

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 Flannery 3-20C4								
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 Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME								
6. NAME OF OPERATOR EP ENERGY E&P COMPANY, L.P.						7. OPERATOR PHONE 713 997-5038								
8. ADDRESS OF OPERATOR 1001 Louisiana, Houston, TX, 77002						9. OPERATOR E-MAIL maria.gomez@epenergy.com								
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) 1420H626388			11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input 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') Jerold & Dora Flannery						14. SURFACE OWNER PHONE (if box 12 = 'fee')								
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee') 1140 E FT Pierce Dr, #45, Saint George, UT 84790						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')								
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN') UTE			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>								
20. LOCATION OF WELL		FOOTAGES		QTR-QTR		SECTION		TOWNSHIP		RANGE		MERIDIAN		
LOCATION AT SURFACE		1055 FSL 264 FEL		SESE		20		3.0 S		4.0 W		U		
Top of Uppermost Producing Zone		700 FSL 900 FEL		SESE		20		3.0 S		4.0 W		U		
At Total Depth		700 FSL 900 FEL		SESE		20		3.0 S		4.0 W		U		
21. COUNTY DUCHESNE			22. DISTANCE TO NEAREST LEASE LINE (Feet) 264			23. NUMBER OF ACRES IN DRILLING UNIT 80								
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 2500			26. PROPOSED DEPTH MD: 11449 TVD: 11400								
27. ELEVATION - GROUND LEVEL 5836			28. BOND NUMBER RLB0009692			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	444	2.23	12.0				
							Class G	195	1.3	14.3				
I1	8.75	7	0 - 8649	29.0	HCP-110 LT&C	10.2	Class G	466	1.91	12.5				
							Class G	304	1.64	13.0				
L1	6.125	5	8449 - 11449	18.0	HCP-110 LT&C	11.5	Class G	178	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 checked="" 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 08/20/2014				EMAIL maria.gomez@epenergy.com						
API NUMBER ASSIGNED 43013531210000				APPROVAL  Permit Manager										

**Flannery 3-20C4
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)	3,750' TVD
Green River (GRTN1)	4,433' TVD
Mahogany Bench	5,343' TVD
L. Green River	6,663' TVD
Wasatch	8,533' TVD
T.D. (Permit)	11,400' TVD / +/- 11,449' MD

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

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
	Green River (GRRV)	3,770' MD / 3,750' TVD
	Green River (GRTN1)	4,468' MD / 4,433' TVD
	Mahogany Bench	5,388' MD / 5,343' TVD
Oil	L. Green River	6,709' MD / 6,663' TVD
Oil	Wasatch	8,582' MD / 8,533' TVD

3. Pressure Control Equipment: (Schematic Attached)

A Diverter Stack from 60' MD/TVD to 2,000' MD/TVD on Conductor. A 10M BOP stack w/ rotating head, 10M annular, flex rams, blind rams, mud cross & single w/ flex ram from 2,000' MD/TVD to 8,649' MD/ 8,600' TVD. A 10M BOP stack w/ rotating head, 10M annular, flex rams, blind rams, mud cross & single w/ flex ram from 8,649' MD/ 8,600' TVD to TD (11,449' MD/ 11,400' 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, 5M annular, flex rams, blind rams, mud cross & single w/ flex ram 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:

Patterson #307 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	10.5 – 11.5

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 11,400' TVD equals approximately 6,817 psi. This is calculated based on a 0.598 psi/ft gradient (11.5 ppg mud density at TD).

Maximum anticipated surface pressure equals approximately 4,309 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 8,600' TVD = 6,880 psi

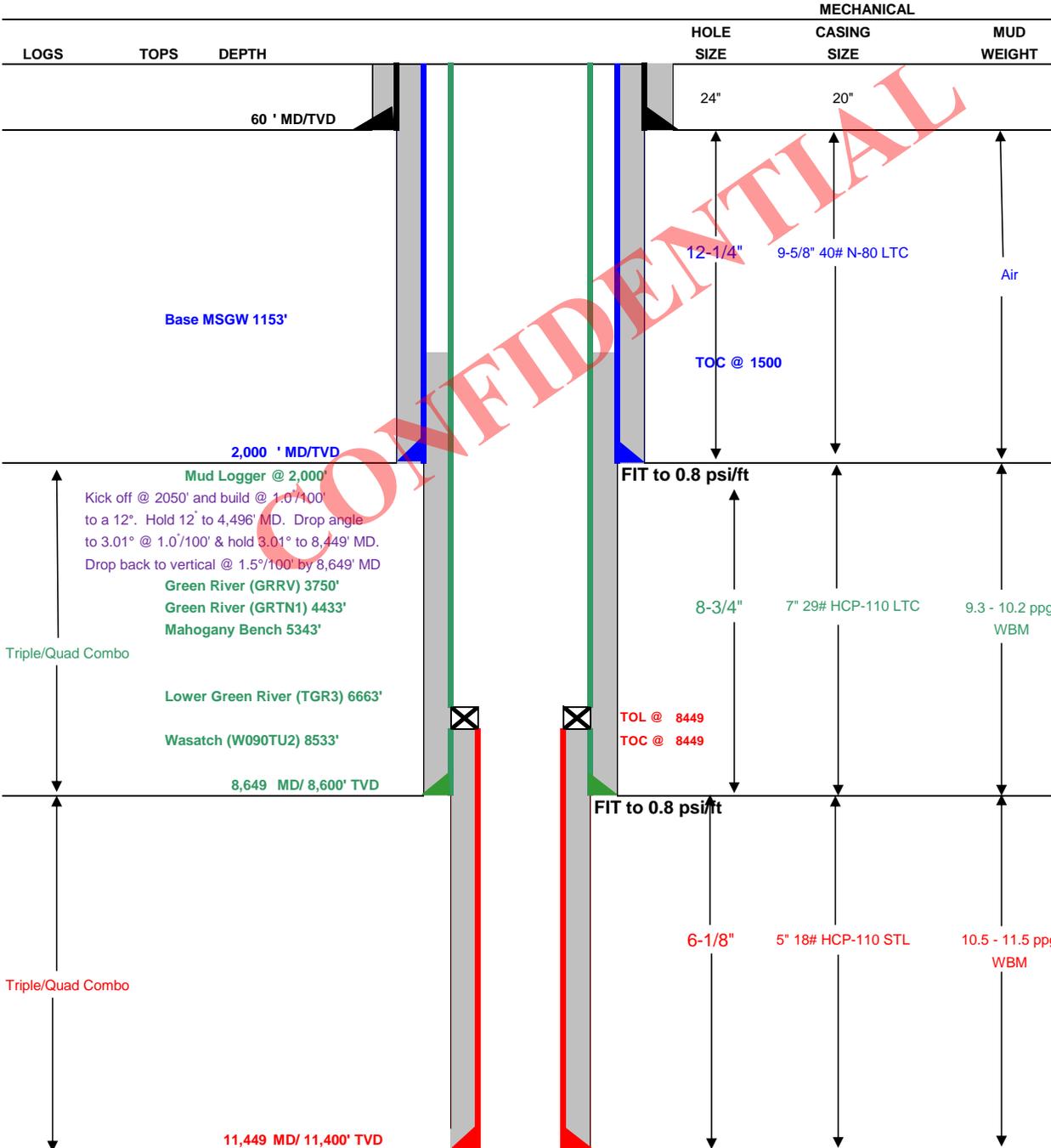
BOPE and casing design will be based on the lesser of the two MASPs which is 4,309 psi.

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



Drilling Schematic

Company Name: EP ENERGY	Date: December 4, 2014
Well Name: Flannery 3-20C4	TD: 11,449
Field, County, State: Altamont, Duchesne, Utah	AFE #: TBD
Surface Location: Sec 20 T3S R4W 1055' FSL 264' FEL	BHL: Sec 20 T3S R4W 700' FSL 900' FEL
Objective Zone(s): Green River, Wasatch	Elevation: 5836.9
Rig: Patterson 307	Spud (est.): TBD
BOPE Info: Diverter Stack from 60' to 2,000' . 11 10M BOP stack w/ rotating head & 10M annular from 2,000' to 8,649' . 11 10M BOP stack w/rotating head, 10M annular, flex rams, blind rams, mud cross & single w/ flex ram from 8,649' 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	8649	29.00	HCP-110	LTC	11,220	9,750	797
PRODUCTION LINER	5'	8449	11449	18.00	HCP-110	STL	13,940	15,450	341

CEMENT PROGRAM		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	Lead	1,500	ECONOCEM SYSTEM: Type V Cement + 20% Enhancer 923 + 2% Cal-Seal 60 + 0.35% Versaset + 0.3% D-Air 5000 + 6% Salt + 2.5% Econolite + 0.125 Poly-E-Flake	444	100%	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	195	50%	14.3 ppg	1.30
INTERMEDIATE	Lead	4,649	EXTENDACEM SYSTEM: Class G Cement + 6% Bentonite + 0.2% Econolite + 0.3% Versaset + 0.75% HR-5 + 0.3% Super CBL + 0.2% Halad-322 + 0.125 lb/sk Poly-E-Flake	466	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		3,000	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	178	25%	14.20	1.47

FLOAT EQUIPMENT & CENTRALIZERS	
SURFACE	PDC drillable float 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 +/- 6,650'.
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 E&P COMPANY, L.P.
FLANNERY 3-20C4
SECTION 20, T3S, R4W, U.S.B.&M.

PROCEED NORTH ON PAVED STATE HIGHWAY 87 FROM THE INTERSECTION OF HIGHWAY 87 WITH U.S. HIGHWAY 40 IN DUCHESNE, UTAH APPROXIMATELY 3.54 MILES TO AN INTERSECTION;

TURN RIGHT AND TRAVEL EASTERLY 2.36 MILES ON EXISTING GRAVEL COUNTY ROAD TO A PREVIOUSLY FLAGGED NEW ACCESS ROAD;

TURN RIGHT AND FOLLOW EXISTING DIRT ROAD 0.16 MILES TO THE BEGINNING OF THE PROPOSED ACCESS ROAD;

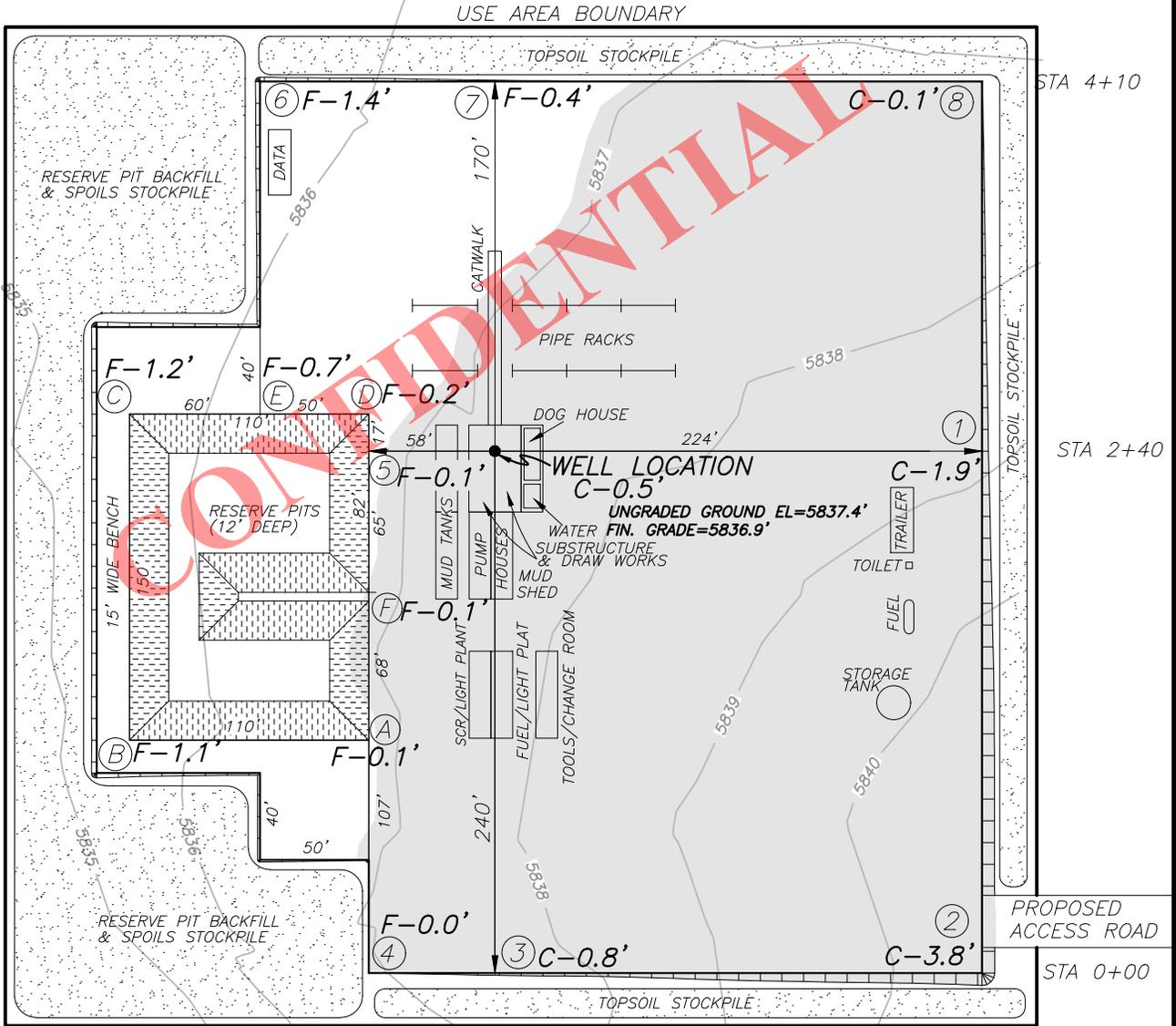
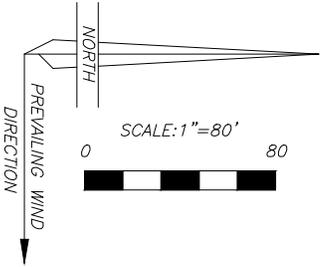
FOLLOW ROAD FLAGS SOUTH, THEN WEST, THEN SOUTH 0.87 MILES TO THE PROPOSED WELL LOCATION;

THE TOTAL DISTANCE FROM DUCHESNE, UTAH TO THE PROPOSED LOCATION IS APPROXIMATELY 6.93 MILES.

EP ENERGY E&P COMPANY, L.P.

FIGURE #1

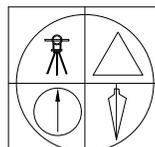
LOCATION LAYOUT FOR
 FLANNERY 3-20C4
 SECTION 20, T3S, R4W, U.S.B.&M.
 1055' FSL, 264' FEL



Jerry D. Allred
 PROFESSIONAL LAND SURVEYOR
 No. 148951
 JERRY D. ALLRED
 10 NOV '14
 STATE OF UTAH

REV 10 NOV 2014
 REV 19 AUG 2014
 13 JUN 2013

01-128-395

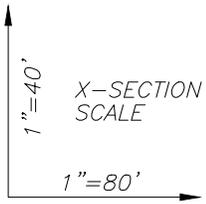


JERRY D. ALLRED & ASSOCIATES
 SURVEYING CONSULTANTS
 1235 NORTH 700 EAST--P.O. BOX 975
 DUCHESNE, UTAH 84021
 (435) 738-5352

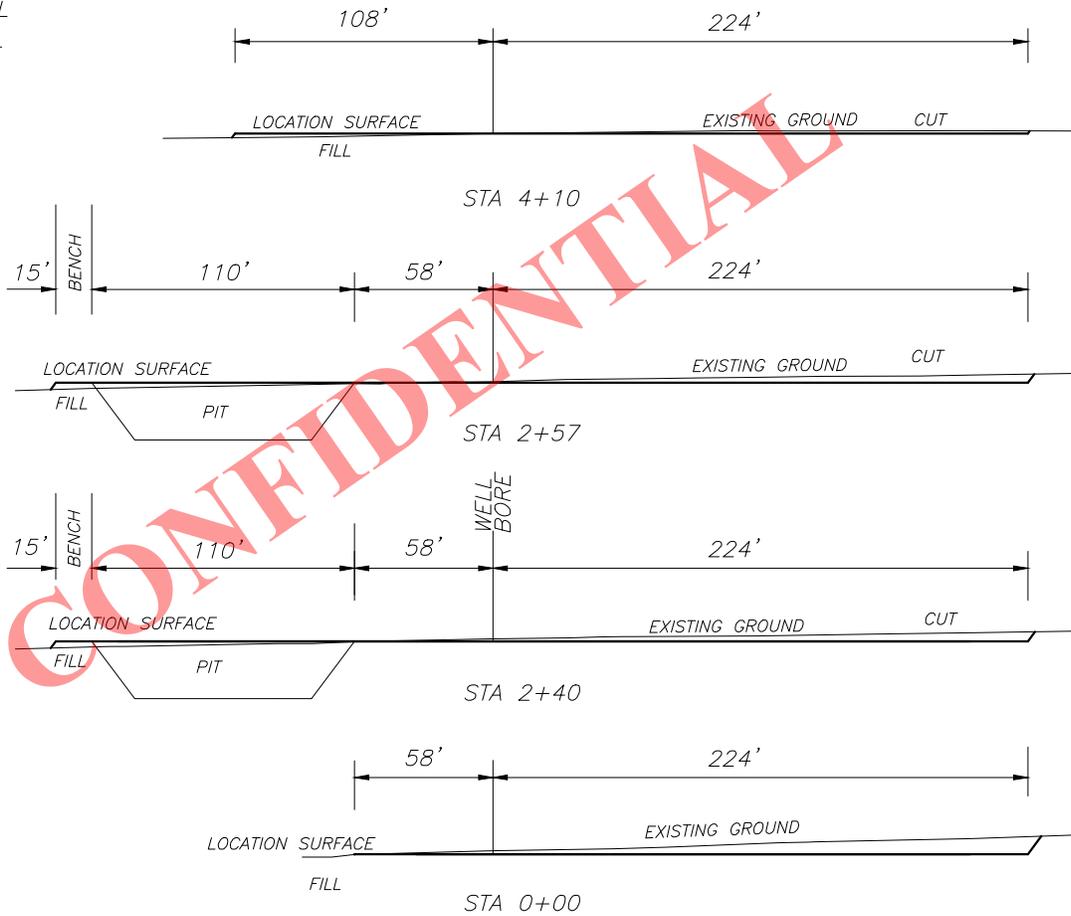
EP ENERGY E&P COMPANY, L.P.

FIGURE #2

LOCATION LAYOUT FOR
 FLANNERY 3-20C4
 SECTION 20, T3S, R4W, U.S.B.&M.
 1055' FSL, 264' FEL



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



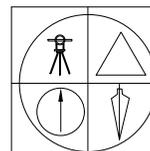
APPROXIMATE QUANTITIES

TOTAL CUT (INCLUDING PIT) = 12,087 CU. YDS.
 PIT CUT = 4955 CU. YDS.
 TOPSOIL STRIPPING: (6") = 2821 CU. YDS.
 REMAINING LOCATION CUT = 4311 CU. YDS.
 TOTAL FILL = 3091 CU. YDS.
 LOCATION SURFACE GRAVEL=1862 CU. YDS. (4" DEEP)
 ACCESS ROAD GRAVEL= 52 CU. YDS.



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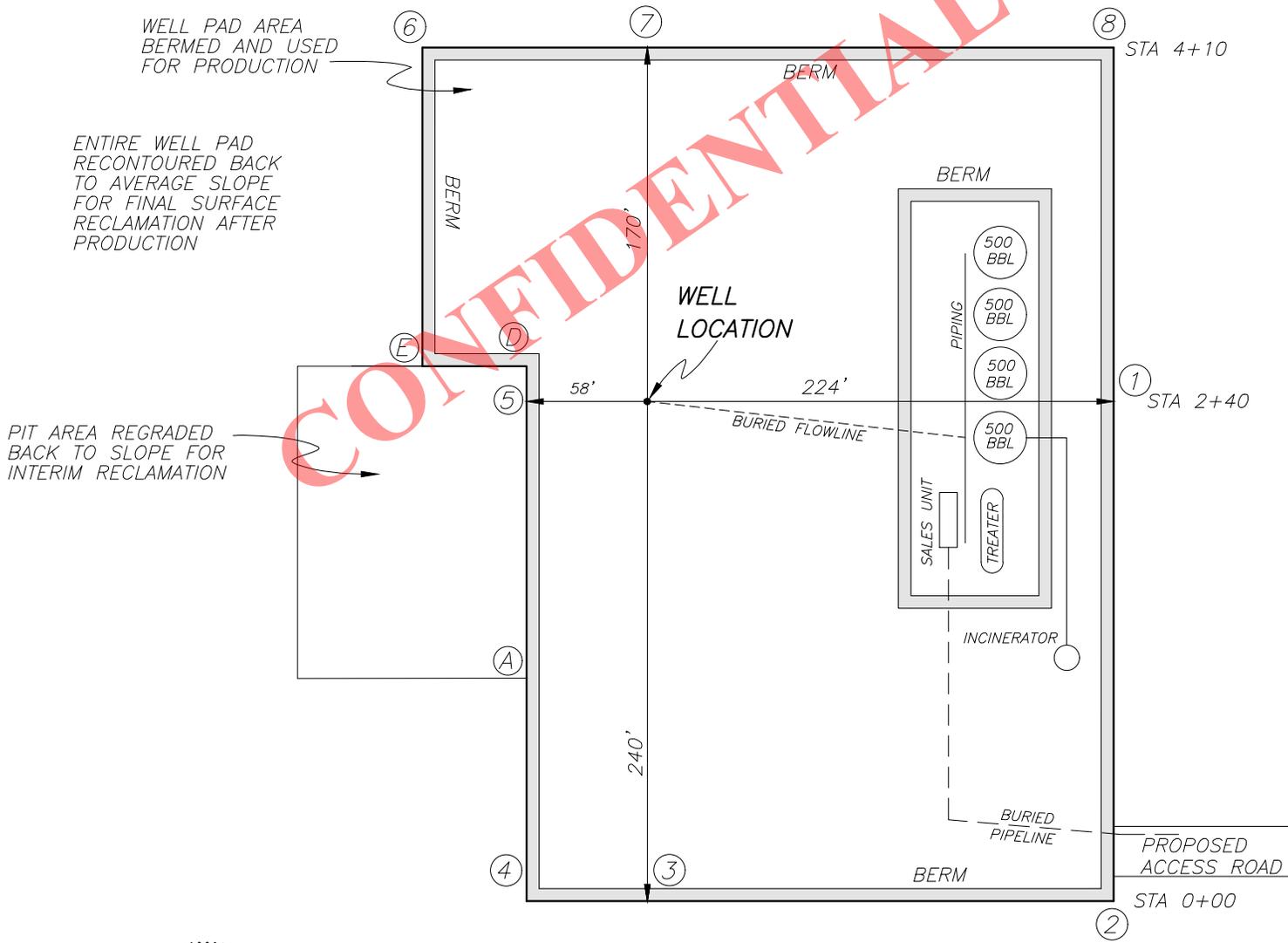
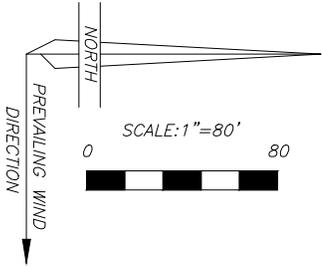


JERRY D. ALLRED & ASSOCIATES
 SURVEYING CONSULTANTS
 1235 NORTH 700 EAST--P.O. BOX 975
 DUCHESNE, UTAH 84021
 (435) 738-5352

EP ENERGY E&P COMPANY, L.P.

FIGURE #3

LOCATION LAYOUT FOR
 FLANNERY 3-20C4
 SECTION 20, T3S, R4W, U.S.B.&M.
 1055' FSL, 264' FEL



CONFIDENTIAL



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

LOCATION USE AREA AND ACCESS ROAD, POWER LINE, AND PIPELINE
CORRIDOR RIGHT-OF-WAY SURVEY FOR
EP ENERGY E&P COMPANY, L.P.
FLANNERY 3-20C4
SECTIONS 20 AND 21, T3S, R4W, U.S.B.&M.
DUCHESNE COUNTY, UTAH

USE AREA BOUNDARY DESCRIPTION

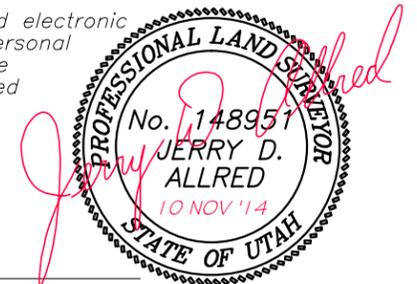
Commencing at the Southeast Corner of Section 20, Township 3 South, Range 4 West of the Uintah Special Base and Meridian;
Thence North 00°00'37" West 824.72 feet to the TRUE POINT OF BEGINNING, said point being on the East line of the SE1/4 of said Section 20;
Thence South 89°59'23" West 459.34 feet;
Thence North 00°00'37" West 474.16 feet;
Thence North 89°59'23" East 459.34 feet to said East line;
Thence South 00°00'37" East 474.16 feet to the TRUE POINT OF BEGINNING, containing 5.00 acres.

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

A 66 feet wide access road, power line, and pipeline corridor right-of-way over portions of Sections 20 and 21, Township 3 South, Range 4 West of the Uintah Special Base and Meridian, the centerline of said right-of-way being further described as follows:
Commencing at the Southeast Corner of Section 20, Township 3 South, Range 4 West of the Uintah Special Base and Meridian;
Thence North 01°28'02" West 1299.30 feet to the TRUE POINT OF BEGINNING, said point being on the North line of the EP Energy E&P Company, L.P., Flannery 3-20C4 well location use area boundary;
Thence North 00°00'47" West 1532.61 feet;
Thence North 44°51'33" East 46.20 feet to a point on the West line of the Northwest Quarter of said Section 21, which bears North 00°07'55" West 240.36 feet from the West Quarter Corner of said Section 21;
Thence North 44°51'33" East 81.59 feet;
Thence North 89°02'12" East 695.34 feet;
Thence North 82°31'12" East 548.98 feet;
Thence North 00°04'32" West 1307.87 feet to the South line of an existing road. Said right-of-way being 4212.60 feet in length with the side lines being shortened or elongated to intersect said use area boundary and existing road lines.

SURVEYOR'S CERTIFICATE

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

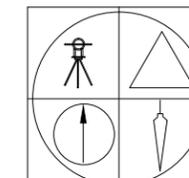


JERRY D. ALLRED, REGISTERED LAND SURVEYOR,
CERTIFICATE NO. 148951 (UTAH)

THIS SURVEY WAS PERFORMED USING GLOBAL POSITIONING SYSTEM PROCEDURES AND EQUIPMENT

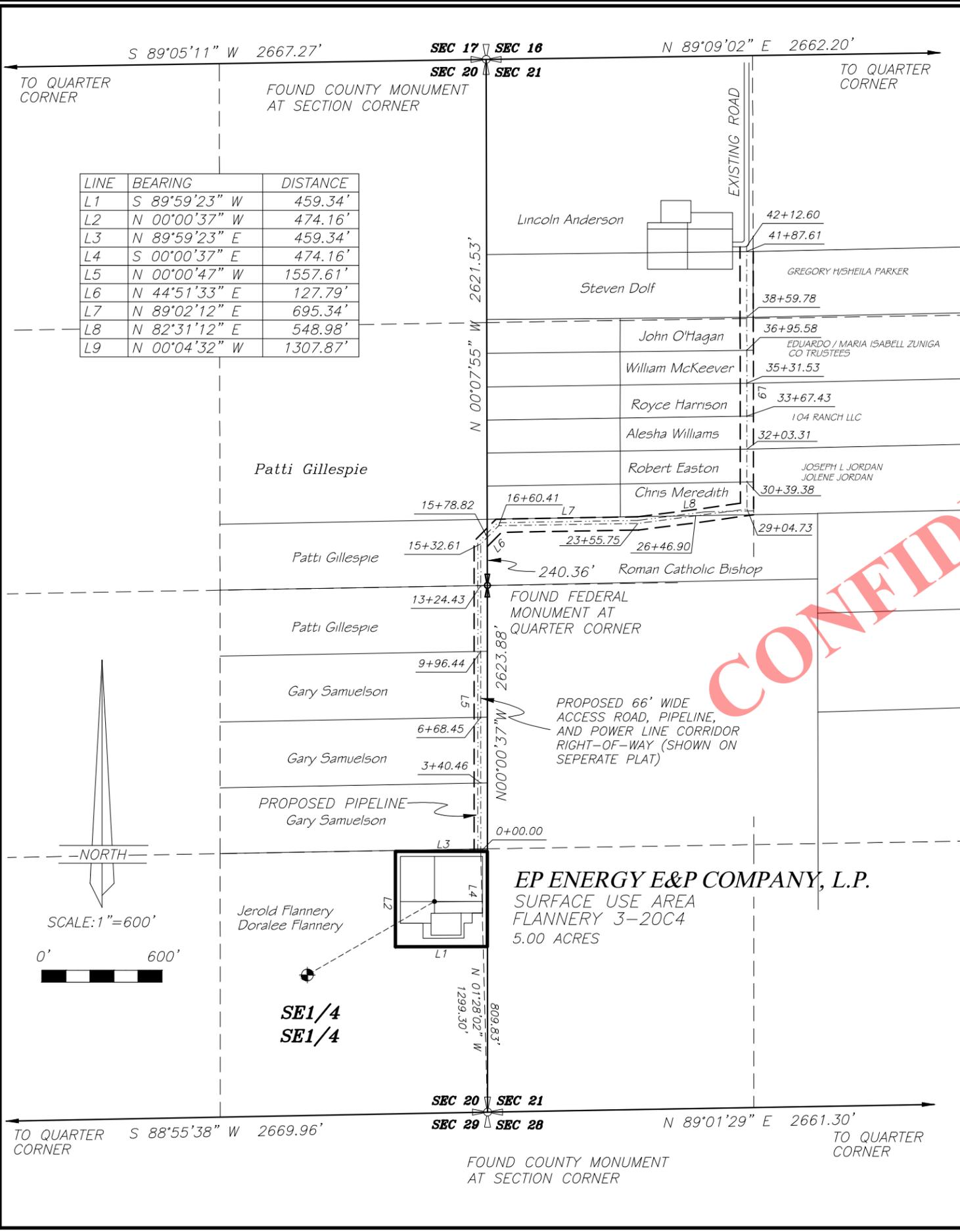
THE BASIS OF BEARINGS IS GEODETIC NORTH DERIVED FROM G.P.S. OBSERVATIONS AT THE SECTION CORNER LOCATED AT LAT. 40°15'22.90258"N AND LONG. 110°23'21.19760"W USING THE UTAH STATE G.P.S. VIRTUAL REFERENCE STATION CONTROL NETWORK MAINTAINED AND OPERATED BY THE AUTOMATED GEOGRAPHIC REFERENCE CENTER

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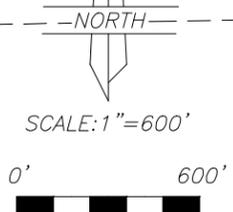


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1235 NORTH 700 EAST--P.O. BOX 975
DUCHESNE, UTAH 84021
(435) 738-5352

LINE	BEARING	DISTANCE
L1	S 89°59'23" W	459.34'
L2	N 00°00'37" W	474.16'
L3	N 89°59'23" E	459.34'
L4	S 00°00'37" E	474.16'
L5	N 00°00'47" W	1557.61'
L6	N 44°51'33" E	127.79'
L7	N 89°02'12" E	695.34'
L8	N 82°31'12" E	548.98'
L9	N 00°04'32" W	1307.87'

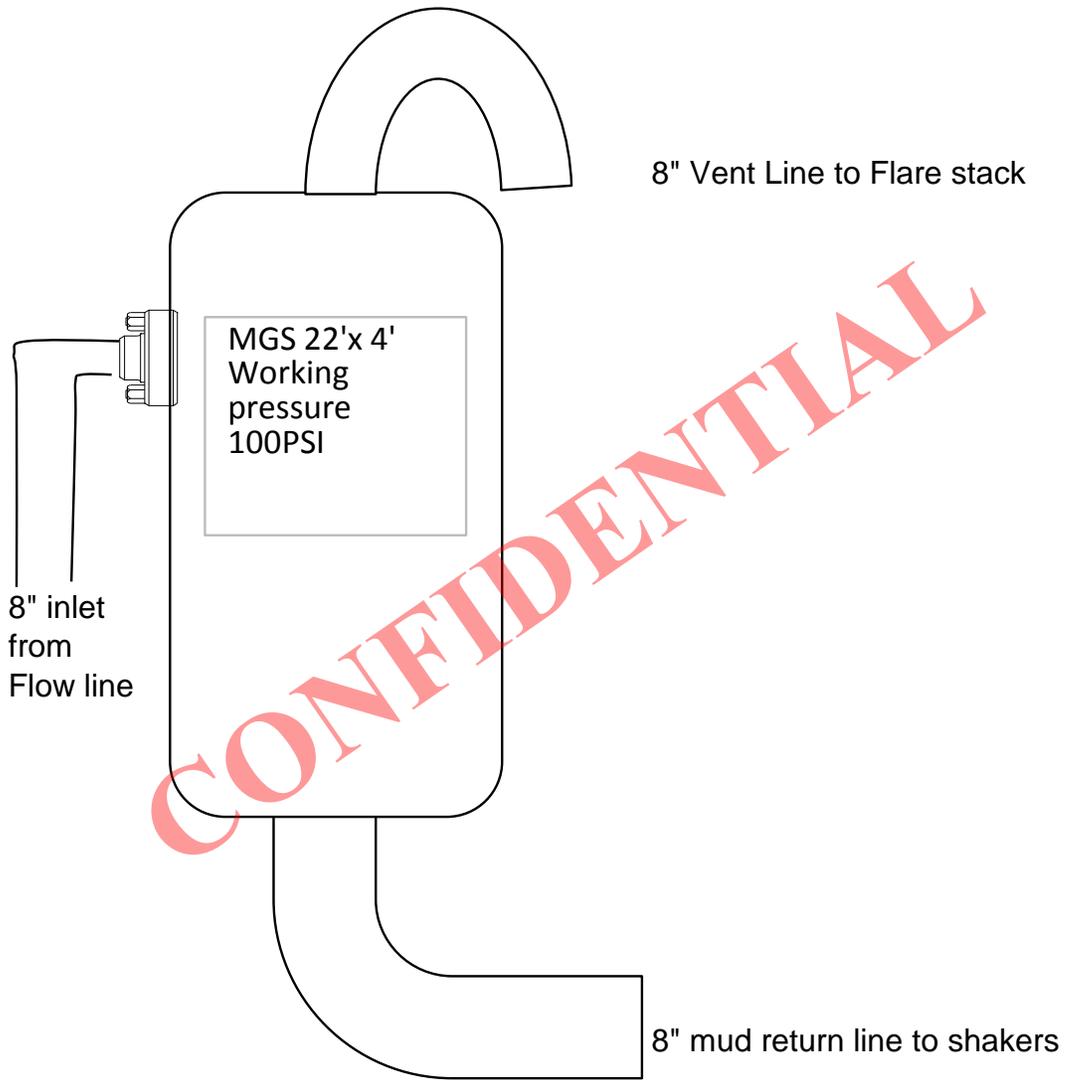


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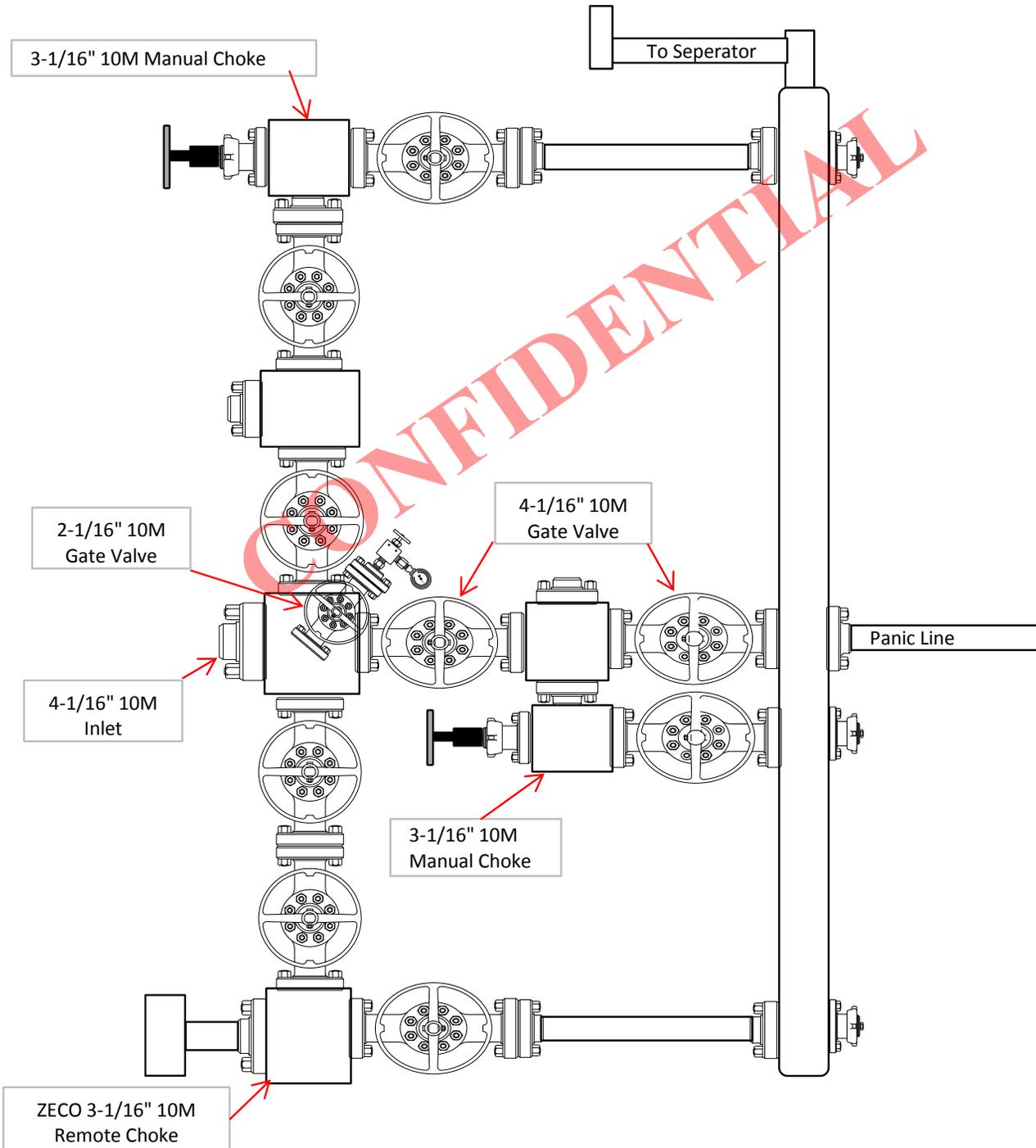
Mud Gas Separator





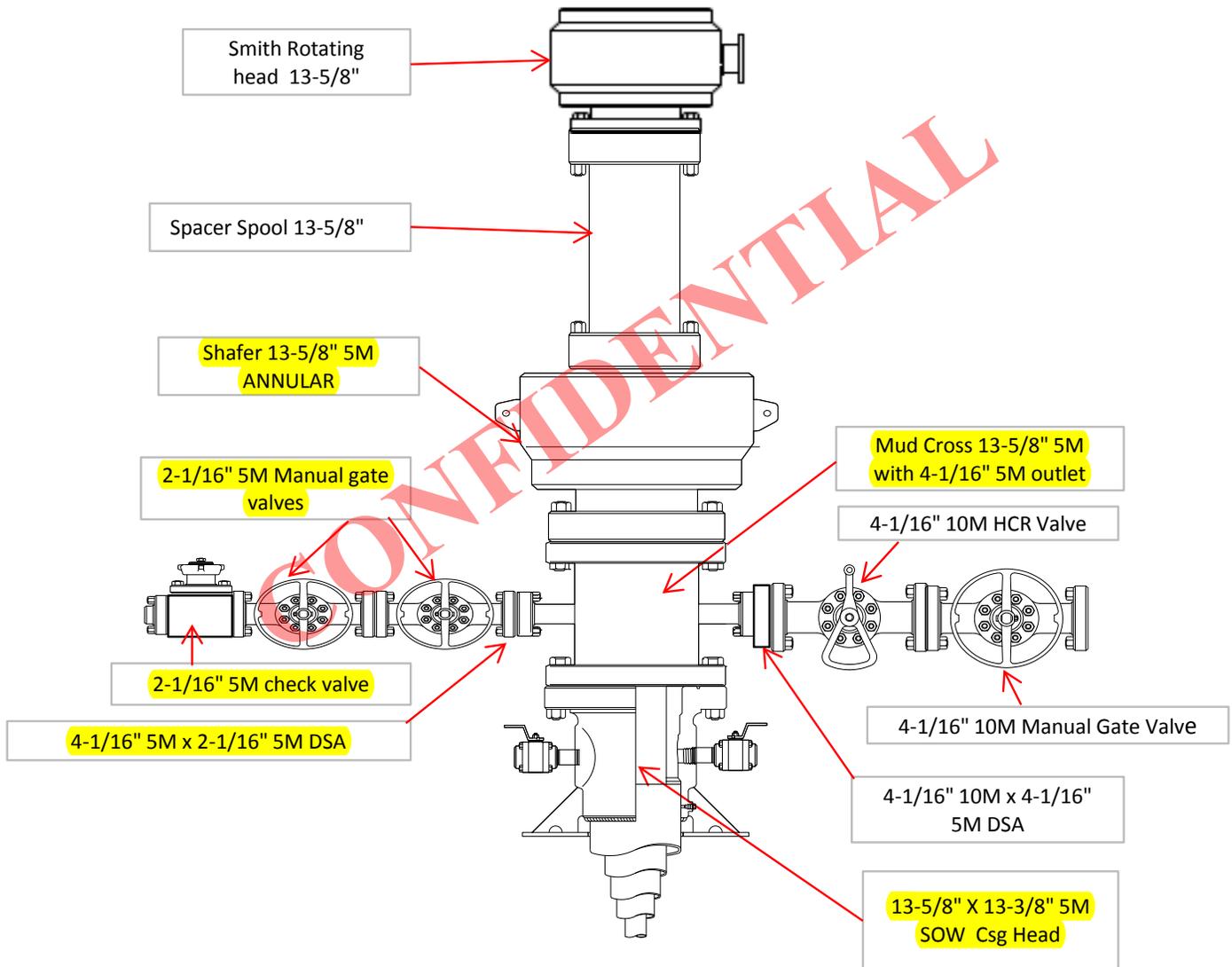
10M Choke Manifold Configuration

All valves on the Choke Manifold are 3-1/16" 10M except for those that are identified below.



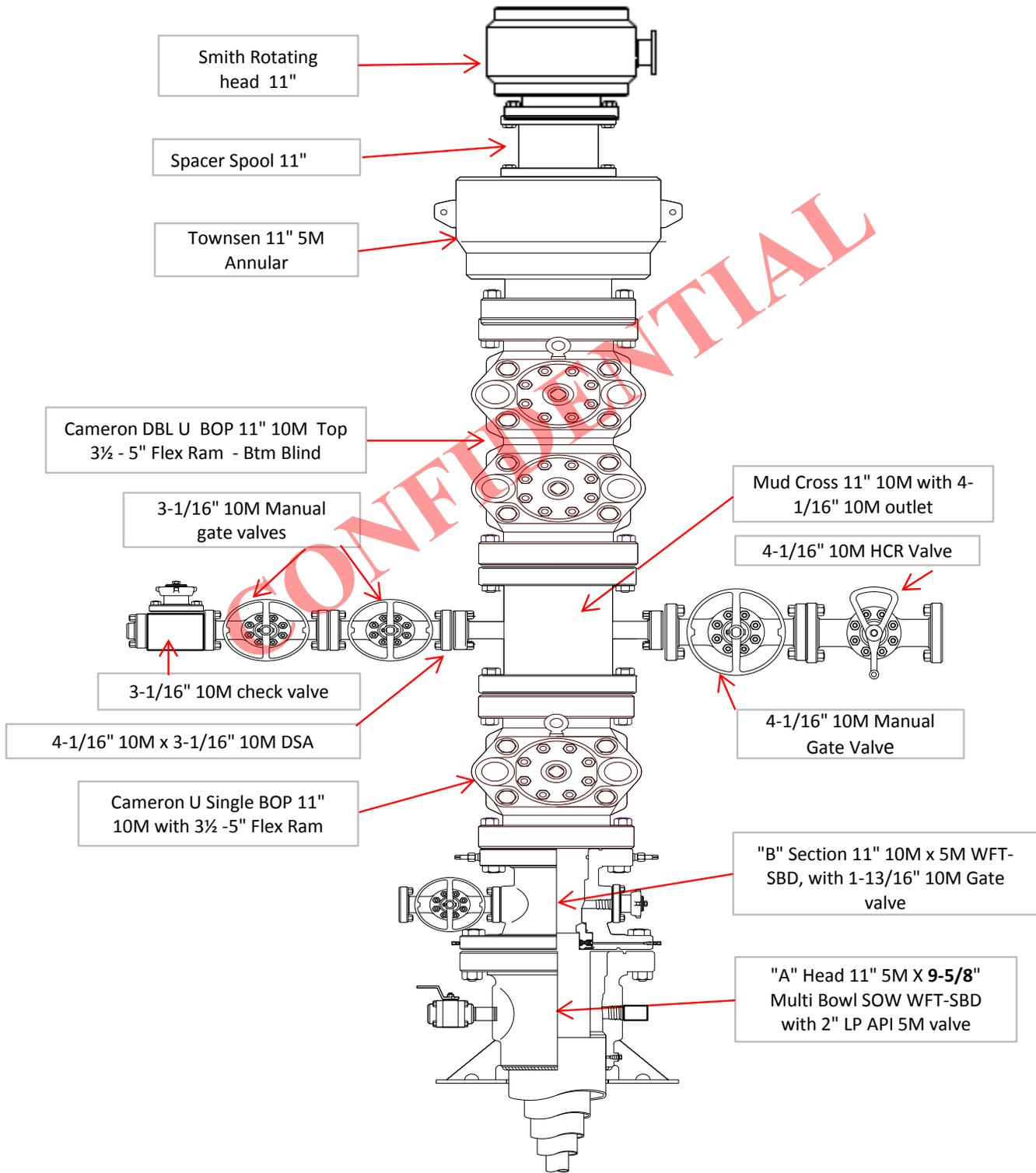


Surface 13-5/8" 3M Diverter Configuration



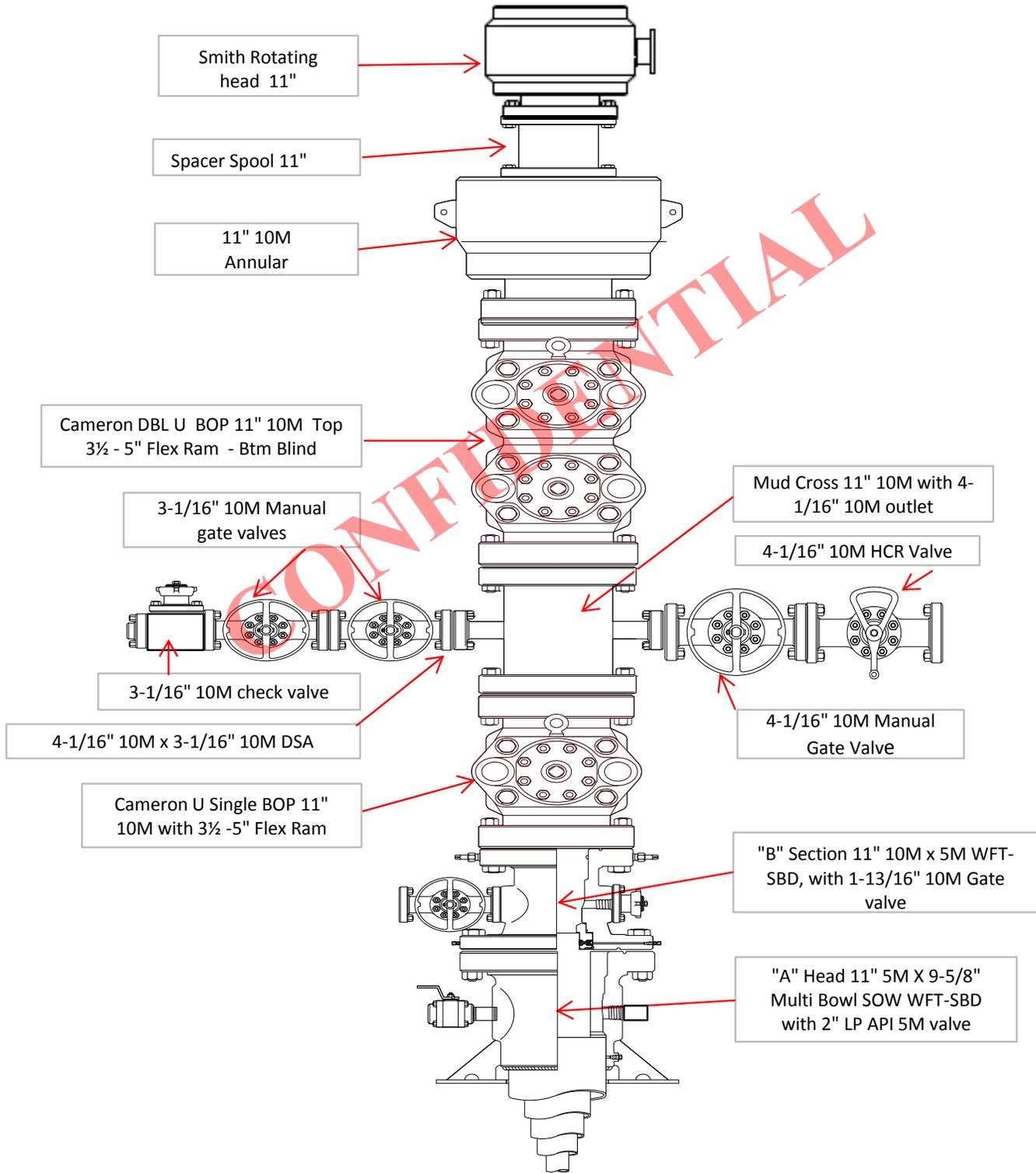


Intermediate 11" 5M BOP Configuration





Production 11" 10M BOP Configuration

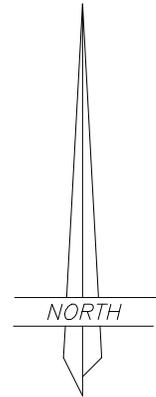
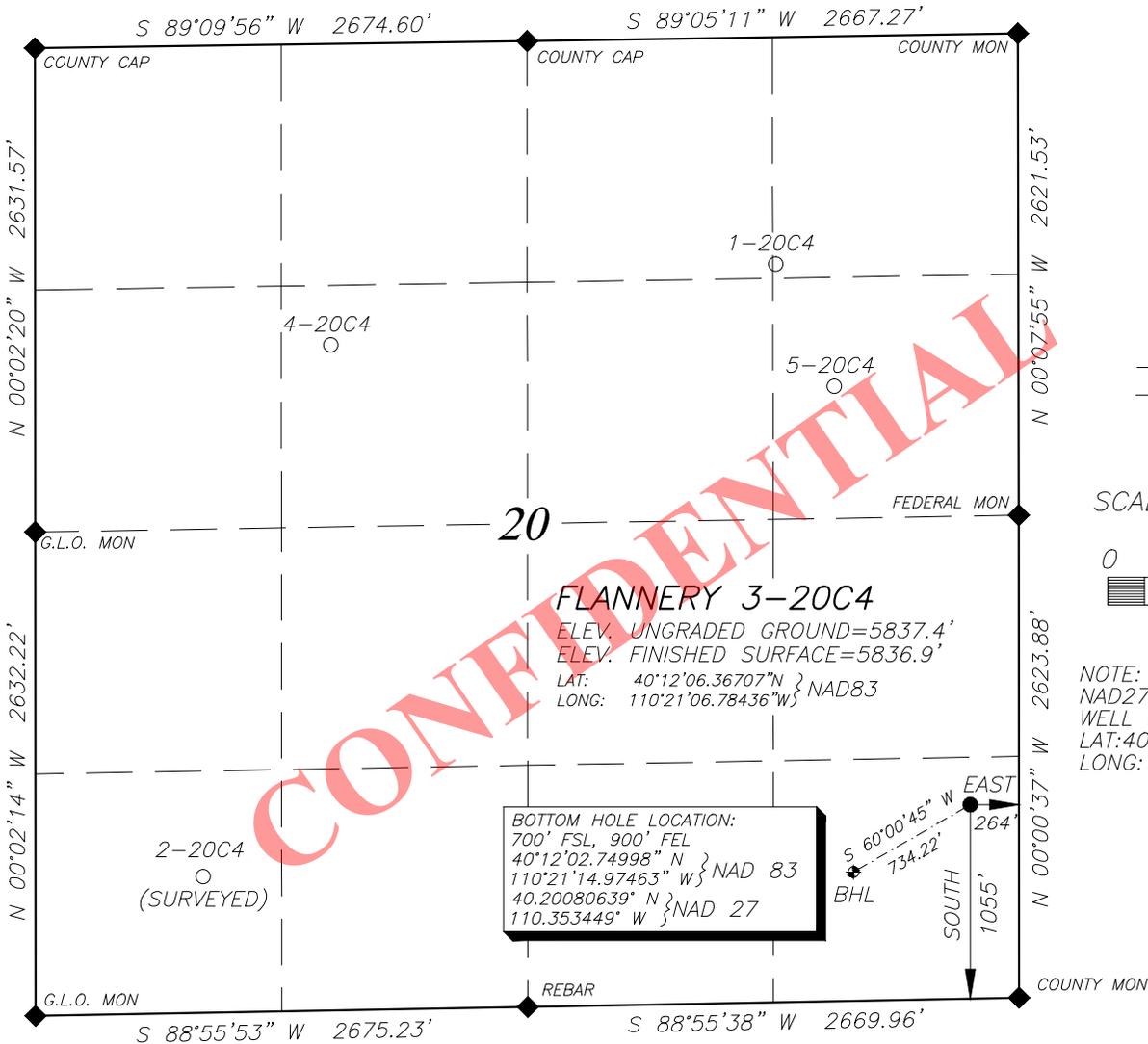


EP ENERGY E&P COMPANY, L.P.

WELL LOCATION

FLANNERY 3-20C4

LOCATED IN THE SE¼ OF THE SE¼ OF SECTION 20, T3S, R4W, U.S.B.&M. DUCHESNE COUNTY, UTAH



SCALE: 1"=1000'



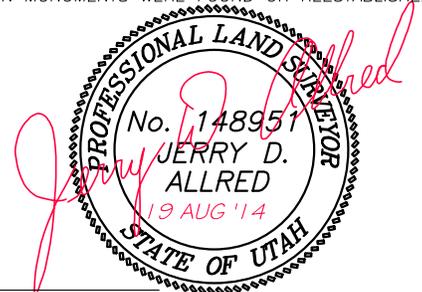
NOTE:
 NAD27 VALUES FOR
 WELL POSITION:
 LAT:40.20181114° N
 LONG:110.35117391° W

SURVEYOR'S CERTIFICATE

LEGEND AND NOTES

- ◆ CORNER MONUMENTS FOUND AND USED BY THIS SURVEY
- THE GENERAL LAND OFFICE (G.L.O.) PLAT WAS USED FOR REFERENCE AND CALCULATIONS AS WAS THE U.S.G.S. MAP
- THIS SURVEY WAS PERFORMED USING GLOBAL POSITIONING SYSTEM PROCEDURES AND EQUIPMENT
- THE BASIS OF BEARINGS IS GEODETIC NORTH DERIVED FROM G.P.S. OBSERVATIONS AT THE SECTION CORNER LOCATED AT LAT. 40°15'22.90258"N AND LONG. 110°23'21.19760"W USING THE UTAH STATE G.P.S. VIRTUAL REFERENCE STATION CONTROL NETWORK MAINTAINED AND OPERATED BY THE AUTOMATED GEOGRAPHIC REFERENCE CENTER

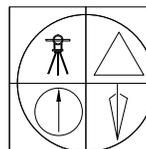
I HEREBY CERTIFY THAT THIS PLAT WAS PREPARED FROM THE FIELD NOTES AND ELECTRONIC DATA COLLECTOR FILES OF AN ACTUAL SURVEY PERFORMED BY ME, OR UNDER MY PERSONAL SUPERVISION, DURING WHICH THE SHOWN MONUMENTS WERE FOUND OR REESTABLISHED.



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

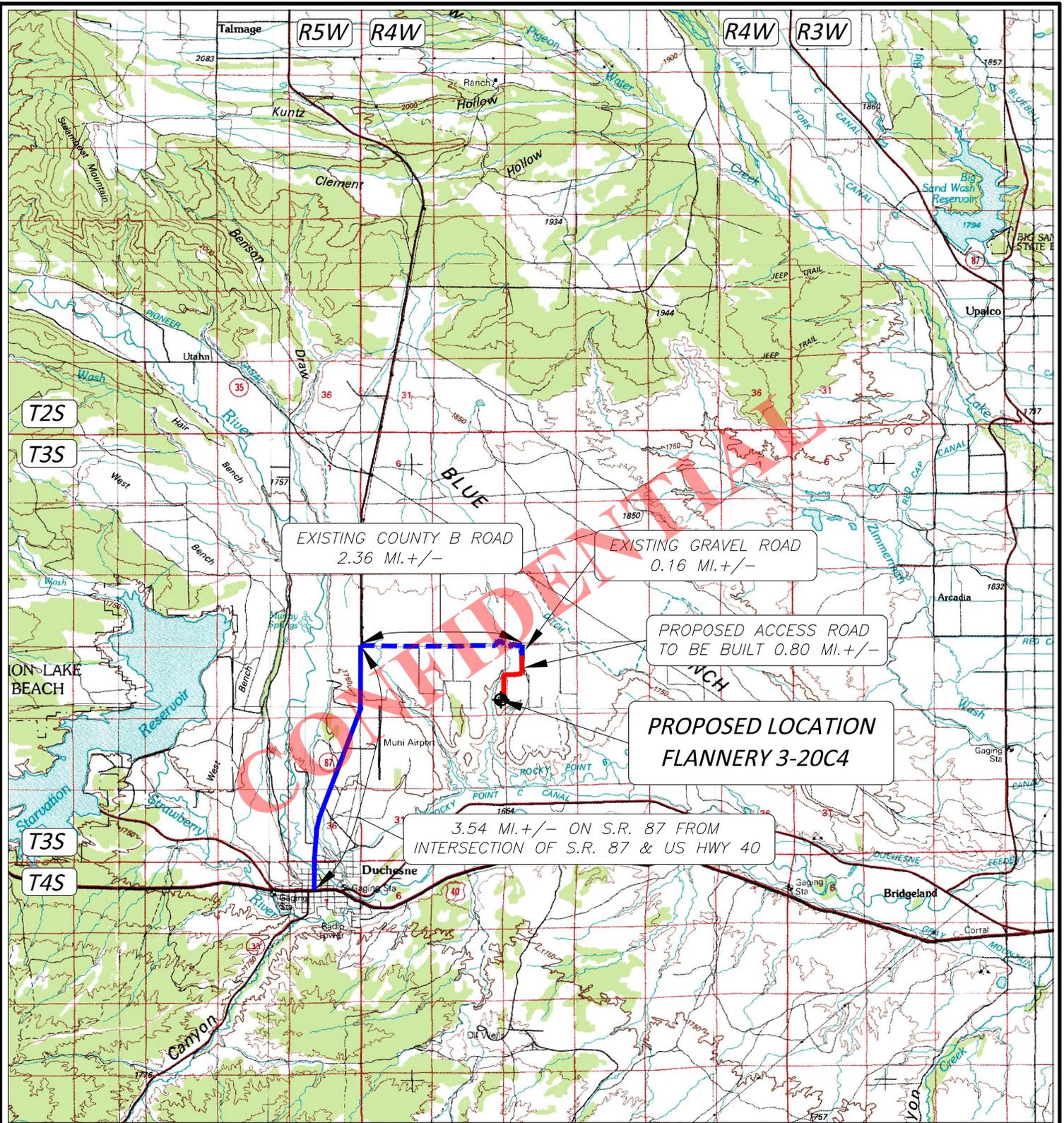
BASIS OF ELEVATIONS: NAVD 88 DATUM USING
 THE UTAH REFERENCE NETWORK CONTROL SYSTEM

REV 19 AUG 2014
 13 JUN 2013 01-128-395



JERRY D. ALLRED & ASSOCIATES
 SURVEYING CONSULTANTS

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



EXISTING COUNTY B ROAD
2.36 MI. +/-

EXISTING GRAVEL ROAD
0.16 MI. +/-

PROPOSED ACCESS ROAD
TO BE BUILT 0.80 MI. +/-

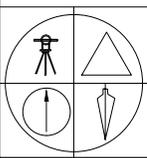
PROPOSED LOCATION
FLANNERY 3-20C4

3.54 MI. +/- ON S.R. 87 FROM
INTERSECTION OF S.R. 87 & US HWY 40

LEGEND:

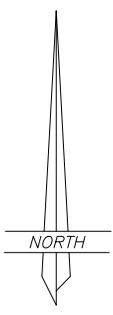
PROPOSED WELL LOCATION

01-128-395



JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS

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



EP ENERGY E&P COMPANY, L.P.

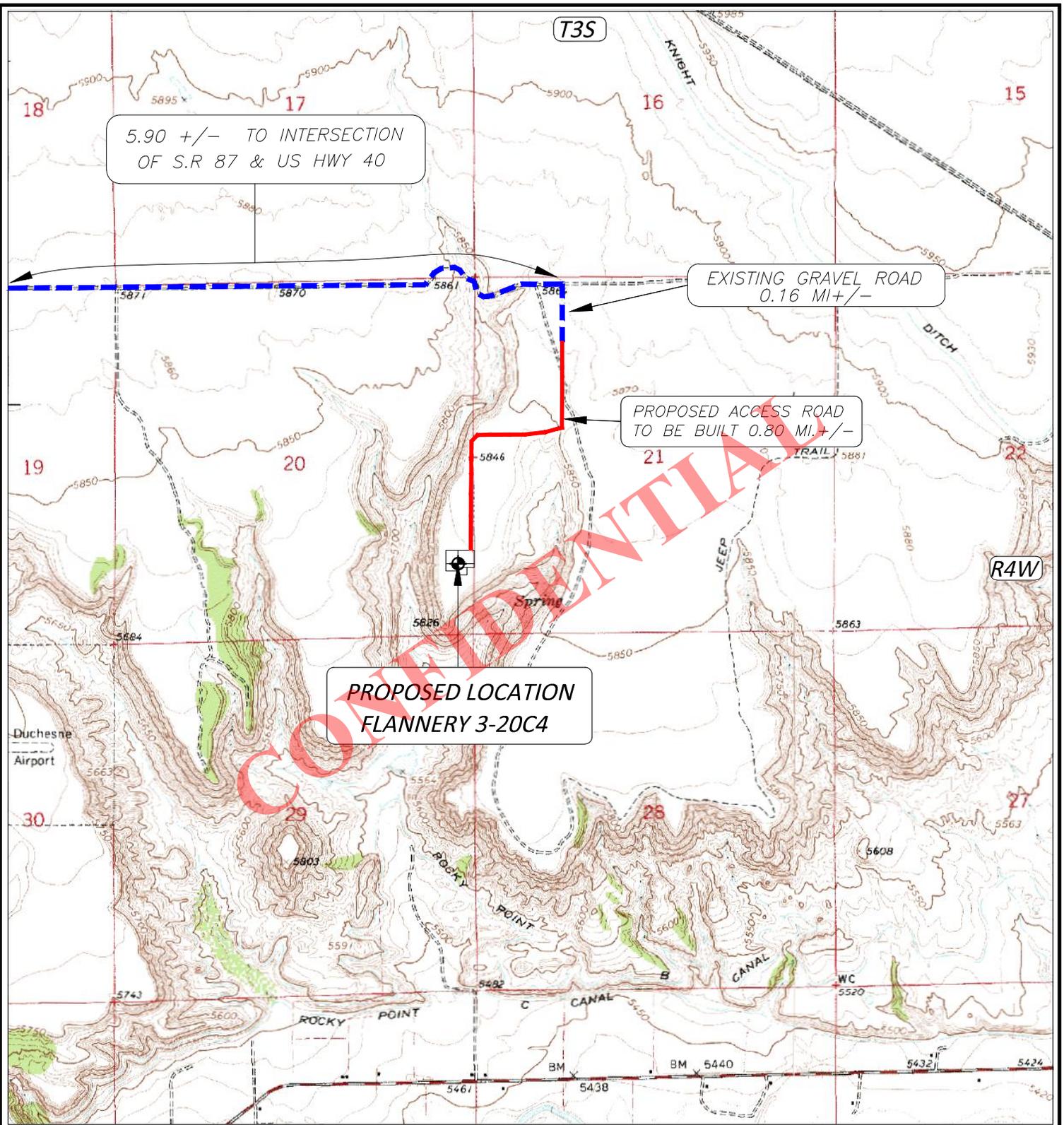
FLANNERY 3-20C4

SECTION 20, T3S, R4W, U.S.B.&M.

1055' FSL 264' FEL

TOPOGRAPHIC MAP "A"

SCALE: 1"=10,000'
REV 19 AUG 2014



**PROPOSED LOCATION
FLANNERY 3-20C4**

EXISTING GRAVEL ROAD
0.16 MI +/-

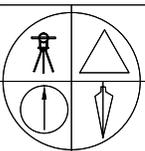
PROPOSED ACCESS ROAD
TO BE BUILT 0.80 MI +/-

5.90 +/- TO INTERSECTION
OF S.R 87 & US HWY 40

LEGEND:

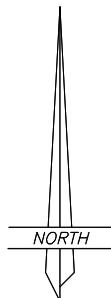
-  **PROPOSED WELL LOCATION**
-  **PROPOSED ACCESS ROAD**
-  **EXISTING GRAVEL ROAD**
-  **EXISTING DIRT ROAD**

01-128-395



JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS

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



EP ENERGY E&P COMPANY, L.P.

FLANNERY 3-20C4
SECTION 20, T3S, R4W, U.S.B.&M.
1055' FSL 264' FEL

TOPOGRAPHIC MAP "B"

SCALE; 1"=2000'
REV 19 AUG 2014

AFFIDAVIT OF RIGHT-OF-WAY AGREEMENTS

Michael J. Walcher personally appeared before me, and, being duly sworn, deposes and says:

1. My name is Michael J. Walcher. I am a Land Advisor for EP Energy E&P Company, L.P., whose address is 1001 Louisiana St., Houston, Texas 77002 (“EP Energy”).
2. EP Energy is the operator of the proposed Flannery 3-20C4 well (the “Well”) to be located in the SE/4SE/4 of Section 20, Township 3 South, Range 4 West, USM, Duchesne County, Utah (the “Drillsite Location”).
3. EP Energy and has obtained agreements with the following parties, which cover all necessary portions of our right-of-ways for the Well:
 - **Samuelson Family Trust U/A DTD 6/14/2004, represented by Gary L. Samuelson, Co-Trustee and Edna L. Samuelson, Co-Trustee**, (shown as “Gary Samuelson” on ROW Plat), 29 Warren Ave, Amesbury, Massachusetts 01913-1916
 - **Patty Gillespie A/K/A Pattie Kathleen Gillespie** (shown as “Pattie Gillespie” on the ROW plat), 1006 Ridgewood CV S, Niceville, Florida 32578-4236
 - **EP Energy E&P Company, L.P.** (formerly “Roman Catholic Bishop” on ROW plat), 1001 Louisiana St, Houston, TX 77002
 - **Chris M. & Megan R. Meredith, JTWROS** (shown as “Chris Meredith” on the ROW plat), 8064 Girvan CT, Sacramento, California 95829-1553
 - **The Robert D. Easton Revocable Family Trust, represented by Robert D. Easton, Trustee** (shown as “Robert Easton” on the ROW plat), 3263 Nareb Street, Sacramento, CA 95838-4733
 - **Alesha Williams** (shown as “Alesha Williams” on the ROW plat), PO Box 70, Myton, Utah 84052
 - **Ryan Keith Harrison** (shown as “Royce Harrison” on the ROW plat), 5261 Mission Carmel Ln, Unit 101, Las Vegas, Nevada 89107
 - **William J. and Tammy S. McKeever** (shown as “William McKeever” on the ROW plat), 11696 Littler Road, Sandy, Utah 84092-5765
 - **Tiffany Gunter** (shown as “John O’Hagan” on the ROW plat), PO Box 900, Duchesne, Utah 84021
 - **Steven Milton Dolf** (shown as “Steven Dolf” on ROW plat), 19789 Evelyn St, Corona, California 92881-4207
 - **Lincoln Anderson** (portion of tract shown as “Lincoln Anderson” on the ROW plat) 562 E 9000 S. Sandy, UT 84070
 - **Paul Elwin Jones** (portion of tract shown as “Lincoln Anderson” on the ROW plat), 92 Frontier Drive, Washington, Utah 84770

- EP Energy E&P Company, L.P., a Delaware Limited Partnership
(portion of tract shown as "Lincoln Anderson" on the ROW plat), 1001
Louisiana St, Houston, TX 77002

FURTHER AFFIANT SAYETH NOT.



 Michael J. Walcher

ACKNOWLEDGMENT

STATE OF TEXAS §
 §
 COUNTY OF HARRIS §

Sworn to and subscribed before me on this 20th day of February, 2015, by Michael J. Walcher, as Land Advisor for EP Energy E&P Company, L.P., a Delaware limited partnership.



 NOTARY PUBLIC

My Commission Expires:
8/2/2018



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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 .87 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 .87 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:

Jerold F. Flannery and Dora Lee Flannery
1140 E FT Pierce Dr. #45
Saint George, Utah 84790

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:

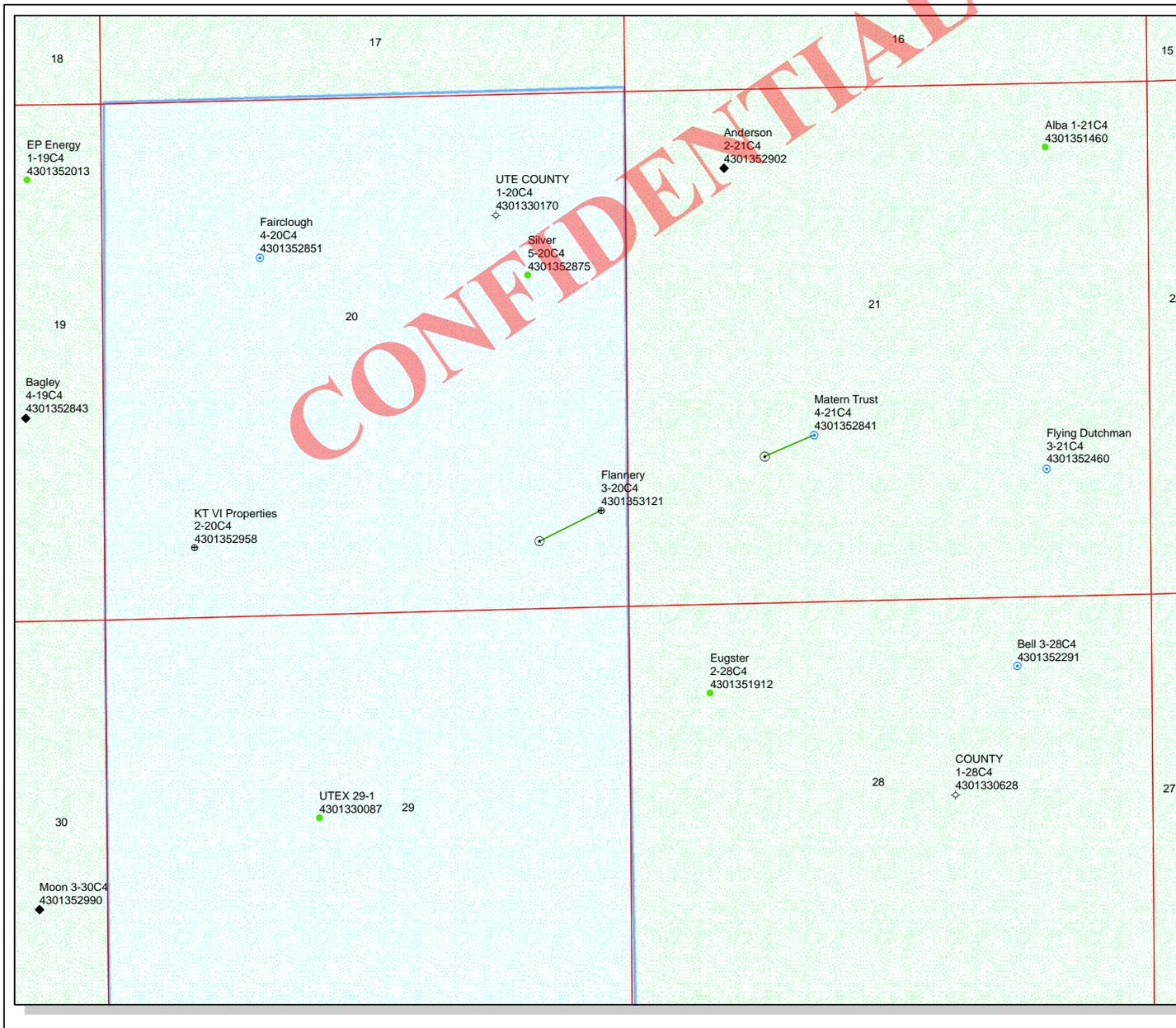
EP Energy E&P Company, L.P.
Wayne Garner
PO Box 410
Altamont, Utah 84001
435-454-3394 – Office
435-823-1490 – Cell

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: 4301353121

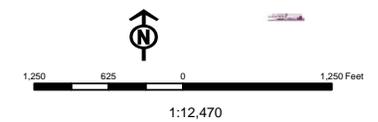
Well Name: Flannery 3-20C4

Township: T03.0S Range: R04.0W Section: 20 Meridian: U

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

Map Prepared: 8/22/2014
Map Produced by Diana Mason

Wells Query		Units	
Status	Symbol	Status	Symbol
APD - Approved Permit	◆	ACTIVE	▨
DRL - Spudded (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	○	Fields	
WDW - Water Disposal	⊖	STATUS	
WW - Water Injection Well	⊕	Unknown	▨
WSW - Water Supply Well	●	ABANDONED	▨
		ACTIVE	▨
		COMBINED	▨
		INACTIVE	▨
		STORAGE	▨
		TERMINATED	▨



November 1, 2014

Mr. Brad Hill
State of Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
P. O. Box 145801
Salt Lake City, Utah 84114-5801

**Re: Directional Well
Flannery 3-20C4
Surface: 264' FEL & 1055' FSL (SESE)
Bottom Hole: 700' FSL & 900' FEL (SESE)
Section 20-T3S-R4W, USM, Duchesne County, Utah**

Dear Mr. Hill:

Concurrently with the filing of EP Energy E&P Company, L.P.'s ("EPE") Application for Permit to Drill the above referenced well, EPE hereby submits this letter in accordance with Oil & Gas Conservation Rule R649-2, R649-3, R649-10 and R649-11, which pertains to the Location and Siting of Wells.

- The well is being drilled in Section 20-T3S-R4W, Duchesne County, Utah, which is subject to that Order, Docket No. 2012-013, Cause No. 139-90, dated May 9, 2012 ("Spacing Order") that establishes 640 acre sectional drilling units for the Green River-Wasatch formations. The Spacing Order further provides drilling up to four (4) producing Lower Green River-Wasatch wells, whether all vertical, all horizontal, or a combination of both in each drilling unit. The locating and siting requirements set forth in Order 139-84 and incorporated into the Spacing Order provide that permitted wells shall be no closer than 1,320 feet from an existing unit well drilled to, completed in, and producing from the Spaced Intervals and no closer than 660 feet from the drilling unit boundary.
- EPE is permitting this well as a directional well due to the topography in the area. Therefore, due to safety concerns, the surface location moved closer to the East Section Line of Section 20.
- EPE certified that unless first obtaining an exception to the locating and siting requirements of the Spacing Order it will not perforate any part of the wellbore of

Corie A. Mathews, RPL
EP Energy
1001 Louisiana Street Houston, Texas 77002
PO Box 4660 Houston, Texas 77210-4660
tel 713.997.7106
corie.mathews@epenergy.com

the referenced well that is closer than 660' from the East Section Line and South Section Line of Section 32-T3S-R4W, Duchesne County, Utah.

Respectfully,



Corie A. Mathews
Senior Landman

CONFIDENTIAL

September 18, 2014

Mr. Brad Hill
State of Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
P. O. Box 145801
Salt Lake City, Utah 84114-5801

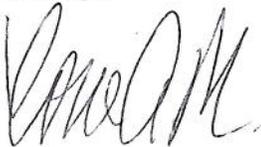
**Re: Directional Well
Flannery 3-20C4
Surface: 264' FEL & 1,055' FSL (SESE)
Bottom Hole: 900' FEL & 700' FSL (SESE)
Section 20-T3S-R4W, USM, Duchesne County, Utah**

Dear Mr. Hill:

As a supplement to EP Energy E&P Company, L.P.'s ("EPE") Application for Permit to Drill the above referenced well, we hereby submit this letter in accordance with Oil & Gas Conservation Rule R649-3-11, which pertains to the Location and Siting of Directional Wells.

- EPE certifies that EPE has the rights to the existing oil and gas leases under all tracts that are on or within 460' of the proposed wellbore path to drill and produce through the Joint Operating Agreement signed by the parties associated with the leases. All owners have received elections to participate in this well and sign the Joint Operating Agreement. All such tracts are entirely within the 640 acre drilling unit for the well.

Respectfully,



Corie A. Mathews
Senior Landman

5D Plan Report

5D Plan Report

EP ENERGY

Field Name: UTAH_ CENTRAL ZONE_NAD83
Site Name: FLANNERY 3-20C4
Well Name: FLANNERY 3-20C4
Plan: Working Plan

04 December 2014

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Plan Data for FLANNERY 3-20C4

Field: UTAH_CENTRAL_ZONE_NAD83
 Map Unit: USft Vertical Reference Datum (VRD):
 Projected Coordinate System: NAD83 / Utah Central (ftUS)

Site: FLANNERY 3-20C4
 Unit: USFeet TVD Reference:
 Company Name: EP ENERGY
 Position: Northing: 7244219.76USft Latitude: 40°12'5.8"
 Easting: 1961084.93USft Longitude: -110°21'6.9"
 North Reference: True Grid Convergence: 0.74°
 Elevation Above VRD: 5836.00USft

Slot: FLANNERY 3-20C4
 Position:
 Offset is from Site centre
 +N/-S: 58.29USft Northing: 7244278.15USft Latitude: 40°12'6.4"
 +E/-W: 8.41USft Easting: 1961092.60USft Longitude: -110°21'6.8"
 Elevation Above VRD: 5836.90USft

Well: FLANNERY 3-20C4
 Type: Main-Well
 File Number:
 Vertical Section: Position offset of origin from Slot centre:
 +N/-S: 0.00USft Azimuth: 252.00°
 +E/-W: -0.00USft
 Magnetic Parameters:
 Model: Field Strength: Declination: Dip: Date:
 BGGM 51890 (nT) 11.14° 65.77° 2014-12-03

Plan Data for FLANNERY 3-20C4

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

MD	Inc	Az	TVD	+N/-S	+E/-W	VSec	DLS	Toolface	Build	Turn
(USft)	(°)	(°)	(USft)	(USft)	(USft)	(USft)	(DLSU)	(°)	(DLSU)	(DLSU)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00
2050.00	0.00	0.00	2050.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00
3250.00	12.00	252.00	3241.25	-38.69	-119.08	125.21	1.00	252.0	1.00	0.00
4496.47	12.00	252.00	4460.48	-118.77	-365.55	384.36	0.00	0.0	0.00	0.00
5384.50	3.01	252.00	5340.00	-154.58	-475.75	500.23	1.01	180.0	-1.01	0.00
8448.73	3.01	252.00	8400.00	-204.30	-628.78	661.13	0.00	0.0	0.00	0.00
8648.82	0.00	0.00	8600.00	-205.93	-633.77	666.39	1.50	180.0	-1.50	0.00
11448.82	0.00	0.00	11400.00	-205.93	-633.77	666.39	0.00	0.0	0.00	0.00

Plan Data for FLANNERY 3-20C4

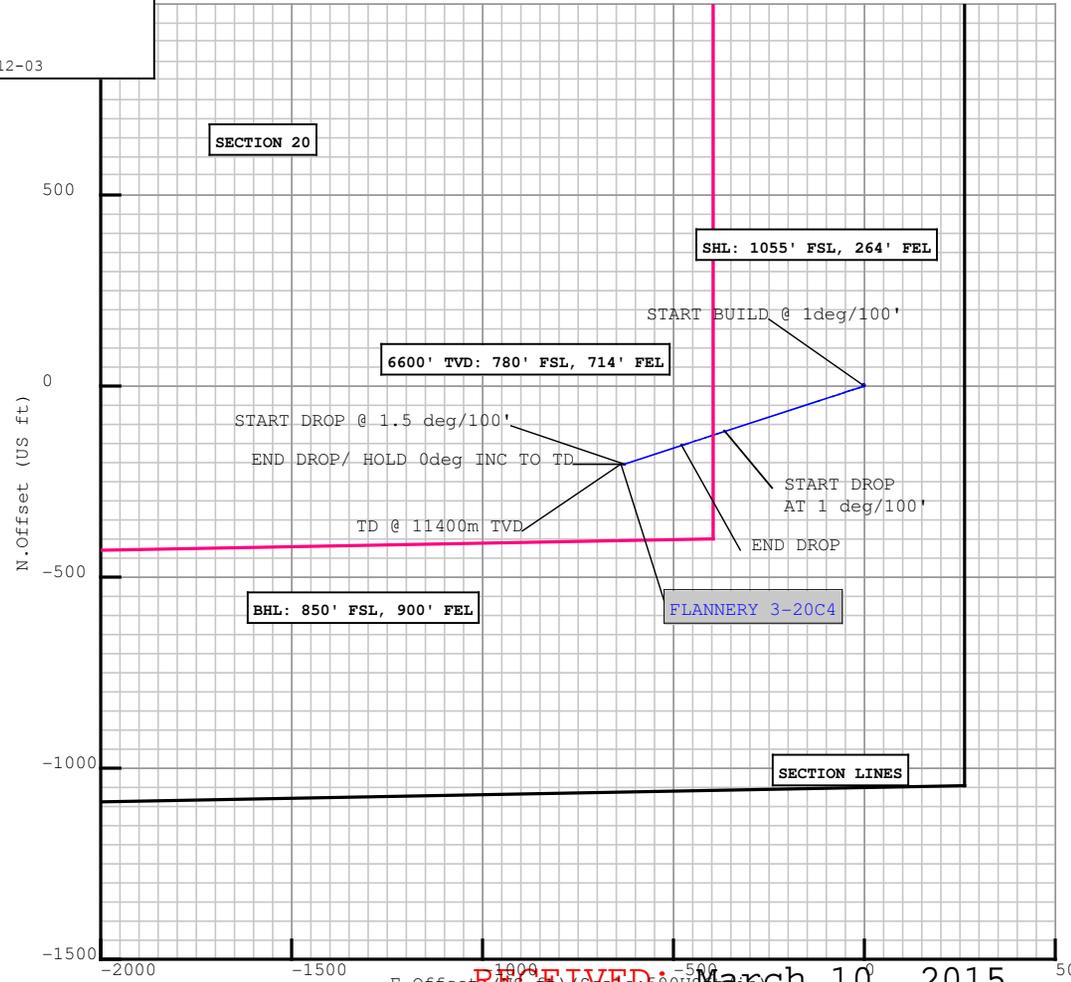
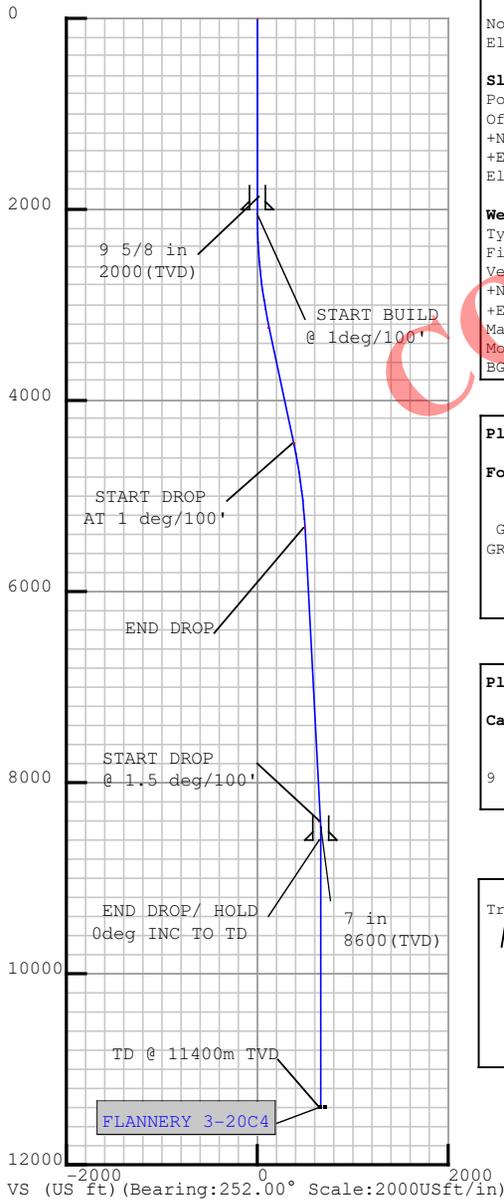
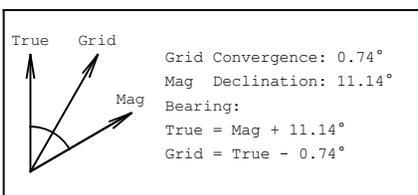
Formation Point Information:

Name	TVD	Elevation	MD
(USft)	(USft)	(USft)	(USft)
GREEN RIVER (GRRV)	3750.00	2103.90	3770.12
GREEN RIVER (GRTN1)	4433.00	1420.90	4468.38
MAHOGANY BENCH	5343.00	510.90	5387.51
LOWER GREEN RIVER	6663.00	-809.10	6709.33
WASATCH	8533.00	-2679.10	8581.82

Plan Data for FLANNERY 3-20C4

Casing Point Information:

Name	MD	TVD
(USft)	(USft)	(USft)
9 5/8 in	2000.00	2000.00
7 in	8648.82	8600.00



5D Plan Report

Target Set

Name : FLANNERY 3-20C4

Number of Targets : 1

Comment :

TargetName: PBHL(850'FSL)	Position (Relative to Slot centre)		
	+N / -S : -205.00US ft	Northing : 7244065.00 US ft	Latitude : 40°12'4.34"
Shape: Cuboid	+E / -W : -636.00 US ft	Easting : 1960459.28US ft	Longitude : -110°21'14.98"
	TVD (Drill Floor) : 11400.00 US ft		
Orientation	Azimuth : 0.00°	Inclination : 0.00°	
Dimensions	Length : 20.00 US ft	Breadth : 20.00 US ft	Height : 20.00 US ft

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

Name	MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Latitude (° ' ")	Longitude (° ' ")
9 5/8 in	2000.00	0.00	0.00	2000.00	0.00	0.00	40°12'6.37"	-110°21'6.79"
7 in	8648.82	0.00	0.00	8600.00	-205.93	-633.77	40°12'4.33"	-110°21'14.95"

Well path created using minimum curvature

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

Comment	MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Latitude (° ' ")	Longitude (° ' ")	DLS (°/100 US ft)	T.Face (°)	VS (US ft)
	0.00	0.00	0.00	0.00	0.00	0.00	40°12'6.37"	-110°21'6.79"	0.00	0.00	-0.00
START BUILD @ 1deg/100'	2050.00	0.00	0.00	2050.00	0.00	0.00	40°12'6.37"	-110°21'6.79"	0.00	0.00	-0.00
	3250.00	12.00	252.00	3241.25	-38.69	-119.08	40°12'5.99"	-110°21'8.32"	1.00	252.00	125.20
START DROP AT 1 deg/100'	4496.47	12.00	252.00	4460.48	-118.77	-365.55	40°12'5.19"	-110°21'11.50"	0.00	0.00	384.36
END DROP	5384.50	3.01	252.00	5340.00	-154.58	-475.75	40°12'4.84"	-110°21'12.92"	1.01	180.00	500.23
	8448.73	3.01	252.00	8400.00	-204.30	-628.78	40°12'4.35"		0.00	0.00	661.13

5D Plan Report

Salient Points (Relative to Slot centre, TVD relative to Drill Floor)											
Comment	MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Latitude (° ' ")	Longitude (° ' ")	DLS (°/100 US ft)	T.Face (°)	VS (US ft)
START DROP @ 1.5 deg/100'								- 110°21'14.89 "			
END DROP/HOLD 0deg INC TO TD	8648.82	0.00	0.00	8600.00	-205.93	-633.77	40°12'4.33"	- 110°21'14.95 "	1.50	180.00	666.39
TD @ 11400m TVD	11448.82	0.00	0.00	11400.00	-205.93	-633.77	40°12'4.33"	- 110°21'14.95 "	0.00	0.00	666.39

Interpolated Points (Relative to Slot centre, TVD relative to Drill Floor)												
Comment	MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Latitude (° ' ")	Longitude (° ' ")	DLS (°/100 US ft)	T.Face (°)	VS (US ft)	T.Rate (°/100 US ft)
	0.00	0.00	0.00	0.00	0.00	0.00	40°12'6.37"	- 110°21'6.79 "	0.00	0.00	-0.00	0.00
	98.43	0.00	0.00	98.43	0.00	0.00	40°12'6.37"	- 110°21'6.79 "	0.00	0.00	-0.00	0.00
	196.85	0.00	0.00	196.85	0.00	0.00	40°12'6.37"	- 110°21'6.79 "	0.00	0.00	-0.00	0.00
	295.28	0.00	0.00	295.28	0.00	0.00	40°12'6.37"	- 110°21'6.79 "	0.00	0.00	-0.00	0.00
	393.70	0.00	0.00	393.70	0.00	0.00	40°12'6.37"	- 110°21'6.79 "	0.00	0.00	-0.00	0.00
	492.13	0.00	0.00	492.13	0.00	0.00	40°12'6.37"	- 110°21'6.79 "	0.00	0.00	-0.00	0.00
	590.55	0.00	0.00	590.55	0.00	0.00	40°12'6.37"	- 110°21'6.79 "	0.00	0.00	-0.00	0.00
	688.98	0.00	0.00	688.98	0.00	0.00	40°12'6.37"	- 110°21'6.79 "	0.00	0.00	-0.00	0.00
	787.40	0.00	0.00	787.40	0.00	0.00	40°12'6.37"	- 110°21'6.79 "	0.00	0.00	-0.00	0.00

5D Plan Report

Interpolated Points (Relative to Slot centre, TVD relative to Drill Floor)												
Comment	MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Latitude (° ' ")	Longitude (° ' ")	DLS (°/100 US ft)	T.Face (°)	VS (US ft)	T.Rate (°/100 US ft)
	885.83	0.00	0.00	885.83	0.00	0.00	40°12'6.37"	- 110°21'6.79	0.00	0.00	-0.00	0.00
	984.25	0.00	0.00	984.25	0.00	0.00	40°12'6.37"	- 110°21'6.79	0.00	0.00	-0.00	0.00
	1082.68	0.00	0.00	1082.68	0.00	0.00	40°12'6.37"	- 110°21'6.79	0.00	0.00	-0.00	0.00
	1181.10	0.00	0.00	1181.10	0.00	0.00	40°12'6.37"	- 110°21'6.79	0.00	0.00	-0.00	0.00
	1279.53	0.00	0.00	1279.53	0.00	0.00	40°12'6.37"	- 110°21'6.79	0.00	0.00	-0.00	0.00
	1377.95	0.00	0.00	1377.95	0.00	0.00	40°12'6.37"	- 110°21'6.79	0.00	0.00	-0.00	0.00
	1476.38	0.00	0.00	1476.38	0.00	0.00	40°12'6.37"	- 110°21'6.79	0.00	0.00	-0.00	0.00
	1574.80	0.00	0.00	1574.80	0.00	0.00	40°12'6.37"	- 110°21'6.79	0.00	0.00	-0.00	0.00
	1673.23	0.00	0.00	1673.23	0.00	0.00	40°12'6.37"	- 110°21'6.79	0.00	0.00	-0.00	0.00
	1771.65	0.00	0.00	1771.65	0.00	0.00	40°12'6.37"	- 110°21'6.79	0.00	0.00	-0.00	0.00
	1870.08	0.00	0.00	1870.08	0.00	0.00	40°12'6.37"	- 110°21'6.79	0.00	0.00	-0.00	0.00
	1968.50	0.00	0.00	1968.50	0.00	0.00	40°12'6.37"	- 110°21'6.79	0.00	0.00	-0.00	0.00
START BUILD @ 1deg/100'	2050.00	0.00	0.00	2050.00	0.00	0.00	40°12'6.37"	- 110°21'6.79	0.00	0.00	-0.00	0.00
	2066.93	0.17	252.00	2066.92	-0.01	-0.02	40°12'6.37"		1.00	252.00	0.02	0.00

5D Plan Report

Interpolated Points (Relative to Slot centre, TVD relative to Drill Floor)												
Comment	MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Latitude (° ' ")	Longitude (° ' ")	DLS (°/100 US ft)	T.Face (°)	VS (US ft)	T.Rate (°/100 US ft)
								-				
								110°21'6.79				
								"				
	2165.35	1.15	252.00	2165.34	-0.36	-1.10	40°12'6.36"	-	1.00	0.00	1.16	-0.00
								110°21'6.80				
								"				
	2263.78	2.14	252.00	2263.73	-1.23	-3.79	40°12'6.36"	-	1.00	0.00	3.99	-0.00
								110°21'6.83				
								"				
	2362.20	3.12	252.00	2362.05	-2.63	-8.09	40°12'6.34"	-	1.00	0.00	8.50	0.00
								110°21'6.89				
								"				
	2460.63	4.11	252.00	2460.27	-4.55	-13.99	40°12'6.32"	-	1.00	0.00	14.71	-0.00
								110°21'6.97				
								"				
	2559.05	5.09	252.00	2558.38	-6.98	-21.49	40°12'6.30"	-	1.00	0.00	22.60	0.00
								110°21'7.06				
								"				
	2657.48	6.07	252.00	2656.34	-9.94	-30.60	40°12'6.27"	-	1.00	0.00	32.17	0.00
								110°21'7.18				
								"				
	2755.90	7.06	252.00	2754.12	-13.42	-41.30	40°12'6.24"	-	1.00	0.00	43.43	-0.00
								110°21'7.32				
								"				
	2854.33	8.04	252.00	2851.69	-17.42	-53.60	40°12'6.20"	-	1.00	0.00	56.36	-0.00
								110°21'7.48				
								"				
	2952.75	9.03	252.00	2949.02	-21.93	-67.50	40°12'6.15"	-	1.00	0.00	70.97	-0.00
								110°21'7.66				
								"				
	3051.18	10.01	252.00	3046.09	-26.96	-82.98	40°12'6.10"	-	1.00	0.00	87.25	-0.00
								110°21'7.86				
								"				
	3149.60	11.00	252.00	3142.86	-32.51	-100.04	40°12'6.05"	-	1.00	0.00	105.19	0.00
								110°21'8.08				
								"				
	3248.03	11.98	252.00	3239.31	-38.56	-118.69	40°12'5.99"	-	1.00	0.00	124.79	-0.00
								110°21'8.32				
								"				
	3250.00	12.00	252.00	3241.25	-38.69	-119.08	40°12'5.99"	-	1.00	0.00	125.20	0.00

5D Plan Report

Interpolated Points (Relative to Slot centre, TVD relative to Drill Floor)												
Comment	MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Latitude (° ' ")	Longitude (° ' ")	DLS (°/100 US ft)	T.Face (°)	VS (US ft)	T.Rate (°/100 US ft)
								- 110°21'8.32 "				
	3346.45	12.00	252.00	3335.59	-44.89	-138.15	40°12'5.92"	- 110°21'8.57 "	0.00	0.00	145.26	0.00
	3444.88	12.00	252.00	3431.86	-51.21	-157.61	40°12'5.86"	- 110°21'8.82 "	0.00	0.00	165.72	0.00
	3543.30	12.00	252.00	3528.14	-57.53	-177.07	40°12'5.80"	- 110°21'9.07 "	0.00	0.00	186.18	0.00
	3641.73	12.00	252.00	3624.41	-63.86	-196.54	40°12'5.74"	- 110°21'9.32 "	0.00	0.00	206.65	0.00
	3740.15	12.00	252.00	3720.69	-70.18	-216.00	40°12'5.67"	- 110°21'9.57 "	0.00	0.00	227.11	0.00
GREEN RIVER (GRRV) :	3770.12	12.00	252.00	3750.00	-72.11	-221.92	40°12'5.66"	- 110°21'9.65 "	0.00	0.00	233.34	0.00
	3838.58	12.00	252.00	3816.96	-76.51	-235.46	40°12'5.61"	- 110°21'9.82 "	0.00	0.00	247.57	0.00
	3937.00	12.00	252.00	3913.23	-82.83	-254.92	40°12'5.55"	- 110°21'10.0 7"	0.00	0.00	268.04	0.00
	4035.43	12.00	252.00	4009.51	-89.15	-274.38	40°12'5.49"	- 110°21'10.3 2"	0.00	0.00	288.50	0.00
	4133.85	12.00	252.00	4105.78	-95.48	-293.85	40°12'5.42"	- 110°21'10.5 7"	0.00	0.00	308.97	0.00
	4232.28	12.00	252.00	4202.06	-101.80	-313.31	40°12'5.36"	- 110°21'10.8 2"	0.00	0.00	329.43	0.00
	4330.70	12.00	252.00	4298.33	-108.12	-332.77	40°12'5.30"	- 110°21'11.0 7"	0.00	0.00	349.89	0.00
	4429.13	12.00	252.00	4394.60	-114.45	-352.23	40°12'5.24"		0.00	0.00	370.36	0.00

5D Plan Report

Interpolated Points (Relative to Slot centre, TVD relative to Drill Floor)												
Comment	MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Latitude (° ' ")	Longitude (° ' ")	DLS (°/100 US ft)	T.Face (°)	VS (US ft)	T.Rate (°/100 US ft)
								-				
								110°21'11.3 3"				
GREEN RIVER (GRTN1) :	4468.38	12.00	252.00	4433.00	-116.97	-359.99	40°12'5.21"	-	0.00	0.00	378.52	0.00
START DROP AT 1 deg/100'	4496.47	12.00	252.00	4460.48	-118.77	-365.55	40°12'5.19"	110°21'11.4 3"	0.00	0.00	384.36	0.00
	4527.55	11.69	252.00	4490.90	-120.75	-371.61	40°12'5.18"	110°21'11.5 0"	1.01	180.00	390.74	-0.00
	4625.98	10.69	252.00	4587.45	-126.65	-389.78	40°12'5.12"	110°21'11.5 8"	1.01	180.00	409.83	0.00
	4724.40	9.69	252.00	4684.32	-132.03	-406.34	40°12'5.06"	110°21'11.8 1"	1.01	180.00	427.25	-0.00
	4822.83	8.70	252.00	4781.48	-136.89	-421.29	40°12'5.02"	110°21'12.0 2"	1.01	180.00	442.97	0.00
	4921.25	7.70	252.00	4878.90	-141.22	-434.64	40°12'4.97"	110°21'12.2 2"	1.01	180.00	457.01	0.00
	5019.68	6.70	252.00	4976.55	-145.04	-446.38	40°12'4.93"	110°21'12.3 9"	1.01	180.00	469.35	-0.00
	5118.10	5.71	252.00	5074.39	-148.32	-456.49	40°12'4.90"	110°21'12.5 4"	1.01	180.00	479.98	-0.00
	5216.53	4.71	252.00	5172.41	-151.09	-464.99	40°12'4.88"	110°21'12.6 7"	1.01	180.00	488.92	0.00
	5314.95	3.71	252.00	5270.57	-153.32	-471.87	40°12'4.85"	110°21'12.7 8"	1.01	180.00	496.15	-0.00
END DROP	5384.50	3.01	252.00	5340.00	-154.58	-475.75	40°12'4.84"	110°21'12.8 7"	1.01	180.00	500.23	-0.00
MAHOGANY BENCH :	5387.51	3.01	252.00	5343.00	-154.63	-475.90	40°12'4.84"	110°21'12.9 2"	0.00	0.00	500.39	0.00

5D Plan Report

Interpolated Points (Relative to Slot centre, TVD relative to Drill Floor)												
Comment	MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Latitude (° ' ")	Longitude (° ' ")	DLS (°/100 US ft)	T.Face (°)	VS (US ft)	T.Rate (°/100 US ft)
								- 110°21'12.9 2"				
	5413.38	3.01	252.00	5368.83	-155.05	-477.19	40°12'4.84"	- 110°21'12.9 4"	0.00	0.00	501.74	0.00
	5511.80	3.01	252.00	5467.12	-156.65	-482.10	40°12'4.82"	- 110°21'13.0 0"	0.00	0.00	506.91	0.00
	5610.23	3.01	252.00	5565.41	-158.24	-487.02	40°12'4.80"	- 110°21'13.0 6"	0.00	0.00	512.08	0.00
	5708.65	3.01	252.00	5663.70	-159.84	-491.94	40°12'4.79"	- 110°21'13.1 3"	0.00	0.00	517.25	0.00
	5807.08	3.01	252.00	5761.99	-161.44	-496.85	40°12'4.77"	- 110°21'13.1 9"	0.00	0.00	522.42	0.00
	5905.50	3.01	252.00	5860.28	-163.03	-501.77	40°12'4.76"	- 110°21'13.2 5"	0.00	0.00	527.59	0.00
	6003.93	3.01	252.00	5958.57	-164.63	-506.68	40°12'4.74"	- 110°21'13.3 2"	0.00	0.00	532.75	0.00
	6102.35	3.01	252.00	6056.86	-166.23	-511.60	40°12'4.73"	- 110°21'13.3 8"	0.00	0.00	537.92	0.00
	6200.78	3.01	252.00	6155.15	-167.82	-516.51	40°12'4.71"	- 110°21'13.4 4"	0.00	0.00	543.09	0.00
	6299.20	3.01	252.00	6253.44	-169.42	-521.43	40°12'4.69"	- 110°21'13.5 1"	0.00	0.00	548.26	0.00
	6397.63	3.01	252.00	6351.72	-171.02	-526.34	40°12'4.68"	- 110°21'13.5 7"	0.00	0.00	553.43	0.00
	6496.05	3.01	252.00	6450.01	-172.62	-531.26	40°12'4.66"	- 110°21'13.6 3"	0.00	0.00	558.60	0.00
	6594.48	3.01	252.00	6548.30	-174.21	-536.17	40°12'4.65"		0.00	0.00	563.76	0.00

5D Plan Report

Interpolated Points (Relative to Slot centre, TVD relative to Drill Floor)												
Comment	MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Latitude (° ' ")	Longitude (° ' ")	DLS (°/100 US ft)	T.Face (°)	VS (US ft)	T.Rate (°/100 US ft)
								-				
								110°21'13.70"				
	6692.90	3.01	252.00	6646.59	-175.81	-541.09	40°12'4.63"	-	0.00	0.00	568.93	0.00
								110°21'13.76"				
LOWER GREEN RIVER :	6709.33	3.01	252.00	6663.00	-176.08	-541.91	40°12'4.63"	-	0.00	0.00	569.80	0.00
								110°21'13.77"				
	6791.33	3.01	252.00	6744.88	-177.41	-546.00	40°12'4.62"	-	0.00	0.00	574.10	0.00
								110°21'13.82"				
	6889.75	3.01	252.00	6843.17	-179.00	-550.92	40°12'4.60"	-	0.00	0.00	579.27	0.00
								110°21'13.89"				
	6988.18	3.01	252.00	6941.46	-180.60	-555.83	40°12'4.58"	-	0.00	0.00	584.44	0.00
								110°21'13.95"				
	7086.60	3.01	252.00	7039.75	-182.20	-560.75	40°12'4.57"	-	0.00	0.00	589.61	0.00
								110°21'14.01"				
	7185.03	3.01	252.00	7138.04	-183.80	-565.67	40°12'4.55"	-	0.00	0.00	594.77	0.00
								110°21'14.08"				
	7283.45	3.01	252.00	7236.33	-185.39	-570.58	40°12'4.54"	-	0.00	0.00	599.94	0.00
								110°21'14.14"				
	7381.88	3.01	252.00	7334.62	-186.99	-575.50	40°12'4.52"	-	0.00	0.00	605.11	0.00
								110°21'14.20"				
	7480.30	3.01	252.00	7432.91	-188.59	-580.41	40°12'4.50"	-	0.00	0.00	610.28	0.00
								110°21'14.27"				
	7578.73	3.01	252.00	7531.20	-190.18	-585.33	40°12'4.49"	-	0.00	0.00	615.45	0.00
								110°21'14.33"				
	7677.15	3.01	252.00	7629.48	-191.78	-590.24	40°12'4.47"	-	0.00	0.00	620.62	0.00
								110°21'14.39"				
	7775.58	3.01	252.00	7727.77	-193.38	-595.16	40°12'4.46"	-	0.00	0.00	625.78	0.00

5D Plan Report

Interpolated Points (Relative to Slot centre, TVD relative to Drill Floor)												
Comment	MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Latitude (° ' ")	Longitude (° ' ")	DLS (°/100 US ft)	T.Face (°)	VS (US ft)	T.Rate (°/100 US ft)
								- 110°21'14.4 6"				
	7874.00	3.01	252.00	7826.06	-194.98	-600.07	40°12'4.44"	-	0.00	0.00	630.95	0.00
								110°21'14.5 2"				
	7972.43	3.01	252.00	7924.35	-196.57	-604.99	40°12'4.43"	-	0.00	0.00	636.12	0.00
								110°21'14.5 8"				
	8070.85	3.01	252.00	8022.64	-198.17	-609.90	40°12'4.41"	-	0.00	0.00	641.29	0.00
								110°21'14.6 5"				
	8169.28	3.01	252.00	8120.93	-199.77	-614.82	40°12'4.39"	-	0.00	0.00	646.46	0.00
								110°21'14.7 1"				
	8267.70	3.01	252.00	8219.22	-201.36	-619.73	40°12'4.38"	-	0.00	0.00	651.63	0.00
								110°21'14.7 7"				
	8366.13	3.01	252.00	8317.51	-202.96	-624.65	40°12'4.36"	-	0.00	0.00	656.79	0.00
								110°21'14.8 4"				
START DROP @ 1.5 deg/100'	8448.73	3.01	252.00	8400.00	-204.30	-628.78	40°12'4.35"	-	0.00	0.00	661.13	0.00
								110°21'14.8 9"				
	8464.55	2.77	252.00	8415.80	-204.55	-629.53	40°12'4.35"	-	1.50	180.00	661.93	0.00
								110°21'14.9 0"				
	8562.98	1.29	252.00	8514.16	-205.63	-632.85	40°12'4.34"	-	1.50	180.00	665.42	0.00
								110°21'14.9 4"				
WASATCH :	8581.82	1.01	252.00	8533.00	-205.74	-633.21	40°12'4.34"	-	1.50	180.00	665.80	-0.00
								110°21'14.9 5"				
END DROP/ HOLD 0deg INC TO TD	8648.82	0.00	0.00	8600.00	-205.93	-633.77	40°12'4.33"	-	1.50	180.00	666.39	0.00
								110°21'14.9 5"				
	8661.40	0.00	0.00	8612.58	-205.93	-633.77	40°12'4.33"	-	0.00	0.00	666.39	0.00
								110°21'14.9 5"				
	8759.83	0.00	0.00	8711.00	-205.93	-633.77	40°12'4.33"	-	0.00	0.00	666.39	0.00

5D Plan Report

Interpolated Points (Relative to Slot centre, TVD relative to Drill Floor)												
Comment	MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Latitude (° ' ")	Longitude (° ' ")	DLS (°/100 US ft)	T.Face (°)	VS (US ft)	T.Rate (°/100 US ft)
								-				
								110°21'14.95"				
8858.25	0.00	0.00	0.00	8809.43	-205.93	-633.77	40°12'4.33"	-	0.00	0.00	666.39	0.00
								110°21'14.95"				
8956.68	0.00	0.00	0.00	8907.85	-205.93	-633.77	40°12'4.33"	-	0.00	0.00	666.39	0.00
								110°21'14.95"				
9055.10	0.00	0.00	0.00	9006.28	-205.93	-633.77	40°12'4.33"	-	0.00	0.00	666.39	0.00
								110°21'14.95"				
9153.53	0.00	0.00	0.00	9104.70	-205.93	-633.77	40°12'4.33"	-	0.00	0.00	666.39	0.00
								110°21'14.95"				
9251.95	0.00	0.00	0.00	9203.13	-205.93	-633.77	40°12'4.33"	-	0.00	0.00	666.39	0.00
								110°21'14.95"				
9350.38	0.00	0.00	0.00	9301.55	-205.93	-633.77	40°12'4.33"	-	0.00	0.00	666.39	0.00
								110°21'14.95"				
9448.80	0.00	0.00	0.00	9399.98	-205.93	-633.77	40°12'4.33"	-	0.00	0.00	666.39	0.00
								110°21'14.95"				
9547.23	0.00	0.00	0.00	9498.40	-205.93	-633.77	40°12'4.33"	-	0.00	0.00	666.39	0.00
								110°21'14.95"				
9645.65	0.00	0.00	0.00	9596.83	-205.93	-633.77	40°12'4.33"	-	0.00	0.00	666.39	0.00
								110°21'14.95"				
9744.08	0.00	0.00	0.00	9695.25	-205.93	-633.77	40°12'4.33"	-	0.00	0.00	666.39	0.00
								110°21'14.95"				
9842.50	0.00	0.00	0.00	9793.68	-205.93	-633.77	40°12'4.33"	-	0.00	0.00	666.39	0.00
								110°21'14.95"				
9940.93	0.00	0.00	0.00	9892.10	-205.93	-633.77	40°12'4.33"	-	0.00	0.00	666.39	0.00
								110°21'14.95"				
10039.35	0.00	0.00	0.00	9990.53	-205.93	-633.77	40°12'4.33"	-	0.00	0.00	666.39	0.00

5D Plan Report

Interpolated Points (Relative to Slot centre, TVD relative to Drill Floor)												
Comment	MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Latitude (° ' ")	Longitude (° ' ")	DLS (°/100 US ft)	T.Face (°)	VS (US ft)	T.Rate (°/100 US ft)
								- 110°21'14.9 5"				
	10137.78	0.00	0.00	10088.95	-205.93	-633.77	40°12'4.33"	- 110°21'14.9 5"	0.00	0.00	666.39	0.00
	10236.20	0.00	0.00	10187.38	-205.93	-633.77	40°12'4.33"	- 110°21'14.9 5"	0.00	0.00	666.39	0.00
	10334.63	0.00	0.00	10285.80	-205.93	-633.77	40°12'4.33"	- 110°21'14.9 5"	0.00	0.00	666.39	0.00
	10433.05	0.00	0.00	10384.23	-205.93	-633.77	40°12'4.33"	- 110°21'14.9 5"	0.00	0.00	666.39	0.00
	10531.48	0.00	0.00	10482.65	-205.93	-633.77	40°12'4.33"	- 110°21'14.9 5"	0.00	0.00	666.39	0.00
	10629.90	0.00	0.00	10581.08	-205.93	-633.77	40°12'4.33"	- 110°21'14.9 5"	0.00	0.00	666.39	0.00
	10728.33	0.00	0.00	10679.50	-205.93	-633.77	40°12'4.33"	- 110°21'14.9 5"	0.00	0.00	666.39	0.00
	10826.75	0.00	0.00	10777.93	-205.93	-633.77	40°12'4.33"	- 110°21'14.9 5"	0.00	0.00	666.39	0.00
	10925.18	0.00	0.00	10876.35	-205.93	-633.77	40°12'4.33"	- 110°21'14.9 5"	0.00	0.00	666.39	0.00
	11023.60	0.00	0.00	10974.78	-205.93	-633.77	40°12'4.33"	- 110°21'14.9 5"	0.00	0.00	666.39	0.00
	11122.03	0.00	0.00	11073.20	-205.93	-633.77	40°12'4.33"	- 110°21'14.9 5"	0.00	0.00	666.39	0.00
	11220.45	0.00	0.00	11171.63	-205.93	-633.77	40°12'4.33"	- 110°21'14.9 5"	0.00	0.00	666.39	0.00
	11318.88	0.00	0.00	11270.05	-205.93	-633.77	40°12'4.33"	- 110°21'14.9 5"	0.00	0.00	666.39	0.00

5D Plan Report

Interpolated Points (Relative to Slot centre, TVD relative to Drill Floor)												
Comment	MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Latitude (° ' ")	Longitude (° ' ")	DLS (°/100 US ft)	T.Face (°)	VS (US ft)	T.Rate (°/100 US ft)
								110°21'14.9 5"				
	11417.30	0.00	0.00	11368.48	-205.93	-633.77	40°12'4.33"	-	0.00	0.00	666.39	0.00
								110°21'14.9 5"				
TD @ 11400m TVD	11448.82	0.00	0.00	11400.00	-205.93	-633.77	40°12'4.33"	-	0.00	0.00	666.39	0.00
								110°21'14.9 5"				

Formation Points (Relative to Slot centre, TVD relative to Drill Floor)				
Name	MD (US ft)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)
GREEN RIVER (GRRV)	3770.12	3750.00	-72.11	-221.92
GREEN RIVER (GRTN1)	4468.38	4433.00	-116.97	-359.99
MAHOGANY BENCH	5387.51	5343.00	-154.63	-475.90
LOWER GREEN RIVER	6709.33	6663.00	-176.08	-541.91
WASATCH	8581.82	8533.00	-205.74	-633.21

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator EP ENERGY E&P COMPANY, L.P.
Well Name Flannery 3-20C4
API Number 43013531210000 **APD No** 10200 **Field/Unit** ALTAMONT
Location: 1/4,1/4 SESE **Sec** 20 **Tw** 3.0S **Rng** 4.0W 1055 FSL 264 FEL
GPS Coord (UTM) 555158 4450355 **Surface Owner** Jerold & Dora Flannery

Participants

Tyler Cox (BLM); Randy Fredrick (EP Energy Construction); Heather Ivie (EP Land person);
Dennis Ingram (DOGM)

Regional/Local Setting & Topography

The Flannery 3-20C4 well has been proposed in northeastern Utah along the southern edges of Blue Bench, near the southern point of this flat mesa before the topography breaks off into the Duchesne River Corridor. A series of washes run south draining the lower rim of Blue Bench and break these lower edges up much like, small, fingered flattop mesa. The topography at the surface slopes gently to the south, southeast. Access into this well site can be gained by driving north at the junction of US Highway 40 along Highway 87 for approximately 3.54 miles, then turn east along existing county road for another 2.36 miles, then south along a proposed access road for another 0.87 miles. The surface is open rangeland with short vegetative cover void of trees.

Surface Use Plan

Current Surface Use
Wildlfe Habitat

New Road Miles	Well Pad	Src Const Material	Surface Formation
0.87	Width 308 Length 465	Onsite	UNTA

Ancillary Facilities

Road base or gravel brought in for location surface and road.

Waste Management Plan Adequate? Y

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

Rabbit brush, sagebrush, bunch grass, prickly pear cactus;

Potential mule deer, coyote, rabbit, prairie dog, horn toad, and other smaller mammals and bird life native to region

Soil Type and Characteristics

Reddish, sandy clay with underlying cobbles

Erosion Issues N

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

tanks and location

Erosion Sedimentation Control Required? N**Paleo Survey Run?** Y **Paleo Potential Observed?** N **Cultural Survey Run?** Y **Cultural Resources?** N**Reserve Pit****Site-Specific Factors****Site Ranking**

Distance to Groundwater (feet)	>200	0
Distance to Surface Water (feet)	>1000	0
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		
Presence Nearby Utility Conduits	Unknown	10
Final Score		35 1 Sensitivity Level

Characteristics / Requirements

Original plat shows pit on north side of lease but is staked off the south side in a couple feet of fill. Operator claims this was done to please the landowner and a new cut and fill sheet will be submitted to the Division. Pit size is 110' wide by 150' long by 12' deep.

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

Split estate well, BLM required arch survey, cut and fill sheet provided at site shows reserve pit off the north side of lease but was staked off the south side. EP Energy claims they rotated the pit south to please the landowner which will give them back more land (location staked against landowner boundary). DOGM and the BLM decided the pit will be in a couple feet of fill but should not be an issue with spoil piles from pit stored along the east, south, and west sides. A new location cut and fill sheet should be submitted to the division. The landowner was contacted but did not attend.

Dennis Ingram
Evaluator9/9/2014
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
10200	43013531210000	LOCKED	OW	P	No
Operator	EP ENERGY E&P COMPANY, L.P.		Surface Owner-APD	Jerold & Dora Flannery	
Well Name	Flannery 3-20C4		Unit		
Field	ALTAMONT		Type of Work	DRILL	
Location	SESE 20 3S 4W U 1055 FSL 264 FEL GPS Coord (UTM) 555159E 4450353N				

Geologic Statement of Basis

EP proposes to set 600 feet of conductor and 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 1,200 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

9/17/2014
Date / Time

Surface Statement of Basis

The surface at this proposed well site slopes gently to the south, southeast and is open rangelands. There aren't any drainage issues or diversions needed.

The original plats for the cut and fill of the location show the reserve pit off the north side of the pad. However, plans have changed and the reserve pit is presently staked off the south side which will be in two or three feet of fill material. EP Energy has promised to submit the changes to the Division, as they were made to please the landowner and give them back more land after reclaiming the pit. Therefore, the operator shall install a 20 mil synthetic liner and felt sub liner to assure stability and protect from seepage. Spoils from this pit shall be stored along the east, south and west sides of this pit to form a containment berm and further stabilize that pit. The pit shall also be fenced while open.

A presite was scheduled and performed on the Flannery 3-20C4 to address issues regarding the construction and drilling of this well. This well is a split estate well (FEE surface and Tribal minerals), and therefore the BLM was invited to attend the meeting. EP Energy claims they do not have a signed landowner agreement but are continuing work to gain that agreement and will submit it to the Division ASAP. The landowner of record was contacted and invited to the presite. Mr. Flannery assured DOGM that he is aware of this process but could not attend.

Dennis Ingram
Onsite Evaluator

9/9/2014
Date / Time

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 20 mils with a felt sub liner shall be properly installed and maintained in the reserve pit. Pit spoils shall be stored east, south and west of pit to assure stability.
Pits	The reserve pit should be located on the south side of the location.
Surface	The well site shall be bermed to prevent fluids from entering or leaving the pad.

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WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 8/20/2014

API NO. ASSIGNED: 43013531210000

WELL NAME: Flannery 3-20C4

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

PHONE NUMBER: 713 997-5038

CONTACT: Maria S. Gomez

PROPOSED LOCATION: SESE 20 030S 040W

Permit Tech Review:

SURFACE: 1055 FSL 0264 FEL

Engineering Review:

BOTTOM: 0700 FSL 0900 FEL

Geology Review:

COUNTY: DUCHESNE

LATITUDE: 40.20177

LONGITUDE: -110.35190

UTM SURF EASTINGS: 555159.00

NORTHINGS: 4450353.00

FIELD NAME: ALTAMONT

LEASE TYPE: 2 - Indian

LEASE NUMBER: 1420H626388

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

SURFACE OWNER: 4 - Fee

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

- PLAT
- Bond: INDIAN - RLB0009692
- 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 139-90
- Effective Date: 5/9/2012
- Siting: 4 Wells Per 640 Acres
- R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations: 4 - Federal Approval - dmason
5 - Statement of Basis - bhll
15 - Directional - dmason



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: Flannery 3-20C4
API Well Number: 43013531210000
Lease Number: 1420H626388
Surface Owner: FEE (PRIVATE)
Approval Date: 3/10/2015

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 139-90. 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:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

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

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 at 801-538-5284

(please leave a voicemail message if not available)

OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website
at <http://oilgas.ogm.utah.gov>

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:

A handwritten signature in black ink, appearing to read "John Rogers", written over a horizontal line.

For John Rogers
Associate Director, Oil & Gas

RECEIVED

FORM APPROVED
OMB No. 1004-0136
Expires July 31, 2010

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

AUG 11 2014

APPLICATION FOR PERMIT TO DRILL OR REENTER

BLM Vernal UT

5. Lease Serial No.
1420H626388

6. If Indian, Allottee or Tribe Name

1a. Type of Work: DRILL REENTER

CONFIDENTIAL

7. If Unit or CA Agreement, Name and No.

1b. Type of Well: Oil Well Gas Well Other Single Zone Multiple Zone

8. Lease Name and Well No.
FLANNERY 3-20C4

2. Name of Operator
EL PASO E&P COMPANY LP

Contact: MARIA GOMEZ
E-Mail: maria.gomez@epenergy.com

9. API Well No.
4301353121

3a. Address
1001 LOUISIANA
HOUSTON, TX 77002

3b. Phone No. (include area code)
Ph: 713-997-5038

10. Field and Pool, or Exploratory
ALTAMONT

4. Location of Well (Report location clearly and in accordance with any State requirements. *)
At surface SESE 996FSL 273FEL
At proposed prod. zone SESE 700FSL 900FEL

11. Sec., T., R., M., or Blk. and Survey or Area
Sec 20 T3S R4W Mer UBM

14. Distance in miles and direction from nearest town or post office*

12. County or Parish
DUCHESENE

13. State
UT

15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)

16. No. of Acres in Lease
160.00

17. Spacing Unit dedicated to this well

18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.

19. Proposed Depth
11441 MD
11400 TVD

20. BLM/BIA Bond No. on file
RLB0009692

21. Elevations (Show whether DF, KB, RT, GL, etc.)
5836 GL

22. Approximate date work will start
12/30/2014

23. Estimated duration
45 DAYS

24. Attachments

DIV. OF OIL, GAS & MINING

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature (Electronic Submission) Name (Printed/Typed) MARIA GOMEZ Ph: 713-997-5038 Date 08/07/2014

Title AUTHORIZED REPRESENTATIVE

Approved by (Signature) Name (Printed/Typed) Jerry Kenczka Date MAR 18 2015

Title Assistant Field Manager Lands & Mineral Resources Office VERNAL FIELD OFFICE

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

CONDITIONS OF APPROVAL ATTACHED

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Additional Operator Remarks (see next page)

Electronic Submission #256241 verified by the BLM Well Information System
For EL PASO E&P COMPANY LP, sent to the Vernal
Committed to AFMSS for processing by ROBIN R. HANSEN on 08/11/2014 ()

NOTICE OF APPROVAL

UDOGM

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **



**UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE**

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: EL PASO E&P COMPANY LP
Well No: FLANNERY 3-20C4
API No: 43-013-53121

Location: SESE, Sec. 20, T3S, R4W
Lease No: 14-20-H62-6388
Agreement: N/A

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

NOTIFICATION REQUIREMENTS

Construction Activity (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	- The Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist shall be notified at least 48 hours in advance of any construction activity. The Ute Tribal office is open Monday through Thursday.
Construction Completion (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	- Upon completion of the pertinent APD/ROW construction, notify the Ute Tribe Energy & Minerals Dept. for a Tribal Technician to verify the Affidavit of Completion. Notify the BLM Environmental Scientist prior to moving on the drilling rig.
Spud Notice (Notify BLM Petroleum Engineer)	- Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify BLM Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to running casing and cementing all casing strings to: blm_ut_vn_opreport@blm.gov .
BOP & Related Equipment Tests (Notify BLM Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify BLM Petroleum Engineer)	- Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

**SURFACE USE PROGRAM
CONDITIONS OF APPROVAL (COAs)**

Company/Operator: QEP Energy Company
Well Name & Number: Flannery 3-20C4
Surface Ownership: Fee
Lease Number: 14-20-H62-6388
Location: Section 20, T3S, R4W UB&M

Conditions of Approval:

- Paint all production facilities and equipment, not otherwise regulated (OSHA, etc.), Juniper Green.
- All areas of disturbance (including surface pipelines) must have appropriate surface use agreements or approvals in place with the proper owner and/or agency before such action is started.
- The conditions of approval, as set forth by those owners and/or agencies, shall be adhered to.
- Stationary internal combustion engines would comply with the following emission standards: 2 g/bhp-hr of NOx for engines less than 300 HP and 1 g/bhp-hr of NOx for engines over 300 HP.
- Either no or low bleed controllers would be installed on pneumatic pumps, actuators or other pneumatic devices.
- VOC venting controls or flaring would be utilized for oil or gas atmospheric storage tanks.
- VOC venting controls or flaring would be used for glycol dehydration and amine units.
- Where feasible, green completion would be used for well completion, re-completion, venting, or planned blowdown emissions. Alternatively, use controlled VOC emissions methods with 90% efficiency.

**DOWNHOLE PROGRAM
CONDITIONS OF APPROVAL (COAs)**

SITE SPECIFIC DOWNHOLE COAs:

Operator: El Paso E&P Company LP
Included in APD Down-Hole reviews dated 10-23-2014
Wells:
Ute Tribal 3-14A3
Ute Tribal 3-25A3
Flannery 3-20C4

Well specific down-hole COA's:

- A CBL shall be run from TD to TOC in the Intermediate (9 5/8) Casing.
- The minimum TOC for the 9 5/8 inch and 7 inch casing shall be 200 feet above the previous casing shoe.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.

- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well by CD (compact disc). This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - Operator name, address, and telephone number.
 - Well name and number.
 - Well location ($\frac{1}{4}$, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if

performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

CONFIDENTIAL

Carol Daniels unknown <caroldaniels@utah.gov>

SFSE SEC-20 T&E ROYU

24 hr Notice to Run & Cement 9 5/8" casing on Flannery 3-20C4.

1 message

LANDRIG007 (Patterson 307) <LANDRIG007@epenergy.com>

Sat, Mar 21, 2015 at 6:07 PM

To: "blm_ut_vn_opreport@blm.gov" <blm_ut_vn_opreport@blm.gov>, "Mangum, Danny R (Contractor)" <danny.mangum@epenergy.com>, "Gomez, Maria S" <Maria.Gomez@epenergy.com>, "m65lee@blm.gov (m65lee@blm.gov)" <m65lee@blm.gov>, "MacAfee, Bradley D" <Brad.MacAfee@epenergy.com>, "Derden, Roy Lynn (Contractor)" <Roy.Derden@epenergy.com>, "ut_vn_opreport@blm.gov" <ut_vn_opreport@blm.gov>, "alexishuefner@utah.gov" <alexishuefner@utah.gov>, "caroldaniels@utah.gov" <caroldaniels@utah.gov>, Dan Jarvis <danjarvis@utah.gov>, "dennisingram@utah.gov" <dennisingram@utah.gov>

RE: EP ENERGY
FLANNERY 3-20C4
API # 43013531210000
LEASE SERIAL # 1420H626388
DUCHESNE CO., UTAH

We intend to run and cement approximately 2,000' of 9 5/8", 40#, N-80, LTC Intermediate casing on the Flannery 3-20C4 well within 24 hrs.

Regards,

Eugene Parker

Well site Supervisor

Patterson 307

713-997-1255

CONFIDENTIAL

Carol Daniels <caroldaniels@utah.gov>

SESE 5-20 T035 Roy W

WITHIN 24 HOURS POST NOTICE - Spudded 24" conductor hole on Flannery 3-20C4

1 message

LANDRIG007 (Patterson 307) <LANDRIG007@epenergy.com>

Fri, Mar 20, 2015 at 6:57 AM

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

RE: EP ENERGY
FLANNERY 3-20C4
API Well Number: 43013531210000
Lease Number: 1420H626388
DUCHESNE CO., UTAH

Leon Ross Drilling began drilling 24" conductor hole on the Flannery 3-20C4 well near 04:00 PM, 03/19/2015.

Regards,
Eugene Parker
Well site Supervisor
Patterson 307
713-997-1255

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.

CONFIDENTIAL

Carol Daniels <caroldaniels@utah.gov>

SESE 5-20 T03S R04W

24 hr Notice to spud 12 1/4" hole on Flannery 3-20C4.

1 message

LANDRIG007 (Patterson 307) <LANDRIG007@epenergy.com>

Thu, Mar 19, 2015 at 12:58 PM

To: "blm_ut_vn_opreport@blm.gov" <blm_ut_vn_opreport@blm.gov>, "Mangum, Danny R (Contractor)" <danny.mangum@epenergy.com>, "Gomez, Maria S" <Maria.Gomez@epenergy.com>, "m65lee@blm.gov (m65lee@blm.gov)" <m65lee@blm.gov>, "MacAfee, Bradley D" <Brad.MacAfee@epenergy.com>, "Morales, Lisa" <Lisa.Morales_epenergy.com@ghosts.local>, "Derden, Roy Lynn (Contractor)" <Roy.Derden@epenergy.com>, "ut_vn_opreport@blm.gov" <ut_vn_opreport@blm.gov>, "alexishuefner@utah.gov" <alexishuefner@utah.gov>, "caroldaniels@utah.gov" <caroldaniels@utah.gov>, Dan Jarvis <danjarvis@utah.gov>, "dennisingram@utah.gov" <dennisingram@utah.gov>

RE: EP ENERGY

FLANNERY 3-20C4

API # *43-013-53121*

LEASE SERIAL # *1430462388*

DUCHESNE CO., UTAH

We plan to spud 12 1/4" hole on the Flannery 3-20C4 well within 24 hrs.

Regards,

Eugene Parker

Well site Supervisor

Patterson 307

713-997-1255

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

AMENDED REPORT FORM 8
(highlight changes)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG		5. LEASE DESIGNATION AND SERIAL NUMBER:
1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER _____		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
b. TYPE OF WORK: NEW WELL <input type="checkbox"/> HORIZ. LATS. <input type="checkbox"/> DEEP-EN <input type="checkbox"/> RE-ENTRY <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER _____		7. UNIT or CA AGREEMENT NAME
2. NAME OF OPERATOR:		8. WELL NAME and NUMBER:
3. ADDRESS OF OPERATOR: CITY _____ STATE _____ ZIP _____ PHONE NUMBER: _____		9. API NUMBER:
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: AT TOP PRODUCING INTERVAL REPORTED BELOW: AT TOTAL DEPTH:		10 FIELD AND POOL, OR WILDCAT
		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
		12. COUNTY _____ 13. STATE UTAH

14. DATE SPUDDED:	15. DATE T.D. REACHED:	16. DATE COMPLETED: _____ ABANDONED <input type="checkbox"/> READY TO PRODUCE <input type="checkbox"/>	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 <input type="checkbox"/> YES <input type="checkbox"/> (Submit analysis) WAS DST RUN? NO <input type="checkbox"/> YES <input type="checkbox"/> (Submit report) DIRECTIONAL SURVEY? NO <input type="checkbox"/> YES <input type="checkbox"/> (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					27. PERFORATION RECORD				
FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS	
(A)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>
(B)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>
(D)								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.	30. WELL STATUS:
<input type="checkbox"/> ELECTRICAL/MECHANICAL LOGS <input type="checkbox"/> GEOLOGIC REPORT <input type="checkbox"/> DST REPORT <input type="checkbox"/> DIRECTIONAL SURVEY <input type="checkbox"/> SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION <input type="checkbox"/> CORE ANALYSIS <input type="checkbox"/> OTHER: _____	

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
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

Attachment to Well Completion Report**Form 8 Dated June 8, 2015****Well Name: Flannery 3-20C4****Items #27 and #28 Continued****27. Perforation Record**

Interval (Top/Bottom – MD)	Size	No. of Holes	Perf. Status
9602'-9852'	.38	66	Open
9307'-9558'	.38	66	Open
9008'-9271'	.38	69	Open

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

Depth Interval	Amount and Type of Material
9902'-10171'	5000 gal acid, 3100# 100 mesh, 149900# 30/50 TLC
9602'-9852'	5000 gal acid, 4220# 100 mesh, 150300# 30/50 TLC
9307'-9558'	5000 gal acid, 4200# 100 mesh, 150100# 30/50 TLC
9008'-9271'	5000 gal acid, 4200# 100 mesh, 155000# 30/50 TLC



Company: EP Energy
Well: Flannery 3-20C4
Location: Duchesne, UT
Rig: Patterson 307

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					
Tie In	0.00	0.00	0.00												
1	100.00	0.36	26.85	100.00	100.00	0.28	0.28	N	0.14	E	0.32	26.85	0.36	0.36	26.85
2	200.00	0.51	354.20	100.00	200.00	1.00	1.00	N	0.24	E	1.03	13.48	0.28	0.15	327.35
3	300.00	0.38	57.35	100.00	299.99	1.62	1.62	N	0.47	E	1.69	16.31	0.48	-0.13	-296.85
4	400.00	0.37	95.51	100.00	399.99	1.77	1.77	N	1.07	E	2.07	31.29	0.24	-0.01	38.16
5	500.00	0.12	181.28	100.00	499.99	1.63	1.63	N	1.39	E	2.14	40.56	0.38	-0.25	85.77
6	600.00	0.33	128.02	100.00	599.99	1.34	1.34	N	1.62	E	2.10	50.29	0.27	0.21	-53.26
7	700.00	0.54	210.39	100.00	699.99	0.76	0.76	N	1.60	E	1.77	64.69	0.59	0.21	82.38
8	800.00	0.52	175.99	100.00	799.98	-0.10	0.10	S	1.40	E	1.40	94.23	0.31	-0.02	-34.40
9	900.00	0.46	233.77	100.00	899.98	-0.79	0.79	S	1.10	E	1.36	125.73	0.48	-0.06	57.78
10	1000.00	0.34	213.74	100.00	999.98	-1.28	1.28	S	0.62	E	1.42	154.27	0.18	-0.12	-20.03
11	1100.00	0.54	226.77	100.00	1099.98	-1.85	1.85	S	0.11	E	1.85	176.59	0.22	0.20	13.03
12	1200.00	0.39	194.08	100.00	1199.97	-2.49	2.49	S	0.31	W	2.51	187.15	0.30	-0.15	-32.69
13	1300.00	0.36	206.73	100.00	1299.97	-3.10	3.10	S	0.53	W	3.14	189.79	0.09	-0.03	12.65
14	1400.00	0.62	186.16	100.00	1399.97	-3.91	3.91	S	0.73	W	3.98	190.60	0.31	0.26	-20.57
15	1500.00	0.42	177.18	100.00	1499.96	-4.81	4.81	S	0.77	W	4.87	189.12	0.22	-0.20	-8.98
16	1600.00	0.50	194.66	100.00	1599.96	-5.59	5.59	S	0.86	W	5.66	188.78	0.16	0.08	17.49
17	1700.00	0.56	205.58	100.00	1699.96	-6.45	6.45	S	1.18	W	6.56	190.40	0.12	0.06	10.92
18	1800.00	0.48	195.26	100.00	1799.95	-7.30	7.30	S	1.50	W	7.45	191.65	0.12	-0.07	-10.32
19	1857.00	0.61	202.39	57.00	1856.95	-7.81	7.81	S	1.68	W	7.99	192.16	0.25	0.22	12.50
20	2047.00	0.60	195.50	190.00	2046.94	-9.70	9.70	S	2.33	W	9.98	193.52	0.04	0.00	-3.62
21	2142.00	0.90	255.00	95.00	2141.93	-10.37	10.37	S	3.19	W	10.85	197.08	0.83	0.32	62.63
22	2238.00	3.20	272.50	96.00	2237.86	-10.45	10.45	S	6.59	W	12.36	212.24	2.46	2.40	18.23
23	2332.00	4.40	272.20	94.00	2331.66	-10.20	10.20	S	12.82	W	16.38	231.49	1.28	1.28	-0.32
24	2427.00	5.50	273.60	95.00	2426.30	-9.77	9.77	S	21.00	W	23.17	245.04	1.16	1.16	1.47
25	2522.00	6.30	274.70	95.00	2520.80	-9.06	9.06	S	30.74	W	32.05	253.58	0.85	0.84	1.16
26	2617.00	7.10	272.90	95.00	2615.15	-8.34	8.34	S	41.80	W	42.62	258.72	0.87	0.84	-1.89
27	2713.00	8.20	272.50	96.00	2710.29	-7.74	7.74	S	54.57	W	55.11	261.93	1.15	1.15	-0.42
28	2808.00	7.80	267.70	95.00	2804.37	-7.70	7.70	S	67.78	W	68.21	263.52	0.82	-0.42	-5.05
29	2904.00	8.00	274.30	96.00	2899.46	-7.46	7.46	S	80.95	W	81.29	264.73	0.97	0.21	6.88
30	2999.00	7.00	268.90	95.00	2993.64	-7.08	7.08	S	93.33	W	93.59	265.66	1.29	-1.05	-5.68
31	3094.00	7.60	278.00	95.00	3087.88	-6.31	6.31	S	105.34	W	105.52	266.57	1.37	0.63	9.58
32	3190.00	6.50	271.40	96.00	3183.15	-5.30	5.30	S	117.05	W	117.17	267.41	1.42	-1.15	-6.88
33	3285.00	7.50	275.00	95.00	3277.44	-4.63	4.63	S	128.61	W	128.69	267.94	1.15	1.05	3.79
34	3380.00	6.80	272.30	95.00	3371.70	-3.86	3.86	S	140.40	W	140.46	268.43	0.82	-0.74	-2.84
35	3476.00	7.00	269.60	96.00	3467.01	-3.67	3.67	S	151.93	W	151.98	268.62	0.40	0.21	-2.81



Company: EP Energy
Well: Flannery 3-20C4
Location: Duchesne, UT
Rig: Patterson 307

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	3571.00	7.10	269.80	95.00	3561.29	-3.73	3.73	S	163.59	W	163.63	268.69	0.11	0.11	0.21
37	3665.00	7.40	270.20	94.00	3654.54	-3.73	3.73	S	175.45	W	175.49	268.78	0.32	0.32	0.43
38	3761.00	6.20	265.80	96.00	3749.86	-4.09	4.09	S	186.81	W	186.85	268.75	1.36	-1.25	-4.58
39	3856.00	7.20	270.90	95.00	3844.21	-4.37	4.37	S	197.88	W	197.92	268.73	1.22	1.05	5.37
40	3952.00	7.60	277.90	96.00	3939.42	-3.41	3.41	S	210.18	W	210.21	269.07	1.03	0.42	7.29
41	4048.00	6.00	268.10	96.00	4034.74	-2.70	2.70	S	221.48	W	221.50	269.30	2.05	-1.67	-10.21
42	4143.00	6.50	268.70	95.00	4129.18	-2.99	2.99	S	231.82	W	231.84	269.26	0.53	0.53	0.63
43	4239.00	7.40	268.90	96.00	4224.47	-3.23	3.23	S	243.44	W	243.46	269.24	0.94	0.94	0.21
44	4334.00	6.70	276.30	95.00	4318.75	-2.74	2.74	S	255.06	W	255.08	269.39	1.21	-0.74	7.79
45	4429.00	7.40	272.70	95.00	4413.03	-1.84	1.84	S	266.68	W	266.69	269.60	0.87	0.74	-3.79
46	4524.00	7.80	273.80	95.00	4507.20	-1.13	1.13	S	279.22	W	279.23	269.77	0.45	0.42	1.16
47	4620.00	6.30	264.80	96.00	4602.47	-1.17	1.17	S	290.97	W	290.97	269.77	1.94	-1.56	-9.38
48	4716.00	7.10	261.90	96.00	4697.82	-2.48	2.48	S	302.09	W	302.10	269.53	0.90	0.83	-3.02
49	4812.00	7.30	260.40	96.00	4793.06	-4.34	4.34	S	313.98	W	314.01	269.21	0.29	0.21	-1.56
50	4908.00	8.00	258.30	96.00	4888.21	-6.71	6.71	S	326.53	W	326.60	268.82	0.79	0.73	-2.19
51	5003.00	7.50	269.30	95.00	4982.34	-8.13	8.13	S	339.21	W	339.30	268.63	1.64	-0.53	11.58
52	5098.00	6.90	288.20	95.00	5076.61	-6.42	6.42	S	350.83	W	350.89	268.95	2.56	-0.63	19.89
53	5193.00	7.00	288.70	95.00	5170.91	-2.78	2.78	S	361.73	W	361.74	269.56	0.12	0.11	0.53
54	5289.00	7.90	282.40	96.00	5266.10	0.51	0.51	N	373.72	W	373.72	270.08	1.26	0.94	-6.56
55	5384.00	6.00	276.00	95.00	5360.40	2.43	2.43	N	385.03	W	385.04	270.36	2.16	-2.00	-6.74
56	5480.00	6.70	276.00	96.00	5455.81	3.54	3.54	N	395.59	W	395.61	270.51	0.73	0.73	0.00
57	5575.00	6.70	266.20	95.00	5550.16	3.75	3.75	N	406.63	W	406.65	270.53	1.20	0.00	-10.32
58	5671.00	7.60	266.50	96.00	5645.41	3.00	3.00	N	418.56	W	418.57	270.41	0.94	0.94	0.31
59	5767.00	6.20	254.40	96.00	5740.72	1.21	1.21	N	429.89	W	429.89	270.16	2.09	-1.46	-12.60
60	5862.00	7.10	250.30	95.00	5835.08	-2.14	2.14	S	440.36	W	440.36	269.72	1.07	0.95	-4.32
61	5958.00	6.40	243.70	96.00	5930.42	-6.52	6.52	S	450.74	W	450.79	269.17	1.09	-0.73	-6.88
62	6052.00	7.60	244.20	94.00	6023.72	-11.54	11.54	S	461.03	W	461.18	268.57	1.28	1.28	0.53
63	6147.00	6.90	241.30	95.00	6117.96	-17.02	17.02	S	471.70	W	472.00	267.93	0.83	-0.74	-3.05
64	6243.00	6.50	237.20	96.00	6213.30	-22.73	22.73	S	481.32	W	481.86	267.30	0.65	-0.42	-4.27
65	6338.00	6.50	227.10	95.00	6307.69	-29.30	29.30	S	489.78	W	490.66	266.58	1.20	0.00	-10.63
66	6434.00	7.30	224.60	96.00	6403.00	-37.35	37.35	S	498.04	W	499.44	265.71	0.89	0.83	-2.60
67	6530.00	6.60	220.00	96.00	6498.29	-45.91	45.91	S	505.87	W	507.95	264.81	0.93	-0.73	-4.79
68	6624.00	7.20	216.90	94.00	6591.61	-54.76	54.76	S	512.88	W	515.80	263.91	0.75	0.64	-3.30
69	6720.00	6.50	215.90	96.00	6686.93	-63.98	63.98	S	519.68	W	523.60	262.98	0.74	-0.73	-1.04
70	6815.00	7.30	210.90	95.00	6781.24	-73.51	73.51	S	525.93	W	531.05	262.04	1.05	0.84	-5.26
71	6911.00	6.40	207.40	96.00	6876.55	-83.49	83.49	S	531.53	W	538.05	261.07	1.03	-0.94	-3.65
72	7006.00	7.50	206.80	95.00	6970.85	-93.73	93.73	S	536.76	W	544.88	260.09	1.16	1.16	-0.63



Company: EP Energy
Well: Flannery 3-20C4
Location: Duchesne, UT
Rig: Patterson 307

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	7102.00	6.50	206.10	96.00	7066.14	-104.20	104.20	S	541.98	W	551.90	259.12	1.05	-1.04	-0.73
74	7197.00	7.10	205.30	95.00	7160.47	-114.34	114.34	S	546.85	W	558.68	258.19	0.64	0.63	-0.84
75	7292.00	6.40	204.90	95.00	7254.81	-124.45	124.45	S	551.59	W	565.45	257.29	0.74	-0.74	-0.42
76	7387.00	6.70	204.40	95.00	7349.19	-134.30	134.30	S	556.11	W	572.09	256.42	0.32	0.32	-0.53
77	7482.00	6.20	199.90	95.00	7443.59	-144.17	144.17	S	560.14	W	578.40	255.57	0.75	-0.53	-4.74
78	7577.00	5.40	194.80	95.00	7538.10	-153.32	153.32	S	563.03	W	583.53	254.77	1.00	-0.84	-5.37
79	7673.00	5.10	193.50	96.00	7633.70	-161.83	161.83	S	565.18	W	587.89	254.02	0.34	-0.31	-1.35
80	7768.00	4.80	190.20	95.00	7728.34	-169.85	169.85	S	566.87	W	591.77	253.32	0.44	-0.32	-3.47
81	7862.00	4.70	189.10	94.00	7822.02	-177.52	177.52	S	568.18	W	595.26	252.65	0.14	-0.11	-1.17
82	7957.00	4.00	183.70	95.00	7916.75	-184.67	184.67	S	569.01	W	598.22	252.02	0.85	-0.74	-5.68
83	8052.00	3.20	192.80	95.00	8011.56	-190.56	190.56	S	569.81	W	600.83	251.51	1.03	-0.84	9.58
84	8148.00	2.70	169.20	96.00	8107.43	-195.40	195.40	S	569.98	W	602.54	251.08	1.36	-0.52	-24.58
85	8243.00	2.00	193.30	95.00	8202.36	-199.21	199.21	S	569.94	W	603.75	250.73	1.26	-0.74	25.37
86	8338.00	1.20	206.90	95.00	8297.32	-201.71	201.71	S	570.77	W	605.36	250.54	0.93	-0.84	14.32
87	8433.00	0.40	253.00	95.00	8392.31	-202.69	202.69	S	571.54	W	606.42	250.47	1.02	-0.84	48.53
88	8529.00	0.50	252.40	96.00	8488.31	-202.92	202.92	S	572.26	W	607.17	250.48	0.10	0.10	-0.62
89	8584.00	0.70	266.30	55.00	8543.30	-203.01	203.01	S	572.82	W	607.73	250.49	0.45	0.36	25.27
90	8600.00	0.71	257.08	16.00	8559.30	-203.04	203.04	S	573.01	W	607.92	250.49	0.71	0.04	-57.61
91	8700.00	1.65	238.95	100.00	8659.28	-203.92	203.92	S	574.85	W	609.94	250.47	1.00	0.94	-18.13
92	8800.00	1.78	219.95	100.00	8759.24	-205.86	205.86	S	577.08	W	612.69	250.37	0.58	0.14	-19.00
93	8900.00	1.96	204.53	100.00	8859.18	-208.60	208.60	S	578.78	W	615.23	250.18	0.53	0.17	-15.42
94	9000.00	2.29	200.04	100.00	8959.11	-212.03	212.03	S	580.18	W	617.71	249.92	0.37	0.34	-4.49
95	9100.00	2.29	196.54	100.00	9059.03	-215.83	215.83	S	581.43	W	620.20	249.64	0.14	0.00	-3.50
96	9200.00	2.43	195.65	100.00	9158.95	-219.78	219.78	S	582.57	W	622.65	249.33	0.14	0.14	-0.89
97	9300.00	2.51	194.86	100.00	9258.86	-223.93	223.93	S	583.70	W	625.18	249.01	0.09	0.08	-0.79
98	9400.00	2.89	198.70	100.00	9358.75	-228.43	228.43	S	585.07	W	628.09	248.67	0.43	0.39	3.84
99	9500.00	2.81	192.38	100.00	9458.62	-233.22	233.22	S	586.41	W	631.09	248.31	0.32	-0.08	-6.32
100	9600.00	2.91	187.38	100.00	9558.50	-238.13	238.13	S	587.26	W	633.71	247.93	0.27	0.09	-5.01
101	9700.00	3.08	183.69	100.00	9658.36	-243.33	243.33	S	587.76	W	636.14	247.51	0.26	0.18	-3.68
102	9800.00	3.05	186.39	100.00	9758.22	-248.66	248.66	S	588.23	W	638.63	247.08	0.15	-0.03	2.70
103	9900.00	3.05	188.20	100.00	9858.08	-253.95	253.95	S	588.91	W	641.33	246.67	0.10	0.00	1.80
104	10000.00	3.39	189.09	100.00	9957.92	-259.50	259.50	S	589.75	W	644.32	246.25	0.34	0.34	0.89
105	10100.00	3.32	185.07	100.00	10057.75	-265.31	265.31	S	590.48	W	647.34	245.80	0.25	-0.07	-4.02
106	10200.00	3.44	187.73	100.00	10157.57	-271.17	271.17	S	591.13	W	650.36	245.36	0.20	0.12	2.66
107	10300.00	3.10	190.04	100.00	10257.41	-276.80	276.80	S	592.01	W	653.52	244.94	0.37	-0.34	2.31
108	10400.00	3.20	185.55	100.00	10357.26	-282.23	282.23	S	592.75	W	656.51	244.54	0.27	0.10	-4.49
109	10500.00	3.13	187.34	100.00	10457.11	-287.72	287.72	S	593.37	W	659.44	244.13	0.12	-0.06	1.79



Company: EP Energy **Job Number:** _____
Well: Flannery 3-20C4 **Mag Decl.:** _____
Location: Duchesne, UT **Dir Driller:** _____
Rig: Patterson 307 **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	10600.00	3.18	189.37	100.00	10556.96	-293.16	293.16	S	594.17	W	662.56	243.74	0.12	0.05	2.03
111	10700.00	3.14	192.38	100.00	10656.80	-298.57	298.57	S	595.21	W	665.89	243.36	0.17	-0.04	3.01
112	10800.00	3.26	189.68	100.00	10756.65	-304.04	304.04	S	596.27	W	669.31	242.98	0.19	0.12	-2.70
113	10900.00	3.12	191.11	100.00	10856.49	-309.51	309.51	S	597.27	W	672.70	242.61	0.16	-0.14	1.43
114	11000.00	3.19	189.12	100.00	10956.34	-314.92	314.92	S	598.24	W	676.06	242.24	0.13	0.07	-1.99
115	11100.00	2.85	187.13	100.00	11056.20	-320.13	320.13	S	598.98	W	679.16	241.88	0.36	-0.34	-1.99
116	11138.00	3.03	191.35	38.00	11094.15	-322.05	322.05	S	599.30	W	680.35	241.75	0.74	0.47	11.10
117	11340.00	3.03	191.35	202.00	11295.87	-332.50	332.50	S	601.39	W	687.19	241.06	0.00	0.00	0.00