5 PPG STAGE AND 150,130 # TLC 30/50 IN .5-3 PPG FLUSH TO TOP PERF ISDP @ 3,437. F.G .82, AVG RATE 81 BPM, MAX RATE 84 BPM, AVE PRES 4,213, MAX PRES 5,464. AVE HORSE POWER 8,364 SWI TOT WIRELINE, STAGE 8 WATER TO RECOVER 3,822.
	17:30 20:00	2.50	RDMO	02		P		SHUT IN FRAC VALVE, LOWER AND UPPER HCR VALVES WITH NIGHT CAP. ENSURE ALL CASING VALVE AND FLOW CROSS VALVES CLOSED AND NIGHT CAPS INSTALLED. RDMOL W/ FRAC EQUIPMENT.
2/12/2015	6:00 7:00	1.00	CTU	28		P		MI TGSM & JSA (COIL TBG PROCEDURES)
	7:00 12:00	5.00	MIRU	01		P		MIRU COIL TBG UNIT, MU COIL CONNECTION, PULL AND PRESSURE TEST. MU MOTOR ASSEMBLY W/ 4 1/8" BIT. NU COIL BOP. PRESSURE TEST TO 8000.
	12:00 17:00	5.00	CTU	40		P		RIH TAG AND DRILL UP CBPS @ 8965, 9201, 9517, 9783, 10045, 10381, 10775. CLEAN OUT TO PBTD @ 11,420' CTM.
	17:00 22:00	5.00	CTU	40		P		CIRCULATE CLEAN, POOH TO LINER, CIRCULATE CLEAN, POOH RDMOL W/ COIL TBG UNIT. TOT FLOW BACK CREW
	22:00 6:00	8.00	FB	23		P		OPEN ON 12/64 CHOKE @ 2150 CURRENT PRESSURE @ 2125 6 HR FLOW BACK 362 BBLS TO FLOW BACK TANK
2/13/2015	6:00 6:30	0.50	FB	28		P		TGSM & JSA (FLOW BACK OPERATIONS)
	6:30 6:00	23.50	FB	23		P		CURRENTLY FLOWING @ 2000 PSI ON 12/64 CHOKE 24 HOUR FLOW BACK 0 MCF 0 OIL 786 WATER
2/14/2015	6:00 6:30	0.50	FB	28		P		CT TGSM & JSA (FLOW BACK OPERATIONS)
	6:30 6:00	23.50	FB	23		P		CURRENTLY FLOWING @ 2000 PSI ON 12/64 CHOKE 24 HOUR FLOW BACK 182 MCF 123 OIL 573 WATER
2/15/2015	6:00 6:30	0.50	FB	28		P		TGSM & JSA (FLOW BACK OPERATIONS)
	6:30 6:00	23.50	FB	23		P		CURRENTLY FLOWING @ 1600 PSI ON 12/64 CHOKE 24 HOUR FLOW BACK 347 MCF 385 OIL 231 WATER
2/16/2015	6:00 6:30	0.50	FB	28		P		CT TGSM & JSA (FLOW BACK OPERATIONS)
	6:30 6:00	23.50	FB	23		P		CURRENTLY FLOWING @ 1450 PSI ON 12/64 CHOKE 24 HOUR FLOW BACK 352 MCF 298 OIL 182 WATER
2/17/2015	6:00 6:30	0.50	FB	28		P		TGSM & JSA (FLOW BACK OPERATIONS)

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	6:30 6:00	23.50	FB	23		P		CURRENTLY FLOWING @ 1300 PSI ON 12/64 CHOKE 24 HOUR FLOW BACK 331 MCF 340 OIL 132 WATER
2/18/2015	6:00 6:30	0.50	FB	28		P		TGSM & JSA (FLOW BACK OPERATIONS)
	6:30 6:00	23.50	FB	23		P		CURRENTLY FLOWING @ 1200 PSI ON 12/64 CHOKE 24 HOUR FLOW BACK 305 MCF 295 OIL 117 WATER
2/19/2015	6:00 7:30	1.50	WLWORK	28		P		TGSM & JSA (WIRE LINE OPERATIONS)
	7:30 9:30	2.00	WLWORK	20		P		RU WIRE LINE UNIT, RIH SET 5" WCS PACKER @ 8630'.
	9:30 12:30	3.00	INSTUB	16		P		BWD, ND STACK TO FRAC VALVE. NU TESTED 5K BOPE. RU WORK FLOOR AND TUBING EQUIPMENT.
	12:30 17:00	4.50	INSTUB	25		P		PUMU & RIH W/ RET HEAD, 5 JTS 2 3/8" 8RD EUE TBG, X/O TO 2 7/8", 255 JOINTS 2 7/8" 8RD EUE TBG. EOT @ 8510'. INSTALL 2 7/8" TIW VALVE W/ NIGHT CAP. SHUT AND LOCK PIPE RAMS. SHUT AND NIGHT CAP CASING VALVES.
2/20/2015	6:00 7:30	1.50	INSTUB	28		P		CT TGSM & JSA (PUMP OPERATIONS)
	7:30 11:00	3.50	INSTUB	25		P		RIH W/ 5 JOITNS, SPACE OUT LAY DOWN 2 JOINTS, PUMP PACKER FLUID.
	11:00 14:00	3.00	RDMO	02		P		RIH W/ 1 JOINT, 6' PUP JOINT, HANGER W/ BPV INSTALLED. ND BOPE, FRAC VALVE, ENSURE CASIN AND TUBING ARE DEAD, RETRIEVE BPV, LAY DOWN HANGER AND 6' PUP JT. RE LAND W/ HANGER AND BPV, NU TREE, MU FLOW LINES, TEST VOID, RETRIEVE BPV, TEST TREE TO 5K, TEST CASING AND SEAL NIPPLE TO 2 K, PUMP OUT PLUG, RDMOL
	14:00 6:00	16.00	FB	23		P		OPEN @ 1950 ON 12/64 CHOKE CURRENT PRESSURE @ 1450 ON 12/64 CHOKE 140 MCF 225 OIL 129 WATER

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STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
1. TYPE OF WELL Oil Well	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.	7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 1001 Louisiana , Houston, TX, 77002	8. WELL NAME and NUMBER: EP Energy 8-20C4
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2261 FSL 0791 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 20 Township: 03.0S Range: 04.0W Meridian: U	9. API NUMBER: 43013531660000
PHONE NUMBER: 713 997-5038 Ext	9. FIELD and POOL or WILDCAT: ALTAMONT
	COUNTY: DUCHESNE
	STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 8/23/2015	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

Upgraded tubing. See attached.

**Accepted by the
 Utah Division of
 Oil, Gas and Mining
 FOR RECORD ONLY
 November 09, 2015**

NAME (PLEASE PRINT) Maria S. Gomez	PHONE NUMBER 713 997-5038	TITLE Principal Regulatory Analyst
SIGNATURE N/A	DATE 11/9/2015	

CENTRAL DIVISION

ALTAMONT FIELD
EP ENERGY 8-20C4
EP ENERGY 8-20C4
WORKOVER 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.

1 General**1.1 Customer Information**

Company	CENTRAL DIVISION
Representative	
Address	

1.2 Well Information

Well	EP ENERGY 8-20C4		
Project	ALTAMONT FIELD	Site	EP ENERGY 8-20C4
Rig Name/No.	COROD RIG/X	Event	WORKOVER LAND
Start date	8/18/2015	End date	8/24/2015
Spud Date/Time	1/11/2015	UWI	EP ENERGY 8-20C4
Active datum	KB @5,864.0ft (above Mean Sea Level)		
Afe No./Description	165329/54749 / EP ENERGY 8-20C4		

2 Summary**2.1 Operation Summary**

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
8/19/2015	15:30 17:00	1.50	PRDHEQ	18		P		ROAD COROD RIG FROM 4-32B4 TO 8-20C4, SLIDE ROTA FLEX BACK, MIRU RIG WHILE PUMPING 50 BBLS HOT 2% DOWN CSG, BLED GAS OFF OF TBG, L/D POLISH ROD, TRY UNSEAT PUMP, COROD PARTED DEEP OR UNSEATED PUMP, L/D POLISH ROD & 20' OF PONY SUBS, P/U POLISH ROD
	17:00 18:00	1.00	PMPNG	24		P		R/U HOT OILER TO TBG, FLUSH COROD W/ 60 BBLS 2% KCL, SECURE WELL, SDFD.
8/20/2015	6:00 7:30	1.50	PRDHEQ	46		P		CREW TRAVEL HELD SAFETY MEETIN ON PULLING CO-ROD. FILLED OUT AND REVIEWED JSA.
	7:30 9:30	2.00	MNTSSO	16		P		CONTINUED TOOH W/ CO-ROD. WEAR AREA FROM 3620' TO 6000' (PITTING AND WEAR FROM 4350' TO 5000'). RD CO-ROD RIG.
	9:30 13:00	3.50	MNTSSO	18		P		MIRU SERVICE RIG. NS WELLHEAD NU BOPE. RELEASED TAC. TAC WOULDN'T ONLY MOVE @ 10' UP AND DOWN. TRIED WORKING TAC FREE W/ TBG TONGS WHILE WAITNG FOR POWER SWIVEL.
	13:00 18:00	5.00	PRDHEQ	16		P		RU POWER SWIVEL SWIVELED 2-JTS 2 7/8 L-80 EUE OUT. TAC MOVING FREE. RD POWEWR SWIVEL. TOOH W/ 12-JTS 2 7/8 L-80 EUE TBG. TAC HUNG UP. RU POWER SWIVEL. SWIVELED 1-JT 2 7/8 OUT. RD POWER SWIVEL. TOOH W/ 45-JTS 2 7/8 L-80 EUE TBG(TTL 59-JTS OUT). CLOSED IN WELL. SDFN.
8/21/2015	6:00 7:30	1.50	MNTSSO	46		P		CREW TRAVEL HELD SAFETY MEETING ON SCANNING TUBING. FILLED OUT AND REVIEWED JSA.
	7:30 10:30	3.00	MNTSSO	16		P		50 TSIP . 50 CSIP. BLED DOWN WELL, CONTINUED SCANNING TUBING TAC STILL HANGING UP. TOOH W/ 70-JTS 2 7/8 L-80 EUE TBG(TTL 129-JTS OUT).EOT 4280.
	10:30 11:30	1.00	ELINE	21		P		RU WIRELINE RIH PERFORATED TBG @ 4010'. RD WIRELINE.
	11:30 15:30	4.00	MNTSSO	16		P		CONTINUED SCANNING TBG W/ 123-JTS 2 7/8 L-80 EUE TBG, TAC, 2-JTS 2 7/8 L-80 EUE TBG(TTL 254-JTS 2 7/8) AND BHA. FOUND HOLE IN JT # 159 @ 5200'. 208 YELLOW JTS, 38 BLUE JTS AND RED JTS. RD SCANNERS. RIH W/ 40-JTS 2 7/8 L-80 EUE TBG.
	15:00 17:00	2.00	ELINE	18		P		RU WIRELINE MADE TD RUN TAGGED @ 11407'. RD WIRELINE TOOH W/ 40-JTS 2 7/8 L-80 EUE TBG.

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	17:00 17:00	0.00	MNTSSO	16		P		RIH W/ 5 3/4 SOLID NO-GO, 2-JTS 2 7/8 L-80 EUE TBG, 5 1/2" PBGA, 2'-2 7/8 N-80 TBG SUB. RU HYDROTESTER RIH HYDRO TESTING @ 8500 PSI W/ SN, 4'-2 7/8 N-80 TBG SUB. 4-JTS 2 7/8 L-80 EUE TBG, NABORS 7" 1/4 TURN TAC AND 44-JTS 2 7/8 L-80 EUE TBG. EOT @ 1570'. CLOSED IN WELL. SDFN.
8/22/2015	6:00 7:30	1.50	PRDHEQ	46		P		CREW TRAVEL HELD SAFETY MEETING ON HYDROTESTING TUBING FILLED OUT AND REVIEWED JSA.
	7:30 11:43	4.22	MNTSSO	34		P		100 CSIP. 100 TSIP. BLED DOWN WELL. RU HYDRO TESTER CONTINUED HYDRO TESTING TBG @ 8500 PSI. RIH W/ 38-JTS 2 7/8 L-80- EUE TBG. PULLED HYDRO TESTING TOOLS. RIH W/ 2'-2 7/8 N-80 TBG SUB, 56-JTS 2 7/8 J-55 BORONIZED EUE TBG, 2'-2 7/8 N-80 TBG SUB. CONTINUED RIH AN HYDRO TESTING 37-JTS 2 7/8 L-80 EUE TBG, PULLED HYDRO TESTING TOOLS. RIH W/ 2' 2 7/8 N-80- TBG SUB. 19-JTS 2 7/8 J-55 BORONIZED EUE TBG, 2'-2 7/8 N-80 TBG SUB. CONTINUED RIH AND HYDROTESTING 61-JTS 2 7/8 L-80 EUE TBG. RD HYDROTESTER.
	14:30 16:30	2.00	MNTSSO	18		P		RD RIG FLOOR. ND BOP. TRIED SET 1/4 TURN TAC @ 8264' UNABLE TO GET TO HOLD. LD 1-JT 2 7/8 L-80 EUE TBG. SET TAC @ 8332' W/ 20K TENSION. NU WELLHEAD AND FLOW LINE.
	16:30 17:30	1.00	MNTSSO	18		P		RD SERVICE RIG. CLEANED LOCATION AND GOT READY TO GO.
8/23/2015	6:00 6:00	24.00	PRDHEQ	18		P		WAIT ON COROD RIG
8/24/2015	6:00 7:00	1.00	PRDHEQ	46		P		CREW TRAVEL HSM WRITE & REVIEW JSA (TOPIC) RIH W/ COROD
	7:00 8:00	1.00	PRDHEQ	18		P		MIRU COROD RIG WHILE FLUSHING TBG W/ 60 BBLS 2% KCL & ROD CHEM
	8:00 15:00	7.00	PRDHEQ	42		P		RIH W/ 2 1/2" X 1 3/4" X 37' HF PUMP, 1353' SE 6, 927" SE 5, CUT COROD, POOH CUTTING UP 2380' OF WORN & PITTED COROD, WELD NEW SE 5, RIH W/ 2350' NEW SE 5, WELD ON REMAINING 1558' SE 5 COROD, RIH, CONTINUE W/ 1247' SE 6, 845' SE 8, SUBS & POLISH ROD, SPACE OUT COROD W/ 2',4',6',8' PONY SUBS, SEAT PUMP @ 8371'
	15:00 15:30	0.50	PMPNG	34		P		FILL TBG W/ 27 BBLS 2% KCL, STROKE TEST PUMP TO 1000 PSI, GOOD TEST, FLUSH FLOW LINE W/ 30 BBLS
	15:30 17:00	1.50	PRDHEQ	18		P		RDMO COROD RIG, SLIDE IN ROTA FLEX, HANG OFF RODS, START UNIT, TWOTO.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: EP Energy 8-20C4
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.	9. API NUMBER: 43013531660000
3. ADDRESS OF OPERATOR: 1001 Louisiana , Houston, TX, 77002	PHONE NUMBER: 713 997-5138 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2261 FSL 0791 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 20 Township: 03.0S Range: 04.0W Meridian: U	9. FIELD and POOL or WILDCAT: ALTAMONT
	COUNTY: DUCHESNE
	STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 7/11/2016	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="Upsize Pump"/>

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

Upsized Pump. See attached for details.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 October 07, 2016

NAME (PLEASE PRINT) Maria S. Gomez	PHONE NUMBER 713 997-5138	TITLE Consultant
SIGNATURE N/A	DATE 10/7/2016	

CENTRAL DIVISION

ALTAMONT FIELD
EP ENERGY 8-20C4
EP ENERGY 8-20C4
WORKOVER 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.

1 General**1.1 Customer Information**

Company	CENTRAL DIVISION
Representative	
Address	

1.2 Well Information

Well	EP ENERGY 8-20C4		
Project	ALTAMONT FIELD	Site	EP ENERGY 8-20C4
Rig Name/No.		Event	WORKOVER LAND
Start date	7/5/2016	End date	7/12/2016
Spud Date/Time	1/11/2015	UWI	EP ENERGY 8-20C4
Active datum	KB @5,864.0ft (above Mean Sea Level)		
Afe No./Description	166957/57168 / EP ENERGY 8-20C4		

2 Summary**2.1 Operation Summary**

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (ft)	Operation
7/6/2016	8:30 11:00	2.50	PRDHEQ	18		P		ROAD COROD RIG FROM THEIR YARD TO 8-20C4, WRITE & REVIEW JSA, SLIDE UNIT BACK, MIRU, BLED OFF TBG, L/D POL ROD, 8' SUB & 1-1" ROD.
	11:00 12:00	1.00	PMPNG	24		P		R/U HOT OILER TO TBG, STARTED FLUSHING, TBG PRESSURED UP TO 700 PSI, STOP AND PUMP 60 HOT BBLs 2% KCL DOWN CSG, TRY FLUSH TBG PRESSURED UP TO 1000 PSI BLED OFF PRESSURE.
	12:00 14:00	2.00	PRDHEQ	42		P		POOH W/ 845' # 7, 1057' # 6, 4965' # 5 & 1353' # 6 SE COROD, L/D STAB SUB & 2 1/2" X 1 3/4" X 40' PUMP.
	14:00 15:00	1.00	PMPNG	24		P		FLUSH TBG W/ 60 BBLs HOT 2% KCL, SECURE WELL, SDFD.
7/7/2016	6:00 7:00	1.00	PRDHEQ	46		P		CREW TRAVEL HSM WRITE & REVIEW JSA (TOPIC) CUTTING & WELDING COROD
	7:00 17:30	10.50	PRDHEQ	42		P		RIH W/ 2 1/2" X 2" X 38' HF PUMP, 1353' # 6 & 1950' # 5 COROD, POOH CUT OUT 1950' # 5, WELD ON 160' NEW # 6 RIH, WELD # 6 TO # 5, RIH W/ 3015' # 5, 1057' # 6, 845' # 7, WELD # 7 TO NEW # 8, RIH W/ 1804' # 8, SPACE OUT W/ 2', 4', 8', 8' PONY SUBS, P/U 1 1/2" X 40' POL ROD, SEAT PUMP @ 8360'.
	17:30 18:30	1.00	PMPNG	34		P		PUMPED 55 BBLs DOWN TBG TO TEST, TBG DIDN'T FILL, TBG ON A BIG VACUUM, SECURE WELL, SDFD.
7/8/2016	6:00 7:00	1.00	PRDHEQ	46		P		CREW TRAVEL HSM WRITE & REVIEW JSA (TOPIC) POOH W/ COROD
	7:00 9:15	2.25	PRDHEQ	42		P		L/D POL ROD & SUBS, SPOT IN SPOOL, POOH W/ 804' # 8, 745' # 7, 1057' # 6, 3015' # 5 & 1500' # 6, STABILIZER SUB, L/D 2 1/2" X 2" X 38' HF PUMP,
	9:15 10:00	0.75	PRDHEQ	18		P		RDMO COROD RIG & EQUIP TO 2-4C4.
7/9/2016	15:00 16:30	1.50	PRDHEQ	18		P		HSM, RIG MOVE, MOVE FROM 2-19B3, SPOT & R/U RIG. HOT OILER FLUSH TBG W/ 60 BBLs 2% KCL @ 200 DEG, TRICKLE DOWN CSG TO KEEP GAS DOWN.

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (ft)	Operation
	16:30 18:30	2.00	PRDHEQ	07		P		X/O TO TBG EQUIP, N/D WH, UNHOOK FLOWLINE, REMOVE CAPSTRING ASSEMBLY, UNLAND TBG, REMOVE 10K B-FLANGE, M/U HANGER & 6'-2 7/8" N-80 TBG SUB, LAND TBG ON HANGER, N/U 5K BOPS & 10K X 5K SPOOL, R/U FLOOR & TBG TONGS, RELEASE 7" TAC. EOT @ 8462 CLOSE & LOCK PIPE RAMS, TBG SHUT IN & NIGHT CAPPED, CSG TO SALES, SDFN 2% KCL PUMPED = 60 BBLS DIESEL USED = 28 GAL PROPANE USED = 50 GAL
7/10/2016	6:00 7:30	1.50	PRDHEQ	46		P		TRAVEL TO LOCATION, HSM, L/D TBG ON TRAILER. 200# SITP & FCP, BLEED OFF
	7:30 12:00	4.50	PRDHEQ	18		P		MIRU TUBOSCOPE TBG SCANNERS, SCAN OOH W/ 84 JTS 2 7/8" L-80 TBG, 2'-2 7/8" N-80 TBG SUB, 93 JTS 2 7/8" J-55 BORONIZED TBG, 2'-2 7/8" N-80 TBG SUB, 12 JTS 2 7/8" L-80 TBG, 2'-2 7/8" N-80 TBG SUB, 47 JTS 2 7/8" J-55 BORONIZED TBG, 2'-2 7/8" N-80 TBG SUB, 18 JTS 2 7/8" L-80 TBG, KLX 7"-1/4 SET TAC, 4 JTS 2 7/8" L-80 TBG, R/D SCANNERS, L/D 4'-2 7/8" N-80 TBG SUB, 2 7/8" SEAT NIPPLE, 2'-2 7/8" N-80 TBG SUB, 5 1/2" PBGA W/ DIP TUBE, 2 JTS 2 7/8" L-80 TBG, 5 3/4" SOLID NO-GO. SPLIT IN JOINT #75 @ 2430'. TOTAL SCANNED 118 JTS 2 7/8" L-80 112 YELLOW 4 BLUE 2 RED 140 JTS 2 7/8" J-55 BORONIZED ALL YELLOW
	12:00 18:00	6.00	PRDHEQ	18		P		P/U & RIH W/ 5 3/4" SOLID NO-GO, 2 JTS 2 7/8" L-80 TBG, 5 1/2" PBGA, 2'-2 7/8" N-80 TBG SUB, NEW 2 7/8" SEAT NIPPLE W/ SV IN PLACE, 4'-2 7/8" N-80 TBG SUB, 1 JT 2 7/8" L-80 TBG, PSI TEST TO 8500#, RETRIEVE SV, R/U HYDROTTESTER, HANG SHEAVES, HYDROTEST TO 8500 PSI W/ 3 JTS 2 7/8" L-80 TBG, 7" KLX 1/4 SET TAC, 18 JTS 2 7/8" L-80 TBG, PULL HYDROTEST TOOLS, RIH W/ 2'-2 7/8" N-80 TBG SUB, 47 JTS 2 7/8" J-55 BORONIZED TBG, 2'-2 7/8" N-80 TBG SUB, CONT HYDROTESTING W/ 12 JTS 2 7/8" L-80 TBG, PULL TOOLS, RIH W/ 2'-2 7/8" N-80 TBG SUB, 93 JTS J-55 BORONIZED PROD TBG, P/U 12 JTS NEW BORONIZED THROUGH WEAR AREA, CONT HYDROTESTING W/ 72 JTS 2 7/8" L-80 TBG, R/D HYDROTTESTER, P/U 2-6' N-80 TBG SUBS, SET TAC @ 8212' W/ 20K TENSION. CLOSE & LOCK PIPE RAMS, TBG SHUT IN, CSG TO SALES, SDFN. 2% KCL PUMPED = 160 BBLS DIESEL USED = 88 GAL PROPANE USED = 150 GAL
7/12/2016	6:00 7:30	1.50	PRDHEQ	46		P		TRAVEL TO LOCATION, HSM, R/D RIG. 100# SITP & FCP, BLEED OFF
	7:30 9:00	1.50	PRDHEQ	18		P		M/U HANGER, LAND TBG ON HANGER, R/D FLOOR & TBG TONGS, N/D BOPS, UNLAND TBG, REMOVE 6' TBG SUB & HANGER, M/U 10K B-FLANGE, LAND TBG ON B-FLANGE, N/U WH, INSTALL CAPSTRING, HOOK UP FLOWLINE, RDMO W/O RIG.
	9:00 10:00	1.00	PRDHEQ	18		P		SPOT & R/U COROD RIG. HOT OILER FLUSH TBG W/ 60 BBLS 2% KCL @ 200 DEG, SPOT 10 GAL CORROSION INHIBITOR..