

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

FORM 3

AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL						1. WELL NAME and NUMBER EP Energy 4-12C5							
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) Fee			11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>							
13. NAME OF SURFACE OWNER (if box 12 = 'fee') EP Energy E&P Company, L.P.						14. SURFACE OWNER PHONE (if box 12 = 'fee') 713-997-2620							
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee') 1001 Louisiana, Houston, TX 77002						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')							
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			19. SLANT VERTICAL <input checked="" type="checkbox"/> DIRECTIONAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/>							
20. LOCATION OF WELL		FOOTAGES		QTR-QTR		SECTION		TOWNSHIP		RANGE		MERIDIAN	
LOCATION AT SURFACE		1921 FSL 1068 FEL		NESE		12		3.0 S		5.0 W		U	
Top of Uppermost Producing Zone		1921 FSL 1068 FEL		NESE		12		3.0 S		5.0 W		U	
At Total Depth		1921 FSL 1068 FEL		NESE		12		3.0 S		5.0 W		U	
21. COUNTY DUCHESNE			22. DISTANCE TO NEAREST LEASE LINE (Feet) 1068			23. NUMBER OF ACRES IN DRILLING UNIT 640							
25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 2200			26. PROPOSED DEPTH MD: 12500 TVD: 12500			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE Duchesne City							
27. ELEVATION - GROUND LEVEL 5935			28. BOND NUMBER 400JU0708										
Hole, Casing, and Cement Information													
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight			
SURF	12.25	9.625	0 - 2000	40.0	N-80 LT&C	0.0	Type V	386	2.36	12.0			
							Class G	231	1.3	14.3			
I1	8.75	7	0 - 9300	29.0	HCP-110 LT&C	10.5	Class G	656	1.91	12.5			
							Class G	304	1.64	13.0			
L1	6.125	5	9100 - 12500	18.0	HCP-110 LT&C	12.5	Class G	195	1.52	14.2			
ATTACHMENTS													
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES													
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER						<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN							
<input checked="" type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)						<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER							
<input type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)						<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP							
NAME Maria S. Gomez				TITLE Principal Regulatory Analyst				PHONE 713 997-5038					
SIGNATURE				DATE 12/01/2014				EMAIL maria.gomez@epenergy.com					
API NUMBER ASSIGNED 43013532400000				APPROVAL  Permit Manager									

**EP Energy 4-12C5
Sec. 12, T3S, R5W
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)	4,362' TVD
Green River (GRTN1)	5,071' TVD
Mahogany Bench	5,959' TVD
L. Green River	7,342' TVD
Wasatch	9,202' TVD
T.D. (Permit)	12,500' TVD

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

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
	Green River (GRRV)	4,362' MD / TVD
	Green River (GRTN1)	5,071' MD / TVD
	Mahogany Bench	5,959' MD / TVD
Oil	L. Green River	7,342' MD / TVD
Oil	Wasatch	9,202' MD / TVD

3. Pressure Control Equipment: (Schematic Attached)

A Diverter Stack on structural pipe from 40' MD/TVD to 2,000' MD/TVD. A 10M BOP stack w/ rotating head, spacer spool, 5M annular, flex rams, blind rams & single w/ flex rams used from 2,000' MD/TVD to 9,300' MD/TVD. A 10M BOP stack w/ rotating head, spacer spool, 5M annular, flex rams, blind rams & single w/ flex rams from 9,300' MD/TVD to TD (12,500' MD /TVD).

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

We have pre-set numerous wells around the proposed location and had no issues.

There is 1 SWD well within 2.5 miles of the proposed location but none of them are within 0.5 miles. No pressure communication is expected to be seen, however it is important to be aware of them.

The Blue Bench 1-13C5 SWD is 0.6 miles to the South of the proposed location. It is owned by Intercept Energy & is an active SWD well. It is injecting into the Upper/Middle Green River & Upper-most Lower Green River. The injection interval is from 4106'-7528'. The injection rate is now ~500 bbls/day @ 500-600 psi (I just got off the phone with Keith who is with Intercept Energy). The pressure dissipates to 300 psi while down on maintenance. Using 300 psi, the EMW @ 4106' is 10.01 ppg. We should not see any pressure from this well since it is Due South of the proposed location. We have drilled as close as 0.98 miles to this SWD well (that well is between the SWD & this proposed location) & **on fracture orientation** and have not seen any pressure while drilling. **If any pressure communication is seen, we can easily weight up to 10.1 ppg MW to control the wellbore. Our intermediate cement design will be 12.5 ppg lead & 13 ppg tail. We will also pump a 12 ppg weight spacer. We will also bring the cement up to surface instead of 500' into the shoe.**

OPERATORS MINIMUM SPECIFICATIONS FOR BOPE:

The surface casing will be equipped with a flanged casing head of 5M psi working pressure. An 11" 5M x 11" 10M spool, 11" x 10M psi BOP and 5M psi annular will be nipped up on the surface casing and tested to 250 psi low test / 3,000 psi high test for 10 minutes each prior to drilling out. The surface casing will be tested to 1,000 psi for 30 mins. Intermediate casing will be tested to the greater of 1,500 psi or 0.22 psi/ft. The choke manifold equipment, upper Kelly cock and floor safety valves will be tested to 5M psi. The annular preventer will be tested to 250 psi low test / 4,000 psi high test. The 10M BOP will be installed with rotating head, spacer spool, 5M annular, flex rams, blind rams & single w/ flex rams from surface shoe to TD. The BOPE will be hydraulically operated.

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

Statement on Accumulator System and Location of Hydraulic Controls:

Precision Rig # 406 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 (12,500' MD/TVD)
- 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	9.4 – 10.5
Production	WBM	11.0 – 12.5

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 (12,500' MD/TVD)

Open Hole Logs: Gamma Ray, Neutron-Density, Resistivity, Sonic, from surface casing shoe to TD.

7. Abnormal Conditions:

Maximum anticipated bottomhole pressure calculated at 12,500' TVD equals approximately 8,125 psi. This is calculated based on a 0.65 psi/ft gradient (12.5 ppg mud density at TD).

Maximum anticipated surface pressure equals approximately 5,375 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/ft).

Maximum anticipated surface pressure based on frac gradient at 7" casing shoe is 0.8 psi/ft at 9,300' TVD = 7,440 psi

BOPE and casing design will be based on the lesser of the two MASPs which is 5,375 psi.

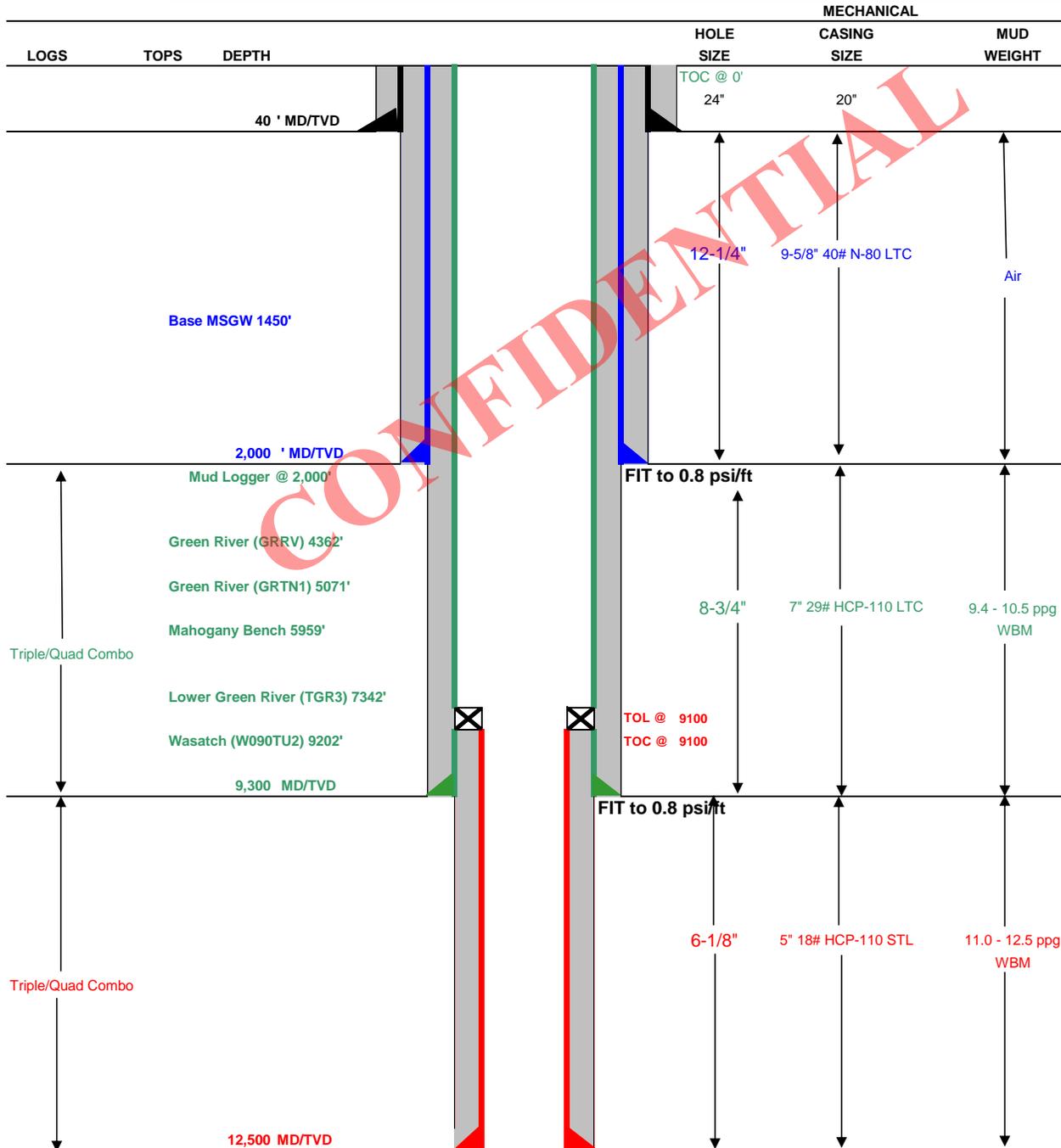
8. **OPERATOR REQUESTS THAT THE PROPOSED WELL BE PLACED ON CONFIDENTIAL STATUS.**

CONFIDENTIAL



Drilling Schematic

Company Name: EP ENERGY	Date: February 3, 2015
Well Name: EP Energy 4-12C5	TD: 12,500
Field, County, State: Altamont, Duchesne, Utah	AFE #: TBD
Surface Location: Sec 12 T3S R5W 1921' FSL 1068' FEL	BHL: Straight Hole
Objective Zone(s): Green River, Wasatch	Elevation: 5934.9
Rig: Precision 406	Spud (est.): TBD
BOPE Info: Diverter System from 40' to 2,000' . 11 10M BOPE w/ rotating head & 5M annular from 2,000' to 9,300' . 11 10M BOPE w/ rotating head, spacer spool, 5M annular, flex rams, blind rams, single w/ flex rams from 9,300' 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	9300	29.00	HCP-110	LTC	11,220	9,750	797
PRODUCTION LINER	5'	9100	12500	18.00	HCP-110	STL	13,940	15,450	341

CEMENT PROGRAM		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	Lead	1,400	EXTENDACEM SYSTEM: Type V Cement + 2% Cal-Seal + 0.35% Versaset + 0.3% D-Air 5000 + 6% Salt + 2% Econolite + 0.125 Poly-E-Flake	386	100%	12.0 ppg	2.36
	Tail	600	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	231	50%	14.3 ppg	1.30
INTERMEDIATE	Lead	6,800	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	656	30%	12.5 ppg	1.91
	Tail	2,500	EXPANDACEM SYSTEM: Class G Cement + 4% Bentonite + 0.25 Poly-E-Flake + 0.1% Halad-413 + 5 lb/sk Silicalite Compacted + 0.15% SA-1015 + 0.3% HR-5	304	30%	13.0 ppg	1.64
PRODUCTION LINER		3,400	EXTENDACEM SYSTEM: Class G Cement + 0.2% Super CBL + 0.3% Halad 344 + 0.3% Halad 413 + 5 lb/sk Silicalite + 20% SSA-1 + 2% Bentonite + 0.7% HR-5	195	25%	14.2 ppg	1.52

FLOAT EQUIPMENT & CENTRALIZERS	
SURFACE	PDC drillable guide shoe, 1 joint casing, PDC drillable float collar. Thread lock all float equipment. Install bow spring centralizers on the bottom 3 joints of casing & every 3rd joint thereafter.
INTERMEDIATE	Halliburton's PDC drillable 10M,P-110 float shoe, 1 joint, PDC drillable 10M, P-110 float collar. Thread lock all float equipment. Maker joint at +/- 7,300'.
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.
EP ENERGY 4-12C5
SECTION 12, T3S, R5W, U.S.B.&M.

PROCEED NORTH ON STATE ROAD 87 FROM THE INTERSECTION OF STATE ROAD 87 WITH US HIGHWAY 40 IN DUCHESNE, UTAH APPROXIMATELY 5.37 MILES TO AN INTERSECTION;

TURN LEFT AND FOLLOW EXISTING GRAVEL ROAD 0.15 MILES TO THE BEGINNING OF THE ACCESS ROAD WHICH IS ON THE SOUTH SIDE OF EXISTING ROAD;

TURN LEFT OFF EXISTING ROAD AND FOLLOW FLAGS WEST THEN SOUTH 0.50 MILES TO THE PROPOSED LOCATION;

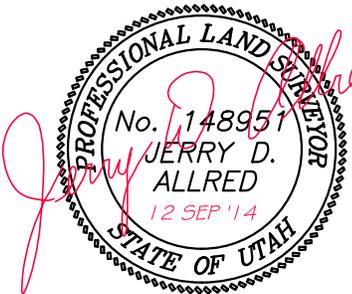
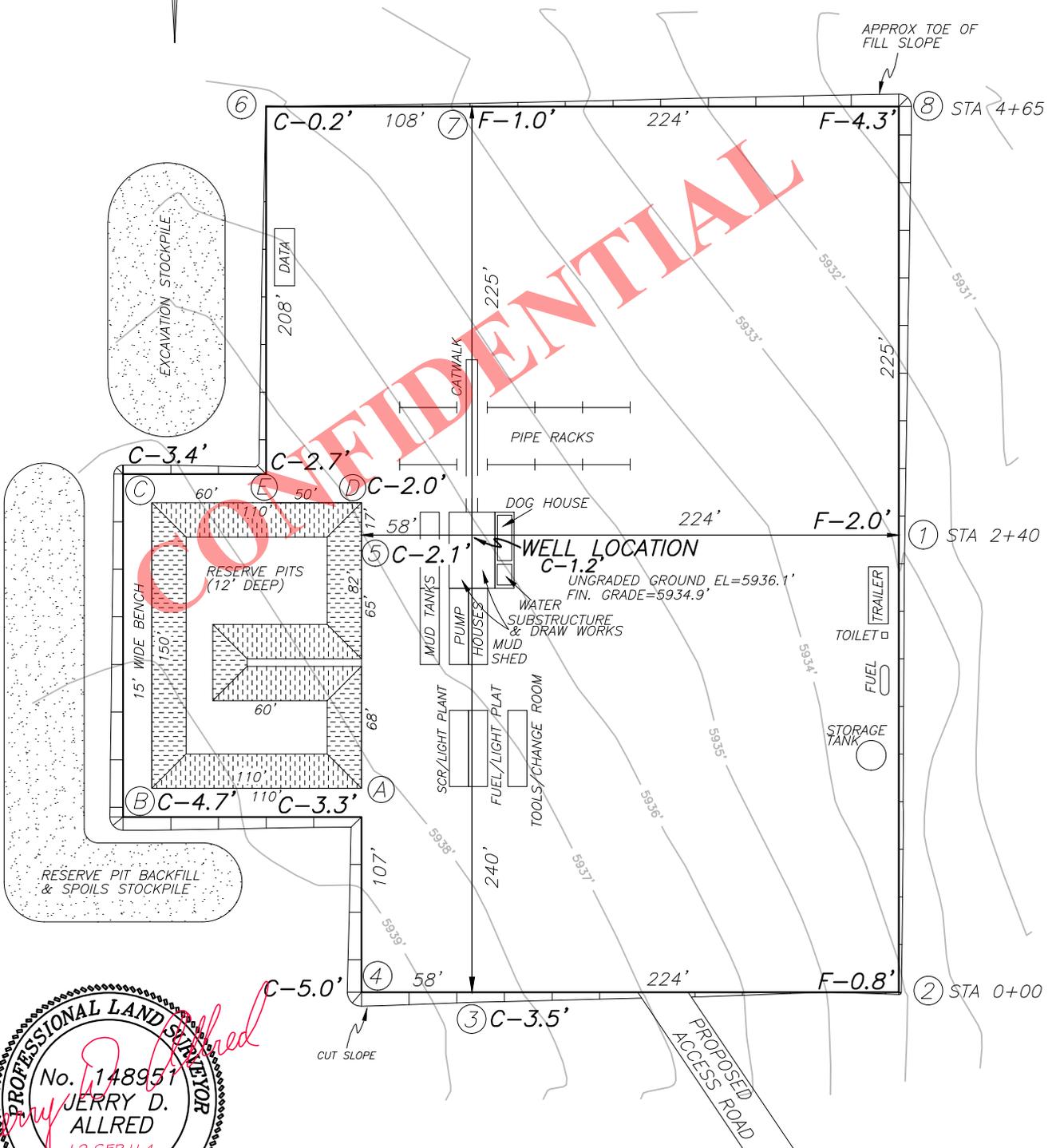
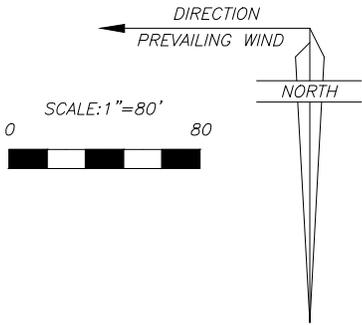
TOTAL DISTANCE FROM DUCHESNE, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 6.02 MILES.

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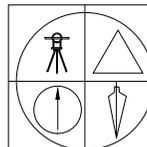
FIGURE #1

LOCATION LAYOUT FOR
EP ENERGY 4-12C5
SECTION 12, T3S, R5W, U.S.B.&M.
1921' FSL, 1068' FEL



REV 12 SEP 2014
30 OCT 2013

01-128-462



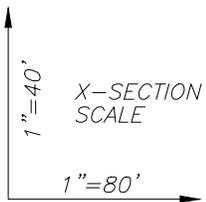
JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS

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

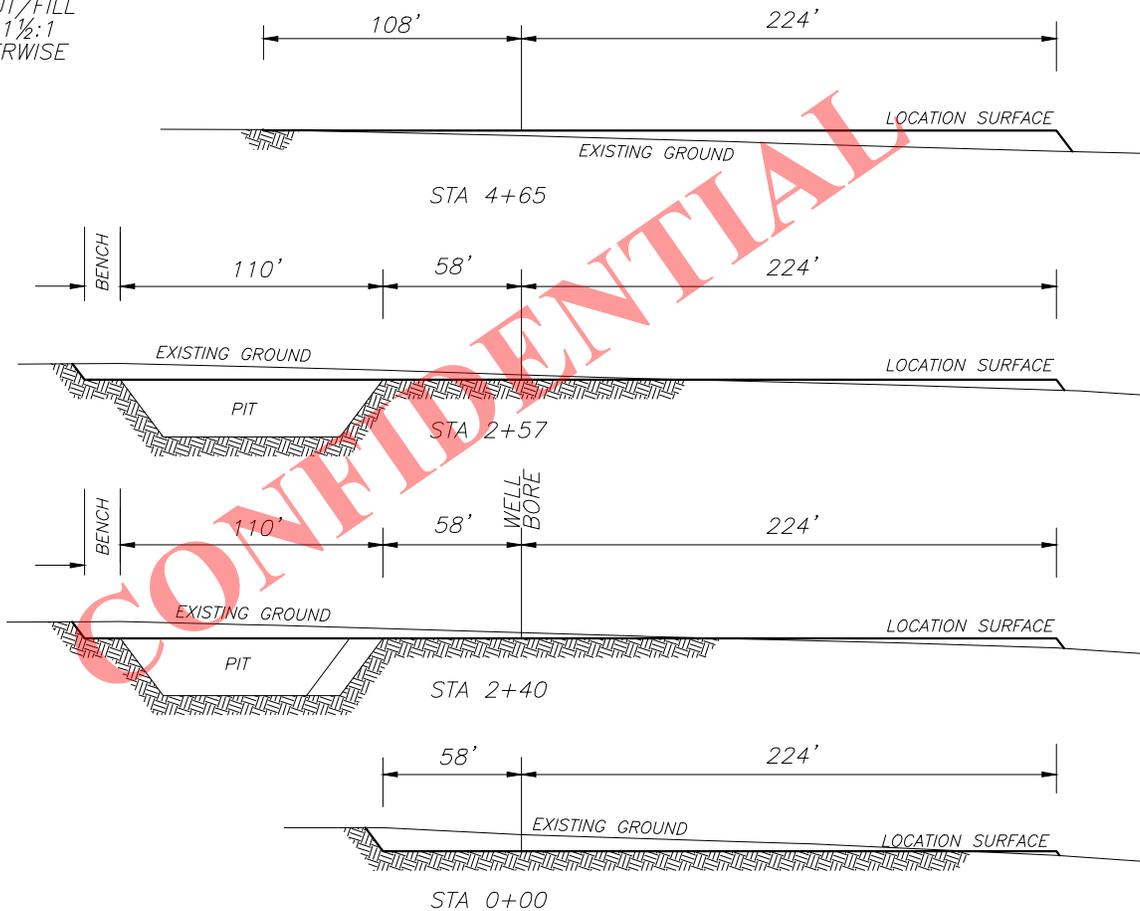
EP ENERGY E&P COMPANY, L.P.

FIGURE #2

LOCATION LAYOUT FOR
 EP ENERGY 4-12C5
 SECTION 12, T3S, R5W, U.S.B.&M.
 1921' FSL, 1068' FEL



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



APPROXIMATE YARDAGES

TOTAL CUT (INCLUDING PIT) = 13,372 CU. YDS.

PIT CUT = 4955 CU. YDS.
 TOPSOIL STRIPPING: (6") = 3150 CU. YDS.
 REMAINING LOCATION CUT = 5267 CU. YDS

TOTAL FILL = 5267 CU. YDS.

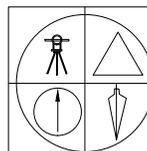
LOCATION SURFACE GRAVEL=1653 CU. YDS. (4" DEEP)

ACCESS ROAD GRAVEL=476 CU. YDS.



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01-128-462



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 SURVEYING CONSULTANTS

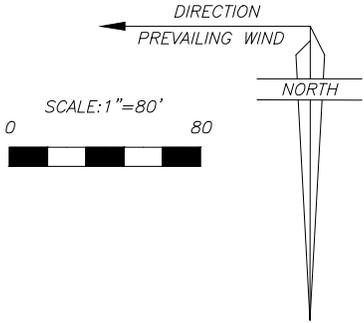
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RECEIVED: February 04, 2015

EP ENERGY E&P COMPANY, L.P.

FIGURE #3

LOCATION LAYOUT FOR
EP ENERGY 4-12C5
SECTION 12, T3S, R5W, U.S.B.&M.
1921' FSL, 1068' FEL

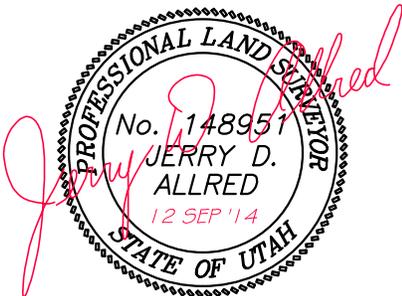
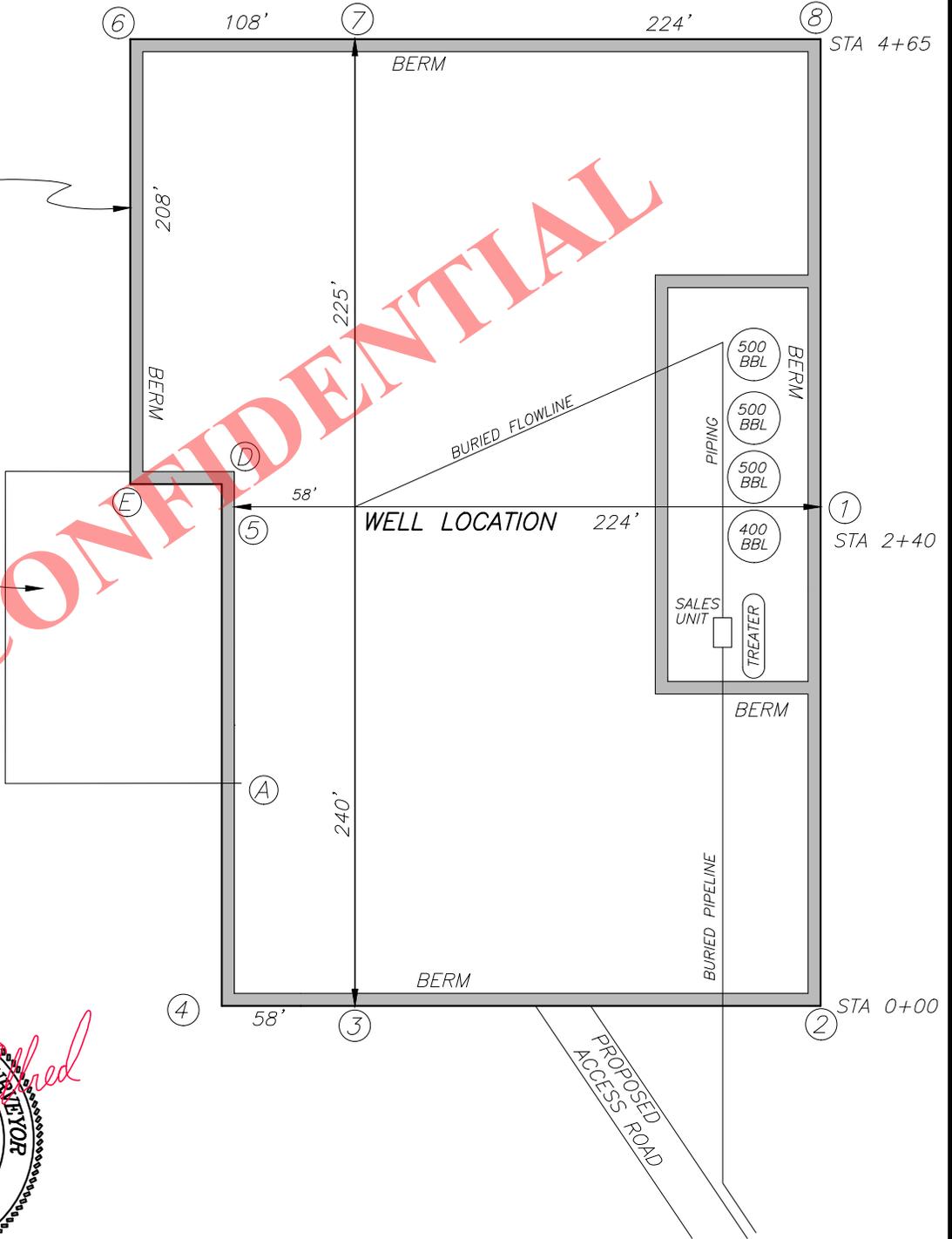


WELL PAD AREA
BERMED AND USED
FOR PRODUCTION

ENTIRE WELL PAD
RECONTOURED BACK
TO AVERAGE SLOPE
FOR FINAL SURFACE
RECLAMATION AFTER
PRODUCTION

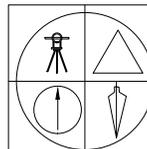
PIT AREA REGRADED
BACK TO SLOPE FOR
INTERIM RECLAMATION

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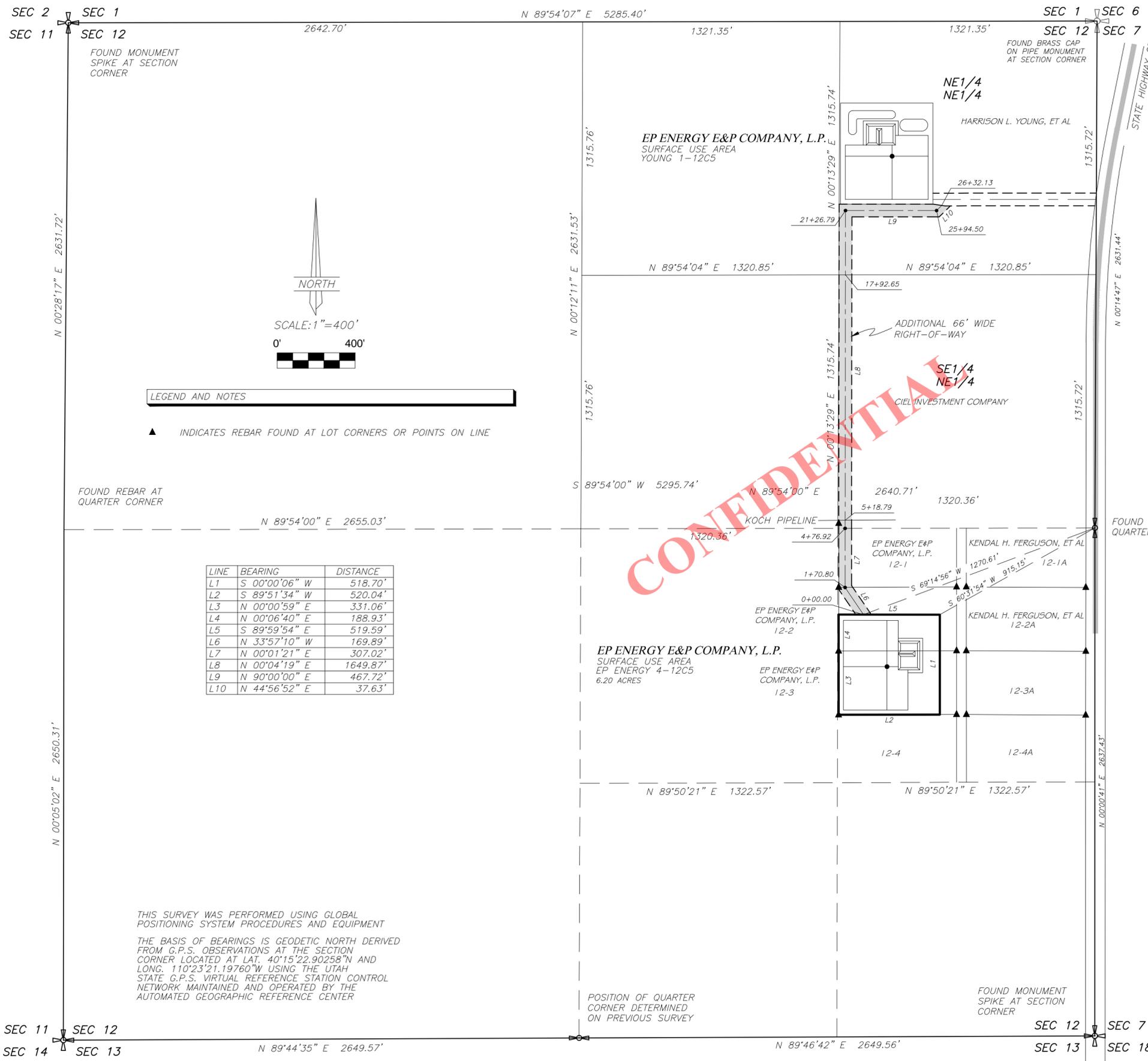
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LOCATION USE AREA AND
RIGHT-OF-WAY AND SURFACE TITLE SURVEY FOR
EP ENERGY E&P COMPANY, L.P.
EP ENERGY 4-12C5
SECTION 12, T3S, R5W, U.S.B.&M.
DUCHESNE COUNTY, UTAH



USE AREA BOUNDARY DESCRIPTION
Commencing at the East Quarter Corner of Section 12, Township 3 South, Range 5 West of the Uintah Special Base and Meridian;
Thence South 60°31'54" West 915.15 feet to the TRUE POINT OF BEGINNING;
Thence South 00°00'06" West 518.70 feet;
Thence South 89°51'34" West 520.04 feet;
Thence North 00°00'59" East 331.06 feet;
Thence North 00°06'40" East 188.93 feet;
Thence South 89°59'54" East 519.59 feet to the TRUE POINT OF BEGINNING, containing 6.20 acres.

RIGHT-OF-WAY DESCRIPTION
A 66 feet wide right-of-way over portions of Section 12, Township 3 South, Range 5 West of the Uintah Special Base and Meridian, the centerline of which is further described as follows:
Commencing at the West Quarter Corner of said Section 12;
Thence South 69°14'56" West 1270.61 feet to the TRUE POINT OF BEGINNING, said point being on the North line of the EP Energy E&P Company, L.P. well location use area boundary;
Thence North 33°57'10" West 169.89 feet;
Thence North 00°01'21" East 307.02 feet;
Thence North 00°04'19" East 1649.87 feet;
Thence North 90°00'00" East 467.72 feet;
Thence North 44°56'52" East 37.63 feet to an existing road. Said right-of-way being 2632.13 feet in length with the sidelines being shortened or elongated to intersect said use area boundary and said road lines.

LINE	BEARING	DISTANCE
L1	S 00°00'06" W	518.70'
L2	S 89°51'34" W	520.04'
L3	N 00°00'59" E	331.06'
L4	N 00°06'40" E	188.93'
L5	S 89°59'54" E	519.59'
L6	N 33°57'10" W	169.89'
L7	N 00°01'21" E	307.02'
L8	N 00°04'19" E	1649.87'
L9	N 90°00'00" E	467.72'
L10	N 44°56'52" E	37.63'

LEGEND AND NOTES

▲ INDICATES REBAR FOUND AT LOT CORNERS OR POINTS ON LINE

FOUND REBAR AT QUARTER CORNER

FOUND PK NAIL AT QUARTER CORNER

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

POSITION OF QUARTER CORNER DETERMINED ON PREVIOUS SURVEY

FOUND MONUMENT SPIKE AT SECTION CORNER

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 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.



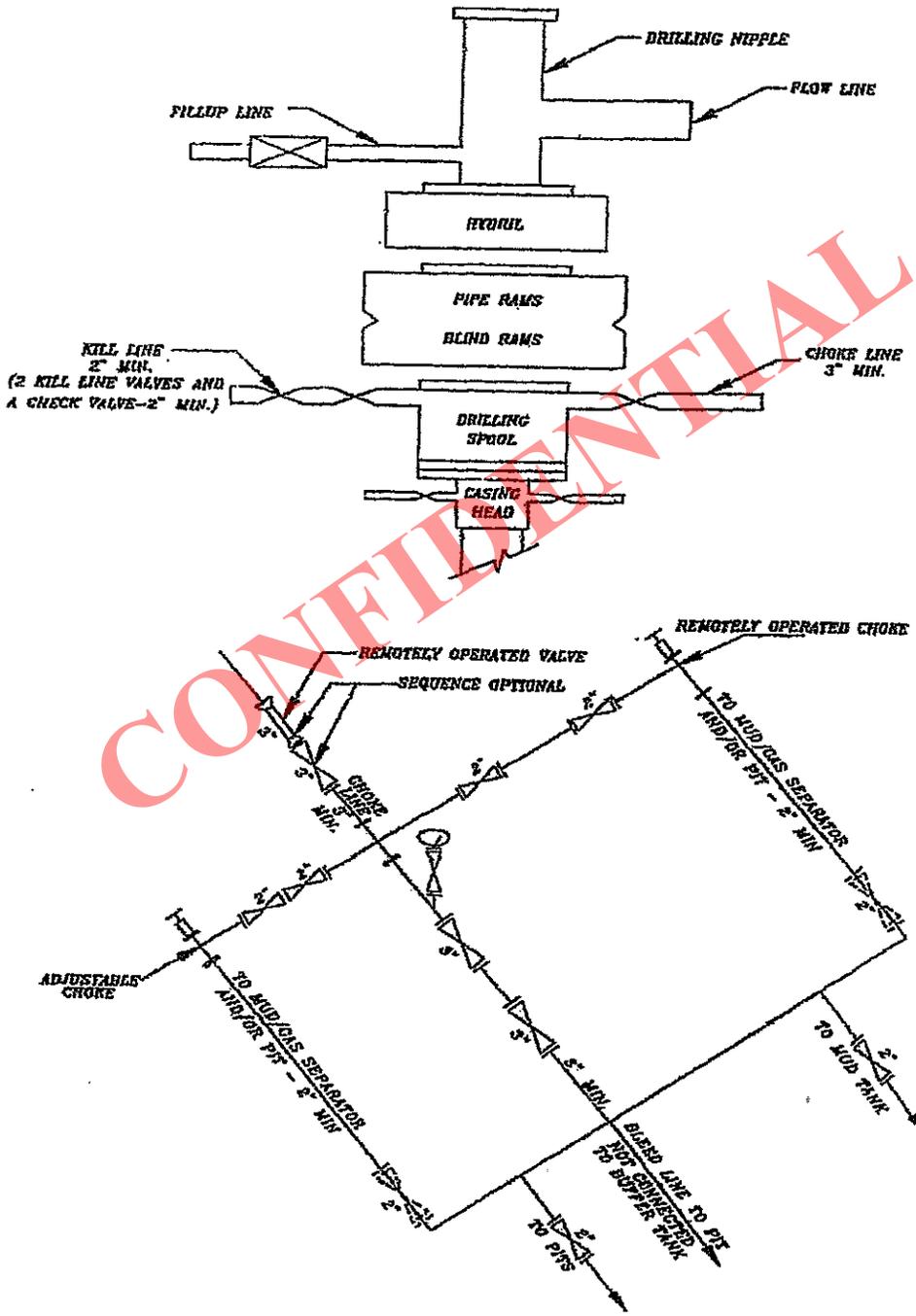
Jerry D. Allred, Professional Land Surveyor, Certificate 148951 (Utah)

COUNTY SURVEYOR'S FILE NO.

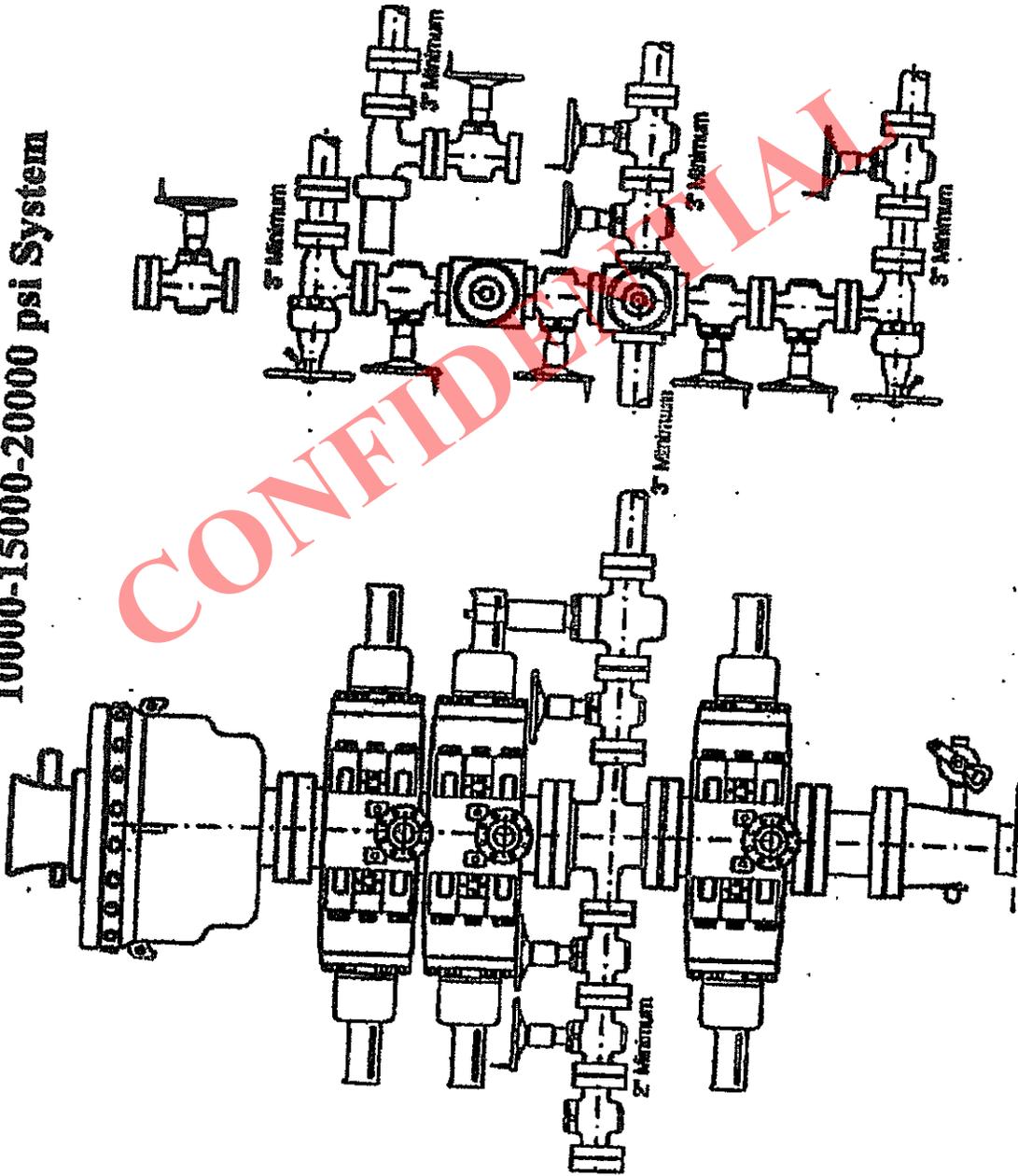
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REV 12 SEP 2014
26 DEC 2013 01-128-462

5M BOP STACK and CHOKE MANIFOLD SYSTEM



10000-15000-20000 psi System

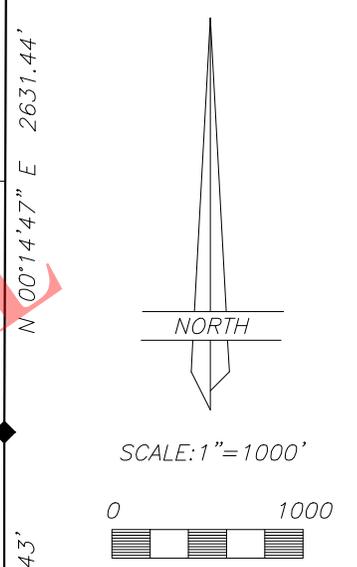
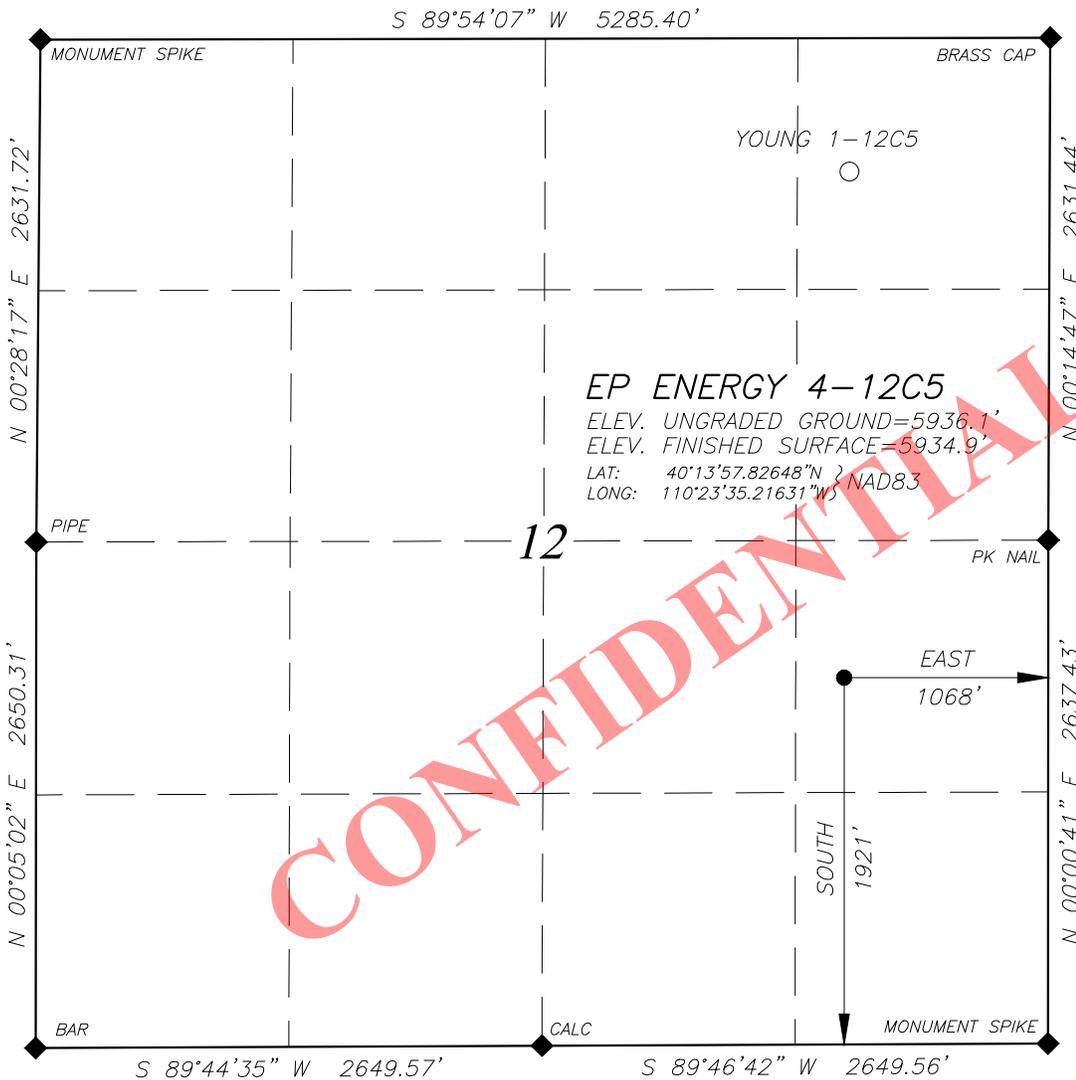


EP ENERGY E&P COMPANY, L.P.

WELL LOCATION

EP ENERGY 4-12C5

LOCATED IN THE NE¼ OF THE SE¼ OF SECTION 12, T3S, R5W, U.S.B.&M. DUCHESNE COUNTY, UTAH



NOTE:
 NAD27 VALUES FOR WELL POSITION:
 LAT: 40.23277317° N
 LONG: 110.39240438° W

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LEGEND AND NOTES

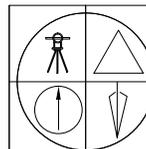
- ◆ CORNER MONUMENTS FOUND AND USED BY THIS SURVEY
 THE GENERAL LAND OFFICE (G.L.O.) PLAT WAS USED FOR REFERENCE AND CALCULATIONS AS WAS THE U.S.G.S. MAP
 THIS SURVEY WAS PERFORMED USING GLOBAL POSITIONING SYSTEM PROCEDURES AND EQUIPMENT
 THE BASIS OF BEARINGS IS GEODETIC NORTH DERIVED FROM G.P.S. OBSERVATIONS AT 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
 BASIS OF ELEVATIONS: NAVD 88 DATUM USING THE UTAH REFERENCE NETWORK CONTROL SYSTEM

SURVEYOR'S CERTIFICATE

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



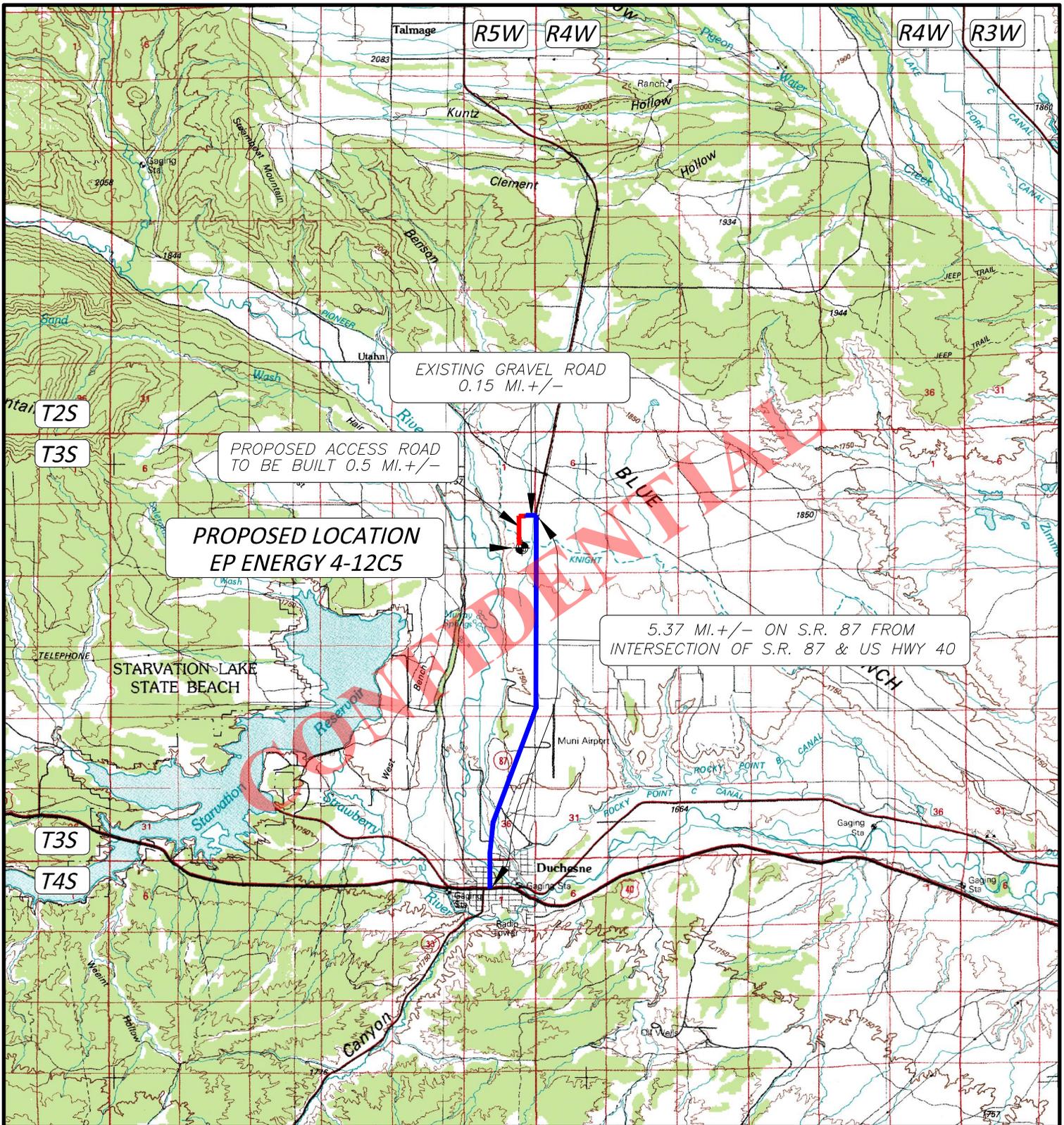
JERRY D. ALLRED, REGISTERED LAND SURVEYOR, CERTIFICATE NO. 148951 (UTAH)



JERRY D. ALLRED & ASSOCIATES
 SURVEYING CONSULTANTS

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

REV 12 SEP 2014
 29 OCT 2013 01-128-462



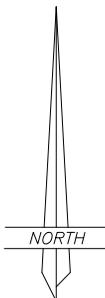
LEGEND:

PROPOSED WELL LOCATION

01-128-462

JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS

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



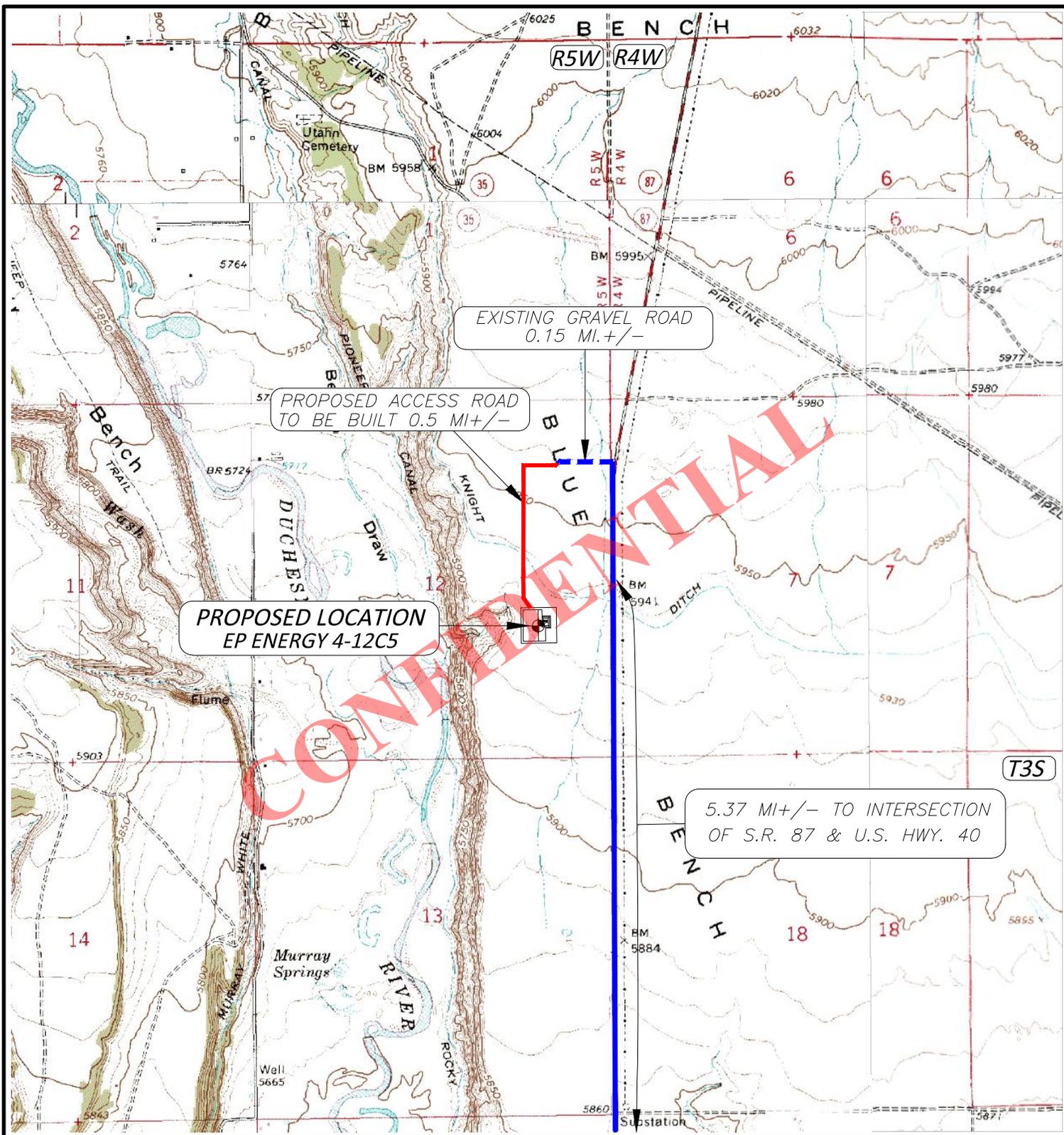
EP ENERGY E&P COMPANY, L.P.

EP ENERGY 4-12C5
SECTION 12, T3S, R5W, U.S.B.&M.

1921' FSL 1068' FEL

TOPOGRAPHIC MAP "A"

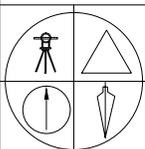
SCALE: 1"=10,000'
REV 17 SEP 2014



LEGEND:

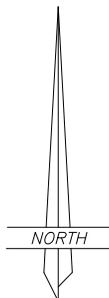
- PROPOSED WELL LOCATION
- PROPOSED ACCESS ROAD
- EXISTING GRAVEL ROAD
- EXISTING PAVED ROAD

01-128-462



JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS

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

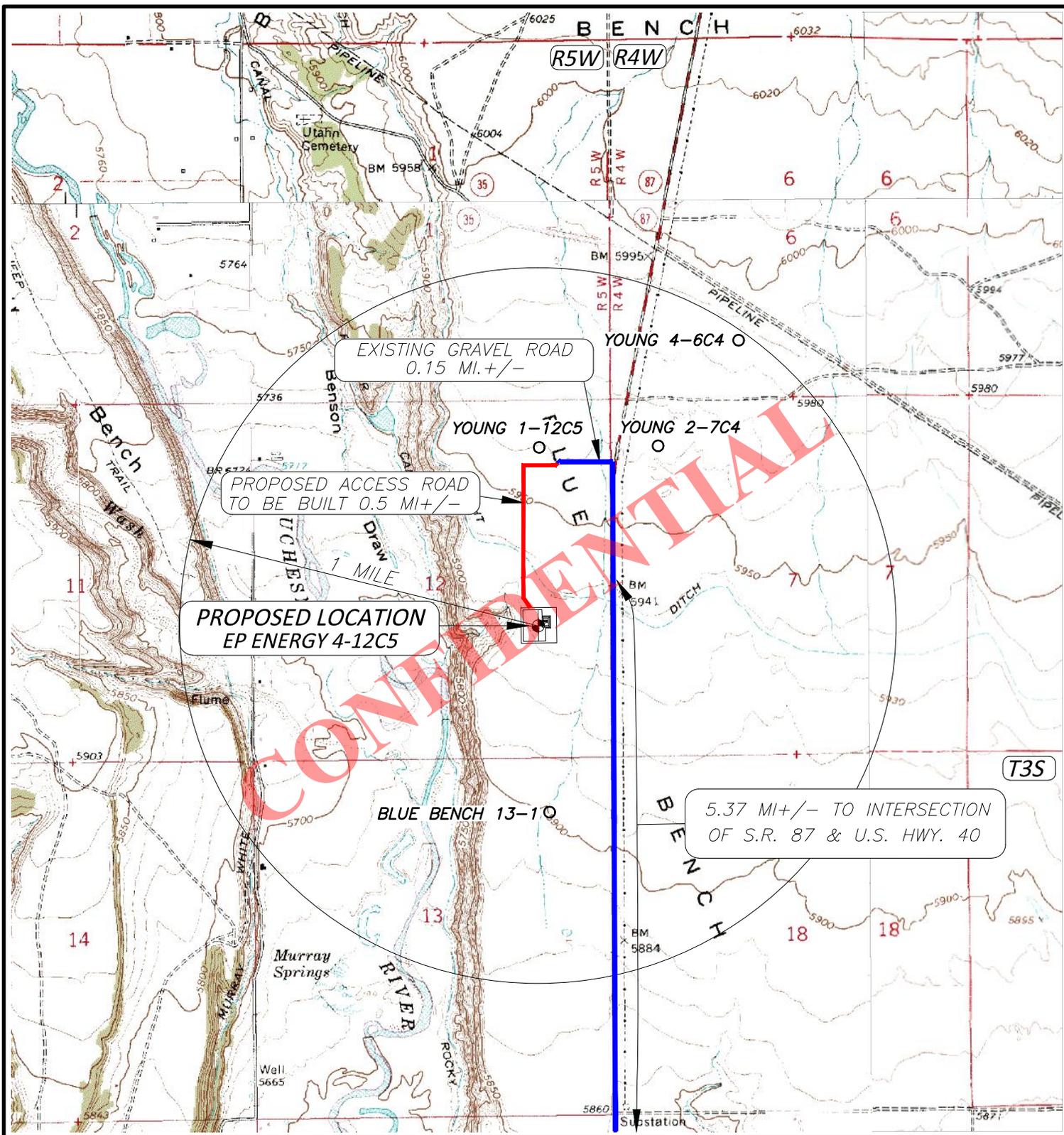


EP ENERGY E&P COMPANY, L.P.

EP ENERGY 4-12C5
SECTION 12, T3S, R5W, U.S.B.&M.
1921' FSL 1068' FEL

TOPOGRAPHIC MAP "B"

SCALE: 1"=2000'
REV 17 SEP 2014



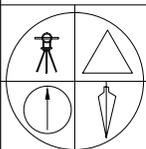
LEGEND:

⊕ PROPOSED WELL LOCATION

2-25C6

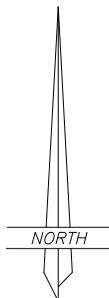
● ⊙ + ⊕ ○ ↗ ↘ ↙ ↚

01-128-462



JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS

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



EP ENERGY E&P COMPANY, L.P.

EP ENERGY 4-12C5
SECTION 12, T3S, R5W, U.S.B.&M.
1921' FSL 1068' FEL

TOPOGRAPHIC MAP "C"

SCALE; 1"=2000'
REV 17 SEP 2014

**AFFIDAVIT OF SURFACE USE AGREEMENT
AND RIGHT-OF-WAY AGREEMENT**

This **Affidavit of Surface Use Agreement and Right-of-Way Agreement** ("Affidavit"), dated effective this 25th day of September, 2014 ("Effective Date"), is being made by **EP Energy E&P Company, L.P.** ("EP Energy"), a Delaware limited partnership, whose address is 1001 Louisiana Street, Suite 2400, Houston, Texas 77002, and herein represented by **John DeWitt, Jr.** ("Affiant"), being first duly sworn upon oath, who hereby deposes and states as follows:

1. Affiant is over eighteen (18) years of age and is currently employed by EP Energy as a Senior Landman.

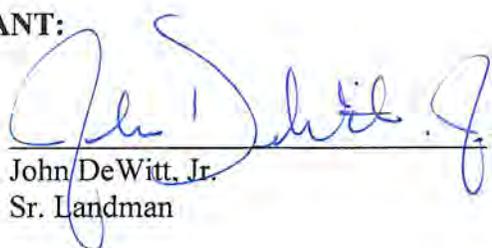
2. EP Energy is the operator of the proposed EP Energy 4-12C5 (the "Well") which is located in the Northeast Quarter of the Southeast Quarter (NE¹/₄SE¹/₄) of Section 12, Township 3 South, Range 5 West, U.S.M., Duchesne County, Utah (the "Drillsite Location"). The surface owner(s) of the Drillsite Location is EP Energy E&P Company, L.P. (the "Surface Owner"), a Delaware limited partnership, whose mailing address is 1001 Louisiana Street, Suite 2400, Houston, Texas 77002, and herein represented by John DeWitt, Jr. and whose telephone number is (713)-997-2620.

3. EP Energy and the Surface Owner have entered into and executed that certain *Surface Use Agreement*, dated effective September 24th, 2014, to cover any and all injuries or damages of every character and description sustained by the Surface Owner or Surface Owner's property as a result of EP Energy's operations including, but not limited to, construction of the Drillsite Location and drilling the Well.

4. EP Energy and the Surface Owner have also entered and executed that certain *Right-of-Way Agreement*, dated effective September 24th, 2014, to cover any and all injuries or damages of every character and description sustained by the Surface Owner or Surface Owner's property as a result of EP Energy's operations including, but not limited to, construction and use of an access road, pipeline and/or power line corridor across portions of the West Half of the Northeast Quarter of the Southeast Quarter (W¹/₂NE¹/₄SE¹/₄) of Section 12, Township 3 South, Range 5 West, U.S.M., Duchesne County, Utah.

FURTHER AFFIANT SAYETH NOT.

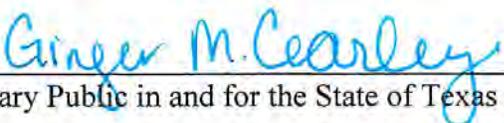
AFFIANT:

By: 
Name: John DeWitt, Jr.
Title: Sr. Landman

STATE OF TEXAS §
 §
COUNTY OF HARRIS §

Sworn to and subscribed before me on this 25th day of September, 2014, by **John DeWitt, Jr.** as Sr. Landman for **EP Energy E&P Company, L.P.**, a Delaware limited partnership, on behalf of said limited partnership.




Notary Public in and for the State of Texas

[SEAL]

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 .50 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 .50 miles will parallel the proposed access road. The corridor will contain one 4 inch gas line and one 2 inch gas line and one 2 inch Salt Water disposal line. Rehabilitation of unneeded, previously disturbed areas will consist of backfilling and contouring the reserve pit area; backsloping and contouring all cut and fill slopes. These areas will be reseeded. Refer to plans for reclamation of surface for details.
- Upgrade and maintain access roads and drainage control structures (e.g., culverts, drainage dips, ditching, etc.) as necessary to prevent soil erosion and accommodate safe, year-round traffic.

6. **Construction Materials:**

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

7. **Methods For Handling Waste Disposal:**

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

8. **Ancillary Facilities:**

- There will be no ancillary facilities associated with this project.

9. Surface Reclamation Plans:

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

- Seed will be planted after September 15th, and prior to ground frost, or seed will be planted after the frost has left and before May 15th. Slopes to steep for machinery will be hand broadcast and raked with twice the specified amount of seed.
 1. The construction program and design are on the attached cut, fill and cross sectional diagrams.
 2. Prior to construction, all topsoil will be removed from the entire site and stockpiled. Topsoil for this site is the first 6 inches of soil materials.
 3. After the location has been reshaped and after redistributing the topsoil, the operator will rip and scarify the drilling platform and access road on the contour, to a depth of at least 12 inches.
- Rehabilitation will begin upon the completion of the drilling. Complete rehabilitation will depend on weather conditions and the amount of time required to dry the reserve pit.
 1. All rehabilitation work including seeding will be completed as soon as weather and the reserve pit conditions are appropriate.
 2. Landowner will be contacted for rehabilitation requirements.

10. Surface Ownership:

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

Other Information:

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

• **Operator and Contact Persons:**

Construction and Reclamation:

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

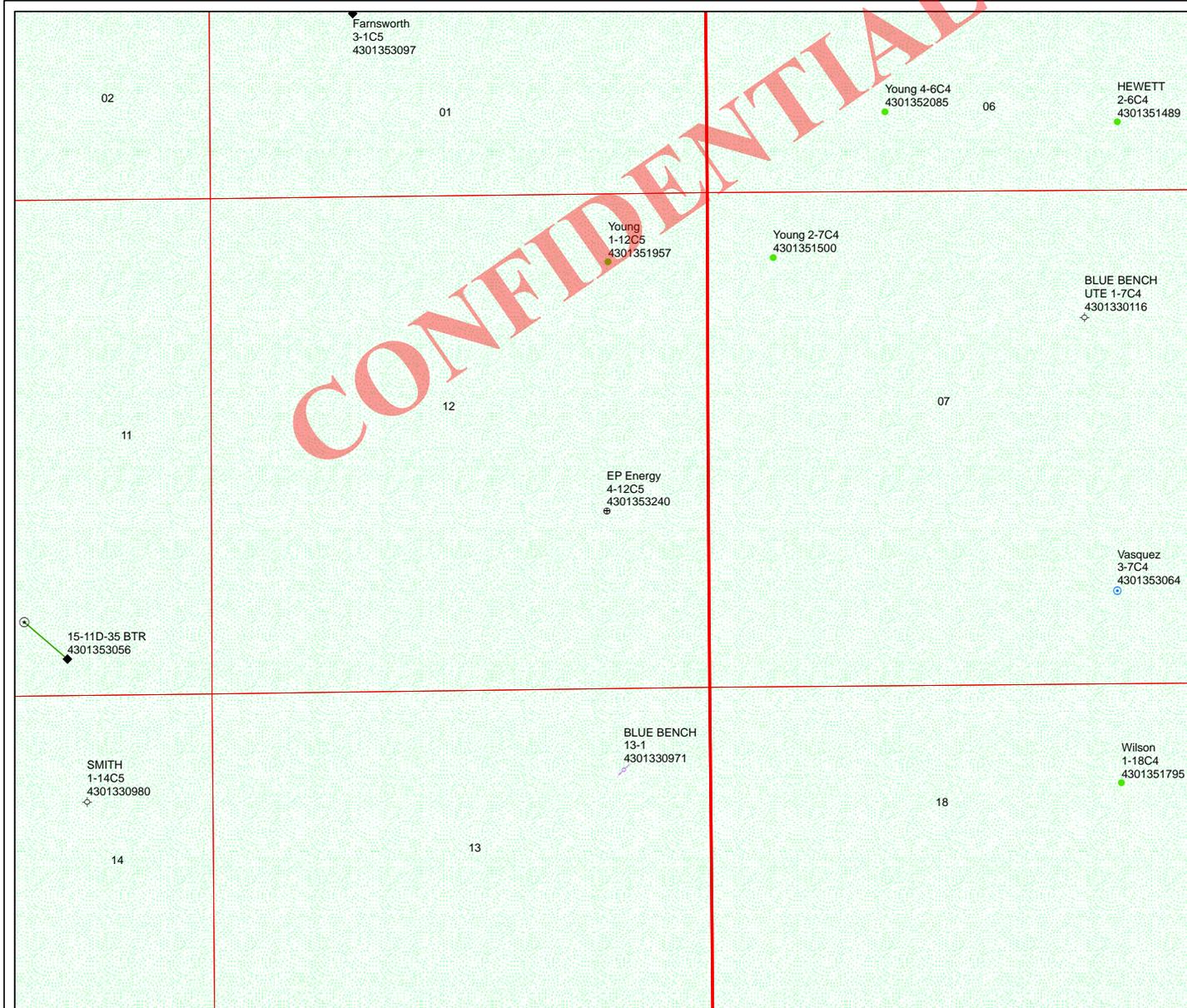
Regarding This APD

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

Drilling

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

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API Number: 4301353240

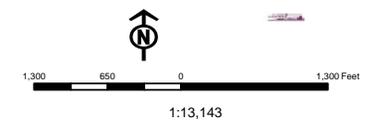
Well Name: EP Energy 4-12C5

Township: T03.0S Range: R05.0W Section: 12 Meridian: U

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

Map Prepared: 12/4/2014
Map Produced by Diana Mason

Wells Query		Units	
Status		STATUS	
◆	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		
⊙	WDW - Water Disposal		
⊚	WW - Water Injection Well		
●	WSW - Water Supply Well		
Fields		STATUS	
▨		Unknown	
▨		ABANDONED	
▨		ACTIVE	
▨		COMBINED	
▨		INACTIVE	
▨		STORAGE	
▨		TERMINATED	



Well Name	EP ENERGY E&P COMPANY, L.P. EP Energy 4-12C5 43013532400000			
String	Surf	I1	L1	
Casing Size(")	9.625	7.000	5.000	
Setting Depth (TVD)	2000	9300	12500	
Previous Shoe Setting Depth (TVD)	0	2000	9300	
Max Mud Weight (ppg)	8.8	10.5	12.5	
BOPE Proposed (psi)	5000	10000	10000	
Casing Internal Yield (psi)	5750	11220	13940	
Operators Max Anticipated Pressure (psi)	8125		12.5	

Calculations	Surf String	9.625	"
Max BHP (psi)	.052*Setting Depth*MW=	915	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	675	YES <input type="checkbox"/> 5M csg head/flange
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	475	YES <input type="checkbox"/> OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	475	NO <input type="checkbox"/> OK <input type="checkbox"/>
Required Casing/BOPE Test Pressure=		2000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi *Assumes 1psi/ft frac gradient

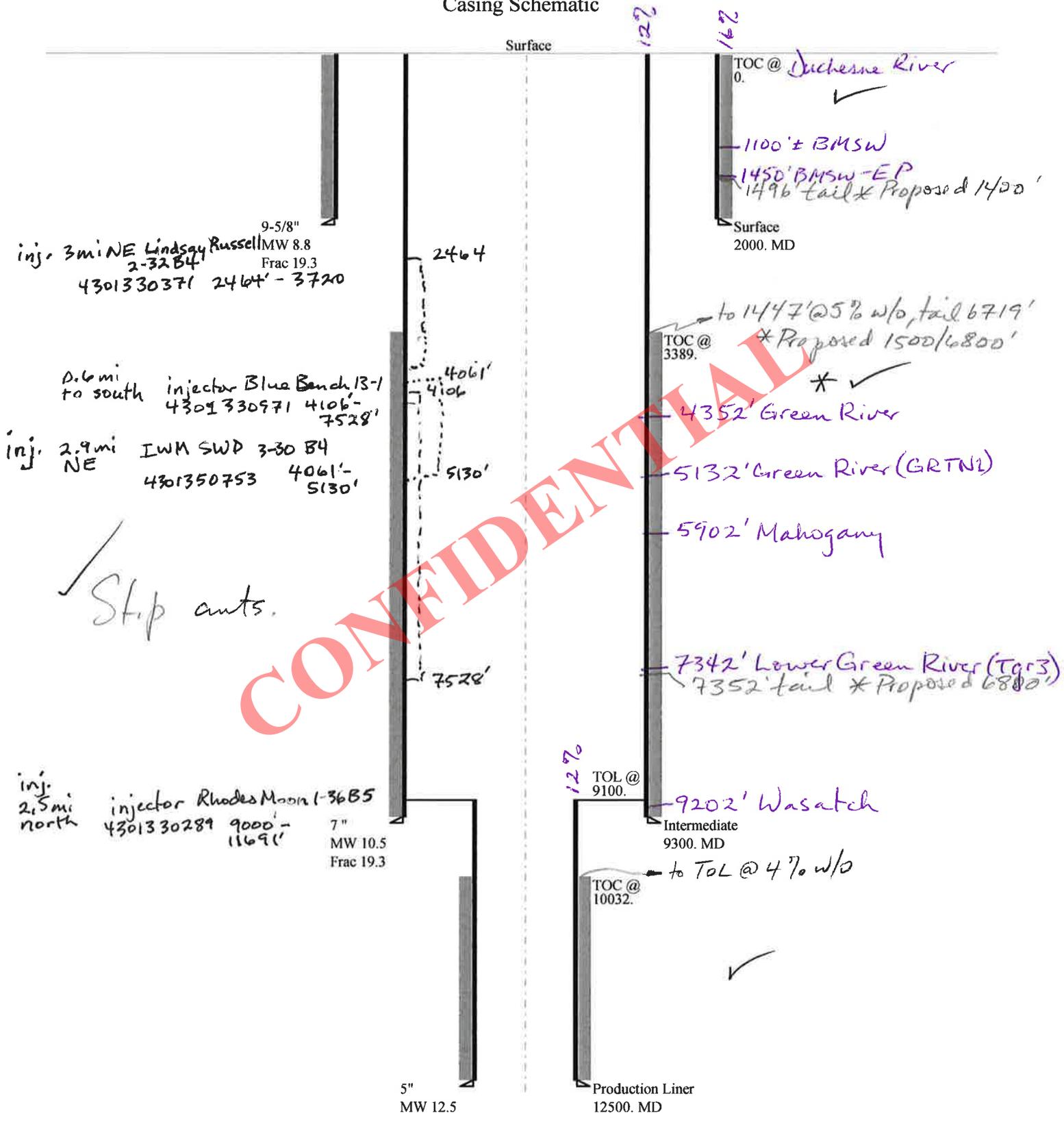
Calculations	I1 String	7.000	"
Max BHP (psi)	.052*Setting Depth*MW=	5078	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	3962	YES <input type="checkbox"/> 10M BOPE w/rotating head, 5M annular, spacer spool
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	3032	YES <input type="checkbox"/> dbl rams, single w/flex rams
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	3472	NO <input type="checkbox"/> OK <input type="checkbox"/>
Required Casing/BOPE Test Pressure=		7854	psi
*Max Pressure Allowed @ Previous Casing Shoe=		2000	psi *Assumes 1psi/ft frac gradient

Calculations	L1 String	5.000	"
Max BHP (psi)	.052*Setting Depth*MW=	8125	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	6625	YES <input type="checkbox"/> 10M BOPE w/rotating head, spacer spool, 5M annular,
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	5375	YES <input type="checkbox"/> dbl rams, single w/flex rams
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	7421	YES <input type="checkbox"/> OK <input type="checkbox"/>
Required Casing/BOPE Test Pressure=		9758	psi
*Max Pressure Allowed @ Previous Casing Shoe=		9300	psi *Assumes 1psi/ft frac gradient

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

43013532400000 E P Energy 4-12C5

Casing Schematic



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✓ Stop cuts.

Well name:	43013532400000 E P Energy 4-12C5		
Operator:	EP ENERGY E&P COMPANY, LP.		
String type:	Surface	Project ID:	43-013-53240
Location:	DUCHESNE COUNTY		

Design parameters:

Collapse

Mud weight: 8.800 ppg
 Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

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

Cement top: Surface

Burst

Max anticipated surface pressure: 1,560 psi
 Internal gradient: 0.220 psi/ft
 Calculated BHP 2,000 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
 8 Round LTC: 1.70 (J)
 Buttruss: 1.60 (J)
 Premium: 1.50 (J)
 Body yield: 1.50 (B)

Tension is based on buoyed weight.
 Neutral point: 1,738 ft

Non-directional string.

Re subsequent strings:

Next setting depth: 9,300 ft
 Next mud weight: 10.500 ppg
 Next setting BHP: 5,073 psi
 Fracture mud wt: 19.250 ppg
 Fracture depth: 2,000 ft
 Injection pressure: 2,000 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	2000	9.625	40.00	N-80	LT&C	2000	2000	8.75	25450
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	914	3090	3.380	2000	5750	2.87	69.5	737	10.60 J

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

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

Date: January 29, 2015
 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 2000 ft, a mud weight of 8.8 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:	43013532400000 E P Energy 4-12C5		
Operator:	EP ENERGY E&P COMPANY, LP.		
String type:	Intermediate	Project ID:	43-013-53240
Location:	DUCHESNE COUNTY		

Design parameters:

Collapse

Mud weight: 10.500 ppg
 Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
 Surface temperature: 74 °F
 Bottom hole temperature: 204 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 1,000 ft

Cement top: 3,389 ft

Burst

Max anticipated surface pressure: 5,367 psi
 Internal gradient: 0.220 psi/ft
 Calculated BHP 7,413 psi

No backup mud specified.

Tension:

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

Tension is based on buoyed weight.
 Neutral point: 7,822 ft

Non-directional string.

Re subsequent strings:

Next setting depth: 12,500 ft
 Next mud weight: 12.500 ppg
 Next setting BHP: 8,117 psi
 Fracture mud wt: 19.250 ppg
 Fracture depth: 9,300 ft
 Injection pressure: 9,300 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	9300	7	29.00	HCP-110	LT&C	9300	9300	6.059	105021
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	5073	9200	1.814	7413	11220	1.51	226.8	797	3.51 J

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

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

Date: January 29, 2015
 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 9300 ft, a mud weight of 10.5 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:	43013532400000 E P Energy 4-12C5		
Operator:	EP ENERGY E&P COMPANY, LP.		
String type:	Production Liner	Project ID:	43-013-53240
Location:	DUCHESNE COUNTY		

Design parameters:

Collapse

Mud weight: 12.500 ppg
 Design is based on evacuated pipe.

Burst

Max anticipated surface pressure: 5,367 psi
 Internal gradient: 0.220 psi/ft
 Calculated BHP: 8,117 psi

No backup mud specified.

Minimum design factors:

Collapse:

Design factor: 1.125

Burst:

Design factor: 1.00

Tension:

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

Tension is based on buoyed weight.
 Neutral point: 11,853 ft

Environment:

H2S considered? No
 Surface temperature: 74 °F
 Bottom hole temperature: 249 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 1,000 ft

Cement top: 10,032 ft

Liner top: 9,100 ft

Non-directional string.

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	3400	5	18.00	HCP-110	ST-L	12500	12500	4.151	269280
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	8117	15360	1.892	8117	13940	1.72	49.6	341	6.88 J

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

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

Date: January 29, 2015
 Salt Lake City, Utah

Remarks:

For this liner string, the top is rounded to the nearest 100 ft. Collapse is based on a vertical depth of 12500 ft, a mud weight of 12.5 ppg. The Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator EP ENERGY E&P COMPANY, L.P.
Well Name EP Energy 4-12C5
API Number 43013532400000 **APD No** 10607 **Field/Unit** ALTAMONT
Location: 1/4,1/4 NESE **Sec** 12 **Tw** 3.0S **Rng** 5.0W 1921 FSL 1068 FEL
GPS Coord (UTM) 551626 4453766 **Surface Owner** EP Energy E&P Company, L.P.

Participants

Kelsey Carter, Randy Fredrick (EP Energy lands and construction); Dennis Ingram (DOGM)

Regional/Local Setting & Topography

The EP Energy 4-12C5 well is proposed in northeastern Utah, approximately 5.37 miles north of Duchesne on US Highway 87, or the western portion of Blue Bench and overlooking the Duchesne River Drainage. Blue Bench is found north, east and south of this proposed well site. To the west, the surface drops off some two-hundred and fifty feet into a southerly flowing, Duchesne River Drainage system. Most of the surface use along the river is irrigated crop lands. The immediate surface at the well site is nearly flat, but slopes gently in a southwesterly direction. This land is open, sagebrush, rangelands that may be high value mule deer winter range, as a small herd of deer were seen leaving this bench toward the Duchesne River. US Highway 87 runs north/south and is located approximately 0.25 miles east of this staking. Several hundred feet to the west of corner number 1 a draw drains storm waters to the west into the Duchesne River corridor.

Surface Use Plan

Current Surface Use
Wildlfe Habitat

New Road Miles	Well Pad	Src Const Material	Surface Formation
0.5	Width 407 Length 465	Onsite	UNTA

Ancillary Facilities N
Surface owned by operator

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

Open sagebrush lands, some bunch grass, prickly pear cactus;

Mule deer, coyote, rabbit, fox, horned toad, prairie dog, birds native to region, hawk and eagle potential

Soil Type and Characteristics

Fine-grained, reddish in color, sandy loam with some clays present.

Erosion Issues N

Sedimentation Issues N**Site Stability Issues** N**Drainage Diversion Required?** N**Berm Required?** Y**Erosion Sedimentation Control Required?** N**Paleo Survey Run?** N **Paleo Potential Observed?** N **Cultural Survey Run?** N **Cultural Resources?** N**Reserve Pit**

Site-Specific Factors	Site Ranking	
Distance to Groundwater (feet)	>200	0
Distance to Surface Water (feet)	>1000	0
Dist. Nearest Municipal Well (ft)	>5280	0
Distance to Other Wells (feet)	>1320	0
Native Soil Type	High permeability	20
Fluid Type	Fresh Water	5
Drill Cuttings	Normal Rock	0
Annual Precipitation (inches)		0
Affected Populations		
Presence Nearby Utility Conduits	Present	15
	Final Score	40 1 Sensitivity Level

Characteristics / Requirements

A reserve pit has been staked off the east side of the location in cut measuring 110' wide by 150' long by 12' deep

Closed Loop Mud Required? **Liner Required?** Y **Liner Thickness** 20 **Pit Underlayment Required?**

Other Observations / Comments

Surface slopes to the southwest, no drainage issues, surface owned or purchased by EP Energy,

Dennis Ingram
Evaluator

12/4/2014
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
10607	43013532400000	LOCKED	OW	P	No
Operator	EP ENERGY E&P COMPANY, L.P.		Surface Owner-APD	EP Energy E&P Company, L.P.	
Well Name	EP Energy 4-12C5		Unit		
Field	ALTAMONT		Type of Work	DRILL	
Location	NESE 12 3S 5W U 1921 FSL (UTM) 551625E 4453759N		1068 FEL	GPS Coord	

Geologic Statement of Basis

EP proposes to set 40 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 1,100 feet. A search of Division of Water Rights records indicates that there are over 27 water wells within a 10,000 foot radius of the center of Section 12. Wells range between 35 and 500 feet in depth and are used for irrigation, stock watering, domestic, oil exploration and municipal. The deeper wells probably produce from the Duchesne River Formation with the shallower wells producing from alluvial sediments along the Duchesne River. The Duchesne River Formation is made up of sandstones with interbedded shales and is the most prominent fresh water aquifer in the area. The proposed casing and cement program should adequately protect ground water in this area. The surface casing should probably be shortened to more closely match the base of the moderately saline ground water.

Brad Hill
APD Evaluator

1/15/2015
Date / Time

Surface Statement of Basis

The surface of this location slopes gently to the southwest, having 5.0' of cut at the northeastern corner and 4.3' of fill at the southwestern corner. There wasn't any drainage issues found along the surface of this proposed well pad. The operator has proposed a reserve pit off the east side of the location which will need lined with a 20 mil synthetic liner; this pit shall also be fenced to prevent mule deer and wildlife from entering same. Figure number 3 on the well site layout shows placing the production tanks along the western side of the well pad. The operator should berm both the tanks and the location as they have done in the past to prevent potential spills from leaving location and entering open draw to the west.

Two presites were done on December 4, 2014 and January 6, 2015 to take input and address issues regarding the construction and drilling of the E.P. Energy 4-12C5 well. On the first visit the stakes had all been removed and survey nails were found but the well center was not, therefore a second presite visit was made after restaking. E.P. Energy is the landowner or record and was invited to the presite. No other issues were noted at the presite meetings.

Dennis Ingram
Onsite Evaluator

12/4/2014
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.
Pits	The reserve pit should be located on the east 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: 12/1/2014

API NO. ASSIGNED: 43013532400000

WELL NAME: EP Energy 4-12C5

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

PHONE NUMBER: 713 997-5038

CONTACT: Maria S. Gomez

PROPOSED LOCATION: NESE 12 030S 050W

Permit Tech Review:

SURFACE: 1921 FSL 1068 FEL

Engineering Review:

BOTTOM: 1921 FSL 1068 FEL

Geology Review:

COUNTY: DUCHESNE

LATITUDE: 40.23268

LONGITUDE: -110.39315

UTM SURF EASTINGS: 551625.00

NORTHINGS: 4453759.00

FIELD NAME: ALTAMONT

LEASE TYPE: 4 - Fee

LEASE NUMBER: Fee

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

SURFACE OWNER: 4 - Fee

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

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

Commingle Approved

LOCATION AND SITING:

- R649-2-3.
- Unit:
- R649-3-2. General
- R649-3-3. Exception
- Drilling Unit
- Board Cause No: Cause 139-24
- Effective Date: 11/6/2014
- Siting: 8 WELLS PER SECTION
- R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations: 5 - Statement of Basis - bhll
 12 - Cement Volume (3) - hmacdonald
 13 - Cement Volume Formation (3a) - hmacdonald
 25 - Surface Casing - hmacdonald



GARY R. HERBERT
Governor

SPENCER J. COX
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: EP Energy 4-12C5
API Well Number: 4301353240000
Lease Number: Fee
Surface Owner: FEE (PRIVATE)
Approval Date: 2/5/2015

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 139-24. The expected producing formation or pool is the GREEN RIVER(LWR)-WASATCH Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

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

General:

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

Conditions of Approval:

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

Cement volume for the 7" intermediate string shall be determined from actual hole diameter in order to place lead cement from the pipe setting depth back to 500' inside surface shoe and tail cement to 500' above the Lower Green River as indicated in the submitted drilling plan.

Cement volume for the 5" production string shall be determined from actual hole diameter in order to place cement from the pipe setting depth back to TOL in order to adequately isolate the Green River formation.

Surface casing shall be cemented to the surface.

Additional Approvals:

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

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

Notification Requirements:

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

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

Contact Information:

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

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

Reporting Requirements:

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

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

Approved by:

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

For John Rogers
Associate Director, Oil & Gas

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Carol Daniels <caroldaniels@utah.gov>

NE SE SEC 12 T03S R05W FEE LEASE

24hr Notice of Spud

1 message

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

Tue, Feb 10, 2015 at 7:59 PM

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

RE: EP ENERGY

EP ENERGY 4-12CA5

API # 43013532400000

ALTAMONT FIELD

DUCHESNE COUNTY

Leon Ross Drilling spudded the well @ 13:00hrs on 2/10/2015. We plan on running and cementing 20" Conductor Casing to +/- 40' within 24hrs.

Regards,

Tony Wilkerson / Bill Owen

EP Energy LLC

PD Rig 406

Rig: 713-997-1220

Cell: 435-823-1764

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

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: EP Energy 4-12C5
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.	9. API NUMBER: 43013532400000
3. ADDRESS OF OPERATOR: 1001 Louisiana , Houston, TX, 77002	PHONE NUMBER: 713 997-5038 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1921 FSL 1068 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESE Section: 12 Township: 03.0S Range: 05.0W Meridian: U	9. FIELD and POOL or WILDCAT: ALTAMONT
	COUNTY: DUCHESNE
	STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 4/2/2015	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="Initial Completion"/>

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

Please see attached for details of completing into the Wasatch.

Approved by the
March 26, 2015
Oil, Gas and Mining

Date: _____
 By: DeKQ

NAME (PLEASE PRINT) Maria S. Gomez	PHONE NUMBER 713 997-5038	TITLE Principal Regulatory Analyst
SIGNATURE N/A	DATE 3/19/2015	

EP Energy 4-12C5

Initial Completion

API # : 4301353240

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

1. Review torque turning and running of the 7" and 5" liner of anomalies.
2. Test and chart casing for 30 minutes, noting pressure if any on surface casing.
3. Test all lubricators, valves and BOP's to working pressure.
4. A frac tree with BOP equipment will be utilized during the stimulation treatment.
5. Monitor the surface casing during frac:
 - a. Lay a flowline to the flow back tank and keep the valve open.
 - b. This line will remain in place until a wire line set retrievable packer is in place isolating the casing after the frac.
6. 2 7/8" tubing will be run to isolate the casing during the flow back of the well.
7. Well pressure and annulus pressure would be monitored during this time until the well is ready for pump.

Completion Information (Wasatch Formation)

- | | |
|-----------------|---|
| Stage #1 | RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~11563' – 11882' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of THS 30/50. Total clean water volume is 3680 bbls. |
| Stage #2 | RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~11224' – 11526' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of THS 30/50. Total clean water volume is 3674 bbls. |
| Stage #3 | RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~10867' – 11166' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of THS 30/50. Total clean water volume is 3668 bbls. |
| Stage #4 | RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~10585' – 10838' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of THS 30/50. Total clean water volume is 3663 bbls. |
| Stage #5 | RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~10289' – 10552' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of TLC 30/50. Total clean water volume is 3657 bbls. |

Stage #6 RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~10023' – 10259' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of TLC 30/50. Total clean water volume is 3653 bbls.

Stage #7 RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~9703' – 9987' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of TLC 30/50. Total clean water volume is 3647 bbls.

Stage #8 RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~9408' – 9670' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of TLC 30/50. Total clean water volume is 3642 bbls.

Stimulation Summary

	Top Perf	Btm. Perf	Gross Interval	Plug Depth	Net Perf Length	Total Shots	Perf Intervals	Type of Prop	Lbs of Prop	Lbs/ft	Lbs of 100 Mesh	Gals of HCL (15%)	BBLs of Clean H2O	BBLs of Slurry
Stage #1	11,563	11,882	319	NA	23	69	17	THS 30/50	150,000	470	3,000	5,000	3,680	4,081
Stage #2	11,224	11,526	302	11,541	23	69	17	THS 30/50	150,000	497	3,000	5,000	3,674	4,075
Stage #3	10,867	11,166	299	11,181	23	69	17	THS 30/50	150,000	502	3,000	5,000	3,668	4,068
Stage #4	10,585	10,838	253	10,853	23	69	17	THS 30/50	150,000	593	3,000	5,000	3,663	4,063
Stage #5	10,289	10,552	263	10,567	23	69	17	TLC 30/50	150,000	570	3,000	5,000	3,657	4,058
Stage #6	10,023	10,259	236	10,274	23	69	17	TLC 30/50	150,000	636	3,000	5,000	3,653	4,053
Stage #7	9,703	9,987	284	10,002	23	69	17	TLC 30/50	150,000	528	3,000	5,000	3,647	4,048
Stage #8	9,408	9,670	262	9,685	23	69	17	TLC 30/50	150,000	573	3,000	5,000	3,642	4,042
Average per Stage			277		23	69	17		150,000	546	3,000	5,000	3,661	4,061
Totals per Well			2,218		184	552	136		1,200,000		24,000	40,000	29,284	32,487

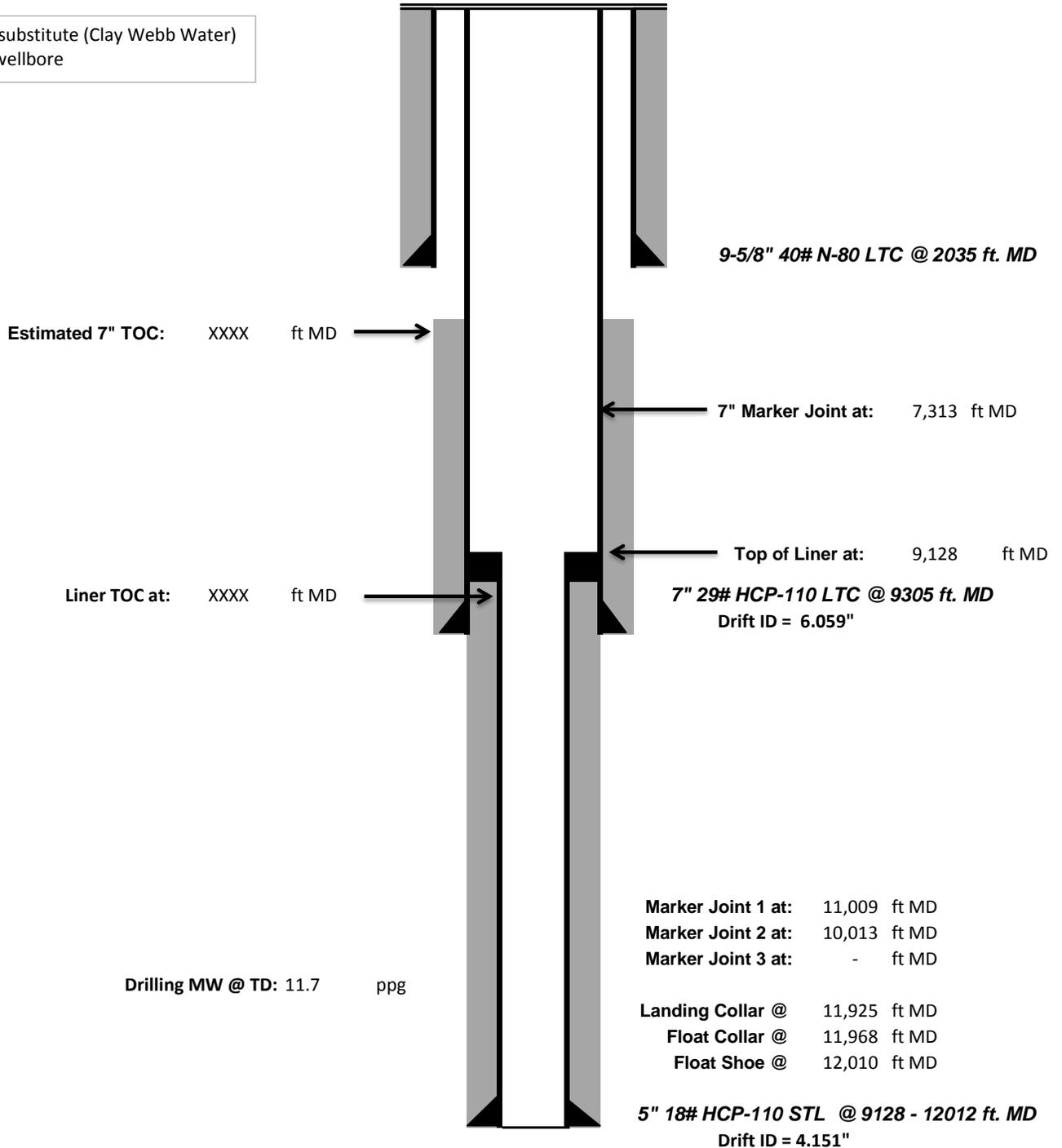


Pre-Completion Wellbore Schematic

Well Name: **EP Energy 4-12C5**
 Company Name: **EP Energy**
 Field, County, State: **Altamont, Duchesne, Utah**
 Surface Location: **Lat: 40°13'58.27104" N Long: 110°23'34.87589" W**
 Producing Zone(s): **Wasatch**

Last Updated: **3/18/2015**
 By: **Robert Fondren**
 TD: **12,010**
 API: **4301353240**
 AFE: **161312**

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



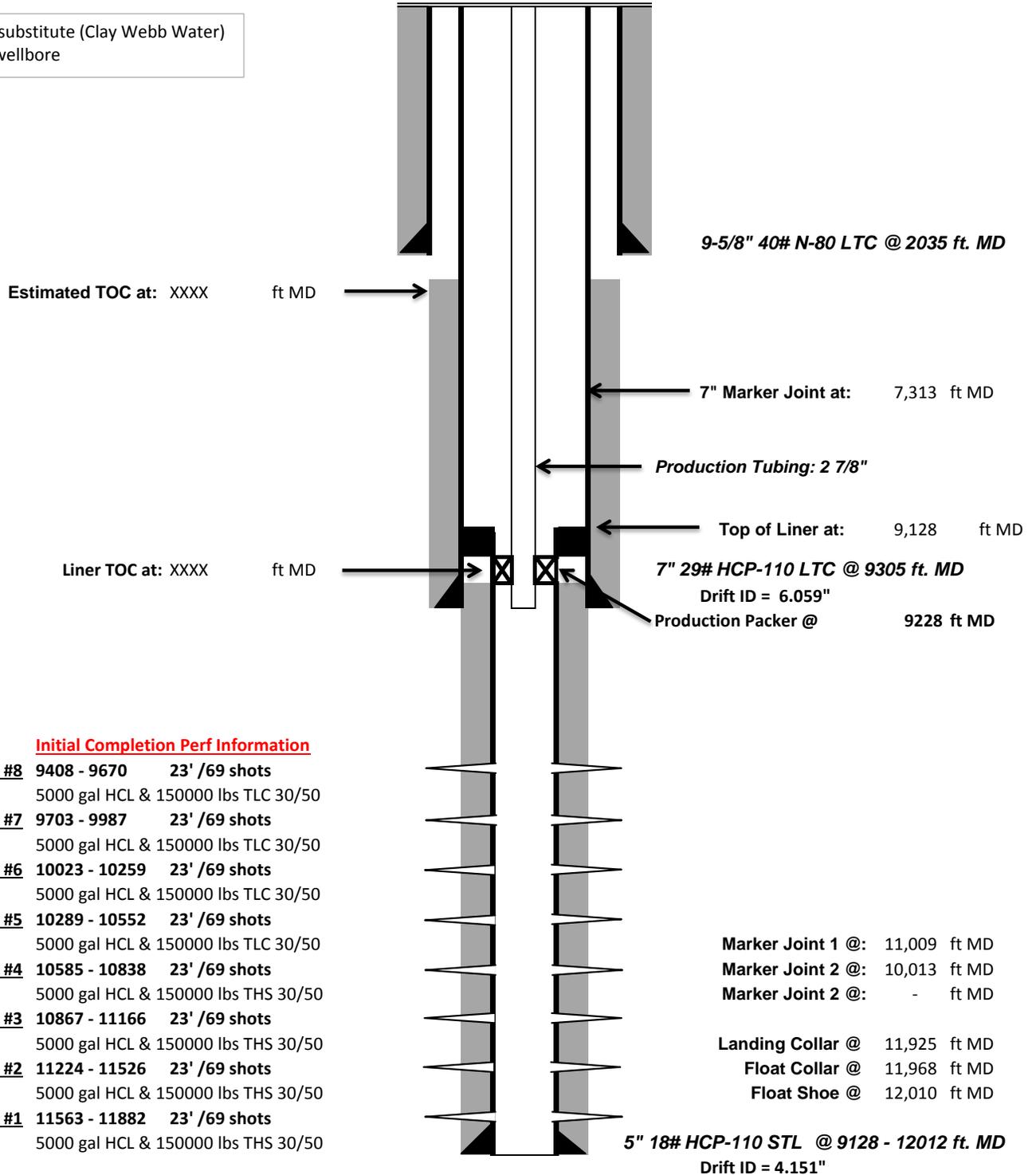


Post-Completion Wellbore Schematic

Well Name: **EP Energy 4-12C5**
 Company Name: **EP Energy**
 Field, County, State: **Altamont, Duchesne, Utah**
 Surface Location: **Lat: 40°13'58.27104" N Long: 110°23'34.87589" W**
 Producing Zone(s): **Wasatch**

Last Updated: **3/18/2015**
 By: **Robert Fondren**
 TD: **12,010**
 API: **4301353240**
 AFE: **161312**

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



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Carol Daniels <caroldaniels@utah.gov>

NESE SEC 12 T 03S RASW PREZ

24hr Notice Run & Cement Casing

1 message

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

Mon, Mar 9, 2015 at 5:01 AM

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

RE: EP ENERGY

EP ENERGY 4-12C5

API # 4301353240000

ALTAMONT FIELD

DUCHESNE COUNTY

We plan on running & cementing 5" 18# HCP-110 STL Production Liner to +/- 12,012' within 24 hours.

Regards,

Tony Wilkerson / Bill Owen

EP Energy LLC

PD Rig 406

Rig: 713-997-1220

Cell: 435-823-1764

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CONFIDENTIAL

Carol Daniels <caroldaniels@utah.gov>

NESE SEC 12 T O 3 S R 5 W

FEE LEASE

24 HOUR NOTICIE, TESTING BOPE & CASING

1 message

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

Thu, Feb 26, 2015 at 3:56 AM

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

RE: EP ENERGY

EP ENERGY 4-12C5

API # 4301353240000

ALTAMONT FIELD

DUCHESNE COUNTY

We plan on testing the 11" 10M BOPE & 9-5/8" Surface Casing within 24hrs.

Thanks,

Lloyd Rowell / Morgan Harden

EP Energy / PD 406

713-997-1220 (Rig)

435-823-1764 (Cell)

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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 Phone: 801-538-5340
 1594 West North Temple, Suite 1210
 Box 145801 Fax: 801-359-3940
 Salt Lake City, Utah 84114-5801

Attachment to Well Completion Report**Form 8 Dated May 7, 2015****Well Name: EP Energy 4-12C5****Items #27 and #28 Continued****27. Perforation Record**

Interval (Top/Bottom – MD)	Size	No. of Holes	Perf. Status
10290'-10554'	.38	69	Open
10022'-10260'	.38	66	Open
9705'-9989'	.38	69	Open
9410'-9673'	.38	23	Open

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

Depth Interval	Amount and Type of Material
10587'-10840'	5000 gal acid, 2856# 100 mesh, 128545# 30/50 TLC
10290'-10554'	5000 gal acid, 2462# 100 mesh, 57468# 30/50 TLC
10022'-10260'	5000 gal acid, 2627# 100 mesh, 145239# 30/50 TLC
9705'-9989'	5000 gal acid, 2529# 100 mesh, 165715# 30/50 TLC
9410'-9673'	5000 gal acid, 3178# 100 mesh, 33121# 30/50 TLC



Company: EP Energy
Well: EP Energy 4-12C5
Location: Duchesne, UT
Rig: Precision 406

Job Number: _____
Mag Decl.: _____
Dir Driller: _____
MWD Eng: _____

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

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')		
							N/S (ft)	E/W (ft)	Distance (ft)	Direction Azimuth					
Tie In	0.00	0.00	0.00												
1	100.00	0.40	289.44	100.00	100.00	0.12	0.12	N	0.33	W	0.35	289.44	0.40	0.40	289.44
2	200.00	0.22	304.38	100.00	200.00	0.34	0.34	N	0.82	W	0.89	292.65	0.20	-0.18	14.94
3	300.00	0.17	239.97	100.00	300.00	0.37	0.37	N	1.10	W	1.17	288.76	0.21	-0.05	-64.41
4	400.00	0.40	225.70	100.00	400.00	0.06	0.06	N	1.48	W	1.48	272.20	0.24	0.23	-14.27
5	500.00	1.19	232.29	100.00	499.99	-0.82	0.82	S	2.55	W	2.68	252.15	0.79	0.79	6.59
6	600.00	0.92	271.48	100.00	599.97	-1.44	1.44	S	4.18	W	4.42	251.02	0.75	-0.27	39.19
7	700.00	0.90	252.87	100.00	699.96	-1.65	1.65	S	5.73	W	5.96	253.96	0.29	-0.02	-18.61
8	800.00	1.47	250.96	100.00	799.94	-2.30	2.30	S	7.69	W	8.03	253.38	0.57	0.57	-1.91
9	900.00	1.20	286.05	100.00	899.91	-2.43	2.43	S	9.91	W	10.20	256.25	0.84	-0.27	35.09
10	1000.00	1.06	256.53	100.00	999.89	-2.35	2.35	S	11.82	W	12.05	258.75	0.59	-0.14	-29.52
11	1100.00	1.42	252.42	100.00	1099.87	-2.94	2.94	S	13.90	W	14.21	258.05	0.37	0.36	-4.11
12	1200.00	1.39	277.22	100.00	1199.84	-3.16	3.16	S	16.28	W	16.59	259.01	0.60	-0.03	24.80
13	1300.00	1.16	283.41	100.00	1299.81	-2.78	2.78	S	18.47	W	18.68	261.45	0.27	-0.23	6.19
14	1400.00	1.06	277.49	100.00	1399.79	-2.42	2.42	S	20.37	W	20.52	263.22	0.15	-0.10	-5.92
15	1500.00	0.57	280.44	100.00	1499.78	-2.21	2.21	S	21.78	W	21.89	264.21	0.49	-0.49	2.95
16	1600.00	0.50	256.64	100.00	1599.78	-2.22	2.22	S	22.69	W	22.80	264.41	0.23	-0.07	-23.80
17	1700.00	0.61	234.65	100.00	1699.78	-2.63	2.63	S	23.55	W	23.70	263.63	0.24	0.11	-21.99
18	1800.00	0.66	227.35	100.00	1799.77	-3.33	3.33	S	24.41	W	24.64	262.24	0.10	0.05	-7.30
19	1900.00	1.16	233.91	100.00	1899.76	-4.31	4.31	S	25.65	W	26.01	260.45	0.51	0.50	6.56
20	1932.00	1.39	241.93	32.00	1931.75	-4.69	4.69	S	26.26	W	26.67	259.88	0.91	0.72	25.06
21	2051.00	1.30	235.30	119.00	2050.72	-6.14	6.14	S	28.64	W	29.29	257.91	0.15	-0.08	-5.57
22	2147.00	2.40	286.70	96.00	2146.67	-6.18	6.18	S	31.46	W	32.06	258.89	1.96	1.15	53.54
23	2242.00	1.70	319.80	95.00	2241.61	-4.53	4.53	S	34.27	W	34.57	262.47	1.42	-0.74	34.84
24	2338.00	2.30	0.90	96.00	2337.56	-1.52	1.52	S	35.16	W	35.20	267.53	1.58	0.63	-332.19
25	2435.00	3.10	19.00	97.00	2434.45	2.91	2.91	N	34.28	W	34.40	274.85	1.20	0.82	18.66
26	2531.00	3.80	29.40	96.00	2530.28	8.14	8.14	N	31.87	W	32.89	284.32	0.98	0.73	10.83
27	2628.00	3.50	32.20	97.00	2627.08	13.44	13.44	N	28.72	W	31.71	295.08	0.36	-0.31	2.89
28	2724.00	3.30	37.20	96.00	2722.91	18.12	18.12	N	25.48	W	31.27	305.42	0.37	-0.21	5.21
29	2820.00	2.50	39.40	96.00	2818.79	21.94	21.94	N	22.48	W	31.42	314.30	0.84	-0.83	2.29
30	2916.00	3.20	30.50	96.00	2914.67	25.87	25.87	N	19.80	W	32.57	322.57	0.86	0.73	-9.27
31	3012.00	3.60	23.60	96.00	3010.50	30.94	30.94	N	17.23	W	35.41	330.89	0.60	0.42	-7.19
32	3109.00	4.00	23.70	97.00	3107.29	36.83	36.83	N	14.65	W	39.63	338.31	0.41	0.41	0.10
33	3205.00	4.70	18.50	96.00	3203.01	43.62	43.62	N	12.06	W	45.26	344.55	0.84	0.73	-5.42
34	3301.00	2.80	13.10	96.00	3298.80	49.64	49.64	N	10.28	W	50.69	348.30	2.01	-1.98	-5.63
35	3397.00	3.50	16.30	96.00	3394.65	54.73	54.73	N	8.92	W	55.46	350.74	0.75	0.73	3.33



Company: EP Energy
Well: EP Energy 4-12C5
Location: Duchesne, UT
Rig: Precision 406

Job Number: _____
Mag Decl.: _____
Dir Driller: _____
MWD Eng: _____

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

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')		
							N/S (ft)	E/W (ft)	Distance (ft)	Direction Azimuth					
36	3493.00	4.00	26.20	96.00	3490.45	60.55	60.55	N	6.62	W	60.91	353.76	0.85	0.52	10.31
37	3589.00	5.10	34.40	96.00	3586.15	67.08	67.08	N	2.73	W	67.13	357.67	1.33	1.15	8.54
38	3686.00	4.20	34.30	97.00	3682.83	73.57	73.57	N	1.70	E	73.59	1.33	0.93	-0.93	-0.10
39	3782.00	4.70	35.00	96.00	3778.54	79.69	79.69	N	5.94	E	79.91	4.26	0.52	0.52	0.73
40	3878.00	3.80	41.50	96.00	3874.27	85.30	85.30	N	10.31	E	85.92	6.89	1.06	-0.94	6.77
41	3974.00	4.30	35.10	96.00	3970.03	90.63	90.63	N	14.48	E	91.78	9.08	0.70	0.52	-6.67
42	4070.00	4.90	32.90	96.00	4065.72	97.01	97.01	N	18.78	E	98.81	10.96	0.65	0.63	-2.29
43	4166.00	3.70	37.20	96.00	4161.45	102.92	102.92	N	22.88	E	105.43	12.53	1.29	-1.25	4.48
44	4262.00	4.10	32.10	96.00	4257.23	108.30	108.30	N	26.58	E	111.51	13.79	0.55	0.42	-5.31
45	4359.00	3.60	34.60	97.00	4354.01	113.74	113.74	N	30.15	E	117.67	14.85	0.54	-0.52	2.58
46	4455.00	4.70	39.10	96.00	4449.76	119.27	119.27	N	34.34	E	124.12	16.06	1.19	1.15	4.69
47	4552.00	3.60	41.20	97.00	4546.50	124.65	124.65	N	38.85	E	130.56	17.31	1.14	-1.13	2.16
48	4648.00	4.10	43.00	96.00	4642.28	129.43	129.43	N	43.18	E	136.44	18.45	0.54	0.52	1.88
49	4744.00	4.40	44.20	96.00	4738.02	134.58	134.58	N	48.09	E	142.91	19.66	0.33	0.31	1.25
50	4841.00	3.50	47.60	97.00	4834.79	139.24	139.24	N	52.87	E	148.94	20.79	0.96	-0.93	3.51
51	4937.00	3.80	29.00	96.00	4930.60	144.00	144.00	N	56.57	E	154.71	21.45	1.27	0.31	-19.38
52	5032.00	4.50	27.70	95.00	5025.35	150.05	150.05	N	59.83	E	161.54	21.74	0.74	0.74	-1.37
53	5128.00	3.40	23.80	96.00	5121.12	155.99	155.99	N	62.73	E	168.13	21.91	1.18	-1.15	-4.06
54	5224.00	2.70	25.70	96.00	5216.98	160.63	160.63	N	64.86	E	173.23	21.99	0.74	-0.73	1.98
55	5320.00	1.90	30.20	96.00	5312.90	164.05	164.05	N	66.64	E	177.07	22.11	0.85	-0.83	4.69
56	5416.00	1.20	31.00	96.00	5408.87	166.28	166.28	N	67.96	E	179.64	22.23	0.73	-0.73	0.83
57	5512.00	1.50	33.00	96.00	5504.84	168.20	168.20	N	69.16	E	181.86	22.35	0.32	0.31	2.08
58	5609.00	0.70	24.80	97.00	5601.82	169.80	169.80	N	70.10	E	183.70	22.43	0.84	-0.82	-8.45
59	5705.00	0.30	221.40	96.00	5697.82	170.15	170.15	N	70.18	E	184.05	22.42	1.03	-0.42	204.79
60	5800.00	0.60	216.60	95.00	5792.82	169.56	169.56	N	69.72	E	183.34	22.35	0.32	0.32	-5.05
61	5897.00	0.90	194.10	97.00	5889.81	168.41	168.41	N	69.23	E	182.09	22.35	0.43	0.31	-23.20
62	5992.00	1.00	191.90	95.00	5984.80	166.88	166.88	N	68.88	E	180.54	22.43	0.11	0.11	-2.32
63	6088.00	1.10	185.10	96.00	6080.78	165.14	165.14	N	68.63	E	178.83	22.57	0.17	0.10	-7.08
64	6184.00	1.40	184.50	96.00	6176.76	163.05	163.05	N	68.45	E	176.84	22.77	0.31	0.31	-0.62
65	6281.00	1.60	190.70	97.00	6273.72	160.54	160.54	N	68.11	E	174.39	22.99	0.27	0.21	6.39
66	6377.00	1.70	188.90	96.00	6369.68	157.82	157.82	N	67.64	E	171.70	23.20	0.12	0.10	-1.87
67	6473.00	1.80	193.90	96.00	6465.64	154.95	154.95	N	67.06	E	168.84	23.40	0.19	0.10	5.21
68	6568.00	1.80	196.40	95.00	6560.59	152.07	152.07	N	66.28	E	165.88	23.55	0.08	0.00	2.63
69	6665.00	1.70	203.10	97.00	6657.55	149.28	149.28	N	65.28	E	162.93	23.62	0.23	-0.10	6.91
70	6761.00	1.70	204.90	96.00	6753.51	146.68	146.68	N	64.12	E	160.09	23.61	0.06	0.00	1.88
71	6858.00	1.80	203.40	97.00	6850.46	143.98	143.98	N	62.91	E	157.12	23.60	0.11	0.10	-1.55
72	6954.00	1.90	202.10	96.00	6946.41	141.12	141.12	N	61.71	E	154.03	23.62	0.11	0.10	-1.35



Company: EP Energy
Well: EP Energy 4-12C5
Location: Duchesne, UT
Rig: Precision 406

Job Number: _____
Mag Decl.: _____
Dir Driller: _____
MWD Eng: _____

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

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates			Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')	
							N/S (ft)	E/W (ft)	Distance (ft)	Direction Azimuth					
73	7050.00	2.10	199.30	96.00	7042.35	137.99	137.99	N	60.53	E	150.68	23.69	0.23	0.21	-2.92
74	7147.00	2.20	195.60	97.00	7139.28	134.52	134.52	N	59.45	E	147.07	23.84	0.18	0.10	-3.81
75	7243.00	2.20	193.70	96.00	7235.21	130.95	130.95	N	58.51	E	143.43	24.08	0.08	0.00	-1.98
76	7339.00	2.30	192.00	96.00	7331.14	127.28	127.28	N	57.68	E	139.74	24.38	0.13	0.10	-1.77
77	7435.00	2.50	192.90	96.00	7427.05	123.35	123.35	N	56.81	E	135.80	24.73	0.21	0.21	0.94
78	7532.00	2.70	193.70	97.00	7523.95	119.07	119.07	N	55.80	E	131.49	25.11	0.21	0.21	0.82
79	7628.00	2.90	191.50	96.00	7619.84	114.49	114.49	N	54.78	E	126.92	25.57	0.24	0.21	-2.29
80	7724.00	3.00	191.40	96.00	7715.71	109.65	109.65	N	53.80	E	122.14	26.13	0.10	0.10	-0.10
81	7821.00	3.10	190.30	97.00	7812.57	104.58	104.58	N	52.82	E	117.17	26.80	0.12	0.10	-1.13
82	7917.00	3.20	190.00	96.00	7908.43	99.39	99.39	N	51.90	E	112.12	27.57	0.11	0.10	-0.31
83	8014.00	3.00	188.60	97.00	8005.29	94.21	94.21	N	51.05	E	107.15	28.45	0.22	-0.21	-1.44
84	8109.00	3.00	188.50	95.00	8100.16	89.30	89.30	N	50.31	E	102.49	29.40	0.01	0.00	-0.11
85	8205.00	3.10	187.20	96.00	8196.02	84.24	84.24	N	49.61	E	97.76	30.50	0.13	0.10	-1.35
86	8301.00	3.30	189.90	96.00	8291.87	78.94	78.94	N	48.81	E	92.81	31.73	0.26	0.21	2.81
87	8397.00	3.20	190.90	96.00	8387.72	73.59	73.59	N	47.83	E	87.76	33.02	0.12	-0.10	1.04
88	8492.00	3.20	187.40	95.00	8482.57	68.35	68.35	N	46.98	E	82.94	34.50	0.21	0.00	-3.68
89	8588.00	3.00	186.00	96.00	8578.43	63.20	63.20	N	46.38	E	78.39	36.27	0.22	-0.21	-1.46
90	8685.00	3.20	185.90	97.00	8675.29	57.98	57.98	N	45.83	E	73.91	38.33	0.21	0.21	-0.10
91	8781.00	3.00	183.10	96.00	8771.15	52.81	52.81	N	45.42	E	69.65	40.70	0.26	-0.21	-2.92
92	8875.00	3.90	184.30	94.00	8864.97	47.16	47.16	N	45.05	E	65.22	43.69	0.96	0.96	1.28
93	8971.00	3.00	188.80	96.00	8960.80	41.42	41.42	N	44.42	E	60.74	47.00	0.98	-0.94	4.69
94	9066.00	3.50	194.90	95.00	9055.65	36.17	36.17	N	43.29	E	56.41	50.13	0.64	0.53	6.42
95	9163.00	3.40	196.90	97.00	9152.47	30.55	30.55	N	41.70	E	51.69	53.77	0.16	-0.10	2.06
96	9264.00	2.90	196.80	101.00	9253.32	25.24	25.24	N	40.09	E	47.37	57.80	0.50	-0.50	-0.10
97	9300.00	2.55	195.95	36.00	9289.28	23.60	23.60	N	39.60	E	46.10	59.21	0.97	-0.96	-2.36
98	9400.00	2.31	191.68	100.00	9389.19	19.48	19.48	N	38.58	E	43.22	63.21	0.30	-0.24	-4.27
99	9500.00	2.20	191.15	100.00	9489.11	15.62	15.62	N	37.80	E	40.90	67.55	0.11	-0.11	-0.53
100	9600.00	1.86	191.32	100.00	9589.05	12.14	12.14	N	37.11	E	39.05	71.89	0.34	-0.34	0.17
101	9700.00	1.94	195.22	100.00	9688.99	8.91	8.91	N	36.35	E	37.43	76.22	0.15	0.07	3.90
102	9800.00	1.86	196.59	100.00	9788.94	5.73	5.73	N	35.44	E	35.90	80.82	0.09	-0.08	1.38
103	9900.00	2.20	201.21	100.00	9888.87	2.39	2.39	N	34.29	E	34.37	86.02	0.38	0.34	4.62
104	10000.00	1.88	196.47	100.00	9988.81	-0.98	0.98	S	33.13	E	33.14	91.69	0.36	-0.32	-4.74
105	10100.00	2.32	189.68	100.00	10088.74	-4.55	4.55	S	32.32	E	32.64	98.01	0.51	0.44	-6.80
106	10200.00	2.52	192.22	100.00	10188.65	-8.69	8.69	S	31.52	E	32.69	105.42	0.22	0.20	2.54
107	10300.00	2.11	195.93	100.00	10288.57	-12.61	12.61	S	30.55	E	33.05	112.43	0.44	-0.41	3.71
108	10400.00	2.15	190.70	100.00	10388.50	-16.22	16.22	S	29.69	E	33.83	118.64	0.20	0.04	-5.22
109	10500.00	2.64	180.58	100.00	10488.42	-20.36	20.36	S	29.32	E	35.70	124.78	0.64	0.49	-10.12



Company: EP Energy **Job Number:** _____
Well: EP Energy 4-12C5 **Mag Decl.:** _____
Location: Duchesne, UT **Dir Driller:** _____
Rig: Precision 406 **MWD Eng:** _____

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

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')		
							N/S (ft)	E/W (ft)	Distance (ft)	Direction Azimuth					
110	10600.00	2.27	186.57	100.00	10588.32	-24.64	24.64	S	29.07	E	38.11	130.28	0.45	-0.37	5.99
111	10700.00	2.51	182.89	100.00	10688.24	-28.79	28.79	S	28.73	E	40.68	135.06	0.28	0.23	-3.69
112	10800.00	2.36	184.78	100.00	10788.15	-33.03	33.03	S	28.45	E	43.59	139.25	0.17	-0.15	1.90
113	10900.00	2.51	191.37	100.00	10888.06	-37.22	37.22	S	27.85	E	46.49	143.20	0.32	0.16	6.59
114	11000.00	2.64	189.13	100.00	10987.96	-41.65	41.65	S	27.05	E	49.66	147.00	0.16	0.13	-2.24
115	11100.00	2.77	186.97	100.00	11087.84	-46.32	46.32	S	26.39	E	53.31	150.33	0.16	0.13	-2.16
116	11200.00	2.76	187.08	100.00	11187.73	-51.11	51.11	S	25.80	E	57.25	153.21	0.01	-0.01	0.11
117	11300.00	2.85	186.40	100.00	11287.61	-55.96	55.96	S	25.23	E	61.39	155.73	0.09	0.09	-0.68
118	11400.00	2.52	181.33	100.00	11387.50	-60.63	60.63	S	24.90	E	65.55	157.67	0.40	-0.32	-5.07
119	11500.00	2.81	177.87	100.00	11487.39	-65.29	65.29	S	24.94	E	69.89	159.09	0.33	0.29	-3.46
120	11600.00	2.59	182.46	100.00	11587.28	-70.00	70.00	S	24.94	E	74.31	160.39	0.31	-0.22	4.58
121	11700.00	2.94	183.28	100.00	11687.16	-74.81	74.81	S	24.69	E	78.78	161.73	0.35	0.35	0.82
122	11800.00	2.76	187.28	100.00	11787.04	-79.75	79.75	S	24.24	E	83.36	163.09	0.27	-0.18	4.00
123	11842.00	2.65	183.59	42.00	11828.99	-81.72	81.72	S	24.05	E	85.19	163.60	0.49	-0.27	-8.80
124	12012.00	2.65	183.59	170.00	11998.81	-89.56	89.56	S	23.56	E	92.60	165.26	0.00	0.00	0.00

CENTRAL DIVISION

ALTAMONT FIELD
EP ENERGY 4-12C5
EP ENERGY 4-12C5
COMPLETION LAND

Operation Summary Report

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

1 General

1.1 Customer Information

Company	CENTRAL DIVISION
Representative	
Address	

1.2 Well Information

Well	EP ENERGY 4-12C5		
Project	ALTAMONT FIELD	Site	EP ENERGY 4-12C5
Rig Name/No.		Event	COMPLETION LAND
Start date	3/19/2015	End date	
Spud Date/Time	2/27/2015	UWI	EP ENERGY 4-12C5
Active datum	KB @5,951.9ft (above Mean Sea Level)		
Afe No./Description	161312/53493 / EP ENERGY 4-12C5		

2 Summary

2.1 Operation Summary

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
3/19/2015	6:00 7:00	1.00	WOR	28		P		CREW TRAVEL TO LOCATION HSM WRITE AND REVIEW JSA TOPIC; MOVING RIG RIGGING UP
	7:00 10:30	3.50	MIRU	01		P		ROAD RIG FROM THE 3-25C5 TO LOCATION PULL TEST DEAD MAN MIRU
	10:30 18:00	7.50	WOR	39		P		P/U 4 1/8" ROCK BIT BIT SUB TALLY AND P/U 95-JTS OF 2 3/8" TBG CHANGE HANDLING TOOLS XO 2 3/8" X 2 7/8" TALLY AND P/U 220-JTS OF 2 7/8" TBG EOT 10207' SECURE WELL TIW VALVE w NIGHT CAP PIPE RAMS CLOSED AND LOCKED 7" CSG VALVE w NIGHT CAPS SDFN
3/20/2015	6:00 7:00	1.00	WOR	28		P		CREW TRAVEL TO LOCATION HSM WRITE AND REVIEW JSA TOPIC; R/U POWER SWIVEL
	7:00 8:30	1.50	WOR	39		P		CONTINUE TIH w 52 JTS OF 2 7/8" TBG TAG AT 11929' TMD
	8:30 12:30	4.00	WOR	10		P		R/U POWER SWIVEL ESTABLISH CIRC C/O TO PBTD AT 11929' TMD CIRC WELL CLEAN R/D POWER SWIVEL
	12:30 17:00	4.50	WOR	39		P		TOH L/D 272-JTS CHANGE HANDLING TOOL TOH L/D 95-JTS OF 2 3/8" TBG L/D BIT AND BIT SUB
	17:00 18:00	1.00	RDMO	02		P		ND/ BOPE N/U NIGHT CAP ON ON 7" MASTER VALVE CLOSE 7" CSG VALVES w BULL PLUGS RDMO
3/24/2015	7:00 8:00	1.00	WLWORK	28		P		CREW TRAVEL TO LOCATION HSM WRITE AND REVIEW JSA TOPIC; WIRELINE OPERATIONS
	8:00 12:00	4.00	WLWORK	22		P		MIRU WIRELINE P/U AND TIH w LOGGING TOOLS FILL CSG w 10 BBLs OF 2% KCL WATER PRESSURE AND HOLD 4000 PSI RUN CBL/CCL/GR FROM 11914' WLMD TO TOC AT 5160' BLEED OFF PRESSURE TOH SECURE WELL CLOSE FRAC VALVE INSTALL NIGHT CAP CLOSE AND BULL PLUG 7" CSG VALVES R/D WIRELINE R/D HOT OIL TRUCK SDFD LOG TO BE SENT TO HOUSTON
3/31/2015	6:00 18:00	12.00	SITEPRE	18		P		FILLED OUT JSA ON MOVING FRAC TANKS AND HAULING WATER. STARED MOVING IN WATERVAND FRAC TANKS.
4/1/2015	6:00 18:00	12.00	SITEPRE	18		P		FILLED OUT JSA ON MOVING FRAC TANKS AND HAULING WATER. CONTINUED MOVING FRAC TANKS AND WATER.
4/2/2015	6:00 18:00	12.00	SITEPRE	18		P		FILLED OUT JSA ON HAULING WATER. CONTINUED FILLING FRAC TANKS.

4/3/2015

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	6:00 7:30	1.50	WHDTRE	28		P		CREW TRAVEL HELD SAFETY MEETING ON NU FRAC STACK FILLED OUT JSA.
	7:30 13:00	5.50	WHDTRE	16		P		PRESSURE TEST CSG TO 9000 PSI FOR 30 MINS. HELD, NU SPOOL, 5" HCR VALVE, FLOW CROSS, 5" HCR VALVE, GOAT HEAD AND WIRELINE FLANGE. PRESSURE TEST FRAC STACK @ 500 PSI LOW AND 10000 PSI HIGH FOR 15 MINS HELD. WHILE RUNNING WATER TRANSFER LINES. CLOSED IN WELL, CLOSED AND LOCKED ALL VALVES, CLOSED CSG VALVES AND INSTALLED NIGHT CAPS.
	13:00 15:00	2.00	WHDTRE	18		P		FINISHED RUNNING WATER TRANSFER LINES AND FLOWBACK LINES TO TANKS. SDFN.
4/4/2015	6:00 7:30	1.50	WLWORK	28		P		CREW TRAVEL HELD SAFETY MEETING ON WIRELINE SAFETY. FILLED OUT JSA.
	7:30 11:30	4.00	STG01	21		P		(START HEATING WATER) MIRU WIRELINE PERFORATED STAGE #1 FROM 11886' TO 11565'. ALL PERFS CORRELATED TO PERFORATORS SECTOR CBL, GAMMA RAY, CCL LOG RUN #1 DATED 23-MAR-2015. 23 NET FT. 69 SHOTS. 2 3/4" GUNS, 16 GM CHARGES, 3 SPF, 120 PHASING. STARTING PRESSURE 1000 PSI. FINAL PRESSURE 900 PSI. RD WIRELINE. CLOSED IN WELL CLOSED AND LOCKED FRAC VALVES CLOSED CSG VALVES AND INSTALL NIGHT CAPS.
	11:30 18:30	7.00	SITEPRE	18		P		CONTINUED HEATING AND HAULING WATER.
4/5/2015	6:00 7:30	1.50	SITEPRE	28		P		CREW TRAVEL HELD SAFETY MEETING ON TRANSFERRING WATER FILLED OUT JSA.
	7:30 15:30	8.00	SITEPRE	18		P		STARTED TRANSFERRING WATER THRU CHLORINE DIOXIDE UNIT TRANSFERED 11000 BBLS (HALLIBURTON SPOTTED IN SOME TRUCKS AT 09:00 HAD TO GO TO VERNAL TO GET REST OF EQUIPMENT ARRIVED BACK ON LOCATION @ 13:30 SPOT IN REST OF EQUIPMENT AND STARTED RIGGING UP.).
	15:30 18:00	2.50	MIRU	01		P		MIRU HALLIBURTON FRAC EQUIPMENT.
4/6/2015	6:00 6:30	0.50	SITEPRE	28		P		HELD SAFETY MEETING ON HEATING AND HAULING WATER. FILLED OUT JSA.
	6:30 18:00	11.50	SITEPRE	18		P		CONTINUED HAULING AND HEATING WATER.
4/7/2015	6:00 6:30	0.50	MIRU	28		P		HELD SAFETY MEETING ON PRESSURE TESTING LINES. FILLED OUT JSA.
	6:30 8:30	2.00	MIRU	18		P		FINISHED RU FRAC EQUIPMENT. SET POPOFF @ 9000 PSI.
	8:30 10:30	2.00	STG01	35		P		PRESSURE TEST LINES @ 9650 PSI. OPENED UP WELL W/ 220 PSI. BREAK DOWN STAGE # 1 PERFS @ 6089 PSI, 9.6 BPM, 8 BBLS PUMPED. EST INJ RATE 29 BPM 5230 PSI. I.S.I.P. 4041 PSI. F.G. .78, 5 MIN 3941 PSI, 10 MIN 3899 PSI. TREATED PERFS W/ 5000 GALS 15% HCL ACID. PUMPED 3000 LBS 100 MESH IN 1/2 PPG STAGE AND 150500 LBS THS 30/50. IN .5#, 1#, 2# AND 3# STAGES. AVG RATE 73.6 BPM, MAX RATE 75.8 BPM. AVG PRESS 5449, MAX PRESS 7559. I.S.I.P. 4422 PSI. F.G. .81. SHUT WELL IN 4159 BBLS TO RECOVER. TURNED WELL OVER TO WIRELINE
	10:30 12:30	2.00	STG02	21		P		MIRU WIRELINE SET CBP @ 11542 W/ 4200 PSI. PERFORATED STAGE #2 FROM 11527' TO 11225'. ALL PERFS CORRELATED TO PERFORATORS SECTOR CBL, GAMMA RAY, CCL LOG RUN #1 DATED 23-MAR-2015. 23 NET FT. 69 SHOTS. 2 3/4" GUNS, 16 GM CHARGES, 3 SPF, 120 PHASING. STARTING PRESSURE 4200 PSI. FINAL PRESSURE 3800 PSI. TURNED WELL OVER TO FRAC CREW

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	12:30 14:00	1.50	STG02	35		P		PRESSURE TEST LINES @ 9700 PSI. OPENED UP WELL W/ 3973 PSI. BREAK DOWN STAGE # 2 PERFS @ 6028 PSI, 19.4 BPM, 40 BBLS PUMPED. EST INJ RATE 29 BPM 6050 PSI. I.S.I.P. 4131 PSI. F.G. .80, 5 MIN 3924 PSI, 10 MIN 3071 PSI. TREATED PERFS W/ 5000 GALS 15% HCL ACID. PUMPED 3000 LBS 100 MESH IN 1/2 PPG STAGE AND 152300 LBS THS 30/50. IN .5#, 1#, 2# AND 3# STAGES. AVG RATE 75.1 BPM, MAX RATE 75.5 BPM. AVG PRESS 5237, MAX PRESS 6531. I.S.I.P. 4259 PSI. F.G. .80. SHUT WELL IN 3896 BBLS TO RECOVER. TURNED WELL OVER TO WIRELINE.
	14:00 15:30	1.50	STG03	21		P		SET CBP @ 11177' W/ 4200 PSI. PERFORATED STAGE #3 FROM 11168' TO 10868'. ALL PERFS CORRELATED TO PERFORATORS SECTOR CBL, GAMMA RAY, CCL LOG RUN #1 DATED 23-MAR-2015. 23 NET FT. 69 SHOTS. 2 3/4" GUNS, 16 GM CHARGES, 3 SPF, 120 PHASING. STARTING PRESSURE 4200 PSI. FINAL PRESSURE 3900 PSI. TURNED WELL OVER TO FRAC CREW
	15:30 17:00	1.50	STG03	35		P		PRESSURE TEST LINES @ 9800 PSI. OPENED UP WELL W/ 3590 PSI. BREAK DOWN STAGE # 3 PERFS @ 5078 PSI, 10.3 BPM, 9 BBLS PUMPED. EST INJ RATE 29 BPM 5170 PSI. I.S.I.P. 4185 PSI. F.G. .82, 5 MIN 4071 PSI, 10 MIN 4016 PSI. TREATED PERFS W/ 5000 GALS 15% HCL ACID. PUMPED 3100 LBS 100 MESH IN 1/2 PPG STAGE AND 149500 LBS THS 30/50. IN .5#, 1#, 2# AND 3# STAGES. AVG RATE 75.1BPM, MAX RATE 75.5 BPM. AVG PRESS 5303, MAX PRESS 6583. I.S.I.P. 4405 PSI. F.G. .83. SHUT WELL IN 3859 BBLS TO RECOVER. TURNED WELL OVER TO WIRELINE.
	17:00 17:00	0.00	STG04	21		P		SET CBP @ 10855' W/ 4300 PSI. PERFORATED STAGE #4 FROM 10840' TO 10587'. ALL PERFS CORRELATED TO PERFORATORS SECTOR CBL, GAMMA RAY, CCL LOG RUN #1 DATED 23-MAR-2015. 23 NET FT. 69 SHOTS. 2 3/4" GUNS, 16 GM CHARGES, 3 SPF, 120 PHASING. STARTING PRESSURE 4300 PSI. FINAL PRESSURE 4200 PSI. CLOSED IN WELL CLOSED AND LOCKED ALL FRAC VALVES CLOSED CSG VALVES AND INSTALL NIGHT CAPS.
4/8/2015	6:00 6:30	0.50	STG04	28		P		HELD SAFETY MEETING ON PUMPING HIGH PRESSURE FILLED OUT JSA.
	6:30 8:00	1.50	STG04	35		P		PRESSURE TEST LINES @ 9650 PSI. OPENED UP WELL W/ 4070 PSI. BREAK DOWN STAGE # 4 PERFS @ 7697 PSI, 12.7 BPM, 10 BBLS PUMPED. EST INJ RATE 29 BPM 5630 PSI. I.S.I.P. 4488 PSI. F.G. .85, 5 MIN 4362 PSI, 10 MIN 4314 PSI. TREATED PERFS W/ 4000 GALS 15% HCL ACID. PUMPED 3000 LBS 100 MESH IN 1/2 PPG STAGE AND 141560 LBS THS 30/50. IN .5#, 1#, 2# AND 3# STAGES. AVG RATE 75.1 BPM, MAX RATE 75.6 BPM. AVG PRESS 5539, MAX PRESS 7689. I.S.I.P. 4552 PSI. F.G. .85. SHUT WELL IN 3762 BBLS TO RECOVER. TURNED WELL OVER TO WIRELINE
	8:00 9:30	1.50	STG05	21		P		SET CBP @ 10569 W/ 4200 PSI. PERFORATED STAGE #5 FROM 10554' TO 10290'. ALL PERFS CORRELATED TO PERFORATORS SECTOR CBL, GAMMA RAY, CCL LOG RUN #1 DATED 23-MAR-2015. 23 NET FT. 69 SHOTS. 2 3/4" GUNS, 16 GM CHARGES, 3 SPF, 120 PHASING. STARTING PRESSURE 4200 PSI. FINAL PRESSURE 3800 PSI. TURNED WELL OVER TO FRAC CREW

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	9:30 11:30	2.00	STG05	35		P		PRESSURE TEST LINES @ 9500 PSI. OPENED UP WELL W/ 2500 PSI. BREAK DOWN STAGE # 5 PERFS @ 6110 PSI, 20.8 BPM, 20 BBLS PUMPED. EST INJ RATE 29 BPM 5770 PSI. I.S.I.P. 4052 PSI. F.G. .82, 5 MIN 3410 PSI, 10 MIN 3174 PSI. TREATED PERFS W/ 4000 GALS 15% HCL ACID. PUMPED 3100 LBS 100 MESH IN 1/2 PPG STAGE AND 60,800 LBS TLC 30/50. IN .5#, 1# AND 2# STAGES WENT TO FLUSH ON 2# STAGE DUE TO 2000 PSI INCREASE IN PRESSURE. AVG RATE 75.3 BPM, MAX RATE 75.8 BPM. AVG PRESS 5865, MAX PRESS 7834. I.S.I.P. 4586 PSI. F.G. .87. SHUT WELL IN 2909 BBLS TO RECOVER. TURNED WELL OVER TO WIRELINE
	11:30 13:00	1.50	STG06	21		P		SET CBP @ 10275' W/ 3800 PSI. PERFORATED STAGE #6 FROM 10260' TO 10022'. ALL PERFS CORRELATED TO PERFORATORS SECTOR CBL, GAMMA RAY, CCL LOG RUN #1 DATED 23-MAR-2015. 23 NET FT. 69 SHOTS. 2 3/4" GUNS, 16 GM CHARGES, 3 SPF, 120 PHASING. STARTING PRESSURE 3800 PSI. FINAL PRESSURE 3600 PSI. TURNED WELL OVER TO FRAC CREW
	13:00 14:45	1.75	STG06	35		P		PRESSURE TEST LINES @ 9700 PSI. OPENED UP WELL W/ 3520 PSI. BREAK DOWN STAGE # 6 PERFS @ 5034 PSI, 28.6 BPM, 20 BBLS PUMPED. EST INJ RATE 29 BPM 4900 PSI. I.S.I.P. 4022 PSI. F.G. .83, 5 MIN 3707 PSI, 10 MIN 3511 PSI. TREATED PERFS W/ 4000 GALS 15% HCL ACID. PUMPED 3000 LBS 100 MESH IN 1/2 PPG STAGE AND 152,200 LBS TLC 30/50. IN .5#, 1#, 2# AND 3# STAGES. AVG RATE 75 BPM, MAX RATE 75.4 BPM. AVG PRESS 5764, MAX PRESS 5764. I.S.I.P. 4700 PSI. F.G. .89. SHUT WELL IN 3952 BBLS TO RECOVER. TURNED WELL OVER TO WIRELINE
	14:45 17:00	2.25	STG07	21		P		SET CBP @ 10004' W/ 4200 PSI. PERFORATED STAGE # 7 FROM 9989' TO 9705'. ALL PERFS CORRELATED TO PERFORATORS SECTOR CBL, GAMMA RAY, CCL LOG RUN #1 DATED 23-MAR-2015. 23 NET FT. 69 SHOTS. 2 3/4" GUNS, 16 GM CHARGES, 3 SPF, 120 PHASING. STARTING PRESSURE 4200 PSI. FINAL PRESSURE 3400 PSI. TURNED WELL OVER TO FRAC CREW
	17:00 18:00	1.00	STG07	35		P		PRESSURE TEST LINES @ 9500 PSI. OPENED UP WELL W/ 2910 PSI. BREAK DOWN STAGE # 7 PERFS @ 7376 PSI, 19.5 BPM, 25 BBLS PUMPED. EST INJ RATE 29 BPM 5240 PSI. I.S.I.P. 3826 PSI. F.G. .82, 5 MIN 3576 PSI, 10 MIN 3405 PSI. TREATED PERFS W/ 4000 GALS 15% HCL ACID. PUMPED 3000 LBS 100 MESH IN 1/2 PPG STAGE AND 29000 LBS TLC 30/50. IN .5# AND 1# STAGES SCREENEDOUT WHEN 1# HIT PERFS.UNABLE TO FLUSH CSG.
	18:00 20:30	2.50	STG07	19		P		OPEN WELL FLOWED BACK 100 BBLS @ 5 BPM. TRIED TO FLUSH CSG PUMPED 75 BBLS, FORMATION LOCKED UP. UNABLE TO FLUSH CSG, OPENED WELL ON 26/64 CHOKE, FLOWED BACK 320 BBLS WELL DIED. CLOSED IN WELL. CLOSED AND LOCKED ALL FRAC VALVES CLOSED CSG VALVES AND INSTALL NIGHT CAPS. SDFN.
4/9/2015	6:00 7:30	1.50	WLWORK	28		N		CREW TRAVEL HELD SAFETY MEETING ON ON WIRELINE SAFETY FILLED OUT JSA.
	7:30 12:00	4.50	WLWORK	18		N		2600 CSIP. RU WIRELINE. RIH W/ 4" GR/JB UNABLE TO GET PAST LINER TOP @ 9130' POOH, RIH W/ 2 3/4" WEGHT BARS , STILL UNABLE TO GET PAST LINER TOP .POOH RIH W/ OLD PERF GUN W/ BULLNOSE END STILL UNABLE TO GET PAST LINER TOP @ 9130'.
	12:00 13:30	1.50	RDMO	02		N		RD WIRELINE AND PARTIALLY RD HALLIBURTON.
	13:30 16:00	2.50	CTU	42		N		WAIT ON COIL TBG UNIT.

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	16:00 21:00	5.00	MIRU	01		N		MOVE IN COIL TBG EQUIPMENT AND PARTIALLY RU. SHUT DOWN DUE TO HIGH WINDS.
4/10/2015	6:00 6:30	0.50	MIRU	28		P		HELD SAFETY MEETING ON RIGGING UP COIL TBG, FILLED OUT JSA.
	6:30 10:00	3.50	MIRU	01		P		FINISHED RIGGING UP COIL TBG EQUIPMENT. MADE COIL CONNECTION. PULL TEST CONNECTION, PRESSURE TEST CONNECTION. MU MOTOR ASSEMBLY W/ 4 1/8 JZ ROCK BIT, FUNCTION TEST MOTOR.
	10:00 17:30	7.50	CTU	10		P		PRESSURE TEST FLOWBACK LINE AND LUBRICATOR @ 9000 PSI HELD. RIH W/ BHA AND 2" COIL TBG PUMPING 1 BPM AND RETURNING 1 BPM TO 8500' INCREASED RATE TO 2 3/4 BPM AND RETURNING 3 BPM. CLEANED OUT TO CBP @ 10004' (9995 COIL MEASUREMENT). CIRCULATE ON BTM FOR 45 MINS, TOOH TO LINER TOP. CIRCULATE FOR 45 MINS, TOOH W/ COIL TBG BUMPED UP SHUT IN WELL. CLOSED AND LOCKED ALL FRAC VALVES CLOSED CSG VALVES AND INSTALL NIGHT CAPS. SDFN.
4/11/2015	17:30 20:30	3.00	RDMO	02		P		RD COIL TBG EQUIPMENT AND MOVED IT TO THE 1-12C5 SDFN.
	6:00 6:30	0.50	MIRU	28		P		HELD SAFETY MEETING ON RIGGING UP PUMP LINES. FILLED OUT JSA.
	6:30 10:00	3.50	MIRU	01		P		RAN PUMP LINES WAIT ON BREAKER TESTS. PROGRAM JOB.
	10:00 11:00	1.00	STG07	35		P		ATTEMPT TO RE FRAC STAGE 7. PRESSURE TEST LINES @ 9750'. PUMPED FR PAD. PUMPED X-LINK PAD PUMPED 38,000 LBS OF TLC 30/50 IN 1# AND 2# STAGE WENT TO FLUSH ON 2# STAGE DUR=E TO PRESSURE INCREASE. FLUSHED SAND AWAY. AVG PRESS 6964 PSI. MAX PRESS 7389 PSI. AVG RATE 74.3 BPM, MAX RATE 74.6 BPM. 2164 BBLs TO RECOVER TURNED WELL OVER TO WIRELINE.
	11:00 12:30	1.50	STG08	21		P		SET CBP @ 9692' W/ 3000 PSI. PERFORATED STAGE # 8 FROM 9673' TO 9410'. ALL PERFS CORRELATED TO PERFORATORS SECTOR CBL, GAMMA RAY, CCL LOG RUN #1 DATED 23-MAR-2015. 23 NET FT. 69 SHOTS. 2 3/4" GUNS, 16 GM CHARGES, 3 SPF, 120 PHASING. STARTING PRESSURE 3000 PSI. FINAL PRESSURE 2900 PSI. RD WIRELINE. TURNED WELL OVER TO FRAC CREW
	12:30 14:00	1.50	STG08	35		P		PRESSURE TEST LINES @ 9800 PSI. OPENED UP WELL W/ 2280 PSI. BREAK DOWN STAGE # 8 PERFS @ 4399 PSI, 8.8 BPM, 7 BBLs PUMPED. EST INJ RATE 29 BPM 4700 PSI. I.S.I.P. 3401 PSI. F.G. .79, 5 MIN 3255 PSI, 10 MIN 3180 PSI. TREATED PERFS W/ 4000 GALS 15% HCL ACID. PUMPED 3100 LBS 100 MESH IN 1/2 PPG STAGE AND 32500 LBS TLC 30/50. IN .5# AND 1# STAGES SCREENED OUT WHEN 1# HIT PERFS LEFT 11000 LBS SAND IN WELLBORE..UNABLE TO FLUSH CSG. SHUT IN WELL.
	14:00 18:00	4.00	RDMO	02		P		RD FRAC EQUIPMENT AND MOVED IT TO THE 1-12C5.
	18:00 21:00	3.00	MIRU	01		P		MOVED IN RIGGED UP COIL TBG EQUIPMENT. MADE COIL CONNECTION. PULL TEST CONNECTION, PRESSURE TEST CONNECTION. MU MOTOR ASSEMBLY W/ 4 1/8 JZ ROCK BIT, FUNCTION TEST MOTOR.
	21:00 6:00	9.00	CTU	10		P		PRESSURE TEST FLOWBACK LINE AND LUBRICATOR @ 8500 PSI HELD. RIH W/ BHA AND 2" COIL TBG PUMPING 1 BPM AND RETURNING 1 BPM TO 8500' INCREASED RATE TO 2 3/4 BPM AND RETURNING 4 BPM. DRILLED OUT CBP @ 9692', 10004', 10275', 10569', 10855' AND 11542' CLEANOUT TO PBDT 11925' (11928' COIL MEASUREMENT). CIRCULATE ON BTM FOR 1 HR. TOOH TO LINER TOP CIRCULATE FOR 1 HR. SOOH.
4/12/2015	6:00 6:30	0.50	CTU	28		P		HELD SAFETY MEETING ON RIGGING DOWN COIL TBG. FILLED OUT JSA.

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	6:30 10:30	4.00	CTU	18		P		CONTINUED TOOH W/ COIL TBG . BUMPED UP. CLOSED IN WELL, LD BHA. BLEW COIL DRY. RD COIL TBG EQUIPMENT.OPENED UP WELL PSI ON 12/64 CHOKE. TURNED WELL OVER TO FLOWBACK CREW.
	10:30 6:00	19.50	FB	19		P		2500 PSI ON 12/64 CHOKE, RECOVERD 0 MCF, 0 BBLS OIL, 882 BBLS H2O.
4/13/2015	6:00 6:30	0.50	FB	28		P		HELD SAFETY MEETING ON FLOWBACK PROCEDURES FILLED OUT JSA.
	6:30 6:00	23.50	FB	19		P		2600 PSI ON 12/64 CHOKE, RECOVERD 154 MCF, 142 BBLS OIL, 668 BBLS H2O.
4/14/2015	6:00 6:30	0.50	FB	28		P		HELD SAFETY MEETING ON FLOWBACK PROCEDURES FILLED OUT JSA.
	6:30 6:00	23.50	FB	19		P		2500 PSI ON 12/64 CHOKE, RECOVERD 455 MCF, 317 BBLS OIL, 468 BBLS H2O.
4/15/2015	6:00 6:30	0.50	FB	28		P		CREW TRAVEL HELD SAFETY MEETING ON FLOWBACK PROCEDURES. FILLED OUT JSA.
	6:30 6:00	23.50	FB	19		P		2475 PSI ON 12/64 CHOKE, RECOVERD 506 MCF, 359 BBLS OIL, 423 BBLS H2O.
4/16/2015	6:00 7:30	1.50	MIRU	28		P		CREWTRAVEL HELD SAFETY MEETING ON RIGGING UP RIG. FILLED OUT JSA.
	7:30 9:00	1.50	MIRU	01		P		MOVE IN AND RIG UP RIG.
	9:00 12:30	3.50	WLWORK	20		P		RU WIRELINE RIH SET PKR @ 9224' W/ 2400 PSI.STARTED BLEEDING DOWN WELL. RD WIRELINE.
	12:30 14:00	1.50	WHDTRE	16		P		CONTINUED BLEEDING DOWN WELL.ND WIRELINE FLANGE, HCR VALVE, CROSS FLOW, HCR VALVE AND SPOOL LEFT 7" MANUAL FRAC VALVE ON. NU BOP. RU RIG FLOOR . RECOVERED 316 MCF, 111 BBLS OIL AND 130 BBLS H2O.
	14:00 18:00	4.00	INSTUB	24		P		TALLIED AND PU ON-OFF TOOL, 5-JTS 2 3/8 L-80 EUE TBG, X-OVER AND 230-JTS 2 7/8 L-80 EUE TBG EOT @ 7627'. CLOSED IN WELL.CLOSED AND LOCKED PIPE RAMS. CLOSED CSG VALVES AND INSTALL NIGHT CAPS. SDFN.
4/17/2015	6:00 7:30	1.50	INSTUB	28		P		CREW TRAVEL HELD SAFETY MEETING ON TRIPPING TUBING. FILLED OUT JSA.
	7:30 9:30	2.00	INSTUB	24		P		CONTINUED PU TBG. RIH W/ 48-JTS 2 7/8 L-80 EUE TBG. LATCHED ONTO PKR. RELEASED FROM PKR LD 2-JTS 2 7/8 TBG. SPACED OUT TBG W/ 1-2' X 2 7/8 N-80 EUE TBG SUB PU 1-JT 2 7/8 L-80 EUE TBG.
	9:30 12:00	2.50	INSTUB	06		P		CIRCULATE WELL W/ 390 BBLS PKR FLUID.
	12:00 13:30	1.50	INSTUB	16		P		LANDED TBG W/ 6' 2 7/8 TBG SUB UNDER HANGER W/ BPV. IN TBG HEAD. ND BOP REMOVED BPV. REMOVED HANGER AND 6' TBG SUB. LANDED TBG W/ HANGER AND BPV IN TBG HEAD. NU WELLHEAD. PRESSURE TEST WELLHEAD 5000 PSI. PRESSURE TEST FLOW BACK LINE 4000 PSI. REMOVE BPV. PUMP OUT PLUG @ 3200 PSI.
	13:30 16:00	2.50	RDMO	02		P		RD RIG OPENED WELL @ 14:30 ON 14/64 CHOKE W /2100 PSI. MOVED RIG TO THE 3-8B4 MOVED IN RIGGED UP. SDFN 2450 PSI ON 14/64 CHOKE, RECOVERD 274 MCF, 313 BBLS OIL, 380 BBLS H2O.
4/18/2015	6:00 6:30	0.50	FB	28		P		HELD SAFETY MEETING ON FLOWBACK PROCEDURES
	6:30 6:00	23.50	FB	19		P		2400 PSI ON 14/64 CHOKE, RECOVERD 607 MCF, 552 BBLS OIL, 491 BBLS H2O.
4/19/2015	6:00 6:30	0.50	FB	28		P		HELD SAFETY MEETING ON FLOWBACK PROCEDURES. FILLED OUT JSA

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	6:30 6:00	23.50	FB	19		P		2200 PSI ON 16/64 CHOKE, RECOVERD 740 MCF, 577 BBLS OIL, 555 BBLS H2O.
4/20/2015	6:00 6:30	0.50	FB	28		P		HELD SAFETY MEETING ON FLOWBACK PROCEDURES FILLED OUT JSA.
	6:30 6:00	23.50	FB	19		P		2150 PSI ON 16/64 CHOKE, RECOVERD 813 MCF, 590 BBLS OIL, 505 BBLS H2O.

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CENTRAL DIVISION

ALTAMONT FIELD
EP ENERGY 4-12C5
EP ENERGY 4-12C5
DRILLING LAND

Operation Summary Report

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

1 General

1.1 Customer Information

Company	CENTRAL DIVISION
Representative	
Address	

1.2 Well Information

Well	EP ENERGY 4-12C5		
Project	ALTAMONT FIELD	Site	EP ENERGY 4-12C5
Rig Name/No.	PRECISION DRILLING/406	Event	DRILLING LAND
Start date	2/25/2015	End date	3/12/2015
Spud Date/Time	2/27/2015	UWI	EP ENERGY 4-12C5
Active datum	KB @5,951.9ft (above Mean Sea Level)		
Afe No./Description	161312/53493 / EP ENERGY 4-12C5		

2 Summary

2.1 Operation Summary

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
2/20/2015	6:00 18:00	12.00	CASCOND	24		P	0.0	SET 57' 20" CONDUCTOR, SET MOUSE HOLE @ 80'. ADDED RKB CORRECTION FOR PD 406.
	18:00 6:00	12.00	CASSURF	24		P	57.0	DRILL 12 1/4" HOLE TO 2,057'. RAN & CMT 2,034' 9-5/8" 40# N-80 LT&C. FC @ 1,990' SHOE 2,034'. ADDED RKB CORRECTION FOR PD 406.
2/25/2015	6:00 6:00	24.00	MIRU	01		P	2,057.0	95% MOVED IN. 40% RIGGED UP.
2/26/2015	6:00 22:00	16.00	MIRU	01		P	2,057.0	MIRU. 100% MOVED IN. 90% RIGGED UP.
	22:00 6:00	8.00	MIRU	01		P	2,057.0	RIG UP TOP DRIVE.
2/27/2015	6:00 7:00	1.00	MIRU	01		P	2,057.0	FINISHED RU TOP DRIVE. RIG ON RATE @ 07:00 HRS 2/26/15
	7:00 15:00	8.00	CASSURF	28		P	2,057.0	PJSM. NU 11" 10M BOPE. TOUGUE BOLTS W/ WEATHERFORD.
	15:00 23:00	8.00	CASSURF	19		P	2,057.0	PJSM WITH WEATHERFORD. TESTED 11" 5M ANNULAR TO 250 / 2,500 PSI AND REMAINING BOPE, FLOOR VALVES, ETC TO 250 / 5,000 PSI. TESTED CHOKE MANIFOLD TO 250 / 10,000 PSI. HELD EACH TEST 10 MINUTES.
	23:00 0:00	1.00	CASSURF	31		P	2,057.0	TEST CASING TO 2,500 PSI FOR 30 MINUTES. TEST GOOD.
	0:00 0:30	0.50	CASSURF	42		P	2,057.0	INSTALLED WEAR BUSHING.
	0:30 3:00	2.50	CASSURF	14		P	2,057.0	PJSM. PU RYAN DIRECTIONAL TOOLS. SCRIBE, LOCK DOWN MWD PULSE TOOL, RAN SURFACE TEST. MU BIT #1 8 3/4".
	3:00 6:00	3.00	CASSURF	14		P	2,057.0	PU 6 3/4" BHA & 4 1/2" DP.
2/28/2015	6:00 7:00	1.00	CASSURF	14		P	2,057.0	FINISH TIH.
	7:00 8:30	1.50	CASSURF	17		P	2,057.0	SLIP & CUT DRILL LINE.
	8:30 9:30	1.00	CASSURF	32		P	2,057.0	DRILL CMT & FE.
	9:30 10:00	0.50	DRLINT1	07		P	2,057.0	DRILLED 2,057' - 2,067'. SPUD @ 10:00 HRS 2/27/15.
	10:00 10:30	0.50	DRLINT1	33		P	2,067.0	CBU & PERFORM FIT TO 15.4 EMW WITH 9.5 PPG MUD @ 641 PSI.
	10:30 15:00	4.50	DRLINT1	07		P	2,067.0	DRILLED 2,067' - 2,572'.
	15:00 15:30	0.50	DRLINT1	12		P	2,572.0	SERVICED RIG & TD.
	15:30 3:00	11.50	DRLINT1	07		P	2,572.0	DRILLED 2,572' - 3,772'.
	3:00 3:30	0.50	DRLINT1	12		P	3,772.0	SERVICED RIG & TD.
	3:30 6:00	2.50	DRLINT1	07		P	3,772.0	DRILLED F/ 3,772' T/ 4,079'.
3/1/2015	6:00 10:30	4.50	DRLINT1	07		P	4,079.0	DRILLED F/ 4,079' T/ 4,593'.
	10:30 11:00	0.50	DRLINT1	12		P	4,593.0	SERVICE RIG & TD.
	11:00 19:30	8.50	DRLINT1	07		P	4,593.0	DRILLED F/ 4,593' T/ 5,475'.

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	19:30 20:00	0.50	DRLINT1	45		N	5,475.0	4" VALVE IN FRONT OF MUD PUMPS LEAKING. RACK STAND BACK. REPAIRED 4" VALVE.
	20:00 20:30	0.50	DRLINT1	12		P	5,475.0	SERVICE RIG & TD.
	20:30 6:00	9.50	DRLINT1	07		P	5,475.0	DRILLED F/ 5,475' T/ 6,514'. @ 6,182' HOLE BEGAN SEEPING. REDUCED PUMP RATE F/ 550 GPM T/ 500 GPM. PUMPED LCM SWEEPS TO CONTROL LOSSES.
3/2/2015	6:00 11:00	5.00	DRLINT1	07		P	6,514.0	DRILLED F/ 6,514' T/ 6,809'. @ 6,182' HOLE BEGAN SEEPING. REDUCED PUMP RATE F/ 500 GPM T/ 450 GPM. PUMPED LCM SWEEPS TO CONTROL LOSSES.
	11:00 11:30	0.50	DRLINT1	12		P	6,809.0	SERVICE RIG & TD.
	11:30 13:00	1.50	DRLINT1	45		N	6,809.0	CHANGE SWAB , LINER & 5 VALVES AND SEATS IN # 1 MP.
	13:00 13:30	0.50	DRLINT1	07		P	6,809.0	DRILLED F/ 6,857' T/ 6,857'. @ 6,182' HOLE BEGAN SEEPING. REDUCED PUMP RATE F/ 500 GPM T/ 450 GPM. PUMPED LCM SWEEPS TO CONTROL LOSSES.
	13:30 15:00	1.50	DRLINT1	45		N	6,857.0	CHANGE SWAB & LINER # 2 MP.
	15:00 2:30	11.50	DRLINT1	07		P	6,857.0	DRILLED F/ 6,857' T/ 7,662'. @ 6,182' HOLE SEEPING. REDUCED PUMP RATE F/ 450 GPM T/ 425 GPM. PUMPED LCM SWEEPS TO CONTROL LOSSES.
	2:30 4:30	2.00	DRLINT1	45		N	7,662.0	CLEAN SUCTION MANIFOLD MP #2 & REPAIR 2" VALVE.
	4:30 6:00	1.50	DRLINT1	07		P	7,662.0	DRILLED F/ 7,662' T/ 7,765'.
3/3/2015	6:00 15:30	9.50	DRLINT1	07		P	7,765.0	DRILLED F/ 7,765' T/ 8,438'.
	15:30 16:00	0.50	DRLINT1	12		P	8,438.0	SERVICE RIG.
	16:00 2:00	10.00	DRLINT1	07		P	8,438.0	DRILLED F/ 8,438' T/ 9,012'.
	2:00 2:30	0.50	DRLINT1	12		P	9,012.0	SERVICED RIG.
	2:30 6:00	3.50	DRLINT1	07		P	9,012.0	DRILLED F/ 9,012' T/ 9,270'
3/4/2015	6:00 6:30	0.50	DRLINT1	07		P	9,270.0	DRILLED F/ 9,270' T/ 9,274'
	6:30 7:00	0.50	DRLINT1	45		N	9,274.0	WORK ON # 2 MP LINER GASKET.
	7:00 9:30	2.50	DRLINT1	07		P	9,274.0	DRILLED F/ 9,274' T/ 9,305'. TD SECTION @ 09:30 HRS 03/03/15.
	9:30 13:00	3.50	DRLINT1	15		P	9,305.0	C & C MUD. RAISED MUD WEIGHT F/ 9.9 T /10.3. LOST CIRC. CUT MUD WEIGHT BACK IN PITS TO 10.1 PPG. PASON MAX GAS = 2,353 UNITS. 3RD PARTY MAX GAS = 493 UNITS.
	13:00 5:00	16.00	DRLINT1	13		P	9,305.0	POOH TO 8,150' BROKE CIRC. WASH & REAM (8,140' - 7,958'), (7,586' - 7,305'), (4,430' - 4,368'), (3,035' - 2,000). FINISH OUT OF HOLE. LD DIRECTIONAL TOOLS.
	5:00 6:00	1.00	EVLINT1	13		P	9,305.0	TRIP IN HOLE.
3/5/2015	6:00 16:00	10.00	EVLINT1	13		P	9,305.0	TIH BREAKING CIRC EVERY 1,000', CBU EVERY 2,000'. REAMED RESISTANCE @ 7,263' & 7,667'. NO LOSSES.
	16:00 0:30	8.50	EVLINT1	15		P	9,305.0	C&C MUD @ 198 GPM TO 10.1 PPG WITH 43 VIS. MAX GAS 4,440 UNITS, RANGE 2,100- 4,400 UNITS FOR 48 MIN, 4' FLARE, NO GAIN, 3/10 MC. REDUCED PUMP RATE TO 124 GPM & INCREASED MW TO 10.3 PPG. LOST 108 BBLs WHILE CIRC. PASON BGG 555 UNITS.
	0:30 6:00	5.50	EVLINT1	14		P	9,305.0	30 MINUTE FLOW CHECK. WELL STATIC. POOH LDDP. FC @ (6,000') (4,000') (2,000').
3/6/2015	6:00 8:30	2.50	EVLINT1	14		P	9,305.0	LD DP & BHA. PULL WEAR BUSHING.
	8:30 14:00	5.50	EVLINT1	22		P	9,305.0	PJSM. RU & RAN HES STANDARD QUAD COMBO TO 9,305', LOG UP TO SHOE @ 2,037'. PULL TO SURFACE & RD WL.
	14:00 6:00	16.00	CASINT1	24		P	9,305.0	PJSM. RU & RAN 144 JTS 7" 29# HCP-110 LT&C CSG TO 6,004'. CBU EVERY 1,000'. TOTAL MUD LOST RUNNING & CIRC CSG 45 BBLs.
3/7/2015	6:00 11:30	5.50	CASINT1	24		P	9,305.0	RAN 223 JTS 7" 20# HCP-110 LT&C CSG TO 9,298'. FLOAT COLLAR @ 9,255', MARKER JT @ 7,306'. CBU EVERY 1,000'. LOST RETURNS @ 7,000'. LOST 142 BBLs

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	11:30 13:00	1.50	CASINT1	52		N	9,305.0	ATTEMPT TO RE-GAIN RETURNS, NO SUCCESS. PUMPED 10 BBLS 30 PPB LCM, 100 BBLS H2O, 30 BBLS 30 PPB LCM. TOTAL MUD LOST RUNNING & CIRC CSG 256 BBLS.
	13:00 18:00	5.00	CASINT1	25		P	9,305.0	RU HES. MIXED & PUMPED 25 BBLS 10.5 PPG TUNED SPACER . 755 SX (256.8 BBLS) EXTENDACHEM LEAD CMT @ 12.5 PPG, 1.91 YLD TAILED WITH 305 SXS (89 BBLS) OF EXPANDACHEM CMT @ 13 PPG, 1.64 YIELD. REGAINED FULL RETURNS 243 BBLS INTO CMT OPS. RELEASED TOP PLUG. DISPLACED WITH 343 BBLS OF 9.9 PPG MUD @ 3 BPM. BUMPED PLUG @ 17:58 HRS 3/6/15 WITH 2,070 PSI. FINAL CIRC PRESS 1,402 PSI. 2.25 BBL BLED BACK, FLOATS HELD. RD CEMENTERS. RETURNS SLOWED LAST 140 BBLS DISP, LOST RETURNS LAST 52 BBLS DISP. TOTAL LOST 177 BBLS DURING CMT OPS. EST TOC 3,550'.
	18:00 20:00	2.00	CASINT1	27		P	9,305.0	LD LANDING JT. INSTALL & TEST PACK-OFF TO 5,000 PSI FOR 15MIN.
	20:00 21:00	1.00	CASINT1	31		P	9,305.0	TEST CASING TO 2,500 PSI FOR 30 MINUTES WHILE CO TDU SAVER SUB TO 4" XT-39.
	21:00 1:30	4.50	CASINT1	19		P	9,305.0	RU & TESTED 11" 5M ANNULAR TO 250 / 4,000 PSI, RAMS & REMAINING BOPE, FLOOR VALVES, ETC TO 250 / 10,000 PSI. HOLD EACH TEST 10 MINUTES.
	1:30 6:00	4.50	CASINT1	14		P	9,305.0	MU 6-1/8" BHA. TIH PICKING UP 4" DP.
3/8/2015	6:00 11:30	5.50	CASINT1	14		P	9,305.0	TIH PU 4" DP.
	11:30 12:30	1.00	CASINT1	17		P	9,305.0	S&C DRILL LINE.
	12:30 13:00	0.50	CASINT1	12		P	9,305.0	SERVICED RIG & TDU.
	13:00 14:30	1.50	CASINT1	32		P	9,305.0	TAG FC @ 9,255'. DRILL OUT FE, SHOE TRACK & 10'.
	14:30 15:30	1.00	CASINT1	33		P	9,315.0	CBU & ATTEMPT TO PERFORM FIT TO 15.4 EMW WITH 10.6 PPG MUD. BROKE DOWN @ 2,219 PSI, 15.2 EMW.
	15:30 20:00	4.50	DRLPRD	07		P	9,315.0	DRILLED 9,315' - 9,853'.
	20:00 21:30	1.50	DRLPRD	11		P	9,853.0	CBU. WL SURVEY 2.14* @ 9,820'.
	21:30 23:00	1.50	DRLPRD	07		P	9,853.0	DRILLED 9,853' - 10,045'.
3/9/2015	23:00 23:30	0.50	DRLPRD	12		P	10,045.0	SERVICE RIG & TDU.
	23:30 6:00	5.50	DRLPRD	07		P	10,045.0	DRILLED 10,045' - 10,327'.
	6:00 12:00	6.00	DRLPRD	07		P	10,327.0	DRILLED 10,327' - 10,991'.
	12:00 12:30	0.50	DRLPRD	12		P	10,991.0	SERVICED RIG & TDU.
	12:30 23:30	11.00	DRLPRD	07		P	10,991.0	DRILLED 10,991' - 11,938'.
	23:30 0:00	0.50	DRLPRD	12		P	11,938.0	SERVICED RIG & TDU.
	0:00 0:30	0.50	DRLPRD	07		P	11,938.0	DRILLED 11,938' - 12,012'. PRODUCTION TD.
	0:30 1:30	1.00	EVLPRD	15		P	12,012.0	CCM FROM 11.7 - 12.0 PPG. FC. WELL STATIC. LOSTED 120 BBLS WHILE CIRC.
3/10/2015	1:30 5:00	3.50	EVLPRD	13		P	12,012.0	WIPER TRIP TO SHOE @ 9,298'. PARTIAL TO NO DISPLACEMENT RETURNS TRIPPING IN.
	5:00 6:00	1.00	EVLPRD	15		P	12,012.0	ATTEMPT TO CIRC & MIX LCM SWEEP.
	6:00 17:00	11.00	EVLPRD	15		P	12,012.0	PUMPED 30 BBL LCM SWEEP @ 25 PPB (15 PPB BARASEAL, 10 PPB CEDAR FIBER) AND CIRC @ 118-173 GPM, REGAINED FULL RETURNS. DISPLACED HOLE WITH 11.7 PPG MUD, BG GAS 3,570 UNITS WITH 1.5 PPG MC, 10- 15' FLARE FOR 20 MIN. INCREASED MW TO 12 PPG & REDUCED RATE TO 153 GPM, BG 2,320 UNITS WITH 5/10 MC. INCREASED MW TO 12.2 PPG, BG GAS 390 UNITS. SIMULATED CONN & CBU. MAX GAS 2,461 UNITS 2/10 MC & 3' FLARE FOR 4 MIN. INCREASED MW TO 12.3 PPG & CIRC @ 197 GPM. NO LOSSES AFTER REGAINING RETURNS. FINAL BG GAS 285 UNITS. FC FOR 30 MIN, WELL STATIC.
	17:00 0:00	7.00	EVLPRD	13		P	12,012.0	POOH. FC @ 9,300', 4,650', 2,000' & BHA. WELL STATIC. HOLE TOOK PROPER FILL.

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	0:00 5:00	5.00	EVLPRD	22		P	12,012.0	CLEAN OFF RIG FLOOR. PJSM WITH HES. RU & RUN ULTRA SLIM QUAD COMBO FROM 12,012' TO CSG SHOE. RD LOGGERS.
	5:00 6:00	1.00	CASPRD1	24		P	12,012.0	PJSM. RU CSG CREW & TORQUE TURN.
3/11/2015	6:00 9:30	3.50	CASPRD1	24		P	12,012.0	PJSM. RU & RAN 69 JTS 5" 18# P-110HC STL LINER. 2 MARKER JTS. MADE UP VERSAFLEX LINER HANGER ASSEMBLY & SETTING TOOL.
	9:30 10:00	0.50	CASPRD1	15		P	12,012.0	INSTALLED ROTATING ELEMENT. CIRC LINER VOLUME @ 2.5 BPM. RD CSG CREW.
	10:00 16:30	6.50	CASPRD1	24		P	12,012.0	TIH W/ 5" LINER ON 4" DP @ 95 FPM TO 9,240'. BREAK CIRC EVERY 1,000'. CBU @ 2.5 BPM. MAX GAS 5,025 UNITS. 3/10 MC. 4' FLARE FOR 20 MIN. FINAL BG 1,047 UNITS.
	16:30 19:00	2.50	CASPRD1	24		P	12,012.0	TIH @ 60 FPM WITH 5" LINER ON 4" DP. BREAK CIRC EVERY 1,000'. TAG BTM WITH 10K. NO LOSSES. SPACED OUT & RU CMT HEAD.
	19:00 22:30	3.50	CASPRD1	15		P	12,012.0	CIRC 2X BU. INITIAL RATE 1.1 BPM, INCREASED TO 2.5 BPM, PRESSURE LEVELED OFF AFTER 1 BU. MAX GAS 5,304 UNITS, 2/10 MC. 5' FLARE FOR 30 MIN, NO GAIN. BG GAS 3,500 UNITS. FINAL CIRC PRESSURE 838 PSI @ 2.5 BPM. NO LOSSES DURING CIRCULATION.
	22:30 1:00	2.50	CASPRD1	25		P	12,012.0	RU HES & TESTED LINES TO 9,500 PSI. PUMPED 20 BBLS 11.9 PPG TUNED SPACER & 220 SKS (59.5 BBLS) 14.2 PPG WITH 1.52 YIELD EXPANDACEM CMT @ 44% EXCESS. WASHED LINES. DROPPED DP DART. PUMPED 60 BBLS H2O WITH 2% KCL 0.1 % BIOCIDES, 82.5 BBLS 11.7 PPG MUD. BUMPED PLUG WITH 2,780PSI @ 00:58 HRS 3/11/15. CHECKED FLOATS, FLOATS HELD, 1.5 BBLS BLED BACK. NO LOSSES DURING CMT OPS. EST TOC 9,125'.
	1:00 1:30	0.50	CASPRD1	25		P	12,012.0	RELEASED BALL, RUPTURE DISC @ 5,419 PSI. PUMPED 49 BBLS, PRESSURED TO 7,328 PSI, EXPANDED HANGER. PULL TESTED LINER WITH 80K OVERPULL. SAT DOWN 90K, RELEASED SETTING TOOL FROM LINER HANGER. LANDED FS @ 12,009', FC @ 11,964', LC @ 11,924'. TOL @ 9,125'. 173' OF LAP. TOTAL LINER 2,884'. MARKER JT TOPS @ 11,005' & 10,010'.
	1:30 2:30	1.00	CASPRD1	15		P	12,012.0	PULLED UP TO TOL. OBSERVED 2 OVERPULLS OF 5K THROUGH CLAD SECTION. CIRC 1.5 TIMES ANNULAR VOLUME. 20 BBLS WEIGHTED SPACER & 17 BBLS WEIGHTED CEMENT TO SURFACE. POSITIVE TEST TOL TO 1,000 PSI FOR 10MIN.
	2:30 5:00	2.50	CASPRD1	15		P	12,012.0	PUMPED 290 BBLS H2O WITH NO ADDITIVES, 320 BBLS H2O WITH 2% KCL 0.1 % BIOCIDES TILL CLEAN RETURNS. RD HES. FLOW CHECK. WELL STATIC.
	5:00 6:00	1.00	CASPRD1	14		P	12,012.0	LDDP.
3/12/2015	6:00 15:30	9.50	CASPRD1	14		P	12,012.0	LDDP.
	15:30 19:00	3.50	CASPRD1	29		P	12,012.0	ND BOPE.
	19:00 20:30	1.50	CASPRD1	27		P	12,012.0	INSTALL TBG HEAD & FRAC VALVE. TESTED HEAD TO 5,000 PSI FOR 30MIN. RIG RELEASED @ 20:30 HRS 03/11/15.
	20:30 6:00	9.50	RDMO	02		P	12,012.0	RIG DOWN & PREP FOR MOVE TO KUSHMAUL 5-10C4.

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STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
1. TYPE OF WELL Oil Well	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.	7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 1001 Louisiana , Houston, TX, 77002	8. WELL NAME and NUMBER: EP Energy 4-12C5
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1921 FSL 1068 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESE Section: 12 Township: 03.0S Range: 05.0W Meridian: U	9. API NUMBER: 4301353240000
PHONE NUMBER: 713 997-5138 Ext	9. FIELD and POOL or WILDCAT: ALTAMONT
	COUNTY: DUCHESNE
	STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 10/10/2016	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
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	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
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	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
 Please find attached the proposed recompletion procedure along with current and post WBD's.

Approved by the
 September 19, 2016
 Oil, Gas and Mining

Date: _____

By: *D. K. Quist*

NAME (PLEASE PRINT) Linda Renken	PHONE NUMBER 713 997-5138	TITLE Sr. Regulatory Analyst
SIGNATURE N/A	DATE 9/15/2016	

EP Energy 4-12C5 Recom Summary Procedure

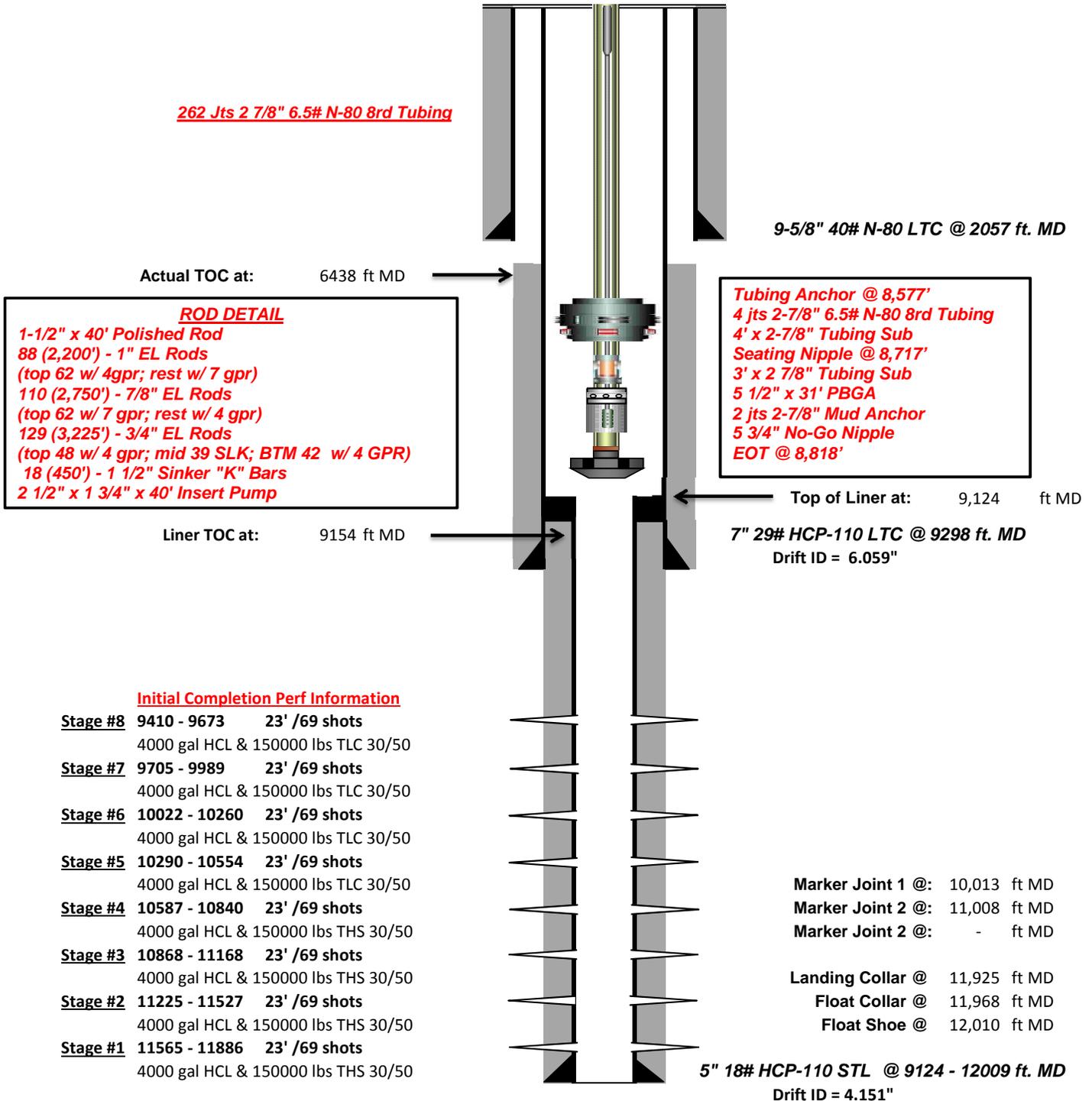
- POOH with rods & tubing. Inspect/Repair/Re-furbish as needed. Replace any bad tubing.
- Set 15M CBP for 5" 18# casing @ 9,390' and dump bail 15' cmt on top of plug.
- Stage 1:
 - Perforate new UW/LGR interval from **9,070' – 9,338'**.
 - Prop Frac perforations with **140,000** lbs 30/50 prop (w/ **6,000** lbs 100 mesh & **9,000** gals 15% HCl acid) (Stage 1 Recom).
- Stage 2:
 - RIH with 7" CBP & set @ 8,770'.
 - Perforate new LGR interval from **8,630 – 8,755'**.
 - Acid Frac Perforations with **15,000** gals 15% HCl acid (Stage 2 Recom).
- Stage 3:
 - RIH with 7" CBP & set @ 8,441'.
 - Perforate new LGR interval from **8,210' – 8,426'**.
 - Prop Frac perforations with **130,000** lbs 30/50 prop (w/ **6,000** lbs 100 mesh & **7,500** gals 15% HCl acid) (Stage 3 Recom).
- Clean out well drilling up (2) 7" CBPs leaving 5" 15M CBP @ 9,390' w/ 15' CMT. (PBSD @ 9,375'). Top perf BELOW plugs @ 9,410'.
- RIH w/ production tubing, pump, and rods.
- Clean location and resume production.



Current Pumping Wellbore Schematic

Well Name: **EP Energy 4-12C5**
 Company Name: **EP Energy**
 Field, County, State: **Altamont, Duchesne, Utah**
 Surface Location: **Lat: 40°13'58.27104" N Long: 110°23'34.87589" W**
 Producing Zone(s): **Wasatch**

Last Updated: **9/14/2016**
 By: **Krug**
 TD: **12,010**
 API: **4301353240**
 AFE: **161312**

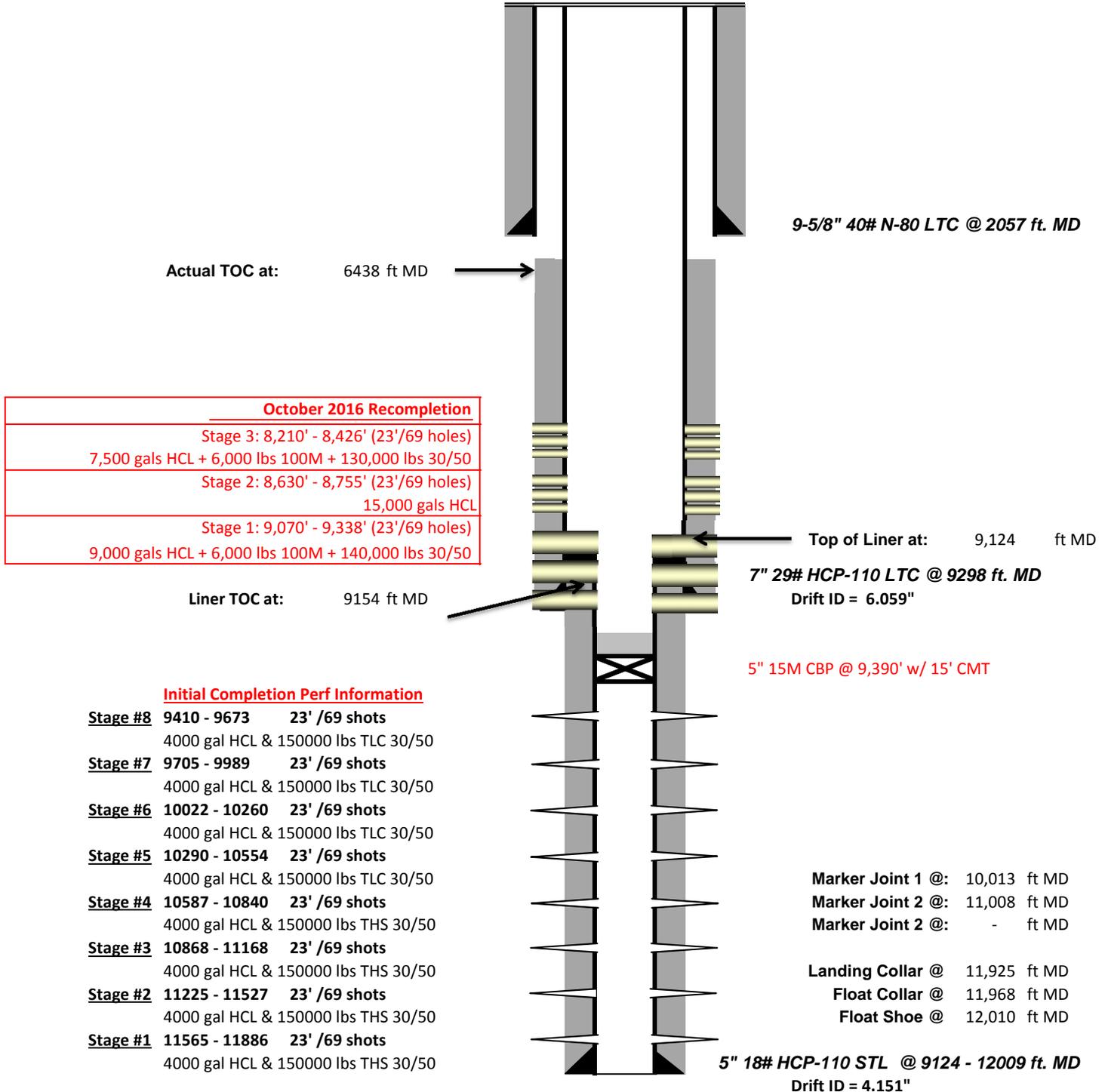




Proposed Recom Wellbore Schematic

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 Company Name: **EP Energy**
 Field, County, State: **Altamont, Duchesne, Utah**
 Surface Location: **Lat: 40°13'58.27104" N Long: 110°23'34.87589" W**
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Last Updated: **9/14/2016**
 By: **Krug**
 TD: **12,010**
 API: **4301353240**
 AFE: **161312**



October 2016 Recompletion	
Stage 3: 8,210' - 8,426' (23'/69 holes)	7,500 gals HCL + 6,000 lbs 100M + 130,000 lbs 30/50
Stage 2: 8,630' - 8,755' (23'/69 holes)	15,000 gals HCL
Stage 1: 9,070' - 9,338' (23'/69 holes)	9,000 gals HCL + 6,000 lbs 100M + 140,000 lbs 30/50

Initial Completion Perf Information		
Stage #8	9410 - 9673	23' /69 shots
	4000 gal HCL & 150000 lbs TLC 30/50	
Stage #7	9705 - 9989	23' /69 shots
	4000 gal HCL & 150000 lbs TLC 30/50	
Stage #6	10022 - 10260	23' /69 shots
	4000 gal HCL & 150000 lbs TLC 30/50	
Stage #5	10290 - 10554	23' /69 shots
	4000 gal HCL & 150000 lbs TLC 30/50	
Stage #4	10587 - 10840	23' /69 shots
	4000 gal HCL & 150000 lbs THS 30/50	
Stage #3	10868 - 11168	23' /69 shots
	4000 gal HCL & 150000 lbs THS 30/50	
Stage #2	11225 - 11527	23' /69 shots
	4000 gal HCL & 150000 lbs THS 30/50	
Stage #1	11565 - 11886	23' /69 shots
	4000 gal HCL & 150000 lbs THS 30/50	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
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2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.	7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 1001 Louisiana , Houston, TX, 77002	8. WELL NAME and NUMBER: EP Energy 4-12C5
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1921 FSL 1068 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESE Section: 12 Township: 03.0S Range: 05.0W Meridian: U	9. API NUMBER: 43013532400000
3. ADDRESS OF OPERATOR: 1001 Louisiana , Houston, TX, 77002	PHONE NUMBER: 713 997-5138 Ext
9. FIELD and POOL or WILDCAT: ALTAMONT	COUNTY: DUCHESNE
STATE: UTAH	STATE: UTAH

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

Approved by the
October 06, 2016
Oil, Gas and Mining

Date: _____
 By: DeKQ

NAME (PLEASE PRINT) Linda Renken	PHONE NUMBER 713 997-5138	TITLE Sr. Regulatory Analyst
SIGNATURE N/A	DATE 10/3/2016	

EP Energy 4-12C5 Recom Summary Procedure

- POOH with rods & tubing. Inspect/Repair/Re-furbish as needed. Replace any bad tubing.
- Set 15M CBP for 5" 18# casing @ 9,390' and dump bail 15' cmt on top of plug.
- Stage 1:
 - Perforate new UW/LGR interval from **9,070' – 9,338'**.
 - Prop Frac perforations with **140,000** lbs 30/50 prop (w/ **6,000** lbs 100 mesh & **9,000** gals 15% HCl acid) (Stage 1 Recom).
- Stage 2:
 - RIH with 7" CBP & set @ 8,770'.
 - Perforate new LGR interval from **8,630 – 8,755'**.
 - Acid Frac Perforations with **15,000** gals 15% HCl acid (Stage 2 Recom).
- Stage 3:
 - RIH with 7" CBP & set @ 8,441'.
 - Perforate new LGR interval from **8,222' – 8,426'**.
 - Prop Frac perforations with **130,000** lbs 30/50 prop (w/ **6,000** lbs 100 mesh & **7,500** gals 15% HCl acid) (Stage 3 Recom).
- Stage 4:
 - RIH with 7" CBP & set @ 8,171'.
 - Perforate new LGR interval from **8,004 – 8,156'**.
 - Acid Frac Perforations with **16,000** gals 15% HCl acid (Stage 4 Recom).
 -
- Clean out well drilling up (3) 7" CBPs leaving 5" 15M CBP @ 9,390' w/ 15' CMT. (PBSD @ 9,375'). Top perf BELOW plugs @ 9,410'.
- RIH w/ production tubing, pump, and rods.
- Clean location and resume production.



Current Pumping Wellbore Schematic

Well Name: **EP Energy 4-12C5**
 Company Name: **EP Energy**
 Field, County, State: **Altamont, Duchesne, Utah**
 Surface Location: **Lat: 40°13'58.27104" N Long: 110°23'34.87589" W**
 Producing Zone(s): **Wasatch**

Last Updated: **9/14/2016**
 By: **Krug**
 TD: **12,010**
 API: **4301353240**
 AFE: **161312**

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

9-5/8" 40# N-80 LTC @ 2057 ft. MD

Actual TOC at: 6438 ft MD

ROD DETAIL
 1-1/2" x 40' Polished Rod
 88 (2,200') - 1" EL Rods
 (top 62 w/ 4gpr; rest w/ 7 gpr)
 110 (2,750') - 7/8" EL Rods
 (top 62 w/ 7 gpr; rest w/ 4 gpr)
 129 (3,225') - 3/4" EL Rods
 (top 48 w/ 4 gpr; mid 39 SLK; BTM 42 w/ 4 GPR)
 18 (450') - 1 1/2" Sinker "K" Bars
 2 1/2" x 1 3/4" x 40' Insert Pump

Tubing Anchor @ 8,577'
 4 jts 2-7/8" 6.5# N-80 8rd Tubing
 4' x 2-7/8" Tubing Sub
 Seating Nipple @ 8,717'
 3' x 2 7/8" Tubing Sub
 5 1/2" x 31' PBGA
 2 jts 2-7/8" Mud Anchor
 5 3/4" No-Go Nipple
 EOT @ 8,818'

Top of Liner at: 9,124 ft MD

Liner TOC at: 9154 ft MD

7" 29# HCP-110 LTC @ 9298 ft. MD
 Drift ID = 6.059"

Initial Completion Perf Information

- Stage #8** 9410 - 9673 23' /69 shots
4000 gal HCL & 150000 lbs TLC 30/50
- Stage #7** 9705 - 9989 23' /69 shots
4000 gal HCL & 150000 lbs TLC 30/50
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- Stage #3** 10868 - 11168 23' /69 shots
4000 gal HCL & 150000 lbs THS 30/50
- Stage #2** 11225 - 11527 23' /69 shots
4000 gal HCL & 150000 lbs THS 30/50
- Stage #1** 11565 - 11886 23' /69 shots
4000 gal HCL & 150000 lbs THS 30/50

- Marker Joint 1 @: 10,013 ft MD
- Marker Joint 2 @: 11,008 ft MD
- Marker Joint 2 @: - ft MD
- Landing Collar @ 11,925 ft MD
- Float Collar @ 11,968 ft MD
- Float Shoe @ 12,010 ft MD

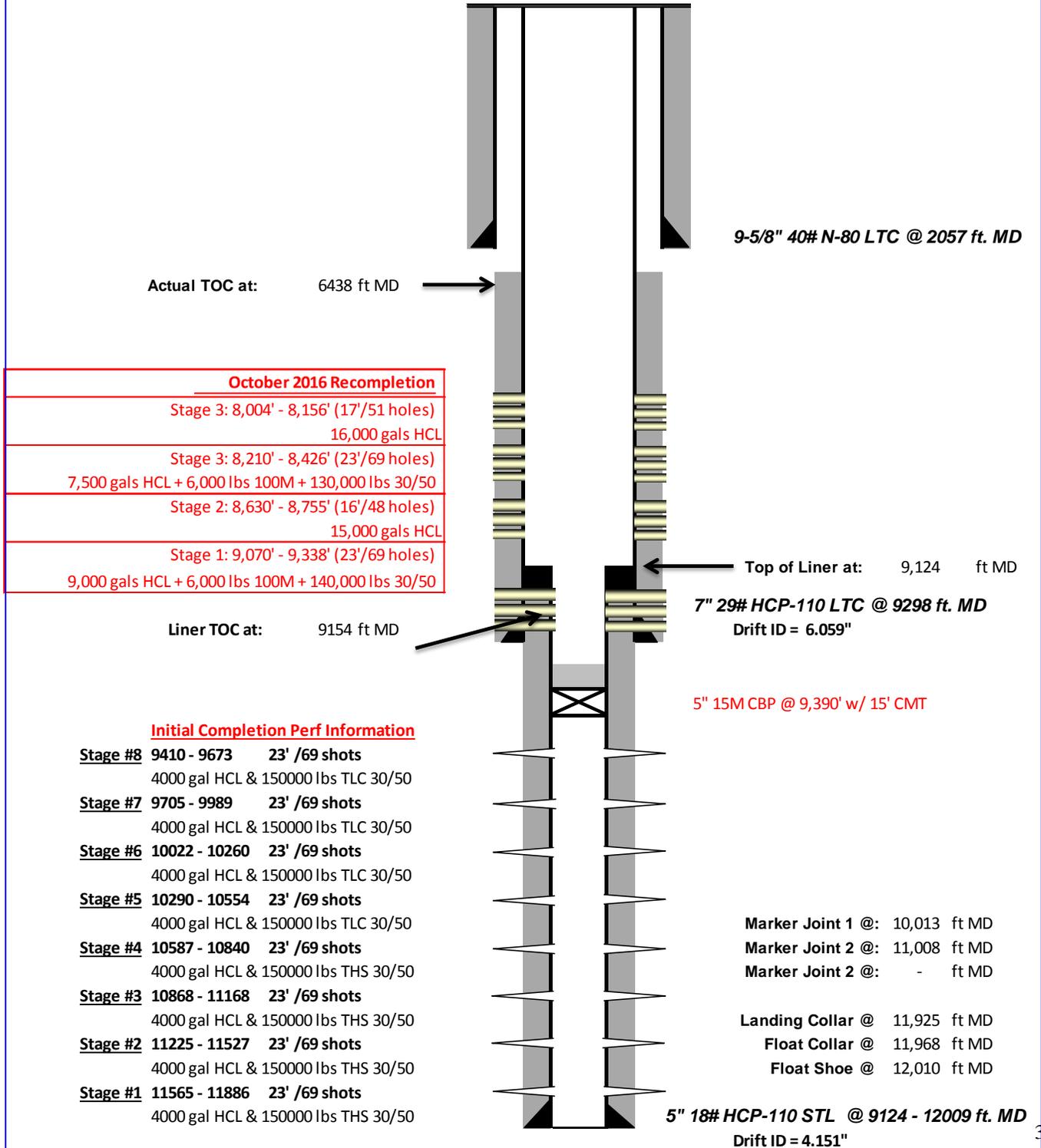
5" 18# HCP-110 STL @ 9124 - 12009 ft. MD
 Drift ID = 4.151"



Proposed Recom Wellbore Schematic

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 Field, County, State: **Altamont, Duchesne, Utah**
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Last Updated: **9/21/2016**
 By: **Krug**
 TD: **12,010**
 API: **4301353240**
 AFE: **161312**



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3. ADDRESS OF OPERATOR: 1001 Louisiana , Houston, TX, 77002	PHONE NUMBER: 713 997-5138 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1921 FSL 1068 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESE Section: 12 Township: 03.0S Range: 05.0W Meridian: U	9. FIELD and POOL or WILDCAT: ALTAMONT
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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Please see attached the change of plans procedure along with current and post WBD's. This change is to previously approved Sundry 74443 as we plan to add a stage 4.

Approved by the
October 06, 2016
Oil, Gas and Mining

Date: _____
 By: D. K. Quist

NAME (PLEASE PRINT) Linda Renken	PHONE NUMBER 713 997-5138	TITLE Sr. Regulatory Analyst
SIGNATURE N/A	DATE 10/3/2016	

EP Energy 4-12C5 Recom Summary Procedure

- POOH with rods & tubing. Inspect/Repair/Re-furbish as needed. Replace any bad tubing.
- Set 15M CBP for 5" 18# casing @ 9,390' and dump bail 15' cmt on top of plug.
- Stage 1:
 - Perforate new UW/LGR interval from **9,070' – 9,338'**.
 - Prop Frac perforations with **140,000** lbs 30/50 prop (w/ **6,000** lbs 100 mesh & **9,000** gals 15% HCl acid) (Stage 1 Recom).
- Stage 2:
 - RIH with 7" CBP & set @ 8,770'.
 - Perforate new LGR interval from **8,630 – 8,755'**.
 - Acid Frac Perforations with **15,000** gals 15% HCl acid (Stage 2 Recom).
- Stage 3:
 - RIH with 7" CBP & set @ 8,441'.
 - Perforate new LGR interval from **8,222' – 8,426'**.
 - Prop Frac perforations with **130,000** lbs 30/50 prop (w/ **6,000** lbs 100 mesh & **7,500** gals 15% HCl acid) (Stage 3 Recom).
- Stage 4:
 - RIH with 7" CBP & set @ 8,171'.
 - Perforate new LGR interval from **8,004 – 8,156'**.
 - Acid Frac Perforations with **16,000** gals 15% HCl acid (Stage 4 Recom).
 -
- Clean out well drilling up (3) 7" CBPs leaving 5" 15M CBP @ 9,390' w/ 15' CMT. (PBSD @ 9,375'). Top perf BELOW plugs @ 9,410'.
- RIH w/ production tubing, pump, and rods.
- Clean location and resume production.



Current Pumping Wellbore Schematic

Well Name: **EP Energy 4-12C5**
 Company Name: **EP Energy**
 Field, County, State: **Altamont, Duchesne, Utah**
 Surface Location: **Lat: 40°13'58.27104" N Long: 110°23'34.87589" W**
 Producing Zone(s): **Wasatch**

Last Updated: **9/14/2016**
 By: **Krug**
 TD: **12,010**
 API: **4301353240**
 AFE: **161312**

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

9-5/8" 40# N-80 LTC @ 2057 ft. MD

Actual TOC at: 6438 ft MD

ROD DETAIL
 1-1/2" x 40' Polished Rod
 88 (2,200') - 1" EL Rods
 (top 62 w/ 4gpr; rest w/ 7 gpr)
 110 (2,750') - 7/8" EL Rods
 (top 62 w/ 7 gpr; rest w/ 4 gpr)
 129 (3,225') - 3/4" EL Rods
 (top 48 w/ 4 gpr; mid 39 SLK; BTM 42 w/ 4 GPR)
 18 (450') - 1 1/2" Sinker "K" Bars
 2 1/2" x 1 3/4" x 40' Insert Pump

Tubing Anchor @ 8,577'
 4 jts 2-7/8" 6.5# N-80 8rd Tubing
 4' x 2-7/8" Tubing Sub
 Seating Nipple @ 8,717'
 3' x 2 7/8" Tubing Sub
 5 1/2" x 31' PBGA
 2 jts 2-7/8" Mud Anchor
 5 3/4" No-Go Nipple
 EOT @ 8,818'

Top of Liner at: 9,124 ft MD

Liner TOC at: 9154 ft MD

7" 29# HCP-110 LTC @ 9298 ft. MD
 Drift ID = 6.059"

Initial Completion Perf Information

- Stage #8** 9410 - 9673 23' /69 shots
4000 gal HCL & 150000 lbs TLC 30/50
- Stage #7** 9705 - 9989 23' /69 shots
4000 gal HCL & 150000 lbs TLC 30/50
- Stage #6** 10022 - 10260 23' /69 shots
4000 gal HCL & 150000 lbs TLC 30/50
- Stage #5** 10290 - 10554 23' /69 shots
4000 gal HCL & 150000 lbs TLC 30/50
- Stage #4** 10587 - 10840 23' /69 shots
4000 gal HCL & 150000 lbs THS 30/50
- Stage #3** 10868 - 11168 23' /69 shots
4000 gal HCL & 150000 lbs THS 30/50
- Stage #2** 11225 - 11527 23' /69 shots
4000 gal HCL & 150000 lbs THS 30/50
- Stage #1** 11565 - 11886 23' /69 shots
4000 gal HCL & 150000 lbs THS 30/50

Marker Joint 1 @: 10,013 ft MD
 Marker Joint 2 @: 11,008 ft MD
 Marker Joint 2 @: - ft MD

Landing Collar @ 11,925 ft MD
 Float Collar @ 11,968 ft MD
 Float Shoe @ 12,010 ft MD

5" 18# HCP-110 STL @ 9124 - 12009 ft. MD
 Drift ID = 4.151"



Proposed Recom Wellbore Schematic

Well Name: **EP Energy 4-12C5**
 Company Name: **EP Energy**
 Field, County, State: **Altamont, Duchesne, Utah**
 Surface Location: **Lat: 40°13'58.27104" N Long: 110°23'34.87589" W**
 Producing Zone(s): **Wasatch**

Last Updated: **9/21/2016**
 By: **Krug**
 TD: **12,010**
 API: **4301353240**
 AFE: **161312**

