

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 Olsen 4-18C4				
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') Ryan Patrick & Mari Burns						14. SURFACE OWNER PHONE (if box 12 = 'fee') 801-518-0419				
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee') P.O. Box 478, Duchesne, UT 84021						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		1250 FSL 1300 FWL		SWSW	18	3.0 S	4.0 W	U		
Top of Uppermost Producing Zone		1250 FSL 1300 FWL		SWSW	18	3.0 S	4.0 W	U		
At Total Depth		1250 FSL 1300 FWL		SWSW	18	3.0 S	4.0 W	U		
21. COUNTY DUCHESNE			22. DISTANCE TO NEAREST LEASE LINE (Feet) 1250			23. NUMBER OF ACRES IN DRILLING UNIT 640				
27. ELEVATION - GROUND LEVEL 5876			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 2700			26. PROPOSED DEPTH MD: 11900 TVD: 11900				
			28. BOND NUMBER 400JU0708			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE Duchesne City				
Hole, Casing, and Cement Information										
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
Cond	17.5	13.375	0 - 600	54.5	J-55 ST&C	9.0	Class G	758	1.15	15.8
Surf	12.25	9.625	0 - 2500	40.0	N-80 LT&C	9.3	Unknown	312	3.16	11.0
							Unknown	194	1.31	14.3
I1	8.75	7	0 - 9000	29.0	HCP-110 LT&C	10.6	Unknown	422	1.91	12.5
							Unknown	216	1.65	13.0
L1	6.125	5	8800 - 11900	18.0	HCP-110 LT&C	13.0	Unknown	184	1.47	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 04/07/2014			EMAIL maria.gomez@epenergy.com				
API NUMBER ASSIGNED 43013529010000			APPROVAL			 Permit Manager				

**Olsen 4-18C4
Sec. 18, T3S, R4W
DUCHESNE COUNTY, UT**

EP ENERGY E&P COMPANY, L.P.

DRILLING PROGRAM

1. Estimated Tops of Important Geologic Markers

<u>Formation</u>	<u>Depth</u>
Green River (GRRV)	3,993' TVD
Green River (GRTN1)	4,693' TVD
Mahogany Bench	5,793' TVD
L. Green River	6,973' TVD
Wasatch	8,863' TVD
T.D. (Permit)	11,900' TVD

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

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
	Green River (GRRV)	3,993' MD / TVD
	Green River (GRTN1)	4,693' MD / TVD
	Mahogany Bench	5,793' MD / TVD
Oil	L. Green River	6,973' MD / TVD
Oil	Wasatch	8,863' MD / TVD

3. Pressure Control Equipment: (Schematic Attached)

A 4.5" by 20.0" rotating head on structural pipe from surface to 600' MD/TVD. A 4.5" by 13-3/8" Diverter Stack w/ Smith Rotating Head from 600' MD/TVD to 2,500' MD/TVD on Conductor. A 10M BOP stack w/ rotating head, spacer spool, 5M annular, flex rams, blind rams & single w/ flex rams from 2,500' MD/TVD to 9,000' MD/TVD. A 10M BOP stack w/ rotating head, spacer spool, 5M annular, flex rams, blind rams & single w/ flex rams from 9,000' MD/TVD to TD (11,900' MD/TVD).

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

OPERATORS MINIMUM SPECIFICATIONS FOR BOPE:

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

will be tested to 1,000 psi. for 30 mins. Intermediate casing will be tested to the greater of 1,500 psi or 0.22 psi/ft. The choke manifold equipment, upper Kelly cock and floor safety valves will be tested to 5M psi. The annular preventer will be tested to 250 psi low test / 4,000 psi high test. The 10M BOP will be installed with 3-½" pipe rams, blind rams, mud cross and rotating head from surface shoe to TD. The BOPE will be hydraulically operated.

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

Statement on Accumulator System and Location of Hydraulic Controls:

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

Auxiliary Equipment:

- A) Pason Gas Monitoring 600' - TD
- B) Mud logger with gas monitor – 2,500' to TD (11,900' 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	WBM	9.0 – 9.3
Intermediate	WBM	9.4 – 10.6
Production	WBM	11.6 – 13.0

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: 2,500' MD/TVD – TD (11,900' 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 11,900' TVD equals approximately 8,044 psi. This is calculated based on a 0.676 psi/ft gradient (13.0 ppg mud density at TD).

Maximum anticipated surface pressure equals approximately 5,426 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 9,000' TVD = 7,200 psi

BOPE and casing design will be based on the lesser of the two MASPs which is 5,426 psi.

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

DRILLING PROGRAM

CASING PROGRAM	SIZE	INTERVAL		WT.	GR.	CPLG.	BURST	COLLAPSE	TENSION
CONDUCTOR	13 3/8"	0	600	54.5	J-55	STC	2,740	1,130	514
SURFACE	9-5/8"	0	2500	40.00	N-80	LTC	5,750	3,090	737
INTERMEDIATE	7"	0	9000	29.00	HCP-110	LTC	11,220	9,750	797
PRODUCTION LINER	5'	8800	11900	18.00	HCP-110	STL	13,940	15,450	495

CEMENT PROGRAM		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
CONDUCTOR		600	Class G + 3% CACL2	758	100%	15.8 ppg	1.15
SURFACE	Lead	2,000	EXTENDACEM SYSTEM: Class V Cement + 5 lbm/sk Silicalite Compacted + 0.25 lbm/sk Kwik Seal + 0.125 lbm/sk Poly-E-Flake + 8% Bentonite + 0.3% D-AIR 5000	312	75%	11.0 ppg	3.16
	Tail	500	HALCEM SYSTEM: Class G Cement + 3 lbm/sk Silicalite Compacted + 1% Salt + 0.3% Econolite + 0.25 lbm/sk Poly-E-Flake + 0.25 lbm/sk Kwik Seal + 0.35% HR-5 + 0.3% D-Air 5000	194	50%	14.3 ppg	1.31
INTERMEDIATE	Lead	4,900	EXPANDACEM SYSTEM: Class G Cement + 6% Bentonite + 0.2% Econolite + 0.3% Versaset + 0.7% HR-5 + 0.3% Super CBL + 0.2% Halad(R)-322 + 0.125 lbm/sk Poly-E-Flake	422	10%	12.5 ppg	1.91
	Tail	2,100	BONDCEM SYSTEM: Class G Cement + 4% Bentonite + 0.25 Poly-E-Flake + 0.1% Halad-413 + 5 lb/sk Silicalite Compacted + 0.15% SA-1015 + 0.5% HR-5	216	10%	13.0 ppg	1.65
PRODUCTION LINER		3,100	EXTENDACEM SYSTEM: Class G Cement + 0.3% Super CBL + 0.6% SCR-100 + 0.3% Halad-413 + 0.125 lbm/sk Poly-E-Flake + 3 lbm/sk Silicalite Compacted + 20% SSA-1 + 0.1% SA-1015	184	25%	14.20	1.47

FLOAT EQUIPMENT & CENTRALIZERS	
CONDUCTOR	PDC drillable guide shoe, 1 joint, PDC drillable float collar. Thread lock all float equipment. Install bow spring centralizers on the bottom 3 joints of casing.
SURFACE	PDC drillable guide shoe, 1 joint casing, PDC drillable float collar & Stage collar. Thread lock all float equipment. Install bow spring centralizers on the bottom 3 joints of casing & every 3rd joint thereafter.
INTERMEDIATE	PDC drillable 10M,P-110 float shoe, 1 joint, PDC drillable 10M, P-110 float collar. Thread lock all float equipment. Maker joint at 6,900'.
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.
OLSEN 4-18C4
SECTION 18, T3S, R4W, 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 3.54 MILES TO AN INTERSECTION;

TURN RIGHT AND TRAVEL EASTERLY ON A COUNTY ROAD 0.37 MILES TO THE BEGINNING OF THE ACCESS ROAD;

TURN LEFT AND TRAVEL NORTHERLY THEN WESTERLY FOLLOWING ROAD FLAGS 0.30 MILES TO THE PROPOSED LOCATION;

TOTAL DISTANCE FROM DUCHESNE, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 4.21 MILES.

CONFIDENTIAL

EP ENERGY E&P COMPANY, L.P.

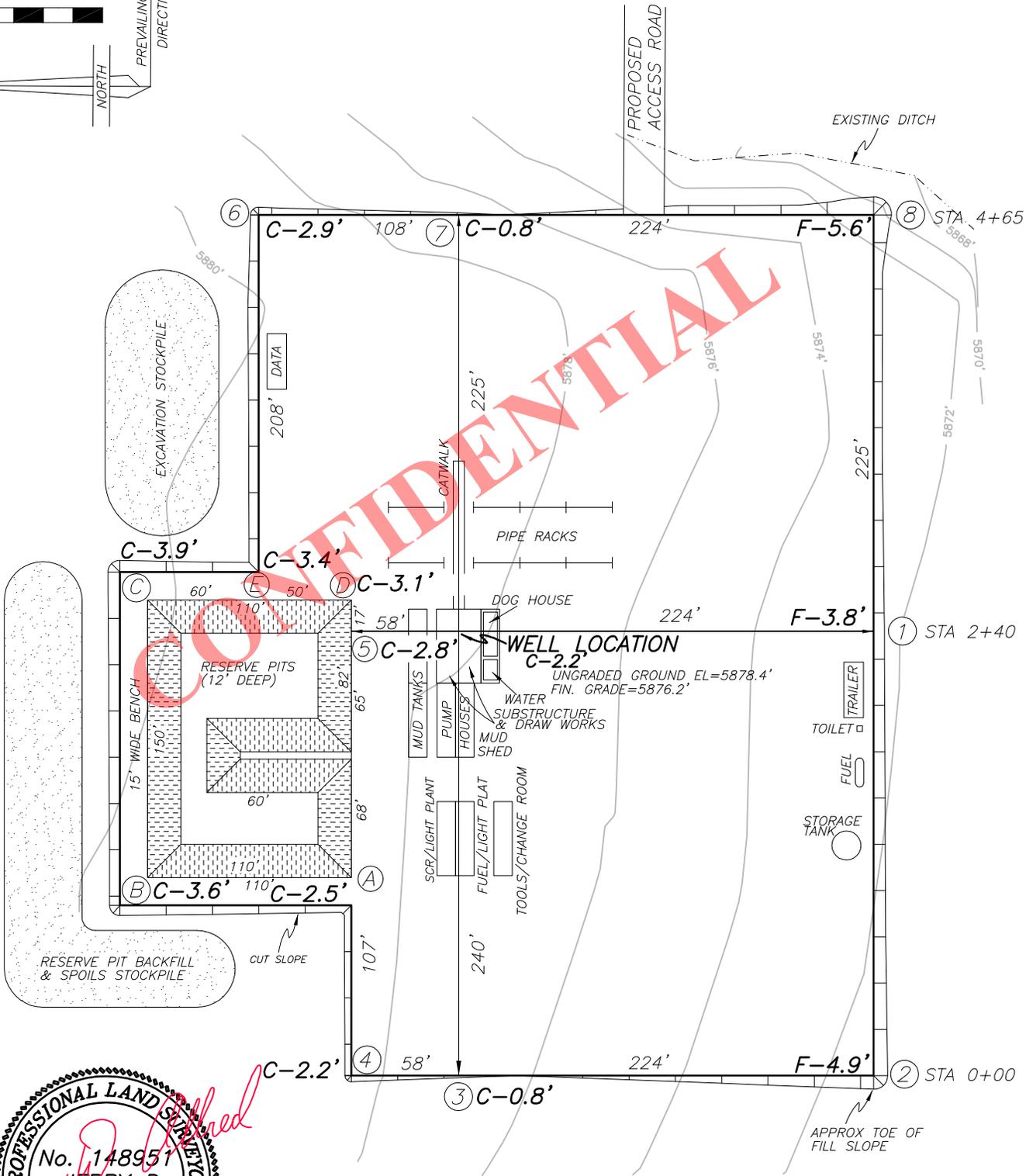
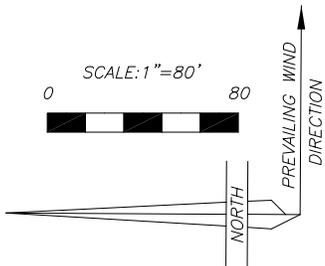
FIGURE #1

LOCATION LAYOUT FOR

OLSEN 4-18C4

SECTION 18, T3S, R4W, U.S.B.&M.

1250' FSL, 1300' FWL



Jerry D. Allred

PROFESSIONAL LAND SURVEYOR
 No. 148951
JERRY D. ALLRED
 4 OCT '13
 STATE OF UTAH

	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.

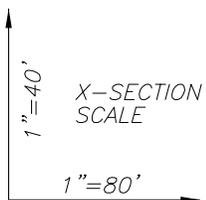
FIGURE #2

LOCATION LAYOUT FOR

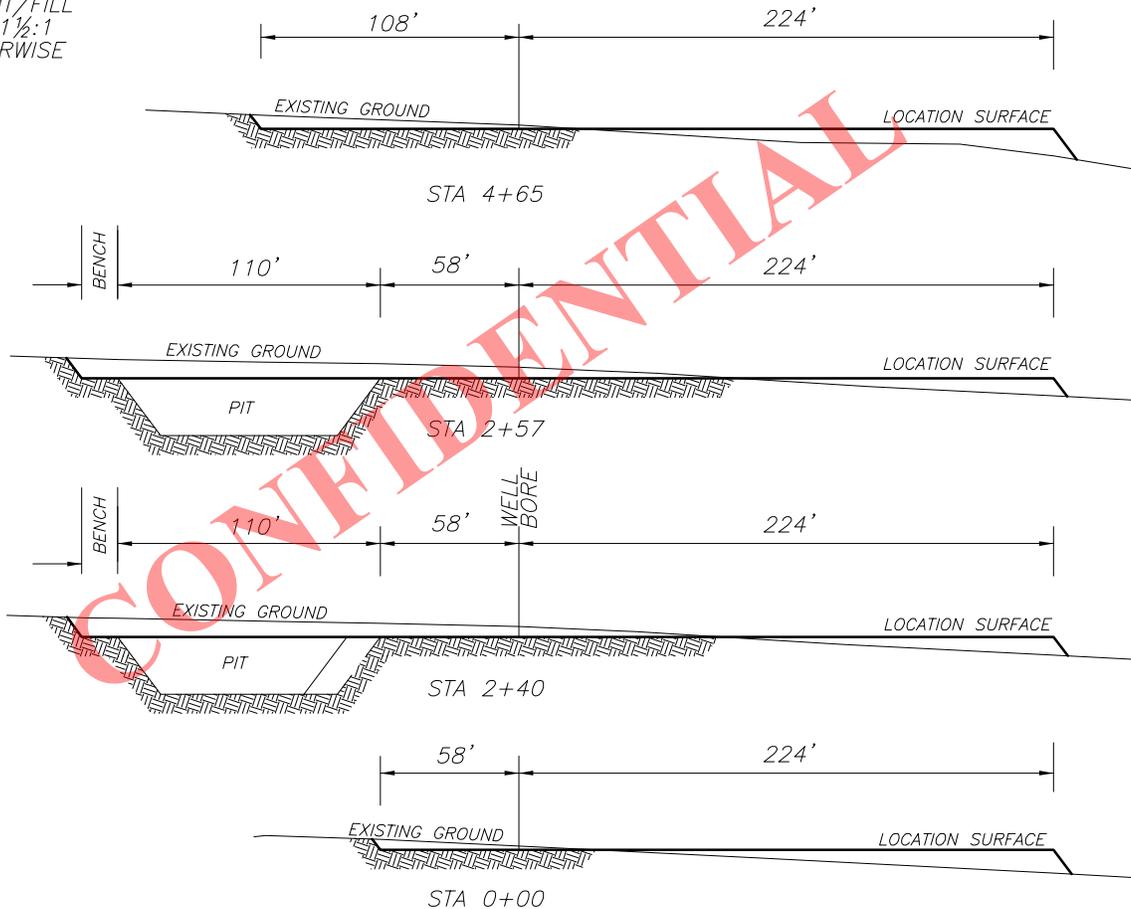
OLSEN 4-18C4

SECTION 18, T3S, R4W, U.S.B.&M.

1250' FSL, 1300' FWL



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



APPROXIMATE YARDAGES

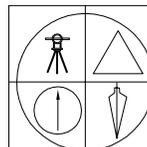
TOTAL CUT (INCLUDING PIT) = 14,434 CU. YDS.

- PIT CUT = 4955 CU. YDS.
- TOPSOIL STRIPPING: (6") = 3180 CU. YDS.
- REMAINING LOCATION CUT = 6299 CU. YDS

TOTAL FILL = 6299 CU. YDS.

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

ACCESS ROAD GRAVEL=412 CU. YDS.



JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS

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DUCHESNE, UTAH 84021
(435) 738-5352

4 OCT 2013

01-128-456

RECEIVED: April 07, 2014

EP ENERGY E&P COMPANY, L.P.

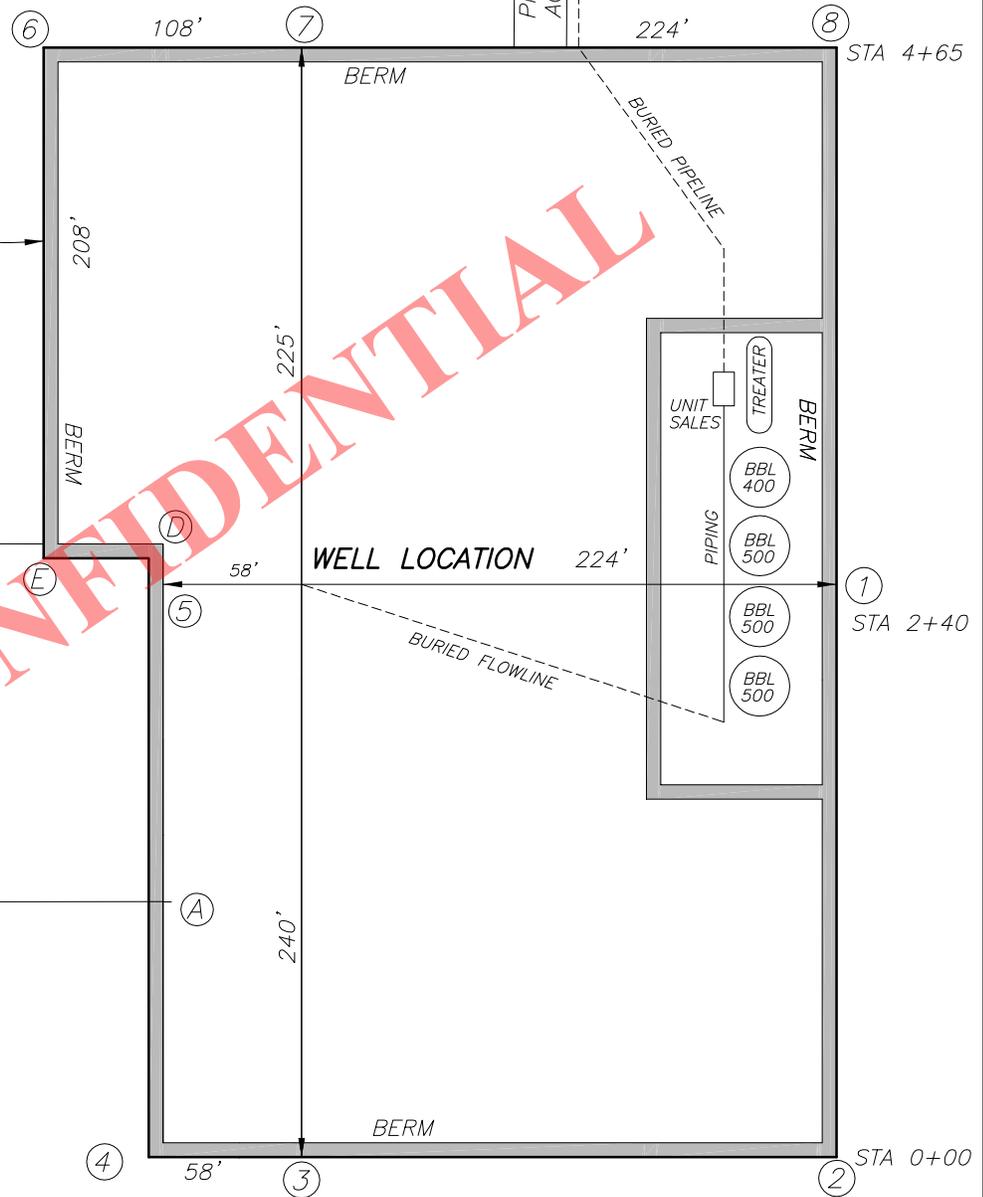
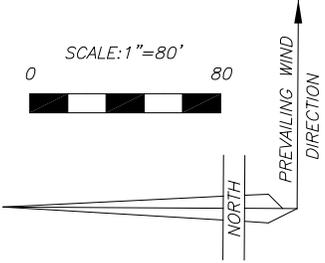
FIGURE #3

LOCATION LAYOUT FOR

OLSEN 4-18C4

SECTION 18, T3S, R4W, U.S.B.&M.

1250' FSL, 1300' FWL



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

CONFIDENTIAL

Jerry D. Allred

PROFESSIONAL LAND SURVEYOR

No. 148951

JERRY D. ALLRED

4 OCT '13

STATE OF UTAH

JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS

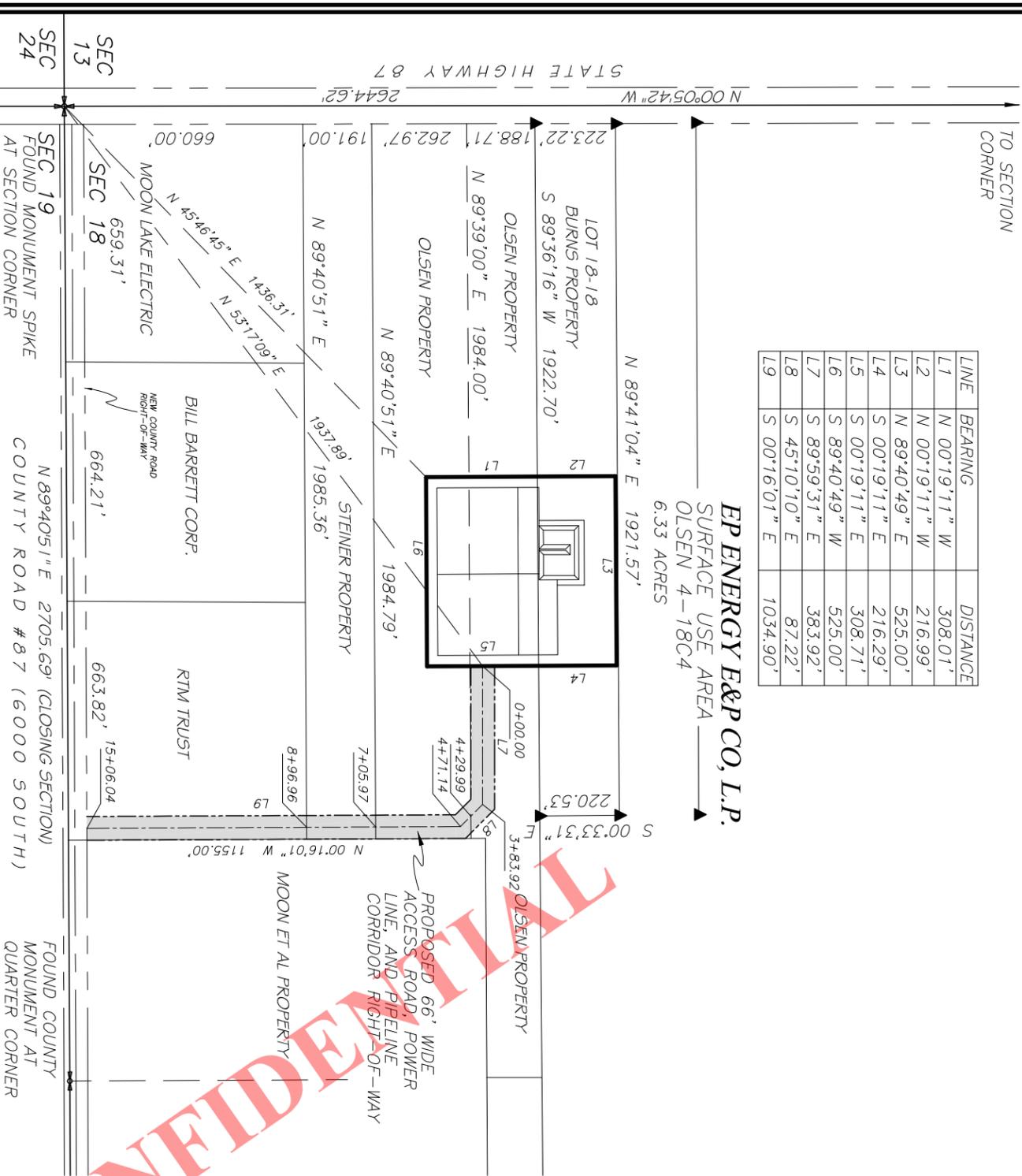
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LINE	BEARING	DISTANCE
L1	N 00°19'11" W	308.01'
L2	N 00°19'11" W	216.99'
L3	N 89°40'49" E	525.00'
L4	S 00°19'11" E	216.29'
L5	S 00°19'11" E	308.71'
L6	S 89°40'49" W	525.00'
L7	S 89°59'31" E	383.92'
L8	S 45°10'10" E	87.22'
L9	S 00°16'01" E	1034.90'

EP ENERGY E&P CO, L.P.

SURFACE USE AREA
OLSEN 4-18C4

6.33 ACRES



LOCATION USE AREA AND ACCESS ROAD, POWER LINE, AND PIPELINE

EP ENERGY E&P COMPANY, L.P.

SECTION 18, T3S, R4W, U.S.B.&M.
DUCHESSNE COUNTY, UTAH

USE AREA BOUNDARY

Commencing at the Southwest Corner of Section 18, Township 3 South, Range 4 West of the Uintah Special Base and Meridian;
Thence North 45°46'45" East 1436.31 feet to the TRUE POINT OF BEGINNING;
Thence North 00°19'11" West 525.00 feet;
Thence North 89°40'49" East 525.00 feet;
Thence South 00°19'11" East 525.00 feet;
Thence South 89°40'49" West 525.00 feet to the TRUE POINT OF BEGINNING, containing 6.33 acres.

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

A 66 feet wide access road, power line, and pipeline corridor right-of-way over portions of Section 18, Township 3 South, Range 4 West of the Uintah Special Base and Meridian, the centerline of said right-of-way being further described as follows:
Commencing at the Southwest Corner of said Section 18;
Thence North 53°17'09" East 1937.89 feet to the TRUE POINT OF BEGINNING, said point being on the East line of the EP Energy E&P, Co. Olsen 4-18C4 well location use area boundary;
Thence South 89°59'31" East 383.92 feet;
Thence South 45°10'10" East 87.22 feet;
Said right-of-way being 1506.04 feet in length with the side lines being shortened or elongated to intersect said use area boundary and existing road right-of-way line.

SURVEYOR'S CERTIFICATE

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



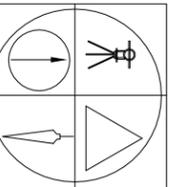
JERRY D. ALLRED, REGISTERED LAND SURVEYOR,
CERTIFICATE NO. 148951 (UTAH)

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

JERRY D. ALLRED AND ASSOCIATES
SURVEYING CONSULTANTS

REV 27 NOV 2013
4 OCT 2013

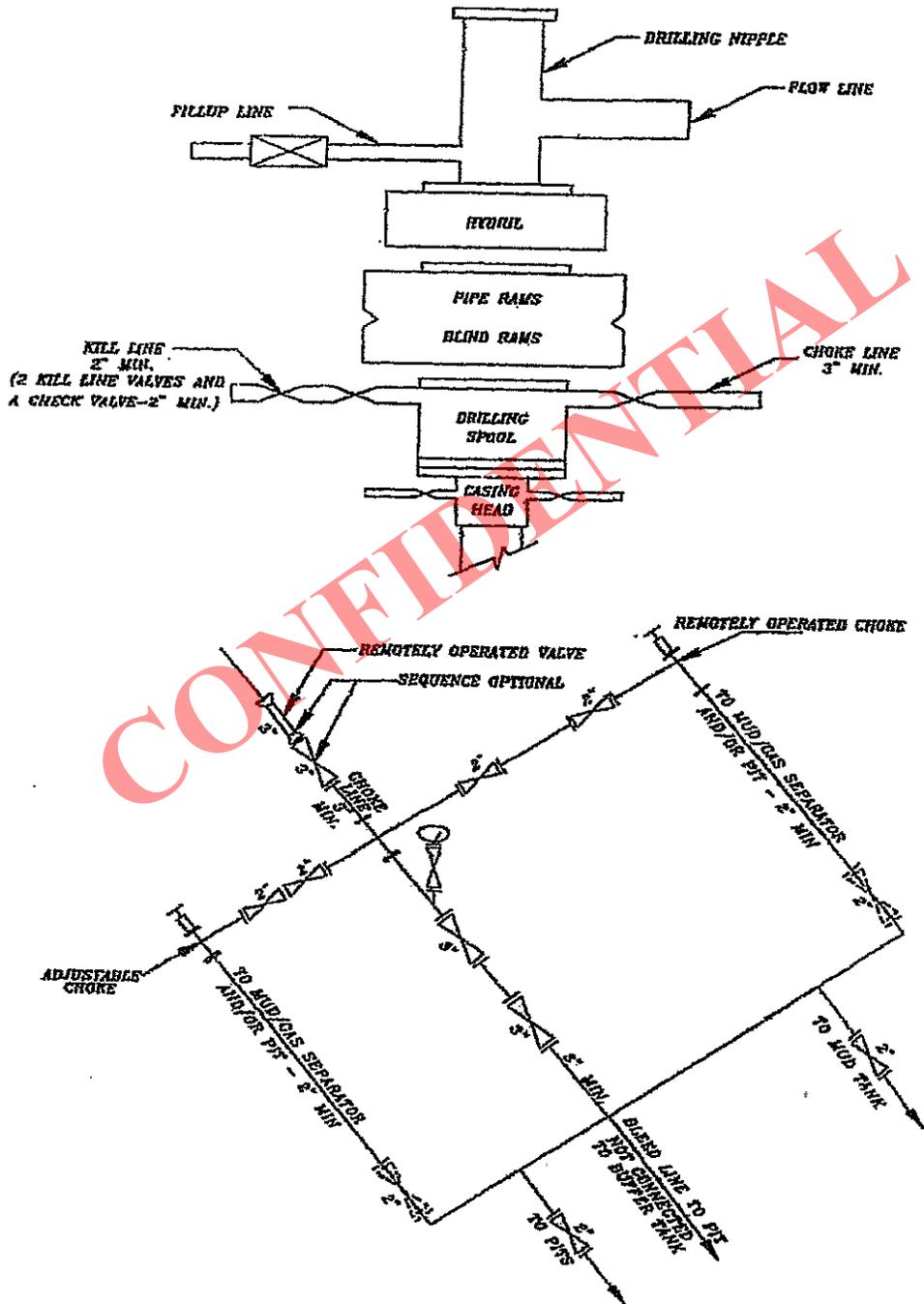
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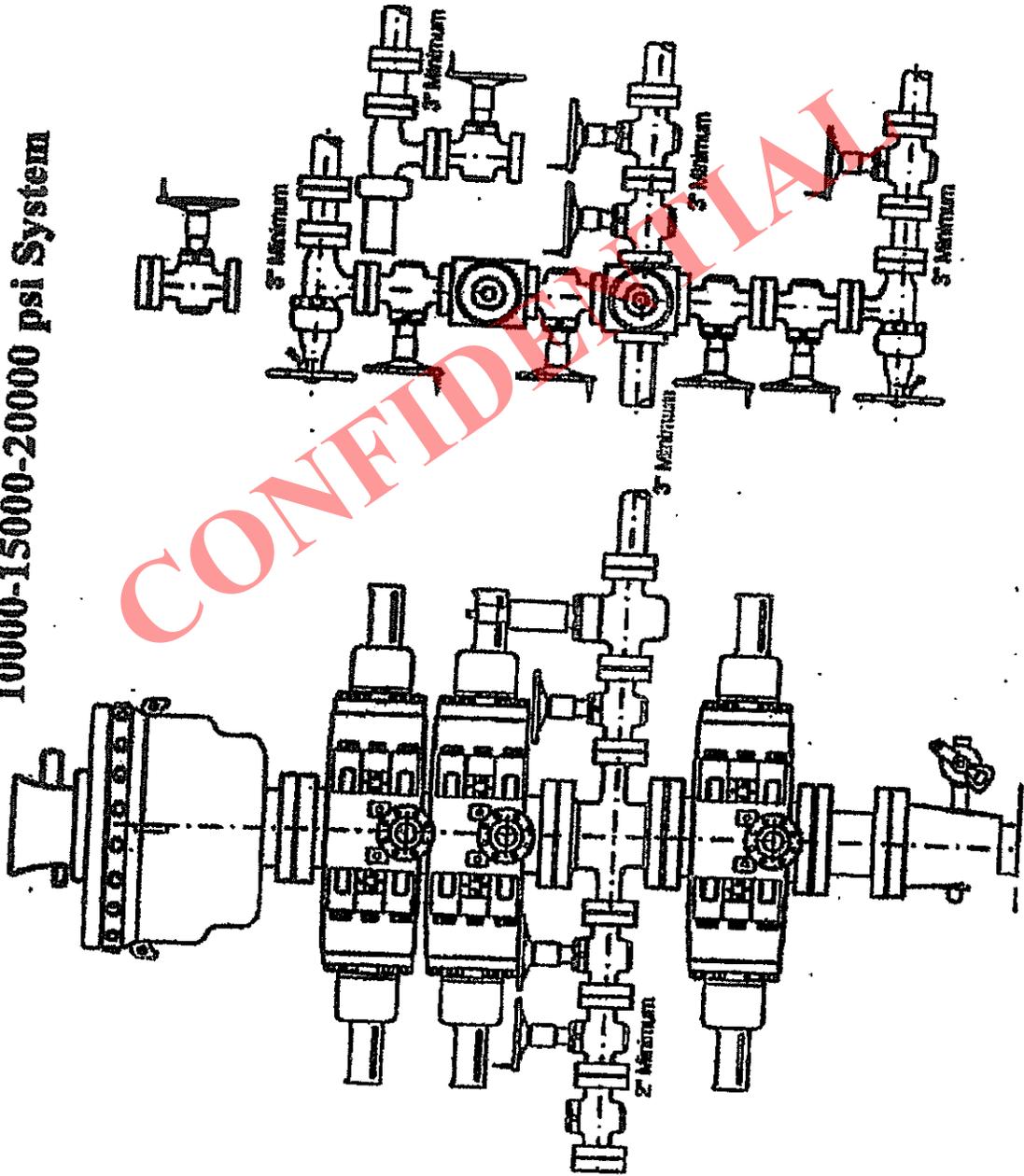
SCALE: 1=400'

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5M BOP STACK and CHOKE MANIFOLD SYSTEM



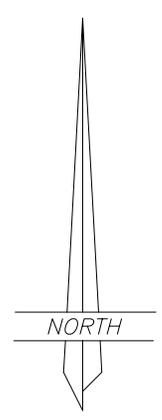
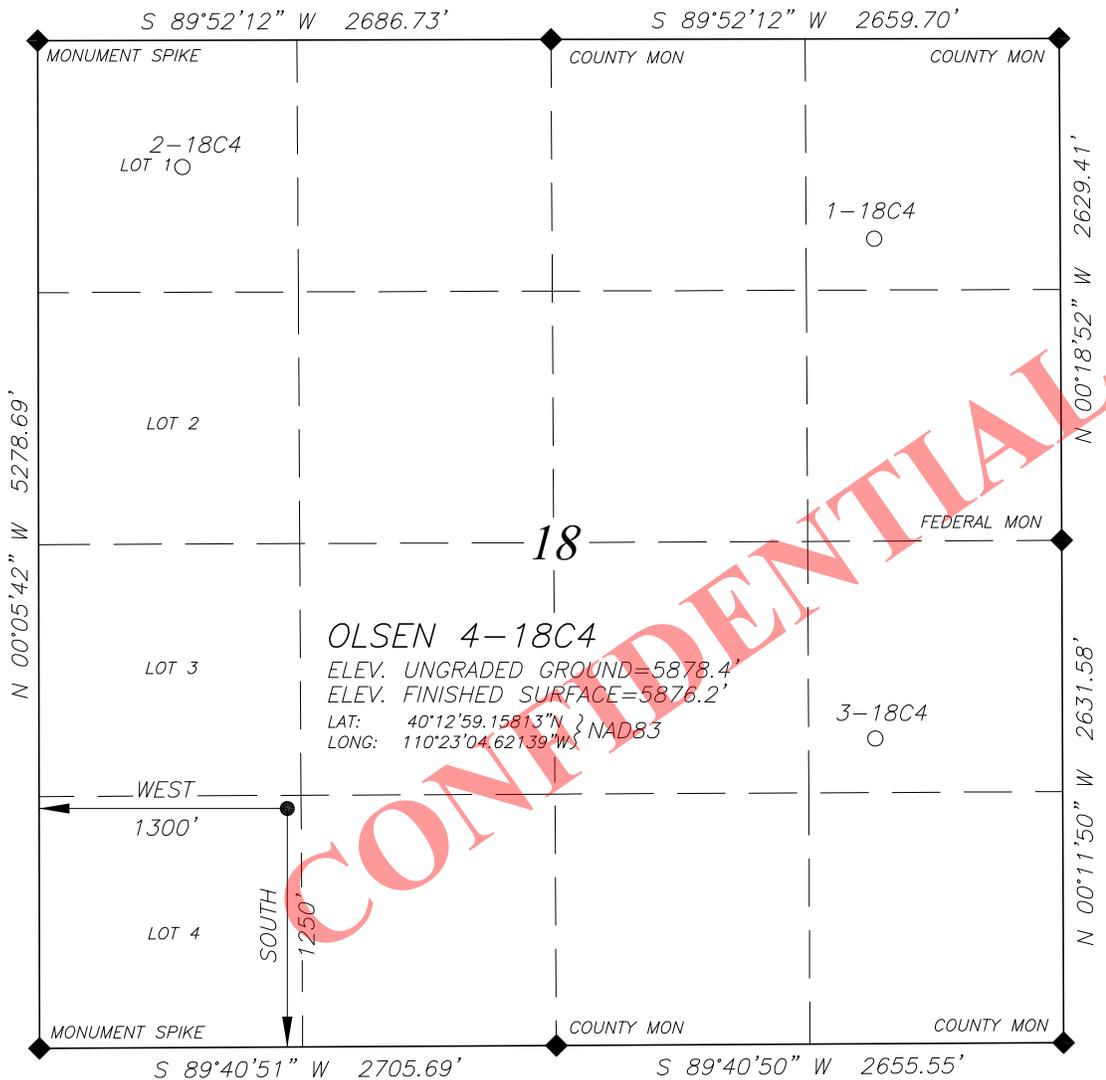
10000-15000-20000 psi System



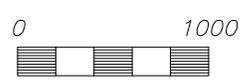
EP ENERGY E&P COMPANY, L.P.

WELL LOCATION
OLSEN 4-18C4

LOCATED IN LOT 4 OF
SECTION 18, T3S, R4W, U.S.B.&M.
DUCHESNE COUNTY, UTAH



SCALE: 1" = 1000'



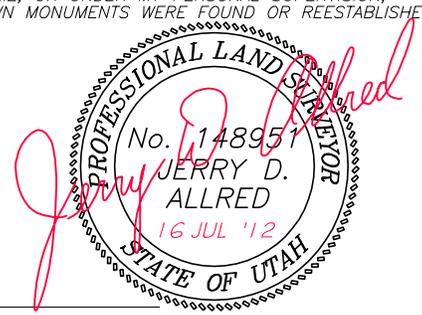
NOTE:
NAD27 VALUES FOR
WELL POSITION:
LAT: 40.21647594° N
LONG: 110.38390601° W

LEGEND AND NOTES

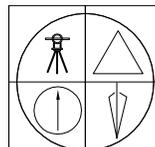
- ◆ CORNER MONUMENTS FOUND AND USED BY THIS SURVEY
- THE GENERAL LAND OFFICE (G.L.O.) PLAT WAS USED FOR REFERENCE AND CALCULATIONS AS WAS THE U.S.G.S. MAP
- THIS SURVEY WAS PERFORMED USING GLOBAL POSITIONING SYSTEM PROCEDURES AND EQUIPMENT
- THE BASIS OF BEARINGS IS GEODETIC NORTH DERIVED FROM G.P.S.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

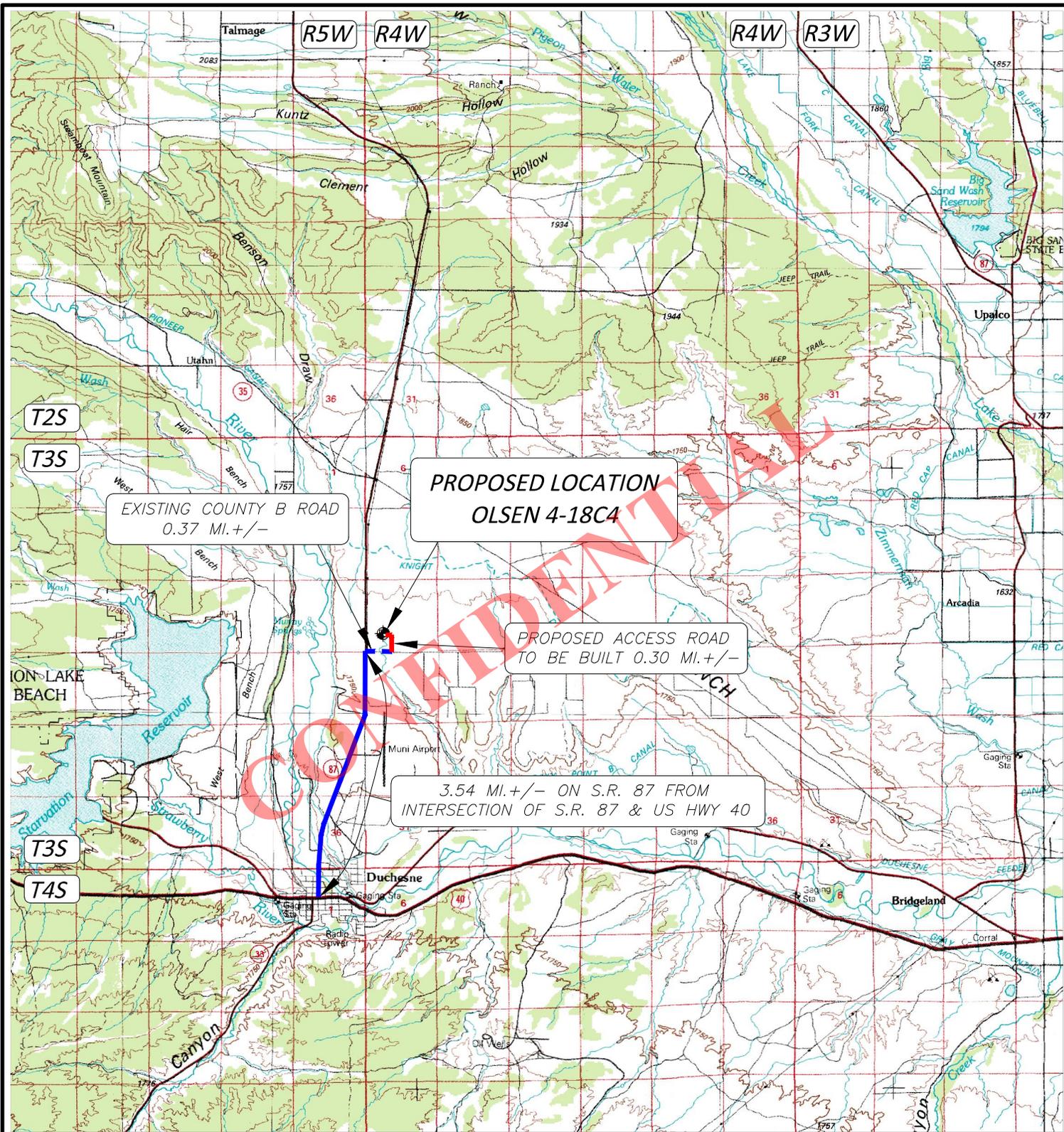


JERRY D. ALLRED, REGISTERED LAND SURVEYOR,
CERTIFICATE NO. 148951 (UTAH)



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**PROPOSED LOCATION
OLSEN 4-18C4**

EXISTING COUNTY B ROAD
0.37 MI. +/-

PROPOSED ACCESS ROAD
TO BE BUILT 0.30 MI. +/-

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

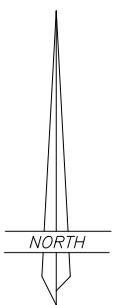
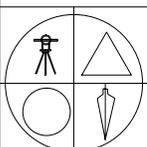
LEGEND:

PROPOSED WELL LOCATION

01-128-456

JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS

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DUCHEсне, UTAH 84021
(435) 738-5352



EP ENERGY E&P COMPANY, L.P.

OLSEN 4-18C4

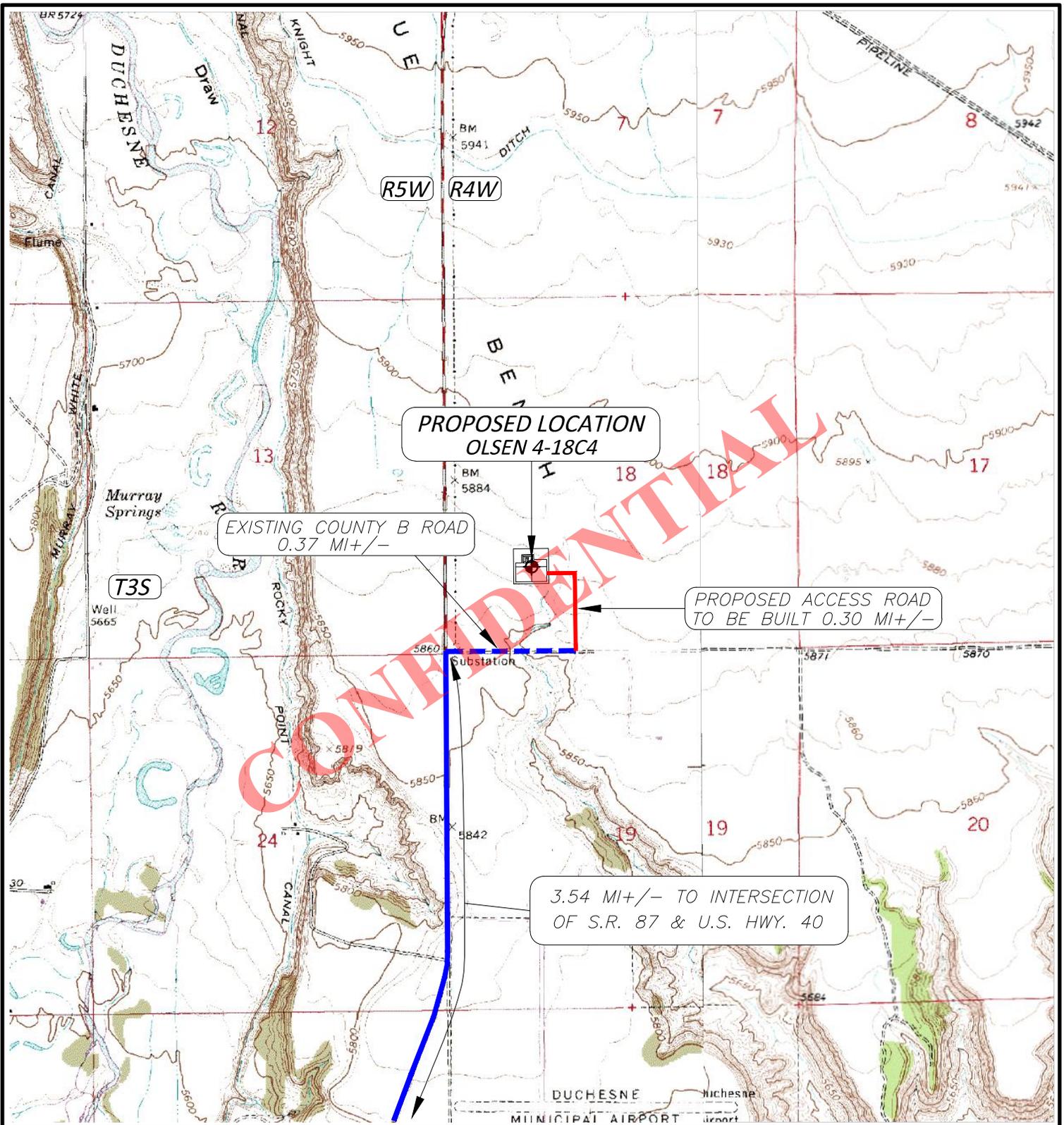
SECTION 18, T3S, R4W, U.S.B.&M.

1250' FSL 1300' FWL

TOPOGRAPHIC MAP "A"

SCALE: 1"=10,000'

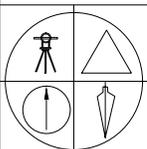
3 OCT 2013



LEGEND:

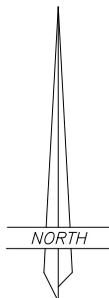
-  **PROPOSED WELL LOCATION**
-  **PROPOSED ACCESS ROAD**
-  **EXISTING GRAVEL ROAD**
-  **EXISTING DIRT ROAD**

01-128-456



JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS

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



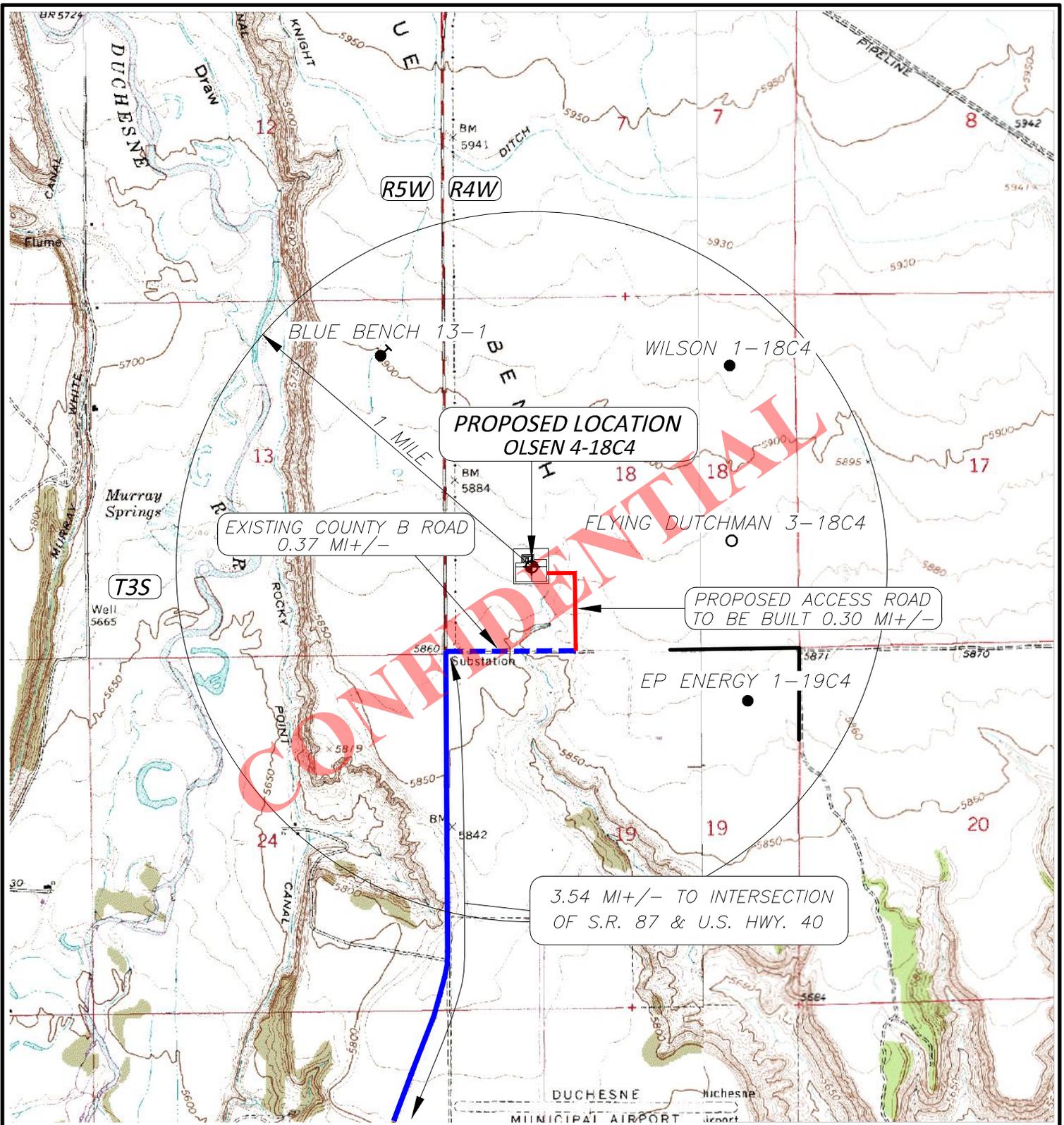
EP ENERGY E&P COMPANY, L.P.

OLSEN 4-18C4
SECTION 18, T3S, R4W, U.S.B.&M.

1250' FSL 1300' FWL

TOPOGRAPHIC MAP "B"

SCALE; 1"=2000'
3 OCT 2013



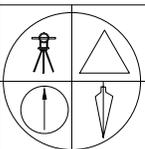
LEGEND:

PROPOSED WELL LOCATION

2-25C6

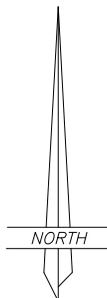
● ● + ◆ ○ ↗ ↘ ♂

01-128-456



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.

OLSEN 4-18C4
SECTION 18, T3S, R4W, U.S.B.&M.
1250' FSL 1300' FWL

TOPOGRAPHIC MAP "C"

SCALE; 1"=2000'
3 OCT 2013

AFFIDAVIT OF DAMAGE SETTLEMENT AND RELEASE

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

1. My name is Corie A. Mathews. I am a Senior Landman for EP Energy E&P Company, L.P., whose address is 1001 Louisiana Street, Houston, Texas 77002 ("EP Energy").
2. EP Energy is the operator of the proposed Olsen 4-18C4 well ("the Well") to be located in the SW/4 of the SW/4 of Section 18, Township 3 South, Range 4 West, USM, Duchesne County, Utah (the "Drillsite Location"). The surface owners of the Drillsite Location are Ryan Patrick Burns and Mari Burns, a Joint Tenancy, whose address is P.O. Box 478, Duchesne, UT 84021 and whose telephone number is (801) 518-0419 and Fayne J. and Leola Olsen Family Trust, represented by Leola Olsen, Successor Trustee, whose address is P.O. Box 526, Duchesne, Utah 84021 and whose telephone number is (435) 733-0032 (collectively as the "Surface Owners").
3. EP Energy and the Surface Owners have entered into a Damage Settlement and Release Agreement dated November 14, 2013 and December 10, 2013 to cover any and all injuries or damages of every character and description sustained by the Surface Owners or Surface Owners' property as a result of operations associated with the drilling, completing and producing of the Well.

FURTHER AFFIANT SAYETH NOT.



 Corie A. Mathews

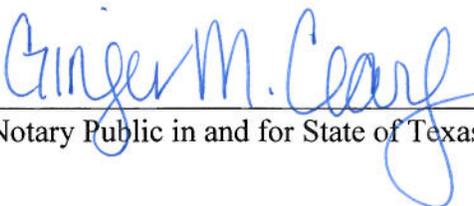
ACKNOWLEDGMENT

STATE OF TEXAS §
 §
 COUNTY OF HARRIS §

CONFIDENTIAL

This instrument was acknowledged before me on this the 6th day of March 2014 by Corie A. Mathews as a Senior Landman for EP ENERGY E&P COMPANY, L.P., a Delaware limited partnership, on behalf of said partnership and acknowledged to me that he executed the same as his own free and voluntary act and deed for the uses and purposes therein set forth.





 Notary Public in and for State of Texas

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 .30 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 .30 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:

Ryan Patrick & Mari Burns
P.O. Box 478
Duchesne, UT 84021
Phone: 801.518.0419

Fayne J. & Leola Olson Family Trust
Represented by Leola Olsen
P.O. Box 526
Duchesne, UT 84021
Phone: 435.733.0032

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:

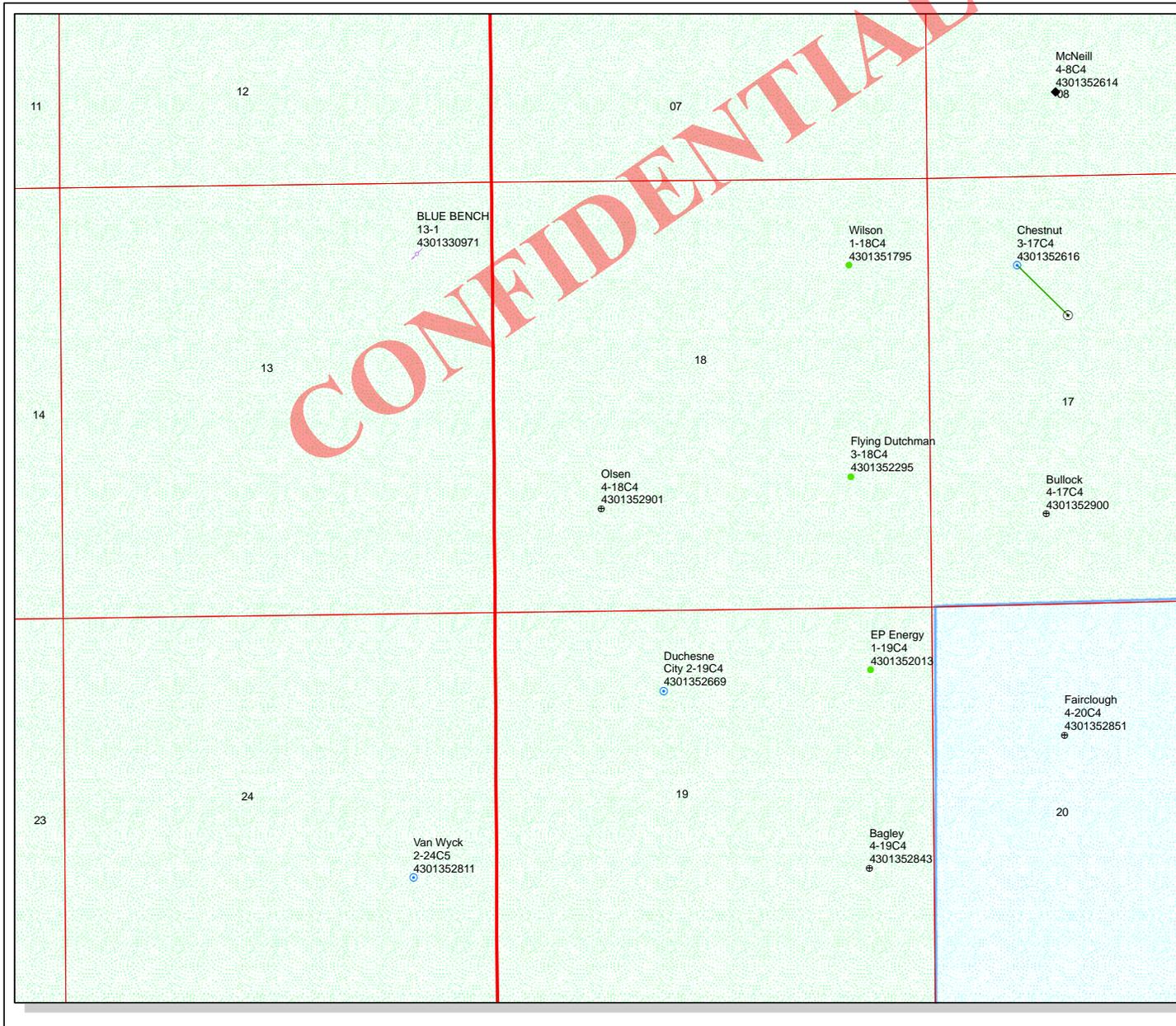
EP Energy E&P Company, L.P.
Wayne Garner
PO Box 410
Altamont, Utah 84001
435-454-3394 – Office
435-823-1490 – Cell

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: 4301352901

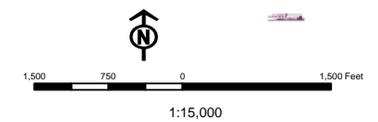
Well Name: Olsen 4-18C4

Township: T03.0S Range: R04.0W Section: 18 Meridian: U

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

Map Prepared: 4/9/2014
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
●	SGW - Shut-in Oil Well	▨	TERMINATED
⊖	TA - Temp. Abandoned		
○	TW - Test Well	Fields	
⊖	WDW - Water Disposal	▨	Unknown
⊕	WW - Water Injection Well	▨	ABANDONED
●	WSW - Water Supply Well	▨	ACTIVE
		▨	COMBINED
		▨	INACTIVE
		▨	STORAGE
		▨	TERMINATED



Well Name	EP ENERGY E&P COMPANY, L.P. Olsen 4-18C4 43013529010000			
String	Cond	Surf	I1	L1
Casing Size(")	13.375	9.625	7.000	5.000
Setting Depth (TVD)	600	2500	9000	11900
Previous Shoe Setting Depth (TVD)	0	600	2500	9000
Max Mud Weight (ppg)	9.0	9.3	10.6	13.0
BOPE Proposed (psi)	1000	1000	10000	10000
Casing Internal Yield (psi)	2730	5750	11220	13940
Operators Max Anticipated Pressure (psi)	8044			13.0

Calculations	Cond String	13.375	"
Max BHP (psi)	.052*Setting Depth*MW=	281	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	209	YES <input type="checkbox"/> 4.5 x 20 rotating head
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	149	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)=	149	NO <input type="checkbox"/> OK <input type="checkbox"/>
Required Casing/BOPE Test Pressure=		600	psi
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi *Assumes 1psi/ft frac gradient

Calculations	Surf String	9.625	"
Max BHP (psi)	.052*Setting Depth*MW=	1209	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	909	YES <input type="checkbox"/> 4.5 x 13 3/8 diverter stack with rotating head
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	659	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)=	791	NO <input type="checkbox"/> OK <input type="checkbox"/>
Required Casing/BOPE Test Pressure=		2500	psi
*Max Pressure Allowed @ Previous Casing Shoe=		600	psi *Assumes 1psi/ft frac gradient

Calculations	I1 String	7.000	"
Max BHP (psi)	.052*Setting Depth*MW=	4961	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	3881	YES <input type="checkbox"/> 10M BOPE w/rotating head, 5M annular, blind rams, flex
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	2981	YES <input type="checkbox"/> rams, mud cross, 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)=	3531	NO <input type="checkbox"/> OK <input type="checkbox"/>
Required Casing/BOPE Test Pressure=		7854	psi
*Max Pressure Allowed @ Previous Casing Shoe=		2500	psi *Assumes 1psi/ft frac gradient

Calculations	L1 String	5.000	"
Max BHP (psi)	.052*Setting Depth*MW=	8044	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	6616	YES <input type="checkbox"/> 10M BOPE w/rotating head, 5M annular, blind rams, flex
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	5426	YES <input type="checkbox"/> rams, mud cross, 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)=	7406	YES <input type="checkbox"/> OK <input type="checkbox"/>
Required Casing/BOPE Test Pressure=		9758	psi
*Max Pressure Allowed @ Previous Casing Shoe=		9000	psi *Assumes 1psi/ft frac gradient

43013529010000 Olsen 4-18C4

Casing Schematic

Surface

13-3/8"
MW 9.

9-5/8"
MW 9.3
Frac 19.3

7"
MW 10.6
Frac 19.3

5"
MW 13.

12 7/8

15 1/2

18 1/2

TOC @ *Duchesne River*
0.
TOC @ 351. → to 0' @ 10% w/o, tail 1976'
Conductor
600 MD
1100' ± BMSW

1893' BMSW - EP ✓
2000' tail
* Proposed to 2000'
Surface
2500. MD

3993' *Green River*
to 2048 @ 2% w/o, tail 6900'
* Proposed to 2000/6900
TOC @ 4463' *Green River*
4469.

* Strip ✓

5793' *Mahogany Bench*

6973' *Lower Green River*

7611' tail * 6900'

12 7/8

TOL @ 8800.

8863' *Wasatch*

Intermediate
9000. MD

TOC @ 9652.

to TOL @ 4% w/o

offset inj. wells

4301330971 - 4106' to 7528' - 1 mi NW

Production Liner
11900. MD

Strip cuts.

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Well name:	43013529010000 Olsen 4-18C4		Project ID:
Operator:	EP ENERGY E&P COMPANY, LP.		43-013-52901
String type:	Conductor		
Location:	DUCHESNE COUNTY		

Design parameters:

Collapse

Mud weight: 9.000 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: 82 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,000 ft

Cement top: Surface

Burst

Max anticipated surface pressure: 148 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 280 psi

No backup mud specified.

Tension:

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

Non-directional string.

Tension is based on buoyed weight.
Neutral point: 520 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	600	13.375	54.50	J-55	ST&C	600	600	12.49	7442
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	280	1130	4.030	280	2730	9.74	28.3	514	18.14 J

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

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

Date: June 2, 2014
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 600 ft, a mud weight of 9 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

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

Well name:	43013529010000 Olsen 4-18C4	
Operator:	EP ENERGY E&P COMPANY, LP.	
String type:	Surface	Project ID: 43-013-52901
Location:	DUCHESNE COUNTY	

Design parameters:

Collapse

Mud weight: 9.300 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: 109 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft
Cement top: 351 ft

Burst

Max anticipated surface pressure: 2,200 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 2,500 psi

No backup mud specified.

Tension:

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

Tension is based on buoyed weight.
Neutral point: 2,154 ft

Non-directional string.

Re subsequent strings:

Next setting depth: 9,000 ft
Next mud weight: 10.600 ppg
Next setting BHP: 4,956 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 2,500 ft
Injection pressure: 2,500 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	2500	9.625	40.00	N-80	LT&C	2500	2500	8.75	31812
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	1208	3090	2.558	2500	5750	2.30	86.2	737	8.55 J

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

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

Date: June 2, 2014
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 2500 ft, a mud weight of 9.3 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:	43013529010000 Olsen 4-18C4	
Operator:	EP ENERGY E&P COMPANY, LP.	
String type:	Intermediate	Project ID: 43-013-52901
Location:	DUCHESNE COUNTY	

Design parameters:

Collapse

Mud weight: 10.600 ppg
Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor 1.125

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 200 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,000 ft

Burst:

Design factor 1.00

Cement top: 4,469 ft

Burst

Max anticipated surface pressure: 5,418 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 7,398 psi

No backup mud specified.

Tension:

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

Tension is based on buoyed weight.
Neutral point: 7,556 ft

Non-directional string.

Re subsequent strings:

Next setting depth: 11,900 ft
Next mud weight: 13.000 ppg
Next setting BHP: 8,036 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 9,000 ft
Injection pressure: 9,000 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	9000	7	29.00	HCP-110	LT&C	9000	9000	6.059	101633
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	4956	9200	1.856	7398	11220	1.52	219.1	797	3.64 J

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

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

Date: June 2, 2014
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 9000 ft, a mud weight of 10.6 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:	43013529010000 Olsen 4-18C4	
Operator:	EP ENERGY E&P COMPANY, LP.	
String type:	Production Liner	Project ID: 43-013-52901
Location:	DUCHESNE COUNTY	

Design parameters:

Collapse

Mud weight: 13.000 ppg
Design is based on evacuated pipe.

Burst

Max anticipated surface pressure: 5,418 psi
Internal gradient: 0.220 psi/ft
Calculated BHP: 8,036 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: 11,286 ft

Environment:

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

Cement top: 9,652 ft

Liner top: 8,800 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	3100	5	18.00	HCP-110	ST-L	11900	11900	4.151	245488
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	8036	15360	1.911	8036	13940	1.73	44.8	341	7.62 J

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

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

Date: June 2, 2014
Salt Lake City, Utah

Remarks:

For this liner string, the top is rounded to the nearest 100 ft. Collapse is based on a vertical depth of 11900 ft, a mud weight of 13 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 Olsen 4-18C4
API Number 43013529010000 **APD No** 9557 **Field/Unit** ALTAMONT
Location: 1/4,1/4 SWSW Sec 18 Tw 3.0S Rng 4.0W 1250 FSL 1300 FWL
GPS Coord (UTM) 552363 4451961 **Surface Owner** Ryan Patrick & Mari Burns

Participants

Wayne Garner (EP energy); Heather Ivie, Valery, Meagan (land people); Dennis Ingram (Oil, Gas & Mining)

Regional/Local Setting & Topography

The proposed Olsen 4-18C4 well is located approximately 3.54 miles north of Duchesne Utah, along US Highway 87, then exit east on county road at 6000 South for 0.37 miles, then north across access road after construction 0.30 miles. The immediate surface area at the site is nearly flat, and slopes gently to the south. To the north, Blue Bench rises slowly into table-top, bench like habitat that was farmed for alfalfa in the early 1900s. The Duchesne River Drainage is also found approximately one mile west of this proposed well pad, where it drains southerly to the town of Duchesne before turning east. Lands to the east of this well pad are open rangeland habitat with sparse residential use, mainly to the north and northeast.

Surface Use Plan

Current Surface Use

Recreational
Residential

New Road Miles

0.3

Well Pad

Width 407 Length 465

Src Const Material

Onsite

Surface Formation

UNTA

Ancillary Facilities N

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

Dense, knee-high sagebrush, prickly pear cactus, bunch grass;

Coyote, fox, jack rabbit, cottontail rabbit, raccoon, field mice and other smaller mammals and rodents, song birds and/or hawks, eagles or owls native to region

Soil Type and Characteristics

Fine-grained, reddish blow sand with few if any 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	10 to 30 10 to 30
Presence Nearby Utility Conduits	Unknown 10
Final Score	41 1 Sensitivity Level

Characteristics / Requirements

Proposed reserve pit in cut along the northern side of location, 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 owners did not attend, surface slopes to the south, shallow drainage just east of corner number 8.

Dennis Ingram
Evaluator

5/2/2014
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
9557	43013529010000	LOCKED	OW	P	No
Operator	EP ENERGY E&P COMPANY, L.P.		Surface Owner-APD	Ryan Patrick & Mari Burns	
Well Name	Olsen 4-18C4		Unit		
Field	ALTAMONT		Type of Work	DRILL	
Location	SWSW 18 3S 4W U 1250 FSL (UTM) 552368E 4451966N		1300 FWL	GPS Coord	

Geologic Statement of Basis

EP proposes to set 600 feet of conductor and 2,500 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 22 water wells within a 10,000 foot radius of the center of Section 18. These wells probably produce water from the Duchesne River Formation and associated alluvium. Depths of the wells fall in the range of 35-460 feet. Depth is not listed for 1 well. The wells are listed as being used for irrigation, stock watering, municipal and domestic. Duchesne City has several shallow municipal wells approximately 1.5 miles west of the proposed location. The proposed drilling, casing and cement program should adequately protect the highly used Duchesne River aquifer.

Brad Hill
APD Evaluator

5/8/2014
Date / Time

Surface Statement of Basis

The surface at the well pad slopes southerly showing approximately three feet of cut along the northern edge of the location and four to five feet of fill to the south. A shallow drainage or ditch was noted just east of corner number 8 that runs south and turns southwest below the location. A reserve pit is planned off the northern side of the location and will require a 20 mil synthetic to prevent seepage in the blow sand on this site.

A presite was scheduled and performed for the Olsen 4-18C4 to take input and address issues regarding the construction and drilling of this well. The surface of this well pad crosses two different landowners, both of which were contacted and invited to the presite meeting. EP Energy does have a landowner agreement with each of the landowners.

Dennis Ingram
Onsite Evaluator

5/2/2014
Date / Time

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 20 mils shall be properly installed and maintained in the reserve pit.
Pits	The reserve pit should be located on the north side of the location.
Surface	The well site shall be bermed to prevent fluids from entering or leaving the pad.

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 4/7/2014

API NO. ASSIGNED: 43013529010000

WELL NAME: Olsen 4-18C4

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

PHONE NUMBER: 713 997-5038

CONTACT: Maria S. Gomez

PROPOSED LOCATION: SWSW 18 030S 040W

Permit Tech Review:

SURFACE: 1250 FSL 1300 FWL

Engineering Review:

BOTTOM: 1250 FSL 1300 FWL

Geology Review:

COUNTY: DUCHESNE

LATITUDE: 40.21648

LONGITUDE: -110.38456

UTM SURF EASTINGS: 552368.00

NORTHINGS: 4451966.00

FIELD NAME: ALTAMONT

LEASE TYPE: 4 - Fee

LEASE NUMBER: Fee

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

SURFACE OWNER: 4 - Fee

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

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

Commingle Approved

LOCATION AND SITING:

- R649-2-3.
- Unit:
- R649-3-2. General
- R649-3-3. Exception
- Drilling Unit
- Board Cause No: Cause 139-90
- Effective Date: 5/9/2012
- Siting: 4 Wells Per 640 Acres
- R649-3-11. Directional Drill

Comments: Presite Completed

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

RECEIVED: June 04, 2014



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: Olsen 4-18C4
API Well Number: 43013529010000
Lease Number: Fee
Surface Owner: FEE (PRIVATE)
Approval Date: 6/4/2014

Issued to:

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

Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 139-90. The expected producing formation or pool is the GREEN RIVER(LWR)-WASATCH Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

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

General:

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

Conditions of Approval:

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

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

Cement volume for the 7" intermediate string shall be determined from actual hole diameter in order to place lead cement from the pipe setting depth back to 2000' MD as indicated in the submitted drilling plan and tail to Mahogany Bench.

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.

Additional Approvals:

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

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

Notification Requirements:

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

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

Contact Information:

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

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

Reporting Requirements:

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

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

Approved By:

Approved by:

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

For John Rogers
Associate Director, Oil & Gas

7/24/2014

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

Well Name: Olsen 4-18C4
API Well Number: 43013529010000
Field: Altamont
County: Duchesne
Mineral Owner: Fee

1250 FSL 1300 FWL
8WSW 18 3S 4W

CONFIDENTIAL

July 24, 2014

10:00 AM

Leon Ross Drilling

Rig #35 Bucket Rig Spudded in on the above well for EP Energy LLC.

Best Regards

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

7/24/2014

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

Well Name: Olsen 4-18C4
API Well Number: 43013529010000
Field: Altamont
County: Duchesne
Mineral Owner: Fee

1250 FSL 1300 FWL
8WSW 18 3S 4W

CONFIDENTIAL

July 24, 2014

10:00 AM

Leon Ross Drilling

Rig #35 Bucket Rig Spudded in on the above well for EP Energy LLC.

Best Regards

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

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
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: Olsen 4-18C4
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.	9. API NUMBER: 43013529010000
3. ADDRESS OF OPERATOR: 1001 Louisiana , Houston, TX, 77002	PHONE NUMBER: 713 997-5038 Ext
9. FIELD and POOL or WILDCAT: ALTAMONT	4. LOCATION OF WELL FOOTAGES AT SURFACE: 1250 FSL 1300 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 18 Township: 03.0S Range: 04.0W Meridian: U
	COUNTY: DUCHESNE
	STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 9/5/2014	<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.

Dustin, I accidentally forgot to send this in to you before performing work. Please see attached for details.

Approved by the
September 11, 2014
Oil, Gas and Mining

Date: _____
By: Dustin

NAME (PLEASE PRINT) Maria S. Gomez	PHONE NUMBER 713 997-5038	TITLE Principal Regulatory Analyst
SIGNATURE N/A	DATE 9/11/2014	

Olsen 4-18C4

Initial Completion

API # : 43013529010000

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

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

Completion Information (Wasatch Formation)

- | | |
|-----------------|--|
| Stage #1 | RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~11091' – 11388' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~140000 # of Power Prop 30/50. Total clean water volume is 157565 gals. |
| Stage #2 | RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~10667' – 10958' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~140000 # of Power Prop 30/50. Total clean water volume is 157249 gals. |
| Stage #3 | RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~10328' – 10622' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~140000 # of TLC 30/50. Total clean water volume is 156996 gals. |
| Stage #4 | RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~10020' – 10277' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~140000 # of TLC 30/50. Total clean water volume is 156766 gals. |
| Stage #5 | RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~9646' – 9928' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~140000 # of TLC 30/50. Total clean water volume is 156487 gals. |

Stage #6 RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~9380' – 9609' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~140000 # of TLC 30/50. Total clean water volume is 156288 gals.

Stage #7 RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~9071' – 9353' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~140000 # of TLC 30/50. Total clean water volume is 156058 gals.

Stimulation Summary

	Top Perf	Btm. Perf	Gross Interval	Plug Depth	Net Perf Length	Total Shots	Perf Intervals	Type of Prop	Lbs of Prop	Lbs/ft	Lbs of 100 Mesh	Gals of HCL (15%)	Gals of Clean H2O	Gals of Slurry
Stage #1	11,091	11,388	297	NA	23	69	17	Power Prop 30/50	140,000	471	3,000	5,000	157,565	4,258
Stage #2	10,667	10,958	291	10,973	22	66	17	Power Prop 30/50	140,000	481	3,000	5,000	157,249	4,251
Stage #3	10,328	10,622	294	10,637	23	69	17	TLC 30/50	140,000	476	3,000	5,000	156,996	4,239
Stage #4	10,020	10,277	257	10,292	21	63	16	TLC 30/50	140,000	545	3,000	5,000	156,766	4,234
Stage #5	9,646	9,928	282	9,943	23	69	17	TLC 30/50	140,000	496	3,000	5,000	156,487	4,227
Stage #6	9,380	9,609	229	9,624	22	66	16	TLC 30/50	140,000	611	3,000	5,000	156,288	4,222
Stage #7	9,071	9,353	282	9,368	23	69	17	TLC 30/50	140,000	496	3,000	5,000	156,058	4,217
Average per Stage			276		22	67	17		140,000	511	3,000	5,000	156,773	4,235
Totals per Well			1,932		157	471	117		980,000		21,000	35,000	1,097,409	29,648

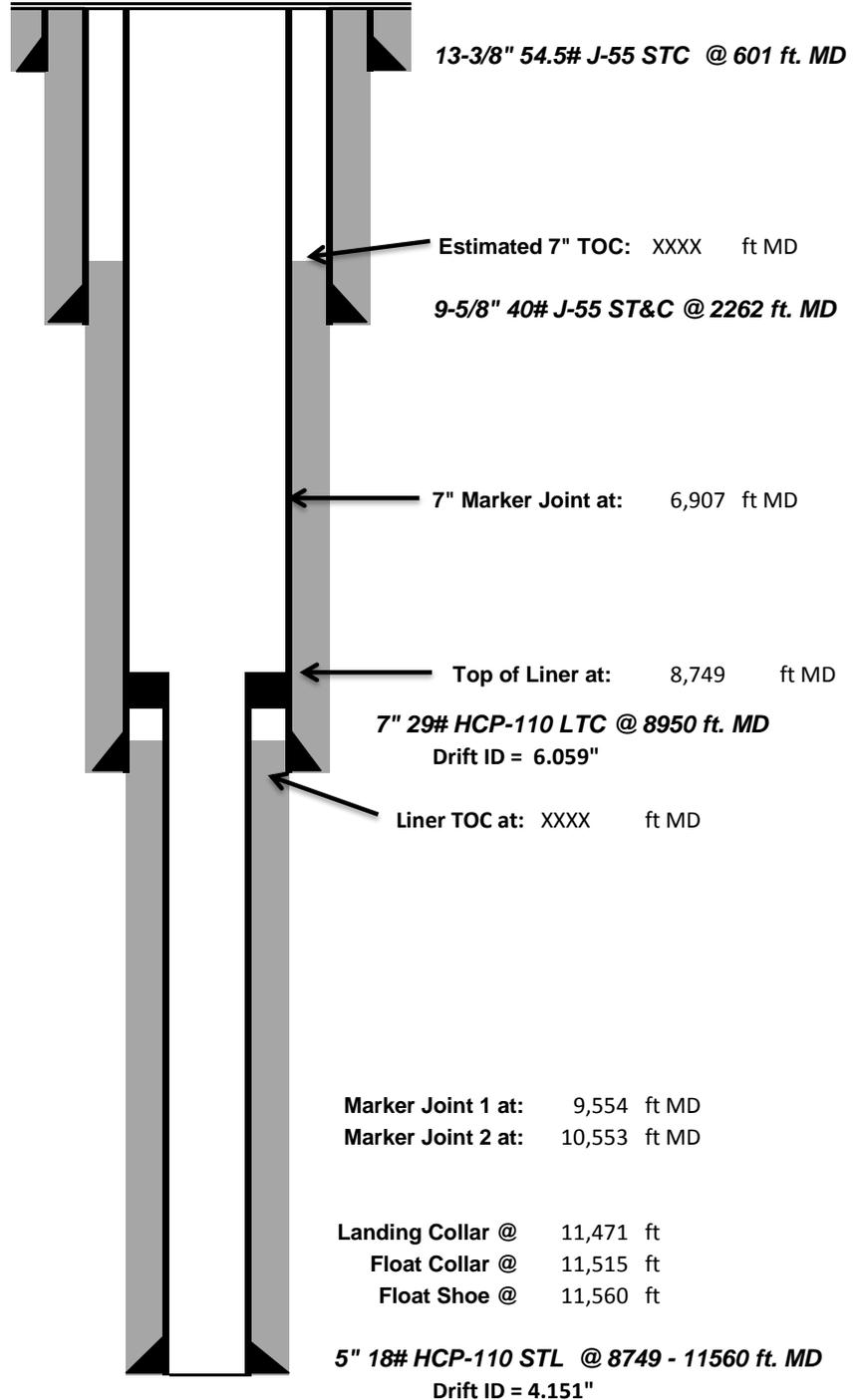


Pre-Completion Wellbore Schematic

Well Name: **Olsen 4-18C4**
 Company Name: **EP Energy**
 Field, County, State: **Altamont, Duchesne, UT**
 Surface Location: **Lat: 40°12'59.158" N Long: 110°23'04.621" W**
 Producing Zone(s): **Wasatch**

Last Updated: **8/29/2014**
 By: **Jarrold Kent**
 TD: **11,560**
 API: **43013529010000**
 AFE: **161215**

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



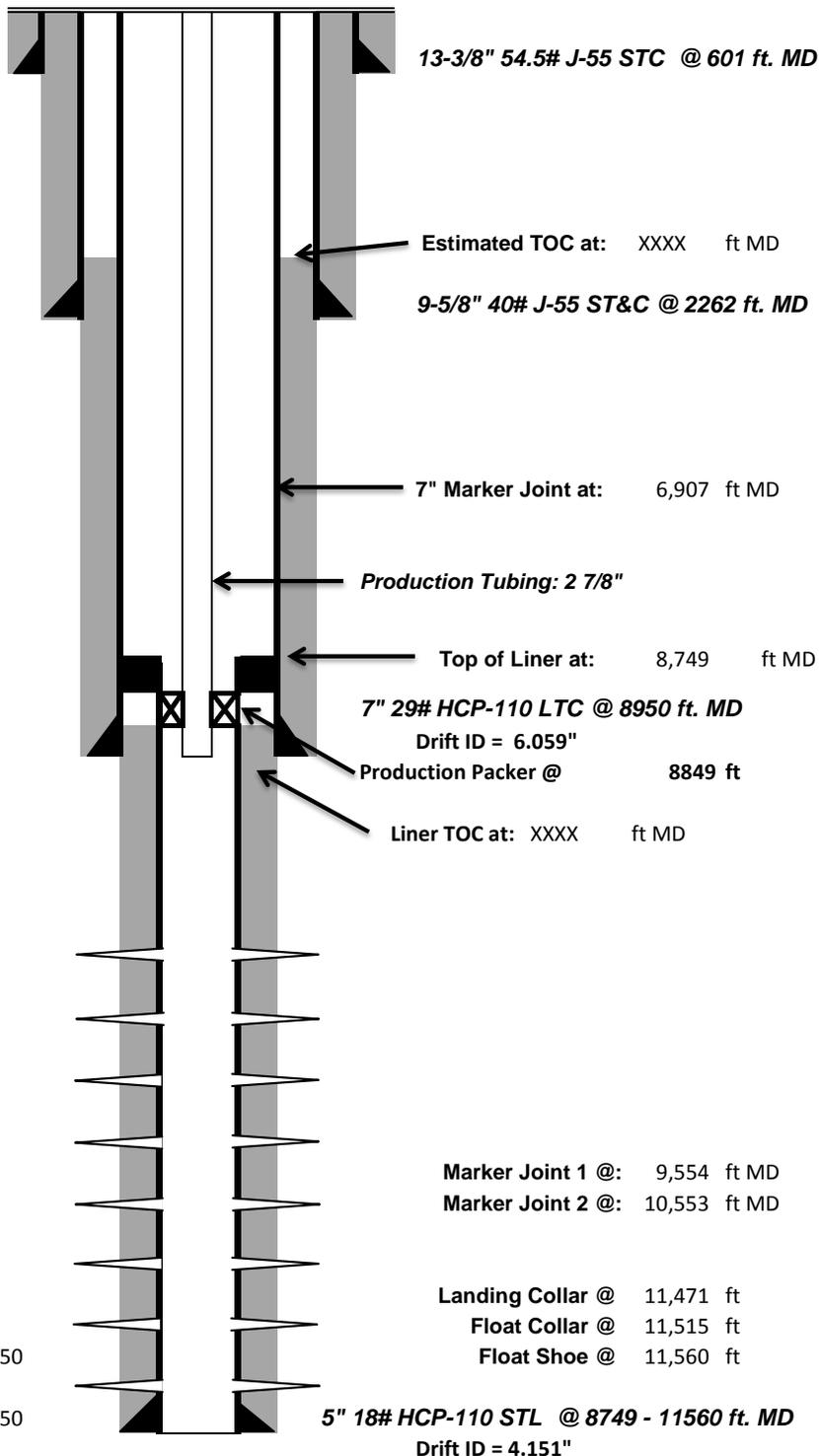


Post-Completion Wellbore Schematic

Well Name: **Olsen 4-18C4**
 Company Name: **EP Energy**
 Field, County, State: **Altamont, Duchesne, UT**
 Surface Location: **Lat: 40°12'59.158" N Long: 110°23'04.621" W**
 Producing Zone(s): **Wasatch**

Last Updated: **8/29/2014**
 By: **Jarrold Kent**
 TD: **11,560**
 API: **43013529010000**
 AFE: **161215**

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



Initial Completion Perf Information

- Stage #7** 9071 - 9353 23' /69 shots
5000 gal HCL & 140000 lbs TLC 30/50
- Stage #6** 9380 - 9609 22' /66 shots
5000 gal HCL & 140000 lbs TLC 30/50
- Stage #5** 9646 - 9928 23' /69 shots
5000 gal HCL & 140000 lbs TLC 30/50
- Stage #4** 10020 - 10277 21' /63 shots
5000 gal HCL & 140000 lbs TLC 30/50
- Stage #3** 10328 - 10622 23' /69 shots
5000 gal HCL & 140000 lbs TLC 30/50
- Stage #2** 10667 - 10958 22' /66 shots
5000 gal HCL & 140000 lbs Power Prop 30/50
- Stage #1** 11091 - 11388 23' /69 shots
5000 gal HCL & 140000 lbs Power Prop 30/50

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

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

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

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

Phone: 801-538-5340

Fax: 801-359-3940

Attachment to Well Completion Report**Form 8 Dated October 10, 2014****Well Name: Olsen 4-18C4****Items #27 and #28 Continued****27. Perforation Record**

Interval (Top/Bottom – MD)	Size	No. of Holes	Perf. Status
9644'-9928'	.43	69	Open
9377'-9606'	.43	66	Open
9068'-9353'	.43	69	Open

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

Depth Interval	Amount and Type of Material
10021'-10278'	5000 gal acid, 3000# 100 mesh, 140000# 30/50 TLC
9644'-9928'	5000 gal acid, 3000# 100 mesh, 140000# 30/50 TLC
9377'-9606'	5000 gal acid, 3000# 100 mesh, 140000# 30/50 TLC
9068'-9353'	5000 gal acid, 3000# 100 mesh, 140460# 30/50 TLC



Company: EP Energy
Well: Olsen 4-18C4
Location: Duchesne, UT
Rig: Precision 404

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	0.12	330.78	100.00	100.00	0.09	0.09	N	0.05	W	0.11	330.78	0.12	0.12	330.78
2	200.00	0.18	56.98	100.00	200.00	0.27	0.27	N	0.03	E	0.27	5.62	0.21	0.06	-273.80
3	300.00	0.40	306.92	100.00	300.00	0.56	0.56	N	0.12	W	0.58	347.65	0.49	0.22	249.94
4	400.00	0.46	50.74	100.00	400.00	1.02	1.02	N	0.09	W	1.03	354.75	0.67	0.06	-256.19
5	500.00	0.04	187.19	100.00	500.00	1.24	1.24	N	0.21	E	1.26	9.59	0.49	-0.41	136.45
6	600.00	0.48	13.35	100.00	599.99	1.61	1.61	N	0.30	E	1.64	10.61	0.52	0.44	-173.83
7	700.00	0.31	55.23	100.00	699.99	2.17	2.17	N	0.62	E	2.25	15.89	0.32	-0.17	41.88
8	800.00	0.75	21.35	100.00	799.99	2.93	2.93	N	1.07	E	3.12	20.14	0.52	0.44	-33.89
9	900.00	0.53	59.81	100.00	899.98	3.76	3.76	N	1.71	E	4.13	24.40	0.47	-0.22	38.46
10	1000.00	0.79	53.43	100.00	999.98	4.40	4.40	N	2.65	E	5.14	31.08	0.27	0.26	-6.38
11	1100.00	1.26	55.80	100.00	1099.96	5.43	5.43	N	4.11	E	6.81	37.15	0.47	0.47	2.37
12	1200.00	1.41	41.32	100.00	1199.93	6.97	6.97	N	5.83	E	9.09	39.93	0.37	0.15	-14.48
13	1300.00	1.82	64.40	100.00	1299.89	8.58	8.58	N	8.08	E	11.79	43.28	0.76	0.41	23.08
14	1400.00	2.40	63.69	100.00	1399.83	10.20	10.20	N	11.39	E	15.29	48.17	0.58	0.58	-0.71
15	1500.00	2.79	70.48	100.00	1499.72	11.94	11.94	N	15.57	E	19.62	52.51	0.49	0.38	6.79
16	1600.00	3.00	70.01	100.00	1599.60	13.65	13.65	N	20.32	E	24.47	56.11	0.21	0.21	-0.47
17	1700.00	3.50	73.29	100.00	1699.43	15.42	15.42	N	25.70	E	29.97	59.04	0.53	0.50	3.27
18	1800.00	3.81	78.56	100.00	1799.23	16.96	16.96	N	31.88	E	36.11	61.99	0.46	0.31	5.27
19	1900.00	4.65	77.84	100.00	1898.96	18.47	18.47	N	39.10	E	43.24	64.72	0.84	0.84	-0.72
20	2000.00	5.23	80.09	100.00	1998.59	20.11	20.11	N	47.54	E	51.62	67.08	0.61	0.58	2.25
21	2100.00	5.43	82.87	100.00	2098.15	21.48	21.48	N	56.73	E	60.65	69.26	0.33	0.20	2.78
22	2187.00	5.56	80.19	87.00	2184.76	22.70	22.70	N	64.96	E	68.81	70.74	0.33	0.15	-3.08
23	2297.00	5.43	83.05	110.00	2294.25	24.24	24.24	N	75.38	E	79.18	72.17	0.27	-0.12	2.60
24	2390.00	6.66	56.51	93.00	2386.75	27.75	27.75	N	84.25	E	88.70	71.77	3.25	1.32	-28.54
25	2483.00	6.63	35.62	93.00	2479.14	35.09	35.09	N	91.87	E	98.34	69.09	2.59	-0.03	-22.46
26	2577.00	7.73	29.13	94.00	2572.40	45.03	45.03	N	98.11	E	107.95	65.35	1.45	1.17	-6.90
27	2670.00	7.46	27.16	93.00	2664.58	55.86	55.86	N	103.91	E	117.97	61.74	0.40	-0.29	-2.12
28	2763.00	6.87	10.79	93.00	2756.87	66.70	66.70	N	107.71	E	126.69	58.23	2.28	-0.63	-17.60
29	2856.00	6.15	352.46	93.00	2849.28	77.10	77.10	N	108.09	E	132.77	54.50	2.35	-0.77	367.39
30	2949.00	7.32	344.95	93.00	2941.64	87.76	87.76	N	105.90	E	137.54	50.35	1.57	1.26	-8.08
31	3042.00	6.57	341.51	93.00	3033.95	98.53	98.53	N	102.68	E	142.30	46.18	0.92	-0.81	-3.70
32	3136.00	6.01	338.67	94.00	3127.39	108.21	108.21	N	99.18	E	146.79	42.51	0.68	-0.60	-3.02
33	3229.00	6.68	335.29	93.00	3219.82	117.66	117.66	N	95.15	E	151.32	38.96	0.82	0.72	-3.63
34	3322.00	7.22	341.13	93.00	3312.14	128.11	128.11	N	91.00	E	157.14	35.39	0.96	0.58	6.28
35	3414.00	6.56	336.90	92.00	3403.47	138.41	138.41	N	87.07	E	163.52	32.17	0.90	-0.72	-4.60



Company: EP Energy
Well: Olsen 4-18C4
Location: Duchesne, UT
Rig: Precision 404

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	3508.00	6.83	347.78	94.00	3496.83	148.81	148.81	N	83.78	E	170.77	29.38	1.38	0.29	11.57
37	3601.00	6.23	346.05	93.00	3589.23	159.11	159.11	N	81.39	E	178.72	27.09	0.68	-0.65	-1.86
38	3694.00	6.36	343.09	93.00	3681.67	168.94	168.94	N	78.67	E	186.36	24.97	0.38	0.14	-3.18
39	3787.00	4.96	341.99	93.00	3774.21	177.69	177.69	N	75.93	E	193.24	23.14	1.51	-1.51	-1.18
40	3880.00	3.75	344.86	93.00	3866.94	184.45	184.45	N	73.90	E	198.70	21.83	1.32	-1.30	3.09
41	3973.00	3.05	343.82	93.00	3959.78	189.76	189.76	N	72.41	E	203.11	20.89	0.76	-0.75	-1.12
42	4066.00	2.84	345.95	93.00	4052.66	194.37	194.37	N	71.16	E	206.99	20.11	0.25	-0.23	2.29
43	4159.00	2.31	329.78	93.00	4145.56	198.23	198.23	N	69.66	E	210.11	19.36	0.96	-0.57	-17.39
44	4252.00	1.61	334.50	93.00	4238.51	201.03	201.03	N	68.15	E	212.27	18.73	0.77	-0.75	5.08
45	4345.00	1.13	319.49	93.00	4331.48	202.90	202.90	N	67.00	E	213.68	18.27	0.64	-0.52	-16.14
46	4438.00	0.64	289.22	93.00	4424.47	203.77	203.77	N	65.91	E	214.17	17.92	0.71	-0.53	-32.55
47	4531.00	0.81	258.83	93.00	4517.46	203.82	203.82	N	64.78	E	213.86	17.63	0.45	0.18	-32.68
48	4625.00	1.08	237.49	94.00	4611.45	203.21	203.21	N	63.38	E	212.87	17.32	0.47	0.29	-22.70
49	4718.00	1.34	231.10	93.00	4704.43	202.06	202.06	N	61.79	E	211.29	17.00	0.31	0.28	-6.87
50	4811.00	1.48	223.47	93.00	4797.40	200.50	200.50	N	60.12	E	209.32	16.69	0.25	0.15	-8.20
51	4904.00	1.73	224.34	93.00	4890.37	198.63	198.63	N	58.31	E	207.01	16.36	0.27	0.27	0.94
52	4997.00	1.32	195.84	93.00	4983.33	196.59	196.59	N	57.04	E	204.70	16.18	0.91	-0.44	-30.65
53	5090.00	1.17	278.05	93.00	5076.32	195.70	195.70	N	55.80	E	203.50	15.92	1.76	-0.16	88.40
54	5183.00	2.23	347.15	93.00	5169.28	197.59	197.59	N	54.46	E	204.96	15.41	2.28	1.14	74.30
55	5276.00	5.26	357.97	93.00	5262.08	203.62	203.62	N	53.91	E	210.63	14.83	3.33	3.26	11.63
56	5369.00	4.62	2.06	93.00	5354.73	211.62	211.62	N	53.89	E	218.38	14.29	0.79	-0.69	-382.70
57	5462.00	5.84	356.97	93.00	5447.34	220.09	220.09	N	53.78	E	226.56	13.73	1.40	1.31	381.62
58	5556.00	6.16	7.38	94.00	5540.83	229.87	229.87	N	54.17	E	236.16	13.26	1.20	0.34	-371.90
59	5649.00	6.13	4.90	93.00	5633.29	239.76	239.76	N	55.24	E	246.04	12.97	0.29	-0.03	-2.67
60	5742.00	4.94	2.71	93.00	5725.86	248.71	248.71	N	55.85	E	254.90	12.66	1.30	-1.28	-2.35
61	5835.00	3.63	358.94	93.00	5818.60	255.65	255.65	N	55.99	E	261.71	12.35	1.44	-1.41	383.04
62	5928.00	3.50	3.69	93.00	5911.42	261.43	261.43	N	56.11	E	267.39	12.11	0.35	-0.14	-381.99
63	6021.00	1.66	349.91	93.00	6004.32	265.59	265.59	N	56.06	E	271.44	11.92	2.07	-1.98	372.28
64	6115.00	2.17	339.92	94.00	6098.27	268.60	268.60	N	55.21	E	274.22	11.62	0.65	0.54	-10.63
65	6207.00	3.60	337.18	92.00	6190.15	272.90	272.90	N	53.49	E	278.09	11.09	1.56	1.55	-2.98
66	6301.00	3.29	334.97	94.00	6283.98	278.06	278.06	N	51.21	E	282.74	10.43	0.36	-0.33	-2.35
67	6394.00	2.54	330.58	93.00	6376.86	282.28	282.28	N	49.07	E	286.51	9.86	0.84	-0.81	-4.72
68	6487.00	1.77	313.24	93.00	6469.79	285.06	285.06	N	47.01	E	288.91	9.36	1.08	-0.83	-18.65
69	6580.00	1.38	293.97	93.00	6562.76	286.50	286.50	N	44.94	E	290.00	8.91	0.70	-0.42	-20.72
70	6674.00	1.25	254.59	94.00	6656.74	286.68	286.68	N	42.91	E	289.88	8.51	0.95	-0.14	-41.89
71	6767.00	1.44	237.56	93.00	6749.71	285.79	285.79	N	40.95	E	288.71	8.15	0.47	0.20	-18.31
72	6860.00	1.57	224.82	93.00	6842.68	284.26	284.26	N	39.07	E	286.93	7.83	0.38	0.14	-13.70



Company: EP Energy
Well: Olsen 4-18C4
Location: Duchesne, UT
Rig: Precision 404

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	6953.00	1.60	208.03	93.00	6935.64	282.21	282.21	N	37.56	E	284.69	7.58	0.50	0.03	-18.05
74	7046.00	1.77	203.99	93.00	7028.60	279.75	279.75	N	36.36	E	282.10	7.41	0.22	0.18	-4.34
75	7140.00	2.04	199.07	94.00	7122.55	276.84	276.84	N	35.23	E	279.07	7.25	0.34	0.29	-5.23
76	7233.00	2.29	196.75	93.00	7215.48	273.50	273.50	N	34.15	E	275.62	7.12	0.28	0.27	-2.49
77	7326.00	1.69	198.03	93.00	7308.43	270.41	270.41	N	33.19	E	272.44	7.00	0.65	-0.65	1.38
78	7419.00	1.87	191.31	93.00	7401.38	267.62	267.62	N	32.47	E	269.58	6.92	0.30	0.19	-7.23
79	7512.00	2.05	188.66	93.00	7494.33	264.49	264.49	N	31.92	E	266.41	6.88	0.22	0.19	-2.85
80	7606.00	2.26	181.55	94.00	7588.26	260.97	260.97	N	31.62	E	262.88	6.91	0.36	0.22	-7.56
81	7698.00	2.57	186.44	92.00	7680.18	257.11	257.11	N	31.34	E	259.01	6.95	0.40	0.34	5.32
82	7791.00	2.41	185.16	93.00	7773.09	253.09	253.09	N	30.93	E	254.98	6.97	0.18	-0.17	-1.38
83	7884.00	1.48	190.60	93.00	7866.04	249.96	249.96	N	30.53	E	251.82	6.96	1.02	-1.00	5.85
84	7978.00	1.79	189.45	94.00	7960.00	247.32	247.32	N	30.07	E	249.14	6.93	0.33	0.33	-1.22
85	8071.00	2.06	193.82	93.00	8052.95	244.27	244.27	N	29.43	E	246.03	6.87	0.33	0.29	4.70
86	8164.00	2.25	194.44	93.00	8145.88	240.88	240.88	N	28.57	E	242.56	6.76	0.21	0.20	0.67
87	8257.00	1.74	186.34	93.00	8238.82	237.70	237.70	N	27.96	E	239.34	6.71	0.63	-0.55	-8.71
88	8350.00	1.82	193.20	93.00	8331.78	234.86	234.86	N	27.47	E	236.46	6.67	0.24	0.09	7.38
89	8443.00	1.99	202.24	93.00	8424.73	231.93	231.93	N	26.52	E	233.44	6.52	0.37	0.18	9.72
90	8537.00	1.91	203.67	94.00	8518.67	228.99	228.99	N	25.27	E	230.38	6.30	0.10	-0.09	1.52
91	8630.00	1.68	205.47	93.00	8611.63	226.34	226.34	N	24.07	E	227.61	6.07	0.25	-0.25	1.94
92	8723.00	1.58	203.26	93.00	8704.59	223.93	223.93	N	22.97	E	225.10	5.86	0.13	-0.11	-2.38
93	8816.00	2.25	185.16	93.00	8797.54	220.93	220.93	N	22.30	E	222.05	5.76	0.96	0.72	-19.46
94	8885.00	2.82	177.33	69.00	8866.47	217.89	217.89	N	22.26	E	219.02	5.83	0.96	0.83	-11.35
95	9000.00	3.29	182.02	115.00	8981.31	211.76	211.76	N	22.28	E	212.93	6.00	0.46	0.41	4.07
96	9100.00	3.84	180.43	100.00	9081.11	205.55	205.55	N	22.15	E	206.74	6.15	0.56	0.56	-1.59
97	9200.00	3.79	171.66	100.00	9180.89	198.93	198.93	N	22.60	E	200.21	6.48	0.59	-0.05	-8.77
98	9300.00	3.78	172.89	100.00	9280.67	192.39	192.39	N	23.49	E	193.82	6.96	0.08	-0.01	1.23
99	9400.00	3.74	171.30	100.00	9380.46	185.89	185.89	N	24.39	E	187.49	7.48	0.11	-0.04	-1.59
100	9500.00	3.81	172.34	100.00	9480.24	179.37	179.37	N	25.33	E	181.15	8.04	0.10	0.07	1.04
101	9600.00	3.48	172.52	100.00	9580.04	173.07	173.07	N	26.17	E	175.03	8.60	0.33	-0.33	0.18
102	9700.00	3.42	175.07	100.00	9679.86	167.09	167.09	N	26.82	E	169.22	9.12	0.17	-0.06	2.55
103	9800.00	3.64	177.67	100.00	9779.67	160.95	160.95	N	27.20	E	163.23	9.59	0.27	0.22	2.59
104	9900.00	3.58	181.18	100.00	9879.47	154.66	154.66	N	27.27	E	157.04	10.00	0.23	-0.06	3.52
105	10000.00	3.22	183.55	100.00	9979.29	148.74	148.74	N	27.03	E	151.17	10.30	0.39	-0.36	2.37
106	10100.00	3.44	190.09	100.00	10079.13	142.98	142.98	N	26.33	E	145.39	10.44	0.44	0.22	6.54
107	10200.00	3.51	194.45	100.00	10178.94	137.07	137.07	N	25.04	E	139.34	10.35	0.27	0.07	4.36
108	10300.00	3.86	182.68	100.00	10278.74	130.74	130.74	N	24.12	E	132.95	10.45	0.83	0.34	-11.76
109	10400.00	3.71	180.82	100.00	10378.52	124.15	124.15	N	23.92	E	126.43	10.91	0.19	-0.14	-1.86



Company: EP Energy **Job Number:** _____
Well: Olsen 4-18C4 **Mag Decl.:** _____
Location: Duchesne, UT **Dir Driller:** _____
Rig: Precision 404 **MWD Eng:** _____

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

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')		
							N/S (ft)	E/W (ft)	Distance (ft)	Direction Azimuth					
110	10500.00	3.80	178.74	100.00	10478.30	117.60	117.60	N	23.95	E	120.01	11.51	0.16	0.09	-2.07
111	10600.00	3.40	180.06	100.00	10578.11	111.32	111.32	N	24.02	E	113.88	12.17	0.41	-0.41	1.31
112	10700.00	3.69	179.46	100.00	10677.92	105.14	105.14	N	24.04	E	107.86	12.88	0.29	0.29	-0.60
113	10800.00	3.46	173.68	100.00	10777.72	98.94	98.94	N	24.41	E	101.90	13.86	0.43	-0.23	-5.78
114	10900.00	3.48	182.18	100.00	10877.54	92.90	92.90	N	24.62	E	96.11	14.84	0.51	0.03	8.50
115	11000.00	3.58	181.63	100.00	10977.35	86.75	86.75	N	24.42	E	90.12	15.72	0.10	0.09	-0.54
116	11100.00	3.56	190.19	100.00	11077.16	80.58	80.58	N	23.78	E	84.01	16.44	0.53	-0.01	8.55
117	11200.00	3.56	186.06	100.00	11176.96	74.44	74.44	N	22.90	E	77.88	17.10	0.26	-0.01	-4.13
118	11300.00	3.29	187.89	100.00	11276.79	68.51	68.51	N	22.18	E	72.01	17.94	0.29	-0.27	1.84
119	11345.00	3.34	188.03	45.00	11321.71	65.93	65.93	N	21.82	E	69.45	18.31	0.11	0.11	0.32
120	11560.00	3.34	188.03	215.00	11536.35	53.54	53.54	N	20.07	E	57.18	20.55	0.00	0.00	0.00

Olsen 4-18 C4 Recom Summary Procedure

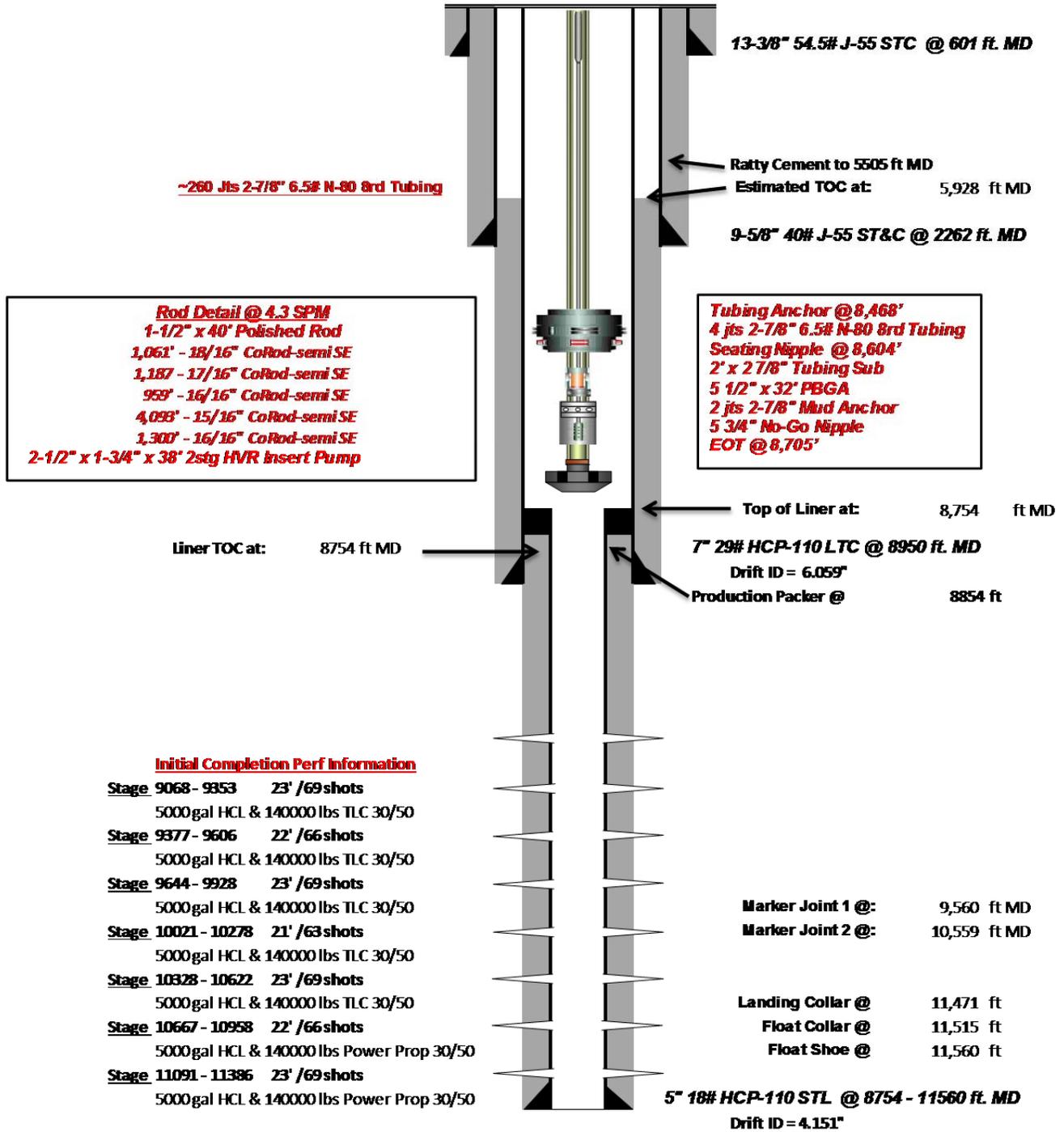
- POOH with co-rod & tubing. Inspect/Repair/Re-furbish as needed. Replace any bad tubing.
- Set 15M CBP for 5" 18# casing @ 9,050' and dump bail 15' cmt on top of plug.
- Stage 1:
 - Perforate new LGR interval from **8,780' - 8,988'**.
 - Prop Frac Perforations with **115,000 lbs 30/50** (7,000 gals 15% HCl acid and 7,000 lbs 100 mesh) (Stage 1 Recom).
- Stage 2:
 - RIH with 7" CBP & set @ 9,515'.
 - Perforate new LGR interval from **8,393' - 8,500'**.
 - Acid Frac Perforations with **13,000** gals 15% HCl acid (Stage 2 Recom).
- Stage 3:
 - RIH with 7" CBP & set @ 8,105'.
 - Perforate new LGR interval from **7,853' - 8,090'**.
 - Prop Frac Perforations with **120,000 lbs 30/50** (7,500 gals 15% HCl acid and 7,500 lbs 100 mesh) (Stage 3 Recom).
- Stage 4:
 - RIH with 7" CBP & set @ 7,827'.
 - Perforate new LGR interval from **7,723' - 7,812'**.
 - Acid Frac Perforations with **10,000** gals 15% HCl acid (Stage 4 Recom).
- Stage 5:
 - RIH with 7" CBP & set @ 7,627'.
 - Perforate new LGR interval from **7,539' - 7,612'**.
 - Acid Frac Perforations with **9,000** gals 15% HCl acid (Stage 5 Recom).
- Clean out well drilling up (3) 7" CBPs leaving (1) 5" 15M CBP @ 9,050'. Top perf BELOW plugs @ 9,068'.
- RIH w/ production tubing, pump, and co-rod.
- Clean location and resume production.



Current Pumping Schematic

Well Name: **Olsen 4-18C4**
 Company Name: **EP Energy**
 Field, County, State: **Altamont, Duchesne, UT**
 Surface Location: **Lat: 40°12'59.158" N Long: 110°23'04.621" W**
 Producing Zone(s): **Wasatch**

Last Updated: **1/6/2017**
 By: **R Fondren**
 TD: **11,560**
 API: **43013529010000**
 AFE: **161215**

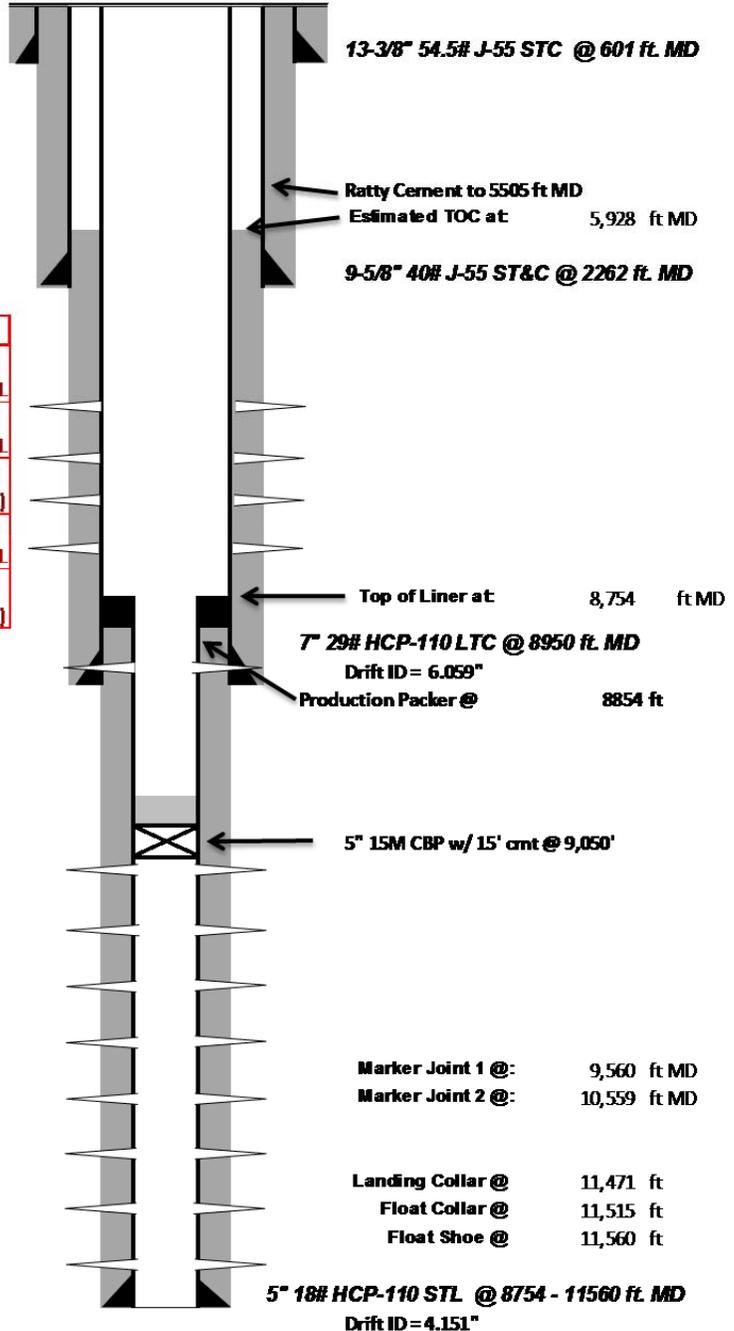




Proposed Recom Schematic

Well Name: Olsen 4-18C4
 Company Name: EP Energy
 Field, County, State: Altamont, Duchesne, UT
 Surface Location: Lat: 40°12'59.158" N Long: 110°23'04.621" W
 Producing Zone(s): Wasatch

Last Updated: 1/6/2017
 By: R Fondren
 TD: 11,560
 API: 43013529010000
 AFE:



2017 Recompletion	
Stage 5: 7,539' - 7,612' (14'/42 holes)	9,000 gals HCL
Stage 4: 7,723' - 7,812' (14'/42 holes)	10,000 gals HCL
Stage 3: 7,853' - 8,090' (23'/69 holes)	120,000 lbs 30/50 (7,500 lbs 100 mesh, 7,500 gal HCL)
Stage 2: 8,393' - 8,500' (11'/33 holes)	13,000 gals HCL
Stage 1: 8,780' - 8,988' (23'/69 holes)	115,000 lbs 30/50 (7,000 lbs 100 mesh, 7,000 gal HCL)

Initial Completion Perf Information	
Stage 9068 - 9353	23' /69 shots 5000 gal HCL & 140000 lbs TLC 30/50
Stage 9377 - 9606	22' /66 shots 5000 gal HCL & 140000 lbs TLC 30/50
Stage 9644 - 9928	23' /69 shots 5000 gal HCL & 140000 lbs TLC 30/50
Stage 10021 - 10278	21' /63 shots 5000 gal HCL & 140000 lbs TLC 30/50
Stage 10328 - 10622	23' /69 shots 5000 gal HCL & 140000 lbs TLC 30/50
Stage 10667 - 10958	22' /66 shots 5000 gal HCL & 140000 lbs Power Prop 30/50
Stage 11091 - 11386	23' /69 shots 5000 gal HCL & 140000 lbs Power Prop 30/50