

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 Moon 3-30C4								
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') Lee H. & Kathy Moon						14. SURFACE OWNER PHONE (if box 12 = 'fee') 435-738-5363								
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee') HC 64 Box 115, 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		2377 FSL 700 FEL		NESE		30		3.0 S		4.0 W		U		
Top of Uppermost Producing Zone		2377 FSL 700 FEL		NESE		30		3.0 S		4.0 W		U		
At Total Depth		2377 FSL 700 FEL		NESE		30		3.0 S		4.0 W		U		
21. COUNTY DUCHESNE			22. DISTANCE TO NEAREST LEASE LINE (Feet) 700			23. NUMBER OF ACRES IN DRILLING UNIT 640								
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 1500			26. PROPOSED DEPTH MD: 11200 TVD: 11200								
27. ELEVATION - GROUND LEVEL 5789			28. BOND NUMBER 400JU0708			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE Duchesne City								
Hole, Casing, and Cement Information														
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight				
SURF	12.25	9.625	0 - 2000	40.0	N-80 LT&C	0.0	Type V	218	3.18	11.0				
							Class G	303	1.3	14.3				
I1	8.75	7	0 - 8300	29.0	HCP-110 LT&C	10.2	Class G	430	1.91	12.5				
							Class G	304	1.64	13.0				
L1	6.125	5	8100 - 11200	18.0	HCP-110 LT&C	12.3	Class G	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 06/04/2014				EMAIL maria.gomez@epenergy.com						
API NUMBER ASSIGNED 43013529900000				APPROVAL  Permit Manager										

**Moon 3-30C4
Sec. 30, 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)	3,456' TVD
Green River (GRTN1)	4,156' TVD
Mahogany Bench	5,000' TVD
L. Green River	6,366' TVD
Wasatch	8,226' TVD
T.D. (Permit)	11,200' TVD

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

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
	Green River (GRRV)	3,456' MD / TVD
	Green River (GRTN1)	4,156' MD / TVD
	Mahogany Bench	5,000' MD / TVD
Oil	L. Green River	6,366' MD / TVD
Oil	Wasatch	8,226' MD / TVD

3. Pressure Control Equipment: (Schematic Attached)

A Diverter Stack on structural pipe from 40' MD/TVD to 2,000' MD/TVD. A 10M BOP stack w/ rotating head, spacer spool, 5M annular, flex rams, blind rams & single w/ flex rams used from 2,000' MD/TVD to 8,300' MD/TVD. A 10M BOP stack w/ rotating head, spacer spool, 5M annular, flex rams, blind rams & single w/ flex rams from 8,300' MD/TVD to TD (11,200' MD /TVD).

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

OPERATORS MINIMUM SPECIFICATIONS FOR BOPE:

The surface casing will be equipped with a flanged casing head of 5M psi working pressure. An 11" 5M x 11" 10M spool, 11" x 10M psi BOP and 5M psi annular will be nipped up on the surface casing and tested to 250 psi low test / 3,000 psi high test for 10 minutes each prior to drilling out. The surface casing will be tested to 1,000 psi. for 30 mins. Intermediate casing will be tested to the greater of 1,500 psi or 0.22 psi/ft. The choke manifold equipment, upper Kelly

cock and floor safety valves will be tested to 5M psi. The annular preventer will be tested to 250 psi low test / 4,000 psi high test. The 10M BOP will be installed with rotating head, spacer spool, 5M annular, flex rams, blind rams & single w/ flex rams from surface shoe to TD. The BOPE will be hydraulically operated.

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

Statement on Accumulator System and Location of Hydraulic Controls:

Precision 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 (11,200' 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	9.0 – 10.2
Production	WBM	10.2 – 12.3

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 (11,200' 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 11,200' TVD equals approximately 7,164 psi. This is calculated based on a 0.6396 psi/ft gradient (12.3 ppg mud density at TD).

Maximum anticipated surface pressure equals approximately 4,700 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/ft).

Maximum anticipated surface pressure based on frac gradient at 7" casing shoe is 0.8 psi/ft at 8,300' TVD = 6,640 psi

BOPE and casing design will be based on the lesser of the two MASPs which is 4,700 psi.

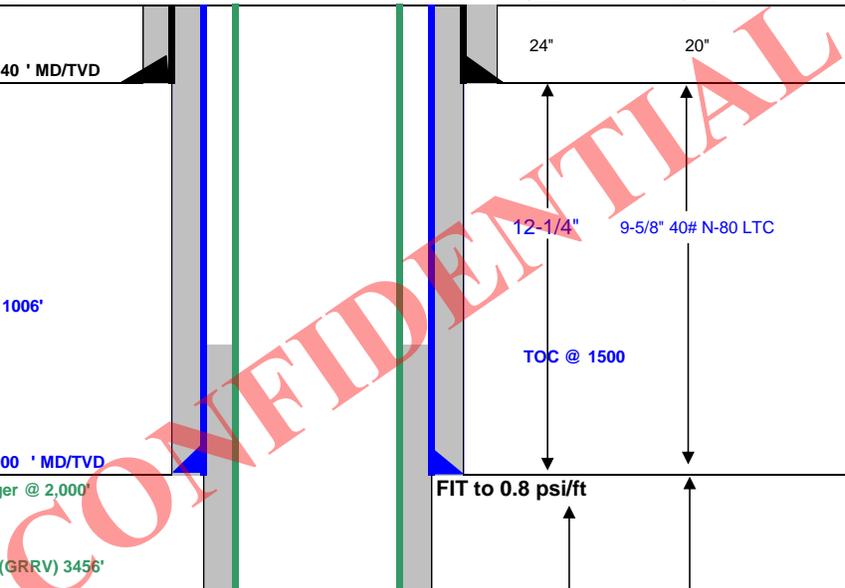
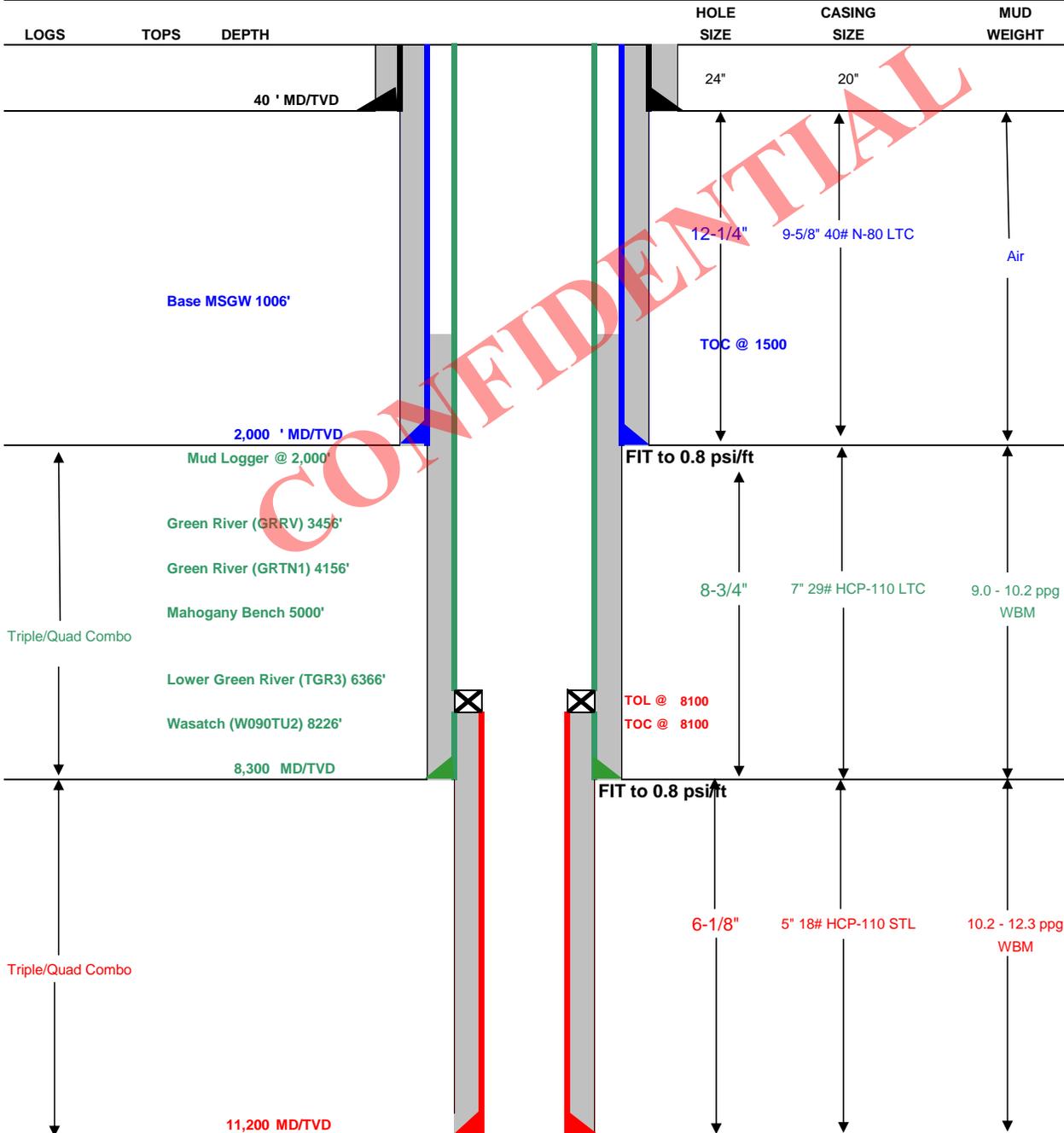
8. **OPERATOR REQUESTS THAT THE PROPOSED WELL BE PLACED ON CONFIDENTIAL STATUS.**



Drilling Schematic

Company Name: EP ENERGY	Date: August 6, 2014
Well Name: Moon 3-30C4	TD: 11,200
Field, County, State: Altamont, Duchesne, Utah	AFE #: TBD
Surface Location: Sec 30 T3S R4W 2377' FSL 700' FEL	BHL: Straight Hole
Objective Zone(s): Green River, Wasatch	Elevation: 5788.8
Rig: Precision 406	Spud (est.): TBD
BOPE Info: Diverter System on structural pipe from 40' to 2,000' . 11 10M BOPE w/ rotating head & 5M annular from 2,000' to 8,300' . 11 10M BOPE w/ rotating head, spacer spool, 5M annular, flex rams, blind rams, single w/ flex rams from 8,300' to TD	

MECHANICAL



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	8300	29.00	HCP-110	LTC	11,220	9,750	797
PRODUCTION LINER	5'	8100	11200	18.00	HCP-110	STL	13,940	15,450	495

CEMENT PROGRAM		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
CONDUCTOR		40	Class G + 3% CACL2	142	100%	15.8 ppg	1.15
SURFACE	Lead	1,200	EXTENDACEM SYSTEM: Type 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	218	75%	11.0 ppg	3.18
	Tail	800	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	303	50%	14.3 ppg	1.30
INTERMEDIATE	Lead	4,300	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	430	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		3,100	EXTENDACEM SYSTEM: Class G Cement + 0.2% Super CBL + 0.55% SCR-100 + 0.3% Halad-413 + 0.125 lbm/sk Poly-E-Flake + 3 lbm/sk Silicalite Compacted + 20% SS-200 + 0.10% SA-1015	184	25%	14.20	1.47

FLOAT EQUIPMENT & CENTRALIZERS	
SURFACE	PDC drillable guide shoe, 1 joint casing, PDC drillable float collar. Thread lock all float equipment. Install bow spring centralizers on the bottom 3 joints of casing & every 3rd joint thereafter.
INTERMEDIATE	PDC drillable 10M,P-110 float shoe, 1 joint, PDC drillable 10M, P-110 float collar. Thread lock all float equipment. Maker joint at 6,300'.
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.
MOON 3-30C4
SECTION 30, 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 1.18 MILES TO AN INTERSECTION;

TURN RIGHT AND TRAVEL EASTERLY ON A COUNTY ROAD 0.87 MILES TO THE BEGINNING OF AN OIL FIELD ACCESS ROAD;

CONTINUE EASTERLY AND THEN NORTHEASTERLY ON A DIRT ROAD 1.03 MILES TO THE BEGINNING OF THE PROPOSED ACCESS ROAD;

TURN LEFT AND FOLLOW ROAD FLAGS NORTHERLY 0.19 MILES TO THE PROPOSED LOCATION;

TOTAL DISTANCE FROM DUCHESNE, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 3.27 MILES.

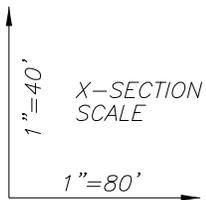
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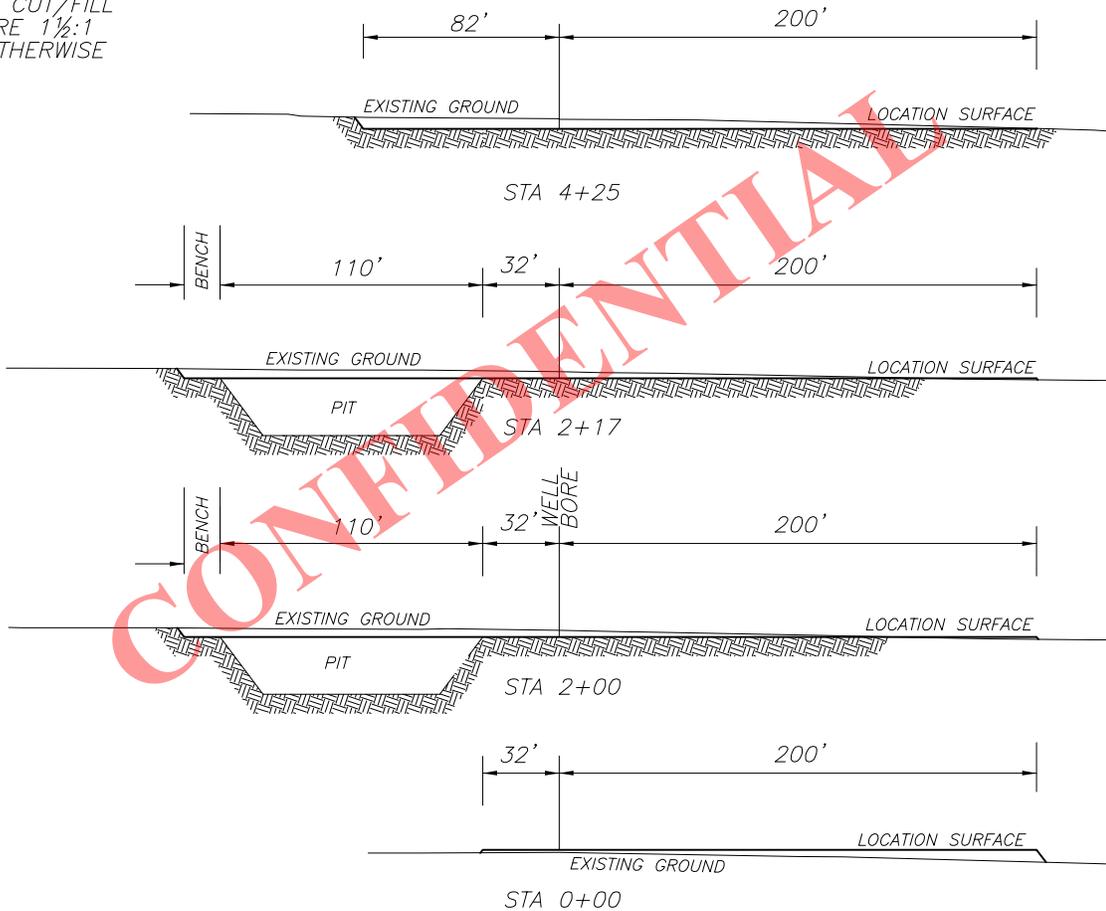
FIGURE #2

LOCATION LAYOUT FOR
MOON 3-30C4

SECTION 30, T3S, R4W, U.S.B.&M.
2377' FSL, 700' FEL



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



APPROXIMATE YARDAGES

TOTAL CUT (INCLUDING PIT) = 10,969 CU. YDS.

PIT CUT = 4955 CU. YDS.
TOPSOIL STRIPPING: (6") = 3090 CU. YDS.
REMAINING LOCATION CUT = 2924 CU. YDS

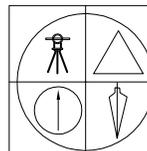
TOTAL FILL = 2924 CU. YDS.

LOCATION SURFACE GRAVEL=1653 CU. YDS. (4" DEEP)
ACCESS ROAD GRAVEL=273 CU. YDS.



REV 3 MAR 2014
12 SEP 2013

01-128-435



JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS

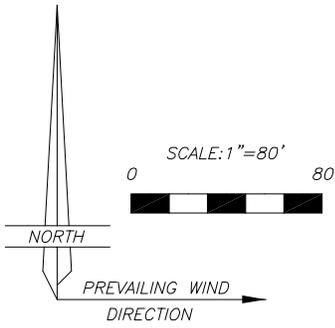
1235 NORTH 700 EAST--P.O. BOX 975
DUCHESNE, UTAH 84021
(435) 738-5352

EP ENERGY E&P COMPANY, L.P.

FIGURE #3

LOCATION LAYOUT FOR
MOON 3-30C4

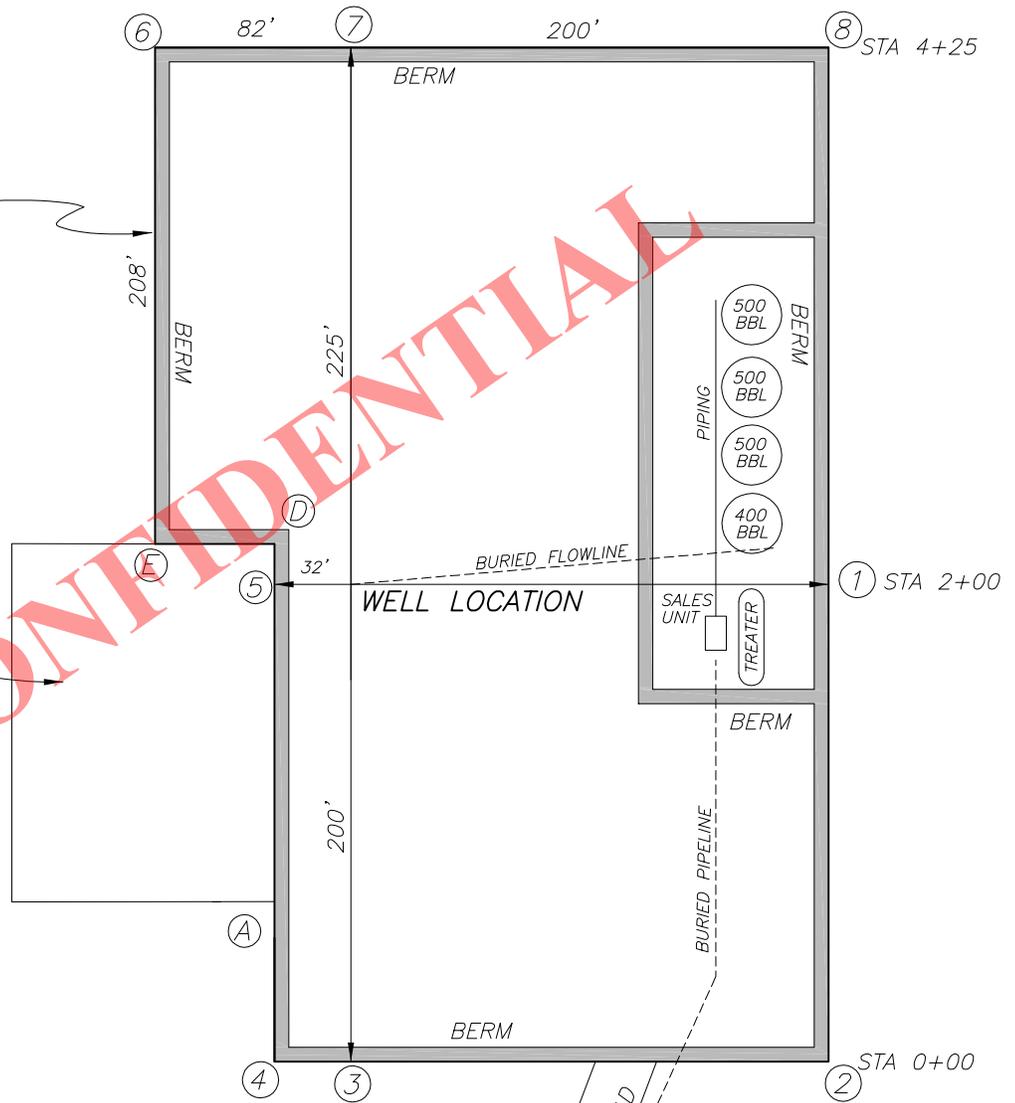
SECTION 30, T3S, R4W, U.S.B.&M.
2377' FSL, 700' FEL



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



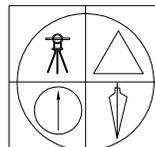
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Jerry D. Allred

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

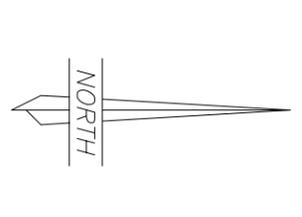
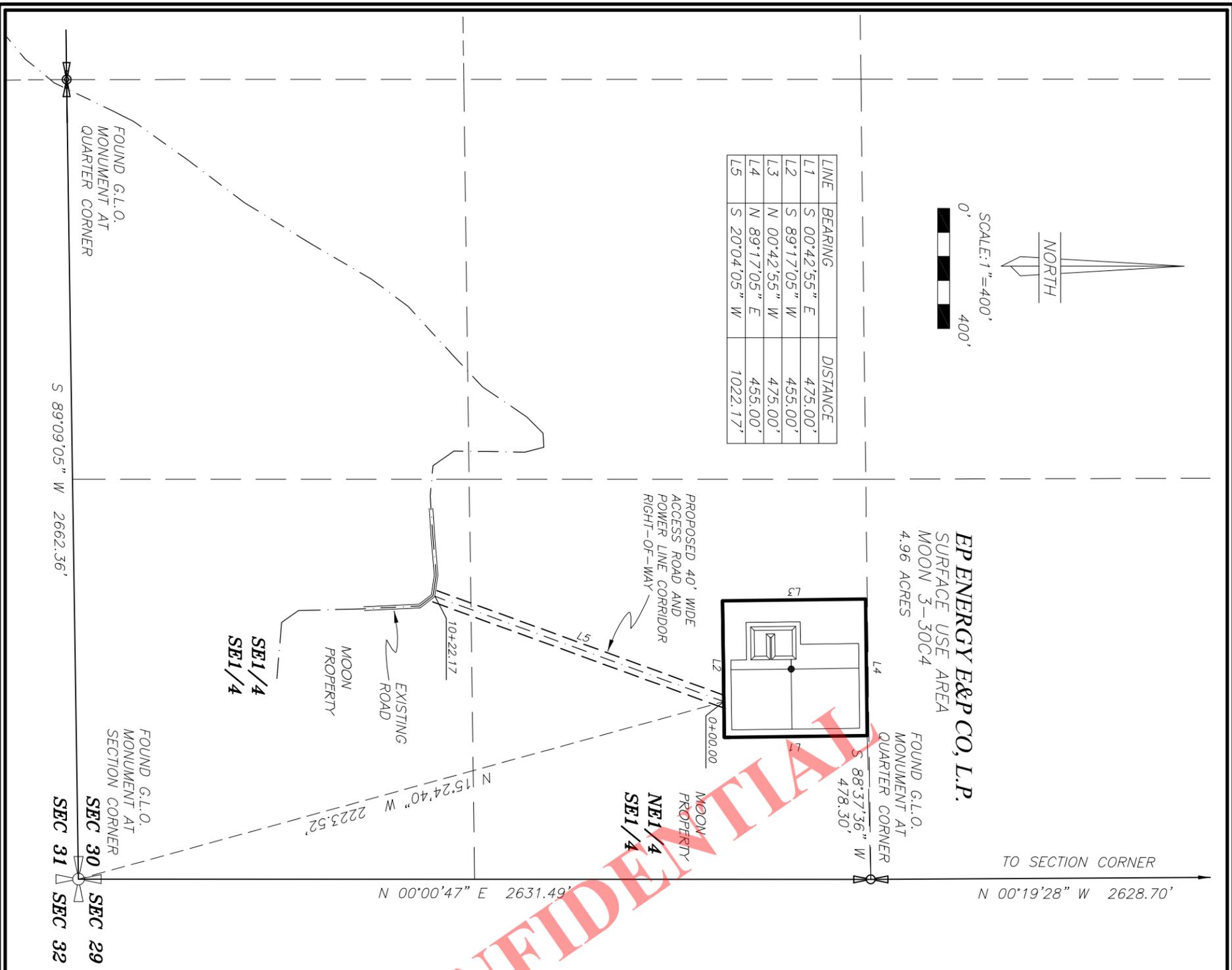
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12 SEP 2013

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(435) 738-5352



SCALE: 1"=400'
0' 400'

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LOCATION USE AREA AND ACCESS ROAD AND POWER LINE
CORRIDOR RIGHT-OF-WAY SURVEY FOR
EP ENERGY E&P COMPANY, L.P.
SECTION 30, T3S, R4W, U.S.B.&M.
DUCHESSNE COUNTY, UTAH
MOON 3-30C4

USE AREA BOUNDARY DESCRIPTION

Commencing at the East Quarter Corner of Section 30, Township 3 South, Range 4 West of the Uintah Special Base and Meridian;
Thence South 88°37'36" West 478.30 feet to the TRUE POINT OF BEGINNING;
Thence South 00°42'55" East 475.00 feet;
Thence South 89°17'05" West 455.00 feet;
Thence North 00°42'55" West 475.00 feet;
Thence North 89°17'05" East 455.00 feet to the TRUE POINT OF BEGINNING, containing 4.96 acres.

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

A 40 feet wide access road and power line corridor right-of-way over portions of Section 30, Township 3 South, Range 4 West of the Uintah Special Base and Meridian, the centerline of said right-of-way being further described as follows:
Commencing at the Southeast Corner of said Section 30;
Thence North 15°24'40" West 2223.52 feet to the TRUE POINT OF BEGINNING, said point being on the South line of the EP Energy Co. Moon 3-30C4 well location use area boundary;
Thence South 20°04'05" West 1022.17 feet to the North line of an existing road. Said right-of-way being 1022.17 feet in length with the side lines being shortened or elongated to intersect said use area boundary and existing road lines.

SURVEYOR'S CERTIFICATE

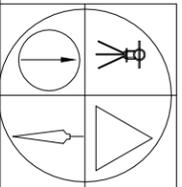
This is to certify that this plat was prepared from the field notes and electronic data collector files of an actual survey made by me, or under my personal supervision, of the use area and access road and power line corridor right-of-way shown hereon, and that the monuments indicated were found or set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

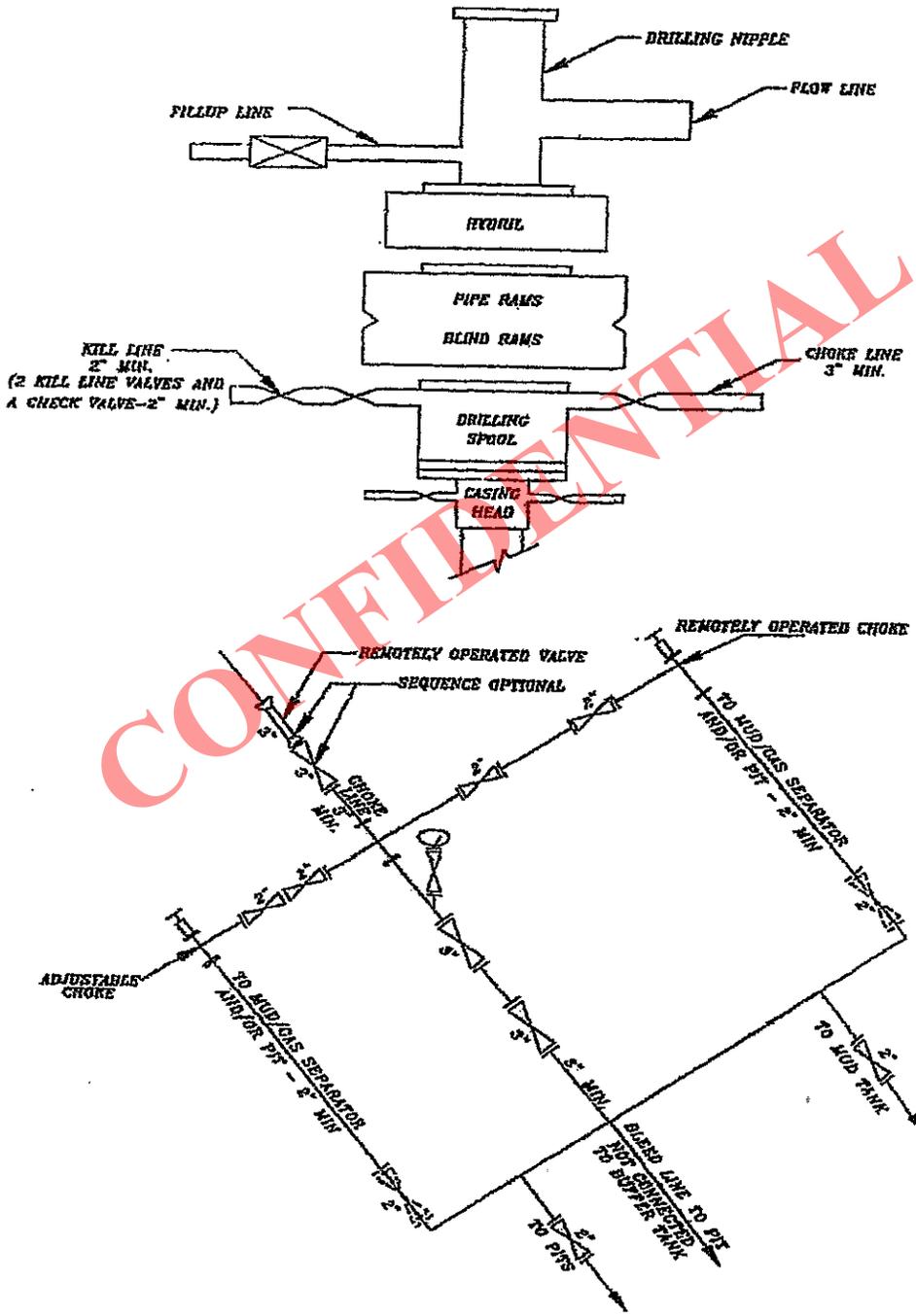
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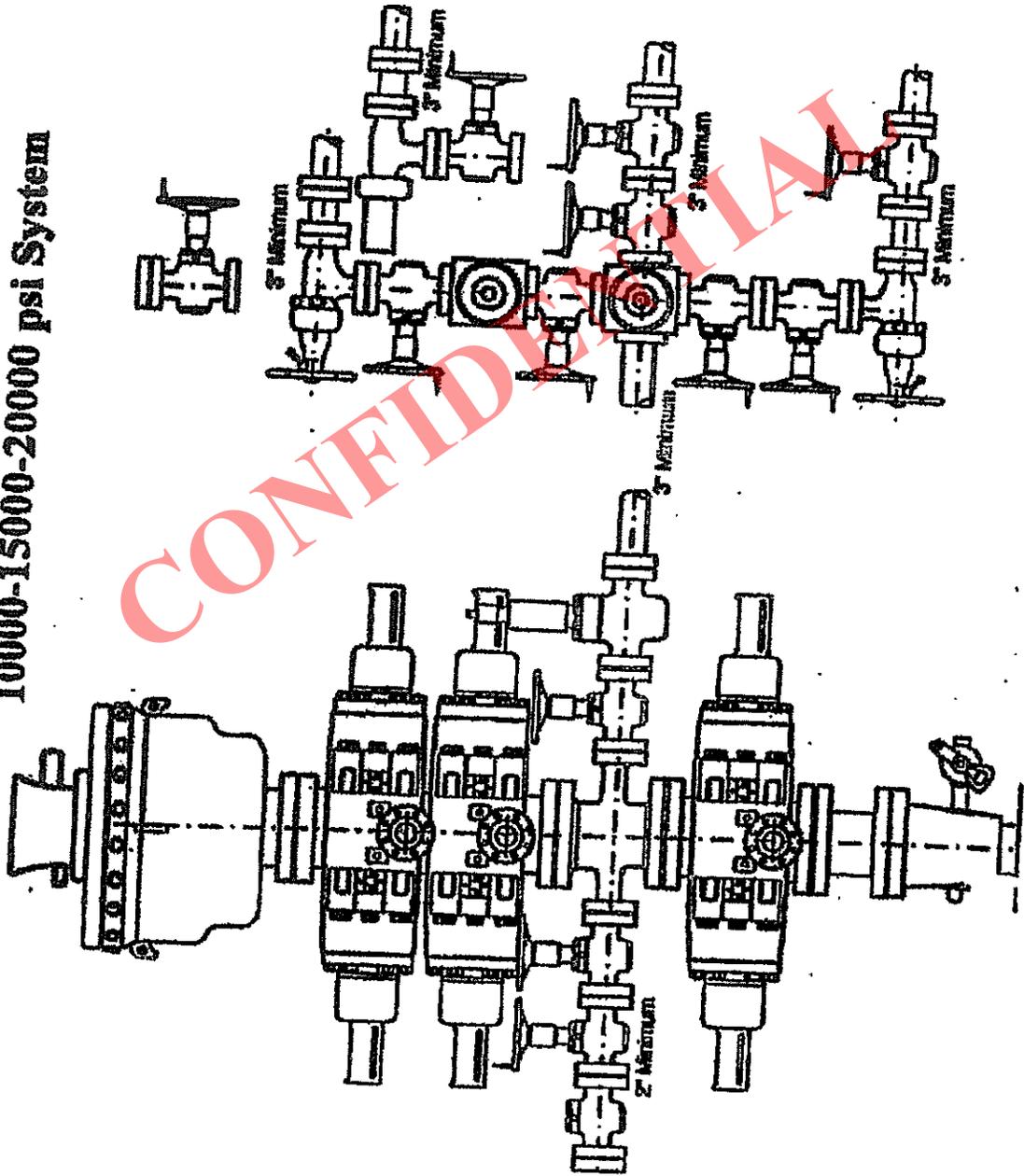
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1235 NORTH 700 EAST--P.O. BOX 975
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5M BOP STACK and CHOKE MANIFOLD SYSTEM



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10000-15000-20000 psi System

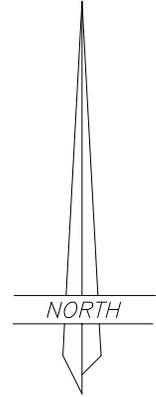
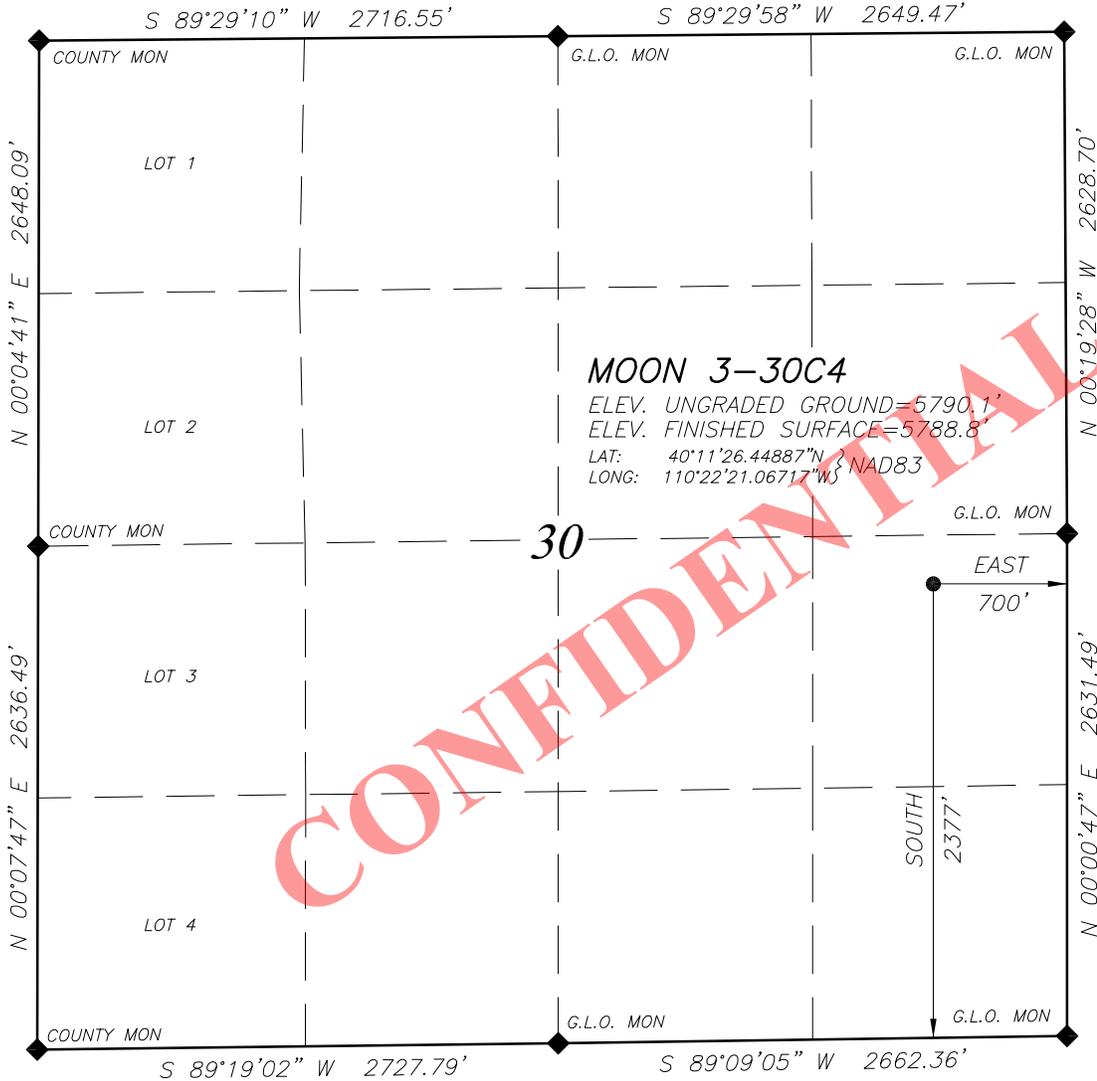


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EP ENERGY E&P COMPANY, L.P.

WELL LOCATION
MOON 3-30C4

LOCATED IN THE NE¼ OF THE SE¼ OF SECTION 30, T3S, R4W, U.S.B.&M. DUCHESNE COUNTY, UTAH



SCALE: 1" = 1000'



NOTE:
NAD27 VALUES FOR WELL POSITION:
LAT: 40.19072265° N
LONG: 110.37180794° W

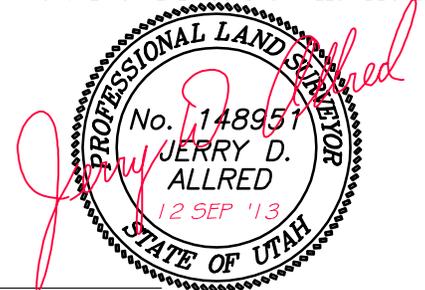
SURVEYOR'S CERTIFICATE

LEGEND AND NOTES

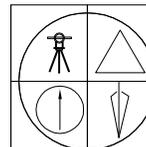
- ◆ CORNER MONUMENTS FOUND AND USED BY THIS SURVEY
- THE GENERAL LAND OFFICE (G.L.O.) PLAT WAS USED FOR REFERENCE AND CALCULATIONS AS WAS THE U.S.G.S. MAP
- THIS SURVEY WAS PERFORMED USING GLOBAL POSITIONING SYSTEM PROCEDURES AND EQUIPMENT
- THE BASIS OF BEARINGS IS GEODETIC NORTH DERIVED FROM G.P.S.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

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

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)

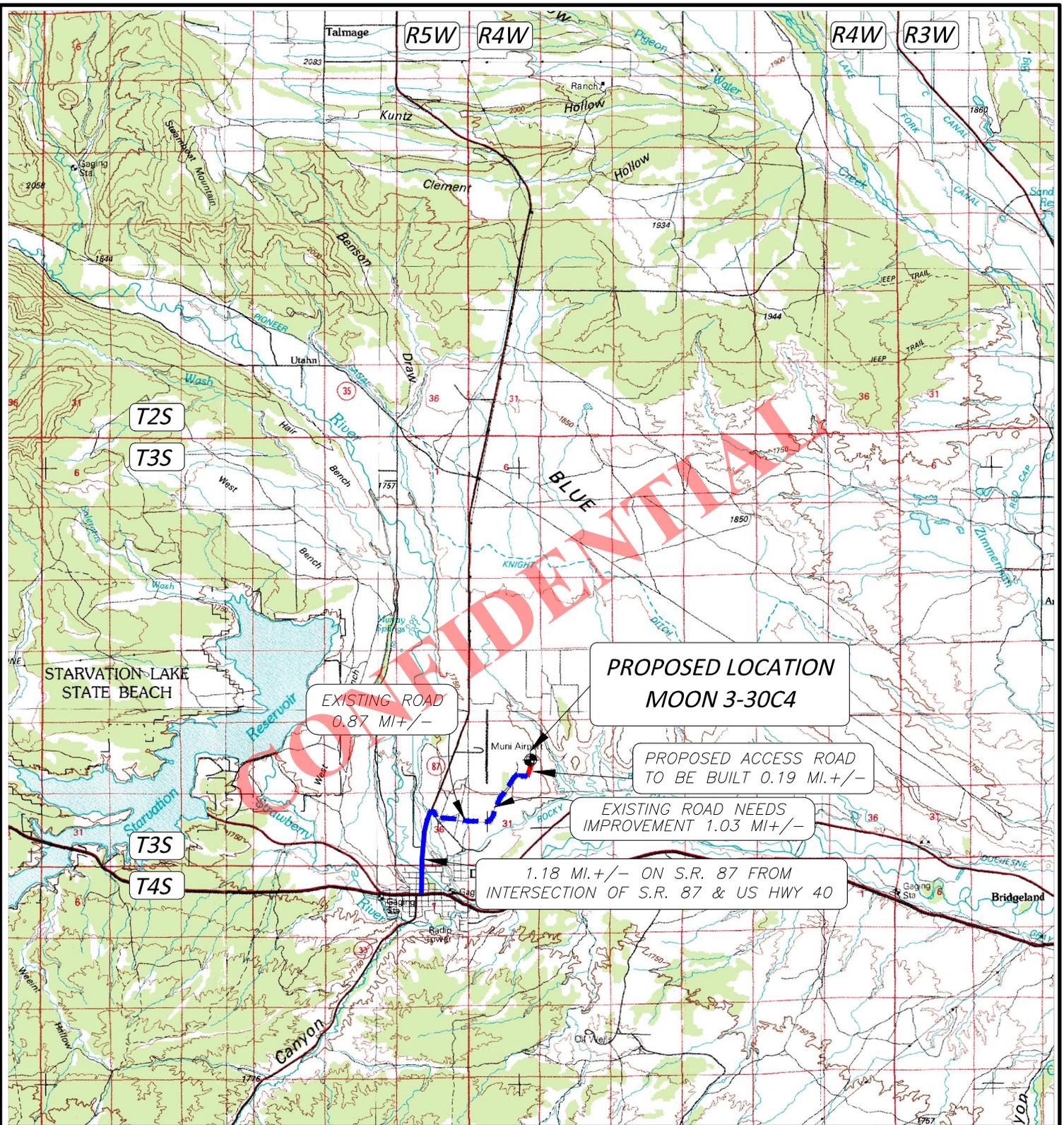


JERRY D. ALLRED & ASSOCIATES
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1235 NORTH 700 EAST--P.O. BOX 975
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(435) 738-5352

12 SEP 2013 01-128-435

RECEIVED: June 04, 2014



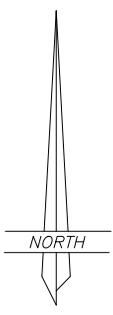
LEGEND:

PROPOSED WELL LOCATION

01-128-435

JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS

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EP ENERGY E&P COMPANY, L.P.

MOON 3-30C4

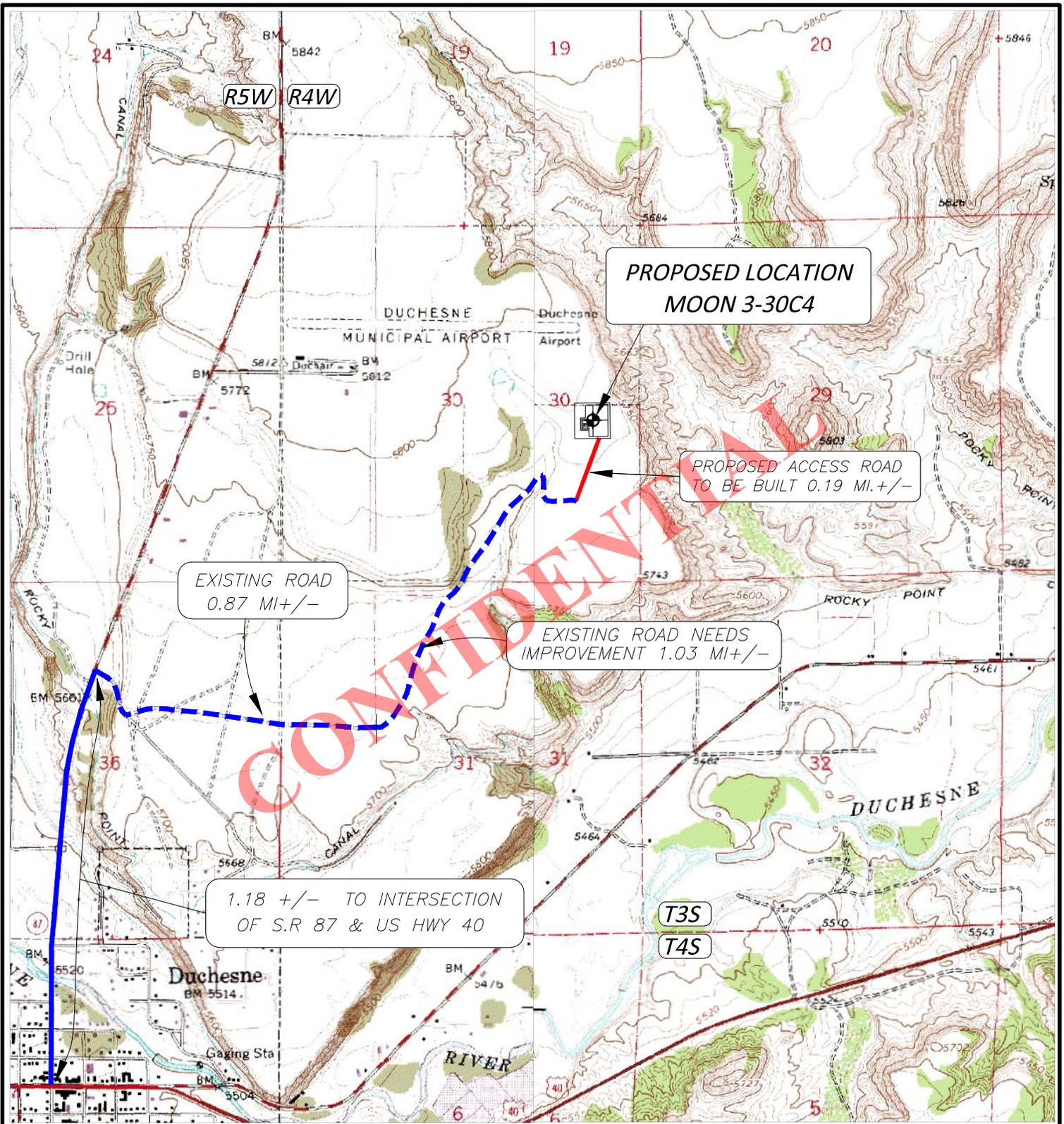
SECTION 30, T3S, R4W, U.S.B.&M.

2377' FSL 700' FEL

TOPOGRAPHIC MAP "A"

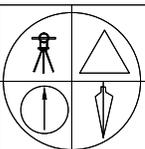
SCALE; 1"=10,000'

17 SEP 2013

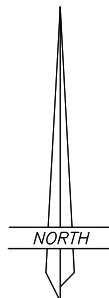


LEGEND:

-  **PROPOSED WELL LOCATION**
 -  **PROPOSED ACCESS ROAD**
 -  **EXISTING GRAVEL ROAD**
 -  **EXISTING PAVED ROAD**
- 01-128-435



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

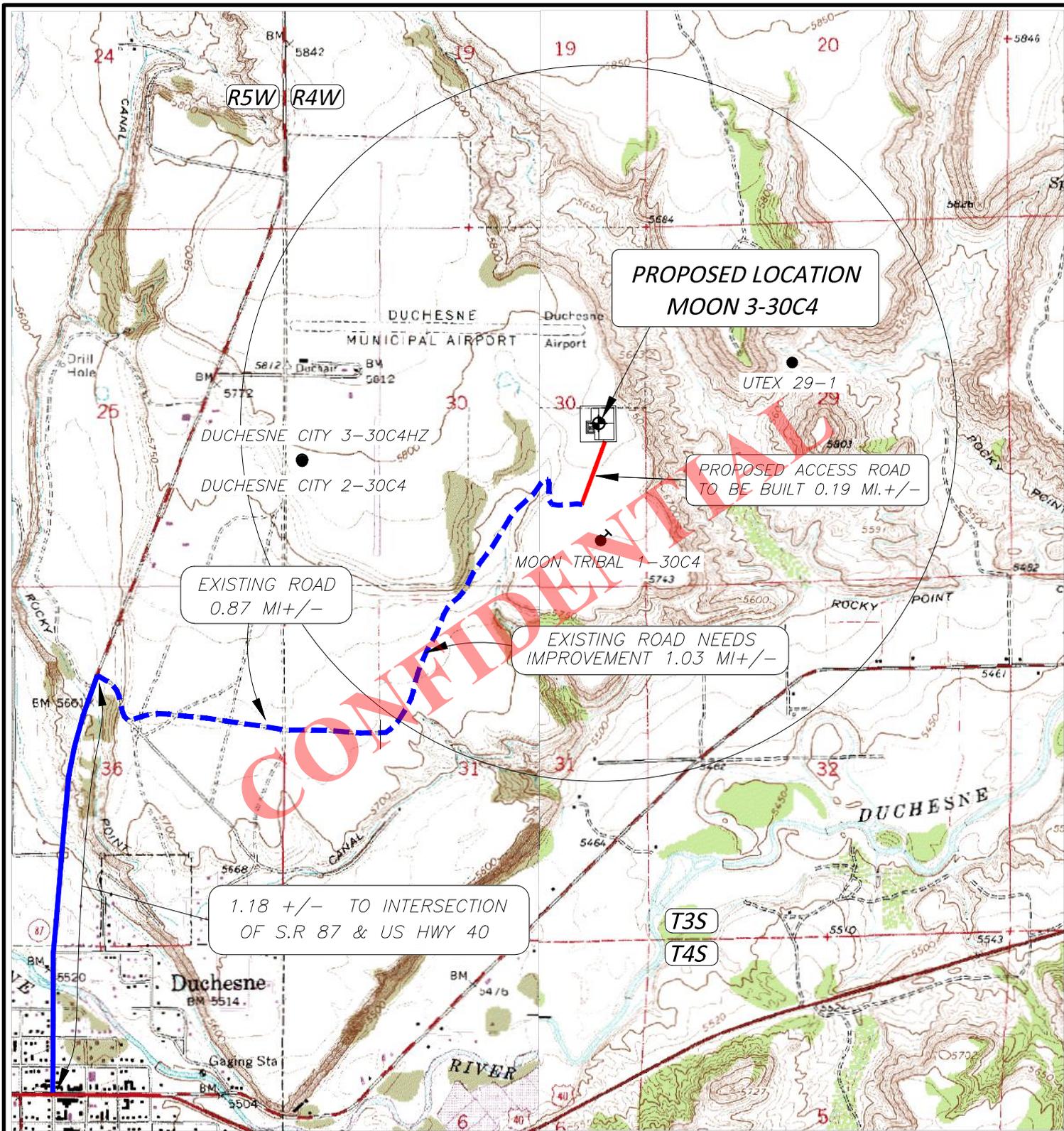


EP ENERGY E&P COMPANY, L.P.

MOON 3-30C4
SECTION 30, T3S, R4W, U.S.B.&M.
2377' FSL 700' FEL

TOPOGRAPHIC MAP "B"

SCALE; 1"=2000'
 17 SEP 2013

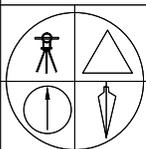


LEGEND:

PROPOSED WELL LOCATION

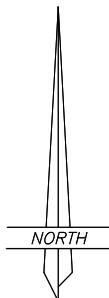
2-25C6

01-128-435



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.

MOON 3-30C4

SECTION 30, T3S, R4W, U.S.B.&M.

2377' FSL 700' FEL

TOPOGRAPHIC MAP "C"

SCALE: 1"=2000'
17 SEP 2013



May 29, 2014

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

**Re: Surface Use Agreement – Moon 3-30C4 (the “Well”)
700’ FEL & 2377’ FSL, NESE, 30-T3S-R4W, USM
Duchesne County, Utah**

Dear Mr. Hill:

Concurrently with the filing of EP Energy E&P Company, L.P.’s (“EPE”) Application for Permit to Drill the above referenced well, we hereby submit this letter to give notice that we are working to finalize a Surface Use Agreement (“SUA”) with the owner of the drillsite of the Well (the “Surface Owners”), whose name and contact information is as follows:

Name: Lee H. Moon and Kathy Moon, husband and wife as joint tenants
Address: HC 64 Box 115, Duchesne, UT 84021
Phone: 435-738-5363

EPE has been negotiating with the Surface Owners for several months and have finally come to an agreement on the location of the drillsite and the associated right of ways. EPE anticipates that the SUA will be executed shortly. However, due to the demands of our drilling schedule we are filing this Application without the SUA so that it can be processing while the SUA is being finalized.

EPE will forward the Affidavit of Surface Use Agreement to your office as soon as the SUA is executed, and we understand that the final Permit to Drill will not be approved until such time as such an Affidavit is submitted or EPE otherwise complies with the Surface Owner Protection Act Provision R649-3-38..

We appreciate your consideration. If you have any questions or need anything further you can contact me at 713-997-5747 or by email at Jacquelyn.Lynch@epenergy.com.

Sincerely,

A handwritten signature in blue ink, appearing to read "Jacquelyn Lynch".

Jackie Lynch
Landman

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 .19 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 .19 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:

Lee H. Moon and Kathy Moon, Joint Tenants
HC 64 Box 115
Duchesne, Utah 84021
435-738-5363

Other Information:

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

• **Operator and Contact Persons:**

Construction and Reclamation:

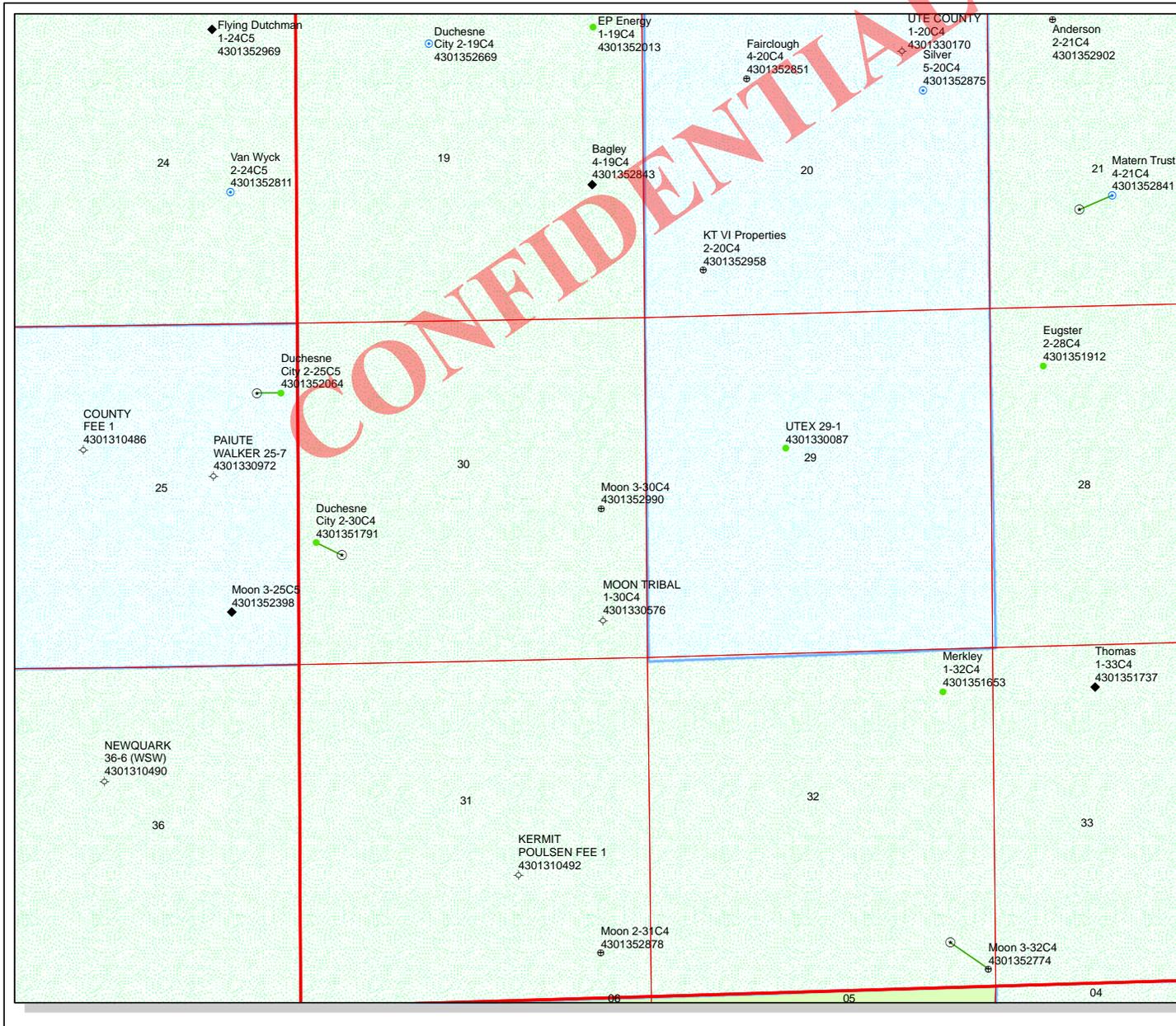
EP Energy E&P Company, L.P.
Wayne Garner
PO Box 410
Altamont, Utah 84001
435-454-3394 – Office
435-823-1490 – Cell

Regarding This APD

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

Drilling

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



API Number: 4301352990

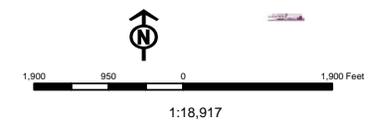
Well Name: Moon 3-30C4

Township: T03.0S Range: R04.0W Section: 30 Meridian: U

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

Map Prepared: 6/5/2014
Map Produced by Diana Mason

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





July 17, 2014

Lee H. Moon and Kathy Moon, husband and wife
 HC 64 Box 115
 Duchesne, Utah 84021

RE: Request for Permission to Commence Construction Operations
 Moon 3-30C4

Section 30, Township 3 South, Range 4 West, Duchesne County, Utah

Dear Lee H. Moon and Kathy Moon:

Pursuant to those certain *Surface Use Agreement* and *Right-of-Way Agreement* (collectively, "Agreements"), EP Energy E&P Company, L.P. ("EP Energy") was granted the rights to enter upon and utilize the surface of the Premises (as defined in the Agreements) for all purposes including, but not limited to, building, constructing and installing any well site, roads, pipelines and/or electrical power lines in preparation for a drilling rig to be used to drill the proposed Moon 3-30C4 ("Well").

In accordance with the rules and regulations of the State of Utah, EP Energy will prepare and submit an Application for Permit to Drill ("APD") to the Utah Division of Oil, Gas & Mining ("UDOGM"). In addition, pursuant to the requirements of UDOGM R649-3-18, UDOGM will approve EP Energy's proposed drilling operations after performing an on-site pre-drill evaluation.

In order to meet the deadlines of our current drilling program, EP Energy respectfully requests your written permission to commence construction of the well site, roads, pipelines and/or electrical lines as soon as possible and prior to receiving the approved APD from UDOGM. Please keep in mind this request only applies to surface operations, which will be conducted by EP Energy in accordance with all applicable state law and regulation, including the terms and conditions provided in the Agreements. Any drilling operations will be delayed until after receipt of the approved APD.

Please signify your concurrence and agreement with this request by signing in the space provided below and return a signed copy to the undersigned. Upon receipt of your written approval, EP Energy will provide notice of the same to UDOGM before commencing operations. If you have any further questions, please do not hesitate to contact me.

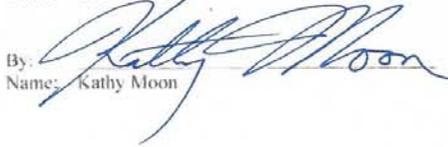
Very truly yours,


 Jacquelyn Lynch

EP Energy E&P Company, L.P.
 Landman
 Phone: (713) 997-5747
 E-mail: jacquelyn.lynch@epenergy.com

AGREED AND ACCEPTED THIS 28 DAY OF July, 2014.

By: 
 Name: Lee H. Moon

By: 
 Name: Kathy Moon

EP Energy E&P Company, L.P.
 1001 Louisiana Street, Suite 2400, Houston, Texas 77002
 Main: 713.997.1000

AFFIDAVIT OF DAMAGE SETTLEMENT AND RELEASE

Jacquelyn L. Lynch personally appeared before me, and, being duly sworn, deposes and says:

1. My name is Jacquelyn L. Lynch. I am a Landman for EP Energy E&P Company, L.P., whose address is 1001 Louisiana St., Houston, Texas 77002 ("EP Energy").
2. EP Energy is the operator of the proposed Moon 3-30C4 well (the "Well") to be located in the NE/4SE/4 of Section 30, Township 3 South, Range 4 West, USM, Duchesne County, Utah (the "Drillsite Location"). The surface owner of the Drillsite Location is Lee H. Moon & Kathy Moon, husband and wife, whose address is HC 64 Box 115, Duchesne, UT 84021 (the "Surface Owner"). The Surface Owner's telephone number is (435) 738-5363.
3. EP Energy and the Surface Owner have entered into a Damage Settlement and Release Agreement dated July 14th, 2014 to cover any and all injuries or damages of every character and description sustained by the Surface Owner or Surface Owner's property as a result of operations associated with the drilling of the Well.

FURTHER AFFIANT SAYETH NOT.

Jacquelyn L. Lynch

 Jacquelyn L. Lynch

ACKNOWLEDGMENT

STATE OF TEXAS §
 §
 COUNTY OF HARRIS §

Sworn to and subscribed before me on this 28th day of July, 2014, by Jacquelyn L. Lynch, as Landman for EP Energy E&P Company, L.P., a Delaware limited partnership.

Ginger M. Cearley

 NOTARY PUBLIC

My Commission Expires:



Well Name	EP ENERGY E&P COMPANY, L.P. Moon 3-30C4 43013529900000			
String	SURF	I1	L1	
Casing Size(")	9.625	7.000	5.000	
Setting Depth (TVD)	2000	8300	11200	
Previous Shoe Setting Depth (TVD)	40	2000	8300	
Max Mud Weight (ppg)	8.3	10.2	12.3	
BOPE Proposed (psi)	500	10000	10000	
Casing Internal Yield (psi)	5750	11220	13940	
Operators Max Anticipated Pressure (psi)	7164		12.3	

Calculations	SURF String	9.625	"	
Max BHP (psi)	.052*Setting Depth*MW=	863		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	623	NO	diverter stack
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	423	YES	OK
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	432	NO	OK
Required Casing/BOPE Test Pressure=		2000	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		40	psi *Assumes 1psi/ft frac gradient	

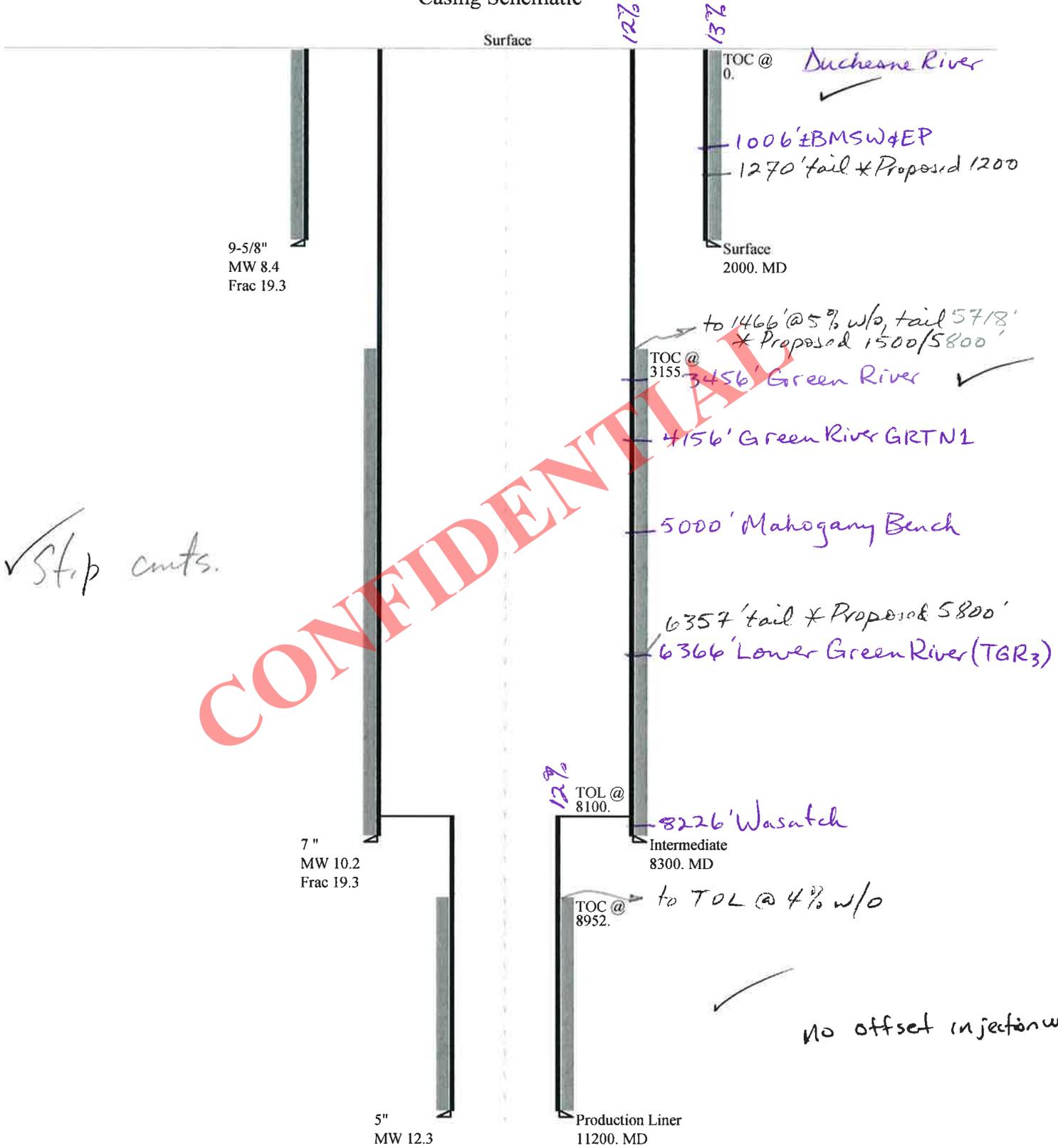
Calculations	I1 String	7.000	"	
Max BHP (psi)	.052*Setting Depth*MW=	4402		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	3406	YES	10M BOPE w/rotating head, 5M annular, spacer spool,
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	2576	YES	dbl rams, single w/flex rams
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	3016	NO	OK
Required Casing/BOPE Test Pressure=		7854	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		2000	psi *Assumes 1psi/ft frac gradient	

Calculations	L1 String	5.000	"	
Max BHP (psi)	.052*Setting Depth*MW=	7164		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	5820	YES	10M BOPE w/rotating head, 5M annular, spacer spool,
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	4700	YES	dbl rams, single w/flex rams
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	6526	YES	OK
Required Casing/BOPE Test Pressure=		9758	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		8300	psi *Assumes 1psi/ft frac gradient	

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

43013529900000 Moon 3-30C4

Casing Schematic



Well name:	43013529900000 Moon 3-30C4	
Operator:	EP ENERGY E&P COMPANY, LP.	
String type:	Surface	Project ID: 43-013-52990
Location:	DUCHESNE COUNTY	

Design parameters:

Collapse

Mud weight: 8.400 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: 102 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Burst:

Design factor 1.00

Cement top: Surface

Burst

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

No backup mud specified.

Tension:

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

Tension is based on buoyed weight.
Neutral point: 1,750 ft

Non-directional string.

Re subsequent strings:

Next setting depth: 8,271 ft
Next mud weight: 10.200 ppg
Next setting BHP: 4,383 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	25446
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	873	3090	3.541	2000	5750	2.88	70	737	10.53 J

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

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

Date: August 19, 2014
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 2000 ft, a mud weight of 8.4 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:	43013529900000 Moon 3-30C4		
Operator:	EP ENERGY E&P COMPANY, LP.		
String type:	Intermediate	Project ID:	43-013-52990
Location:	DUCHESNE COUNTY		

Design parameters:

Collapse

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

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
 Surface temperature: 74 °F
 Bottom hole temperature: 190 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 1,000 ft

Cement top: 3,155 ft

Burst

Max anticipated surface pressure: 4,692 psi
 Internal gradient: 0.220 psi/ft
 Calculated BHP 6,518 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: 7,018 ft

Non-directional string.

Re subsequent strings:

Next setting depth: 11,200 ft
 Next mud weight: 12.300 ppg
 Next setting BHP: 7,156 psi
 Fracture mud wt: 19.250 ppg
 Fracture depth: 8,271 ft
 Injection pressure: 8,271 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	8300	7	29.00	HCP-110	LT&C	8300	8300	6.059	93726
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	4398	9200	2.092	6518	11220	1.72	203.5	797	3.92 J

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

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

Date: August 19, 2014
 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 8300 ft, a mud weight of 10.2 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

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

Well name:	43013529900000 Moon 3-30C4		
Operator:	EP ENERGY E&P COMPANY, LP.		
String type:	Production Liner	Project ID:	43-013-52990
Location:	DUCHESNE COUNTY		

Design parameters:

Collapse

Mud weight: 12.300 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: 231 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 1,000 ft

Cement top: 8,952 ft

Burst

Max anticipated surface pressure: 4,692 psi
 Internal gradient: 0.220 psi/ft
 Calculated BHP 7,156 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: 10,619 ft

Liner top: 8,100 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	3100	5	18.00	HCP-110	ST-L	11200	11200	4.151	245512
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	7156	15360	2.146	7156	13940	1.95	45.4	341	7.52 J

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

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

Date: August 19, 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 11200 ft, a mud weight of 12.3 ppg. The Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

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

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator EP ENERGY E&P COMPANY, L.P.
Well Name Moon 3-30C4
API Number 43013529900000 **APD No** 9807 **Field/Unit** ALTAMONT
Location: 1/4,1/4 NESE **Sec** 30 **Tw** 3.0S **Rng** 4.0W 2377 FSL 700 FEL
GPS Coord (UTM) 553411 4449112 **Surface Owner** Lee H. & Kathy Moon

Participants

Lee Moon (Surface Owner); Kelsey Carter, Heather Ivie, Mike (EP Land People); Wayne Garner (EP Energy Construction); Dennis Ingram (DOGM)

Regional/Local Setting & Topography

The Moon 3-30C4 is proposed in northeastern Utah, with access into this site leaving US Highway 40 at the junction of S.R. 87 north for 1.18 miles, then east past the state road shed and county justice building for another 0.87 miles, then north across private lands on an existing or old location road for another 1.03 miles where a new access road is planned that will run 0.19 miles north. The Duchesne Municipal Airport is located just over a quarter mile northwest of this proposed well pad; further to the north a three-fingered dry, wash runs southeast and drains storm water or snow melt from Blue Bench in a southeasterly direction into the Duchesne River Corridor. Several hundred feet east of this proposed well pad, this bench like property drops off into a series of dry washes that also drain south toward the Duchesne River bottoms. Approximately 1.5 miles southwest of this project is the town of Duchesne.

Surface Use Plan

Current Surface Use

Grazing

New Road Miles

0.19

Well Pad

Width 357 Length 425

Src Const Material

Onsite

Surface Formation

UNTA

Ancillary Facilities

Also improve 1.03 miles of existing roads

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

Sagebrush, rabbit brush, prickly pear cactus, bunch grass;

Potential mule deer, antelope, coyote, mountain lion, fox, rabbit, and smaller mammals native to bench properties near the river, also hawk, eagle or owl potential, also song birds native to Basin

Soil Type and Characteristics

Reddish-brown sandy loam with some clays and underlying cobble rock potential

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

tanks and location

Erosion Sedimentation Control Required? N**Paleo Survey Run?** 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	Not Present	0
Final Score		25 1 Sensitivity Level

Characteristics / Requirements

Reserve pit proposed in cut, along the west/southwest side of location and 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**

A landowner agreement is being finalized between the surface owner and operator, the private property now has a locked gate at the access, the first leg of this access road is along an old road into the old Moon Tribal 1-30C4 which is a P&A'd well. Surface slopes gently toward the east, southeast. The Duchesne Airport is located approximately 3/8 miles to the northwest of this pad, EP Energy will place call out information to the airport for this site and proposed drilling rig. No drainages or diversion points.

Dennis Ingram
Evaluator

7/8/2014
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
9807	43013529900000	LOCKED	OW	P	No
Operator	EP ENERGY E&P COMPANY, L.P.		Surface Owner-APD	Lee H. & Kathy Moon	
Well Name	Moon 3-30C4		Unit		
Field	ALTAMONT		Type of Work	DRILL	
Location	NESE 30 3S 4W U 2377 FSL 700 FEL GPS Coord (UTM) 553413E 4449094N				

Geologic Statement of Basis

El Paso proposes to set 600 feet of conductor and 1,300 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 1,000 feet. A search of Division of Water Rights records indicates that there are 23 water wells within a 10,000 foot radius of the center of Section 30. These wells probably produce water from the Duchesne River Formation and associated alluvium. Depths of the wells fall in the range of 29-500 feet. Depth is not listed for one well. The wells are listed as being used for irrigation, stock watering, municipal and domestic. The proposed drilling, casing and cement program should adequately protect the highly used Duchesne River aquifer.

Brad Hill
APD Evaluator

7/17/2014
Date / Time

Surface Statement of Basis

The surface at this well pad is range lands utilized for grazing and slopes east, southeast not having any drainage or diversion issues. The Duchesne Municipal Airport is located less than half a mile to the northwest, and the operator shall take any steps needed to notify the city of any safety issues and/or location for pilot information. A reserve pit is planned off the west, southwest side of this location and shall be lined with a 20 mil synthetic liner to help prevent seepage of the drilling fluids into underlying cobble rocks and sandy soils. If the topsoil is stripped from this pad it should be stored and protected in a place (possibly along the northwest side of pad) for reclamation of the well pad.

A presite visit was scheduled and done on July 8, 2014 to take input and address issues regarding the construction and drilling of the Moon 3-30C4 well. The landowner of record was invited and did attend the presite meeting. EP Energy and the surface owner are presently finalizing a surface use agreement and should be submitting a signed Affidavit to the Division in the coming days.

Dennis Ingram
Onsite Evaluator

7/8/2014
Date / Time

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 20 mils shall be properly installed and maintained in the reserve pit.
Pits	The reserve pit should be located on the west side of the location.
Surface	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: 6/4/2014

API NO. ASSIGNED: 43013529900000

WELL NAME: Moon 3-30C4

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

PHONE NUMBER: 713 997-5038

CONTACT: Maria S. Gomez

PROPOSED LOCATION: NESE 30 030S 040W

Permit Tech Review:

SURFACE: 2377 FSL 0700 FEL

Engineering Review:

BOTTOM: 2377 FSL 0700 FEL

Geology Review:

COUNTY: DUCHESNE

LATITUDE: 40.19054

LONGITUDE: -110.37251

UTM SURF EASTINGS: 553413.00

NORTHINGS: 4449094.00

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

Comments: Presite Completed

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



GARY R. HERBERT
Governor

SPENCER J. COX
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: Moon 3-30C4
API Well Number: 43013529900000
Lease Number: Fee
Surface Owner: FEE (PRIVATE)
Approval Date: 8/20/2014

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 volume for the 7" intermediate string shall be determined from actual hole diameter in order to place lead cement from the pipe setting depth back to 1500' MD and tail to 500' minimum above the Lower Green River as indicated in the submitted drilling plan.

Surface casing shall be cemented to the surface.

Additional Approvals:

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

- Any changes to the approved drilling plan - contact Dustin Doucet

- Significant plug back of the well - contact Dustin Doucet
- Plug and abandonment of the well - contact Dustin Doucet

Notification Requirements:

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

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

Contact Information:

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

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

Reporting Requirements:

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

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

Approved By:

Approved by:

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

For John Rogers
Associate Director, Oil & Gas



Alexis Huefner <alexishuefner@utah.gov>

Notification 24 Hrs. after Initial Spudding of Well: Moon 3-30C4

1 message

RLANDRIG008 <RLANDRIG008@epenergy.com> Sat, Sep 6, 2014 at 8:34 AM
To: Alexis Huefner <alexishuefner@utah.gov>, "MacAfee, Bradley D" <Brad.MacAfee@epenergy.com>, Carol Daniels <caroldaniels@utah.org>, "dennisingram@utah.gov" <dennisingram@utah.gov>, "DERDEN, ROY LYNN (Contractor)" <Roy.Derden@epenergy.com>, "Morales, Lisa" <Lisa.Morales@epenergy.com>, "Mangum, Danny R (Contractor)" <danny.mangum@epenergy.com>, "Gomez, Maria S" <Maria.Gomez@epenergy.com>, "Ward, Julia A (Julie)" <Julie.Ward@epenergy.com>

September 06, 2014

Subject: 24 Hrs. after Initial Spud Notice.

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Well Name: Moon 3-30C4

API Well Number: 43-013-52990-00-00

Field: Altamont

2377 FSL 700 FEL
NESE 30 3S 4W

County: Duchesne

Mineral Owner: Fee

Sept. 05, 2014

3:00 PM

Leon Ross Drilling

Rig #35 Bucket Rig

Spudded in on the above well for EP Energy LLC.

Best Regards

Steven Murphy

Rig Site Supervisor

EP Energy LLC

C: 435-823-1725

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

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Carol Daniels <caroldaniels@utah.gov>

NESE 5-30 TO 3 R04W LEASE FEE

Update Moon 3-30C4

1 message

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

Tue, Sep 30, 2014 at 5:14 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>, "Morales, Lisa" <Lisa.Morales@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

MOON 3-30C4

API # 43013529900000

ALTAMONT FIELD

DUCHESNE COUNTY

We moved in with Precision Drilling Rig 406 on 9/27/14. Nipped Up 11" 10M BOPE. Finished Testing BOPE & 9-5/8" Surface Casing 9/30/14 @ 03:00hrs. Commenced drilling 8 3/4" Intermediate section @ 11:07hrs 9/30/14.

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
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: Moon 3-30C4
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2377 FSL 0700 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESE Section: 30 Township: 03.0S Range: 04.0W Meridian: U	9. API NUMBER: 43013529900000
3. ADDRESS OF OPERATOR: 1001 Louisiana, Houston, TX, 77002	PHONE NUMBER: 713 997-5038 Ext
9. FIELD and POOL or WILDCAT: ALTAMONT	COUNTY: DUCHESNE
STATE: UTAH	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: 10/24/2014	<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.

EP plans to do the initial completion into the Wastach. Please see attached for details.

Approved by the
 October 21, 2014
 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 10/21/2014	

Moon 3-30C4

Initial Completion

API # : 4301352990

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 ~10385' – 10713' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of TLC 30/50. Total clean water volume is 152859 gals. |
| Stage #2 | RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~10072' – 10354' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of TLC 30/50. Total clean water volume is 152626 gals. |
| Stage #3 | RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~9797' – 10042' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of TLC 30/50. Total clean water volume is 152421 gals. |
| Stage #4 | RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~9487' – 9763' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of TLC 30/50. Total clean water volume is 152189 gals. |
| Stage #5 | RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~9191' – 9458' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of TLC 30/50. Total clean water volume is 151969 gals. |

Stage #6 RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~8907' – 9156' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of TLC 30/50. Total clean water volume is 151757 gals.

Stage #7 RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~8645' – 8880' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of TLC 30/50. Total clean water volume is 151561 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	10,385	10,713	328	NA	23	69	17	TLC 30/50	150,000	457	3,000	5,000	152,859	4,159
Stage #2	10,072	10,354	282	10,369	23	69	17	TLC 30/50	150,000	532	3,000	5,000	152,626	4,154
Stage #3	9,797	10,042	245	10,057	23	69	17	TLC 30/50	150,000	612	3,000	5,000	152,421	4,149
Stage #4	9,487	9,763	276	9,778	23	69	17	TLC 30/50	150,000	543	3,000	5,000	152,189	4,143
Stage #5	9,191	9,458	267	9,473	22	66	17	TLC 30/50	150,000	562	3,000	5,000	151,969	4,138
Stage #6	8,907	9,156	249	9,171	22	66	17	TLC 30/50	150,000	602	3,000	5,000	151,757	4,133
Stage #7	8,645	8,880	235	8,895	23	69	17	TLC 30/50	150,000	638	3,000	5,000	151,561	4,128
Stage #8	8,407	8,613	206	8,628	23	69	17	TLC 30/50	150,000	728	3,000	5,000	151,384	4,124
Average per Stage			261		23	68	17		150,000	584	3,000	5,000	152,096	4,141
Totals per Well			2,088		182	546	136		1,200,000		24,000	40,000	1,216,766	33,128

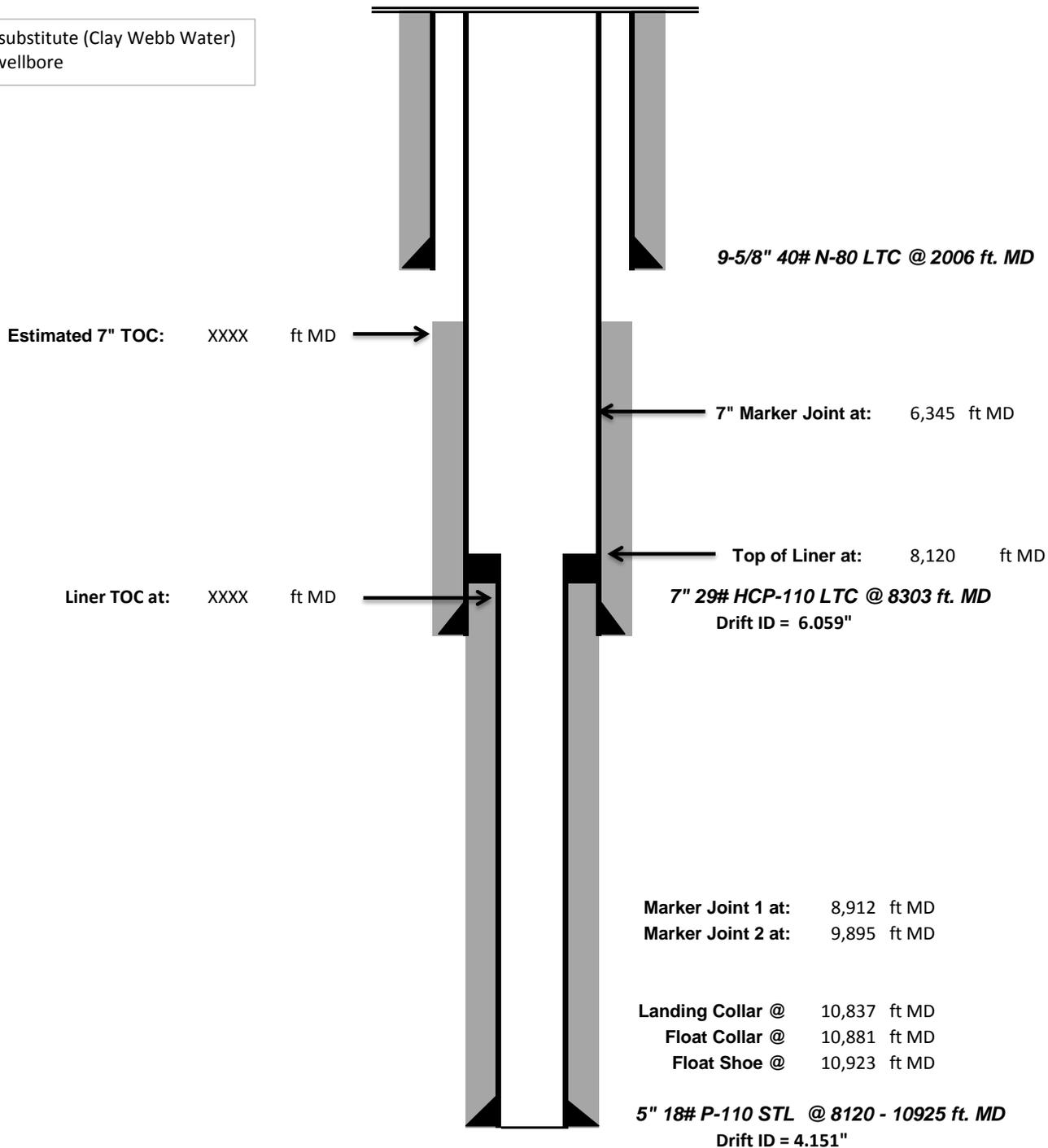


Pre-Completion Wellbore Schematic

Well Name: **Moon 3-30C4**
 Company Name: **EP Energy**
 Field, County, State: **Altamont, Duchesne, Utah**
 Surface Location: **Lat: 40°11'26.44887" N Long: 110°22'21.06717" W**
 Producing Zone(s): **Wasatch**

Last Updated: **10/20/2014**
 By: **Jarrod Kent**
 TD: **10,923**
 API: **4301352990**
 AFE: **161309**

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



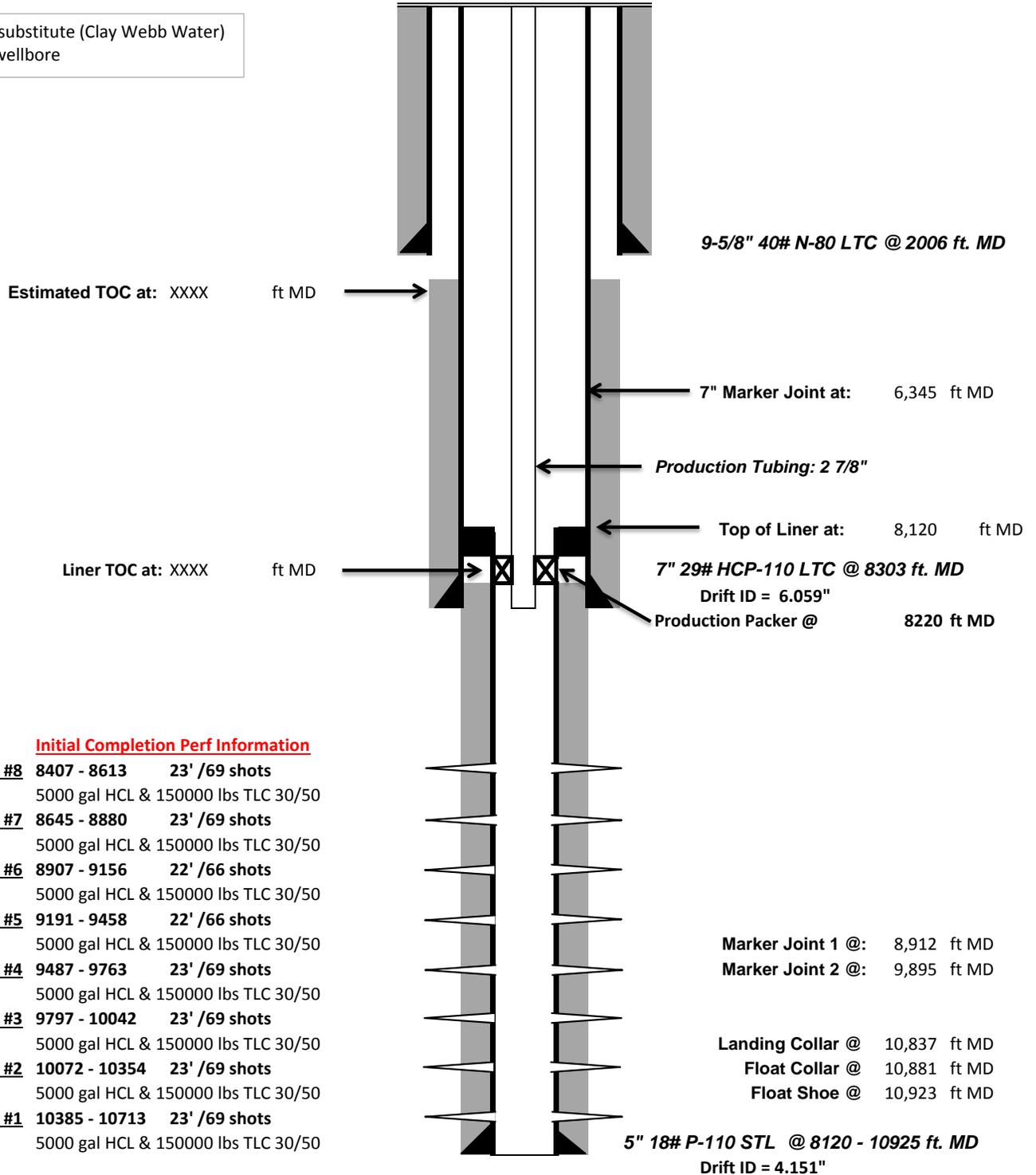


Post-Completion Wellbore Schematic

Well Name: **Moon 3-30C4**
 Company Name: **EP Energy**
 Field, County, State: **Altamont, Duchesne, Utah**
 Surface Location: **Lat: 40°11'26.44887" N Long: 110°22'21.06717" W**
 Producing Zone(s): **Wasatch**

Last Updated: **10/20/2014**
 By: **Jarrod Kent**
 TD: **10,923**
 API: **4301352990**
 AFE: **161309**

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



Initial Completion Perf Information

Stage #	Depth Range (ft)	Shots	Fluid
Stage #8	8407 - 8613	23' /69 shots	5000 gal HCL & 150000 lbs TLC 30/50
Stage #7	8645 - 8880	23' /69 shots	5000 gal HCL & 150000 lbs TLC 30/50
Stage #6	8907 - 9156	22' /66 shots	5000 gal HCL & 150000 lbs TLC 30/50
Stage #5	9191 - 9458	22' /66 shots	5000 gal HCL & 150000 lbs TLC 30/50
Stage #4	9487 - 9763	23' /69 shots	5000 gal HCL & 150000 lbs TLC 30/50
Stage #3	9797 - 10042	23' /69 shots	5000 gal HCL & 150000 lbs TLC 30/50
Stage #2	10072 - 10354	23' /69 shots	5000 gal HCL & 150000 lbs TLC 30/50
Stage #1	10385 - 10713	23' /69 shots	5000 gal HCL & 150000 lbs TLC 30/50

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Carol Daniels <caroldaniels@utah.gov>

NESE S-30 T 03S R04W LEASE-FEE

24Hr Notice Run & Cement 5" Production Liner

1 message

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

Fri, Oct 10, 2014 at 1:47 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>, "Morales, Lisa" <Lisa.Morales@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

MOON 3-30 C4

API # 4301352990000

ALTAMONT FIELD

DUCHESNE COUNTY

We plan on running and cementing 5" 18# P-110HC STL Production Liner to +/- 10,925' within 24hrs

Thanks,

Lloyd Rowell / Morgan Harden

EP Energy / PD 406

713-997-1220 (Rig)

903-229-2878 (Cell)

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

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Carol Daniels <caroldaniels@utah.gov>

NE SE S-30 T03S R04W

24Hr Notice Run & Cement 7" Casing

1 message

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

Sun, Oct 5, 2014 at 4:40 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>, "Morales, Lisa" <Lisa.Morales@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

MOON 3-30 C4

API # 4301352990000

ALTAMONT FIELD

DUCHESNE COUNTY

We plan on running and cementing 7" 29# P-110HC LTC Casing to +/- 8,310' 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 _____		9. API NUMBER:
PHONE NUMBER: _____		10 FIELD AND POOL, OR WILDCAT
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: AT TOP PRODUCING INTERVAL REPORTED BELOW: AT TOTAL DEPTH:		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 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 November 29, 2014****Well Name: Moon 3-30C4****Items #27 and #28 Continued****27. Perforation Record**

Interval (Top/Bottom – MD)	Size	No. of Holes	Perf. Status
9191'-9455'	.43	69	Open
8906'-9156'	.43	69	Open
8645'-8882'	.43	69	Open
8407'-8612'	.43	69	Open

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

Depth Interval	Amount and Type of Material
9488'-9763'	5000 gal 15% HCL acid, 3000# 100 mesh, 151515# 30/50 Tempered LC
9191'-9455'	5000 gal 15% HCL acid, 3000# 100 mesh, 150125# 30/50 Tempered LC
8906'-9156'	5000 gal 15% HCL acid, 3000# 100 mesh, 150125# 30/50 Tempered LC
8645'-8882'	5000 gal 15% HCL acid, 3000# 100 mesh, 150125# 30/50 Tempered LC
8407'-8612'	5000 gal 15% HCL acid, 3000# 100 mesh, 150125# 30/50 Tempered LC



Company: EP Energy
Well: Moon 3-30C4
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	0.38	200.27	100.00	100.00	-0.31	0.31	S	0.12	W	0.34	200.27	0.38	0.38	200.27
2	200.00	1.00	218.27	100.00	199.99	-1.31	1.31	S	0.77	W	1.52	210.45	0.64	0.61	18.01
3	300.00	1.18	217.39	100.00	299.97	-2.81	2.81	S	1.93	W	3.41	214.53	0.18	0.18	-0.88
4	400.00	1.16	216.10	100.00	399.95	-4.44	4.44	S	3.15	W	5.44	215.36	0.03	-0.02	-1.29
5	500.00	1.05	212.90	100.00	499.93	-6.02	6.02	S	4.24	W	7.37	215.15	0.12	-0.11	-3.20
6	600.00	1.14	219.68	100.00	599.92	-7.55	7.55	S	5.37	W	9.27	215.41	0.16	0.09	6.78
7	700.00	1.14	222.17	100.00	699.90	-9.05	9.05	S	6.67	W	11.24	216.38	0.05	0.00	2.49
8	800.00	1.27	234.26	100.00	799.87	-10.43	10.43	S	8.23	W	13.28	218.28	0.28	0.13	12.08
9	900.00	1.15	248.08	100.00	899.85	-11.45	11.45	S	10.06	W	15.24	221.30	0.31	-0.11	13.82
10	1000.00	1.05	248.03	100.00	999.83	-12.17	12.17	S	11.84	W	16.98	224.22	0.11	-0.11	-0.05
11	1100.00	0.74	269.92	100.00	1099.82	-12.51	12.51	S	13.34	W	18.29	226.83	0.45	-0.31	21.89
12	1200.00	0.64	225.43	100.00	1199.82	-12.90	12.90	S	14.38	W	19.32	228.10	0.53	-0.11	-44.49
13	1300.00	1.38	211.01	100.00	1299.80	-14.32	14.32	S	15.39	W	21.03	227.06	0.79	0.75	-14.42
14	1400.00	1.76	233.92	100.00	1399.76	-16.26	16.26	S	17.26	W	23.72	226.70	0.73	0.38	22.91
15	1500.00	0.92	240.99	100.00	1499.73	-17.56	17.56	S	19.20	W	26.02	227.56	0.86	-0.85	7.07
16	1600.00	1.34	194.47	100.00	1599.72	-19.07	19.07	S	20.19	W	27.77	226.63	0.97	0.42	-46.52
17	1700.00	1.62	218.55	100.00	1699.68	-21.31	21.31	S	21.36	W	30.17	225.07	0.68	0.29	24.08
18	1800.00	1.13	228.71	100.00	1799.66	-23.06	23.06	S	22.98	W	32.55	224.90	0.55	-0.50	10.16
19	1900.00	1.49	203.33	100.00	1899.63	-24.90	24.90	S	24.23	W	34.74	224.22	0.68	0.36	-25.39
20	1921.00	1.50	210.12	21.00	1920.62	-25.39	25.39	S	24.48	W	35.27	223.95	0.84	0.05	32.34
21	2053.00	1.91	221.27	132.00	2052.56	-28.53	28.53	S	26.80	W	39.14	223.20	0.40	0.31	8.45
22	2149.00	0.75	269.37	96.00	2148.54	-29.74	29.74	S	28.48	W	41.18	223.75	1.58	-1.21	50.10
23	2246.00	2.15	332.59	97.00	2245.51	-28.14	28.14	S	29.95	W	41.09	226.79	1.99	1.44	65.18
24	2341.00	4.00	339.26	95.00	2340.37	-23.45	23.45	S	31.95	W	39.63	233.71	1.98	1.95	7.02
25	2437.00	4.49	344.95	96.00	2436.11	-16.69	16.69	S	34.11	W	37.97	243.92	0.67	0.51	5.93
26	2534.00	5.19	349.78	97.00	2532.76	-8.71	8.71	S	35.87	W	36.91	256.35	0.83	0.72	4.98
27	2630.00	5.75	356.86	96.00	2628.32	0.37	0.37	N	36.90	W	36.91	270.57	0.91	0.58	7.38
28	2726.00	5.71	5.80	96.00	2723.85	9.92	9.92	N	36.69	W	38.00	285.13	0.93	-0.04	-365.69
29	2822.00	6.10	15.38	96.00	2819.34	19.59	19.59	N	34.85	W	39.98	299.34	1.10	0.41	9.98
30	2917.00	5.33	13.31	95.00	2913.87	28.75	28.75	N	32.50	W	43.39	311.50	0.84	-0.81	-2.18
31	3013.00	4.42	22.07	96.00	3009.52	36.52	36.52	N	30.08	W	47.31	320.52	1.22	-0.95	9.13
32	3109.00	4.82	14.33	96.00	3105.21	43.85	43.85	N	27.69	W	51.86	327.73	0.77	0.42	-8.06
33	3205.00	4.62	3.11	96.00	3200.88	51.62	51.62	N	26.48	W	58.02	332.84	0.98	-0.21	-11.69
34	3300.00	3.89	354.54	95.00	3295.62	58.65	58.65	N	26.58	W	64.39	335.62	1.02	-0.77	369.93
35	3396.00	4.60	0.62	96.00	3391.36	65.74	65.74	N	26.85	W	71.01	337.78	0.87	0.74	-368.67



Company: EP Energy
Well: Moon 3-30C4
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	3491.00	5.58	359.57	95.00	3485.98	74.17	74.17	N	26.84	W	78.88	340.10	1.04	1.03	377.84
37	3588.00	6.10	5.76	97.00	3582.48	84.01	84.01	N	26.36	W	88.05	342.58	0.84	0.54	-364.75
38	3683.00	6.18	9.33	95.00	3676.94	94.08	94.08	N	25.03	W	97.35	345.10	0.41	0.08	3.76
39	3779.00	4.64	5.69	96.00	3772.51	103.04	103.04	N	23.80	W	105.76	346.99	1.64	-1.60	-3.79
40	3875.00	5.14	9.25	96.00	3868.16	111.15	111.15	N	22.73	W	113.45	348.44	0.61	0.52	3.71
41	3971.00	4.88	355.97	96.00	3963.79	119.47	119.47	N	22.32	W	121.54	349.42	1.24	-0.27	361.17
42	4066.00	5.03	354.72	95.00	4058.44	127.65	127.65	N	22.99	W	129.70	349.79	0.19	0.16	-1.32
43	4162.00	4.33	359.60	96.00	4154.12	135.46	135.46	N	23.40	W	137.47	350.20	0.84	-0.73	5.08
44	4259.00	4.90	355.40	97.00	4250.80	143.25	143.25	N	23.76	W	145.21	350.58	0.68	0.59	-4.33
45	4355.00	4.36	11.79	96.00	4346.49	150.91	150.91	N	23.34	W	152.71	351.21	1.48	-0.56	-357.93
46	4451.00	5.61	5.87	96.00	4442.13	159.15	159.15	N	22.12	W	160.68	352.09	1.41	1.30	-6.17
47	4548.00	4.01	6.99	97.00	4538.78	167.24	167.24	N	21.22	W	168.58	352.77	1.65	-1.65	1.15
48	4644.00	3.15	4.13	96.00	4634.60	173.20	173.20	N	20.62	W	174.42	353.21	0.91	-0.90	-2.98
49	4741.00	2.55	343.99	97.00	4731.48	177.93	177.93	N	21.03	W	179.17	353.26	1.19	-0.62	350.37
50	4837.00	2.36	9.77	96.00	4827.39	181.93	181.93	N	21.28	W	183.17	353.33	1.16	-0.20	-348.15
51	4934.00	1.81	353.22	97.00	4924.33	185.42	185.42	N	21.12	W	186.62	353.50	0.84	-0.57	354.07
52	5029.00	1.25	324.55	95.00	5019.30	187.75	187.75	N	21.90	W	189.03	353.35	0.98	-0.59	-30.18
53	5125.00	1.11	292.68	96.00	5115.28	188.97	188.97	N	23.36	W	190.41	352.95	0.69	-0.15	-33.20
54	5221.00	1.19	260.78	96.00	5211.26	189.17	189.17	N	25.21	W	190.84	352.41	0.66	0.08	-33.23
55	5317.00	1.42	240.53	96.00	5307.23	188.42	188.42	N	27.23	W	190.38	351.78	0.53	0.24	-21.09
56	5413.00	1.63	228.55	96.00	5403.20	186.93	186.93	N	29.28	W	189.21	351.10	0.40	0.22	-12.48
57	5510.00	1.18	289.67	97.00	5500.18	186.35	186.35	N	31.26	W	188.96	350.48	1.53	-0.46	63.01
58	5605.00	1.10	270.11	95.00	5595.16	186.69	186.69	N	33.09	W	189.60	349.95	0.42	-0.08	-20.59
59	5701.00	1.38	257.81	96.00	5691.14	186.44	186.44	N	35.14	W	189.73	349.33	0.40	0.29	-12.81
60	5798.00	1.53	244.19	97.00	5788.10	185.63	185.63	N	37.45	W	189.37	348.59	0.39	0.15	-14.04
61	5894.00	1.82	236.53	96.00	5884.06	184.23	184.23	N	39.88	W	188.50	347.79	0.38	0.30	-7.98
62	5990.00	0.49	181.20	96.00	5980.04	182.98	182.98	N	41.16	W	187.55	347.32	1.66	-1.39	-57.64
63	6086.00	1.17	176.85	96.00	6076.03	181.59	181.59	N	41.11	W	186.19	347.24	0.71	0.71	-4.53
64	6182.00	1.61	189.71	96.00	6172.00	179.29	179.29	N	41.29	W	183.98	347.03	0.56	0.46	13.40
65	6279.00	1.91	193.02	97.00	6268.96	176.37	176.37	N	41.88	W	181.27	346.64	0.33	0.31	3.41
66	6374.00	1.40	197.33	95.00	6363.92	173.72	173.72	N	42.58	W	178.86	346.23	0.55	-0.54	4.54
67	6471.00	0.74	221.67	97.00	6460.90	172.12	172.12	N	43.35	W	177.49	345.86	0.81	-0.68	25.09
68	6567.00	0.93	216.09	96.00	6556.89	171.03	171.03	N	44.22	W	176.65	345.50	0.22	0.20	-5.81
69	6664.00	1.60	206.26	97.00	6653.87	169.17	169.17	N	45.29	W	175.13	345.01	0.72	0.69	-10.13
70	6760.00	2.31	199.90	96.00	6749.81	166.15	166.15	N	46.54	W	172.55	344.35	0.77	0.74	-6.62
71	6855.00	1.95	204.36	95.00	6844.75	162.88	162.88	N	47.85	W	169.77	343.63	0.42	-0.38	4.69
72	6952.00	2.19	195.89	97.00	6941.68	159.59	159.59	N	49.04	W	166.96	342.92	0.40	0.25	-8.73



Company: EP Energy **Job Number:** _____
Well: Moon 3-30C4 **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				
73	7048.00	2.66	195.34	96.00	7037.60	155.68	155.68	N	50.13	W	163.56	342.15	0.49	0.49	-0.57
74	7144.00	3.30	189.12	96.00	7133.47	150.81	150.81	N	51.16	W	159.25	341.26	0.75	0.67	-6.48
75	7240.00	2.71	189.20	96.00	7229.33	145.84	145.84	N	51.96	W	154.82	340.39	0.61	-0.61	0.08
76	7335.00	2.92	193.22	95.00	7324.22	141.26	141.26	N	52.88	W	150.84	339.48	0.30	0.22	4.23
77	7431.00	2.98	206.17	96.00	7420.09	136.64	136.64	N	54.53	W	147.13	338.24	0.70	0.06	13.49
78	7528.00	3.38	216.05	97.00	7516.94	132.07	132.07	N	57.33	W	143.98	336.54	0.70	0.41	10.19
79	7624.00	2.90	233.04	96.00	7612.80	128.32	128.32	N	60.94	W	142.06	334.60	1.09	-0.50	17.70
80	7720.00	1.37	213.41	96.00	7708.73	125.90	125.90	N	63.51	W	141.01	333.23	1.74	-1.59	-20.45
81	7816.00	0.59	201.49	96.00	7804.72	124.49	124.49	N	64.32	W	140.12	332.67	0.84	-0.81	-12.42
82	7911.00	1.38	135.93	95.00	7899.71	123.21	123.21	N	63.70	W	138.70	332.66	1.32	0.83	-69.01
83	8007.00	2.73	145.76	96.00	7995.64	120.49	120.49	N	61.61	W	135.33	332.92	1.45	1.41	10.24
84	8102.00	0.70	152.56	95.00	8090.59	118.10	118.10	N	60.07	W	132.50	333.04	2.14	-2.14	7.16
85	8199.00	1.13	208.72	97.00	8187.58	116.74	116.74	N	60.26	W	131.37	332.70	0.97	0.44	57.90
86	8245.00	1.55	210.33	46.00	8233.57	115.80	115.80	N	60.79	W	130.79	332.30	0.92	0.91	3.50
87	8300.00	2.09	212.97	55.00	8288.54	114.32	114.32	N	61.71	W	129.91	331.64	0.99	0.98	4.79
88	8400.00	2.78	199.82	100.00	8388.45	110.51	110.51	N	63.53	W	127.47	330.11	0.88	0.69	-13.15
89	8500.00	3.38	199.24	100.00	8488.31	105.45	105.45	N	65.32	W	124.04	328.23	0.60	0.60	-0.58
90	8600.00	3.58	195.24	100.00	8588.12	99.66	99.66	N	67.11	W	120.15	326.04	0.31	0.20	-3.99
91	8700.00	3.68	193.42	100.00	8687.92	93.53	93.53	N	68.67	W	116.03	323.71	0.15	0.10	-1.82
92	8800.00	3.98	195.28	100.00	8787.70	87.07	87.07	N	70.33	W	111.92	321.07	0.32	0.30	1.86
93	8900.00	3.84	192.61	100.00	8887.47	80.46	80.46	N	71.98	W	107.95	318.18	0.23	-0.14	-2.67
94	9000.00	3.80	188.32	100.00	8987.25	73.91	73.91	N	73.19	W	104.01	315.28	0.29	-0.04	-4.30
95	9100.00	4.17	193.95	100.00	9087.01	67.10	67.10	N	74.54	W	100.30	311.99	0.54	0.38	5.64
96	9200.00	4.18	191.76	100.00	9186.74	60.00	60.00	N	76.16	W	96.96	308.23	0.16	0.01	-2.20
97	9300.00	4.22	194.44	100.00	9286.47	52.86	52.86	N	77.83	W	94.08	304.19	0.20	0.04	2.69
98	9400.00	4.26	195.06	100.00	9386.20	45.71	45.71	N	79.71	W	91.88	299.83	0.06	0.04	0.62
99	9500.00	4.24	194.96	100.00	9485.92	38.55	38.55	N	81.63	W	90.27	295.28	0.02	-0.02	-0.11
100	9600.00	4.26	194.60	100.00	9585.65	31.38	31.38	N	83.52	W	89.22	290.59	0.03	0.02	-0.36
101	9700.00	4.50	193.10	100.00	9685.35	23.96	23.96	N	85.35	W	88.65	285.68	0.26	0.23	-1.50
102	9800.00	4.66	192.87	100.00	9785.03	16.18	16.18	N	87.14	W	88.63	280.52	0.17	0.17	-0.23
103	9900.00	4.83	190.66	100.00	9884.69	8.08	8.08	N	88.82	W	89.19	275.20	0.24	0.16	-2.21
104	10000.00	4.62	189.47	100.00	9984.35	-0.03	0.03	S	90.26	W	90.26	269.98	0.23	-0.20	-1.19
105	10100.00	4.63	193.06	100.00	10084.03	-7.93	7.93	S	91.84	W	92.18	265.06	0.29	0.00	3.59
106	10200.00	4.60	194.71	100.00	10183.70	-15.74	15.74	S	93.77	W	95.08	260.47	0.13	-0.02	1.65
107	10300.00	4.65	195.22	100.00	10283.38	-23.54	23.54	S	95.85	W	98.70	256.20	0.07	0.05	0.52
108	10400.00	4.27	194.41	100.00	10383.07	-31.05	31.05	S	97.84	W	102.65	252.39	0.39	-0.39	-0.82
109	10500.00	4.59	194.30	100.00	10482.77	-38.54	38.54	S	99.76	W	106.94	248.88	0.33	0.33	-0.10



Company: EP Energy **Job Number:** _____
Well: Moon 3-30C4 **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	4.03	192.35	100.00	10582.49	-45.85	45.85	S	101.50	W	111.37	245.69	0.58	-0.56	-1.95
111	10700.00	4.02	196.25	100.00	10682.24	-52.65	52.65	S	103.23	W	115.88	242.98	0.27	-0.01	3.90
112	10720.00	4.05	196.56	20.00	10702.19	-54.00	54.00	S	103.63	W	116.85	242.48	0.20	0.16	1.57
113	10925.00	4.05	196.56	205.00	10906.68	-67.88	67.88	S	107.76	W	127.35	237.79	0.00	0.00	0.00

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: Moon 3-30C4
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2377 FSL 0700 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESE Section: 30 Township: 03.0S Range: 04.0W Meridian: U	9. API NUMBER: 43013529900000
3. ADDRESS OF OPERATOR: 1001 Louisiana , Houston, TX, 77002	PHONE NUMBER: 713 997-5038 Ext
9. FIELD and POOL or WILDCAT: ALTAMONT	COUNTY: DUCHESNE
STATE: UTAH	STATE: UTAH

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

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

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
 Upgraded tubing. See attached for details.

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

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

CENTRAL DIVISION

ALTAMONT FIELD
MOON 3-30C4
MOON 3-30C4
WORKOVER LAND

Operation Summary Report

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

1 General**1.1 Customer Information**

Company	CENTRAL DIVISION
Representative	
Address	

1.2 Well Information

Well	MOON 3-30C4		
Project	ALTAMONT FIELD	Site	MOON 3-30C4
Rig Name/No.	COROD RIG/X	Event	WORKOVER LAND
Start date	8/14/2015	End date	8/23/2015
Spud Date/Time	9/30/2014	UWI	MOON 3-30C4
Active datum	KB @5,805.8ft (above Mean Sea Level)		
Afe No./Description	165327/54748 / MOON 3-30C4		

2 Summary**2.1 Operation Summary**

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
8/15/2015	7:00 9:30	2.50	PRDHEQ	18		P		ROAD RIG FROM YARD TO 3-30C4, WRITE & REVIEW JSA TOPIC HAND PLACEMENT, PUMP 60 BBLS HOT 2% KCL DOWN CSG WHILE SLIDING ROTA FLEX BACK, MIRU COROD RIG, BLED OFF TBG
	9:30 11:30	2.00	PRDHEQ	42		P		L/D POLISH ROD & SUBS, POOH W/ 746' # 8 COROD, 827' # 7 COROD, 986' # 6 COROD, PARTED ON THE # 6 TO # 5 WELD @ 2541', NO PITTING & SLIGHT WEAR AT PART, WELD ON 1" PIN TO COROD FOR FISHING TOOL
	11:30 15:30	4.00	PRDHEQ	42		P		M/U FISHING TOOL, RIH W/ GRAPPLE & COROD, FISH # 5 COROD, TRY UNSEAT PUMP, HOT OILER PUMPING DOWN CSG, UNABLE TO UNSEAT PUMP, P/U POLISH ROD J-OFF ON/OFF TOOL, L/D POLISH ROD.
	15:30 18:00	2.50	PRDHEQ	42		P		POOH W/ 746' # 8 COROD, 827' # 7 COROD, 986' # 6 COROD, CUT # 5 COROD, L/D FISHING TOOL, CONTINUE POOH W/ 4000' # 5 COROD, 1300' # 8 COROD AND ON/OFF TOOL, HAD WEAR ON COROD FROM 3766' TO 5850'.
	18:00 20:00	2.00	ELINE	21		P		R/U THE PERFORATOR'S, RIH TO PERF TBG @ 7920' TO 7921' W/ 4 SHOTS, POOH, R/D WIRELINERS, FLUSHED TBG W/ 60 BBLS HOT 2% KCL
	20:00 21:00	1.00	PRDHEQ	18		P		RDMO COROD RIG, SECURE WELL, SDFW
8/16/2015	6:00 6:00	24.00	PRDHEQ	18		P		NO ACTIVITY, SDFW
8/17/2015	6:00 6:00	24.00	PRDHEQ	18		P		NO ACTIVITY, SDFW
8/18/2015	6:00 6:00	24.00	PRDHEQ	18		P		NO ACTIVITY, WAITING ON SERVICE RIG.
8/19/2015	11:00 13:00	2.00	PRDHEQ	18		P		ROAD RIG FROM 2-28B4 TO 3-30C4, WRITE & REVIEW JSA ON N/U BOPS, MIRU RIG.
	13:00 15:00	2.00	PRDHEQ	18		P		PUMP 45 BBLS 2% KCL DOWN CSG, BLED OFF TBG, N/D B-FLANGE, N/U 10K X 5K SPOOL & 5K BOPS, R/U WORK FLOOR & TBG TONGS, RELEASE 7" TAC, SECURE WELL, SDFD. READY TO SCAN TBG.
8/20/2015	6:00 7:00	1.00	PRDHEQ	46		P		CREW TRAVEL HSM WRITE & REVIEW JSA (TOPIC) SCANNING & HYDRO TESTING TBG
	7:00 8:00	1.00	PMPNG	15		P		BLOW DOWN WELL, FLUSH TBG W/ 40 BBLS 2% KCL, CSG STARTED BLOWING, PUMP 50 BBLS 2% DOWN CSG, WELL WENT ON VACUUM.

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	8:00 12:30	4.50	PRDHEQ	18		P		R/U TUBOSCOPE, POOH SCANNING TBG W/ 240 JTS 2 7/8" L-80 TBG, 7" TAC, 4 JTS L-80 TBG, 4' X 2 7/8" SUB, R/D SCANNERS, L/D BHA, PSN, 2' X 2 7/8" SUB, 5 1/2" PBGA, 2 JTS 2 7/8" & 5 3/4" SOLID NO/GO
	12:30 16:30	4.00	PRDHEQ	34		P		R/U HYDRO TESTER, RIH W/ 5 3/4" NO/GO, 4' X 2 7/8" PERF SUB AND TEST YELLOW BAND TBG TO 8500 PSI W/ 160 JTS 2 7/8" , R/D HYDRO TESTER.
	16:30 18:00	1.50	PRDHEQ	18		P		L/D 14 JTS 2 7/8" YELLOW BAND, POOH TO DERRICK W/ 84 JTS 2 7/8" YELLOW BAND TBG, EOT @ 2021', SECURE WELL SDFD.
8/21/2015	6:00 7:00	1.00	PRDHEQ	46		P		CREW TRAVEL HSM WRITE & REVIEW JSA (TOPIC) PICKING UP TUBING
	7:00 8:00	1.00	PRDHEQ	18		P		BLOW DOWN WELL, POOH W/ 60 JTS 2 7/8", 4' X 2 7/8" PERF SUB & 5 3/4" SOLID NO/GO
	8:00 15:00	7.00	PRDHEQ	18		P		RIH W/ 5 3/4" SOLID NO/GO, 2 JTS 2 7/8", 5 1/2" PBGA, 2' X 2 7/8" SUB, 2 7/8" PSN, 4' X 2 7/8" SUB, 4 JTS 2 7/8" YELLOW BAND TBG, 7" KLX 1/4" TURN TAC, 80 JTS 2 7/8" YB TBG, 2 7/8" X 3 1/2" X-OVER, P/U 100 JTS 3 1/2" LINED TBG, 3 1/2" X 2 7/8" X-O, RIH W/ 34 JTS 2 7/8" YB TBG, SET 7" 1/4" TURN TAC IN 18,000 LBS TENSION, R/D TONGS & WORK FLOOR, N/D BOPS, N/U B-FLANGE, X-O TO ROD EQUIPMENT.
	15:00 16:00	1.00	PRDHEQ	18		P		R/D W/O RIG, MOVE RIG & EQUIPMENT TO SIDE LOCATION, CLEAN LOCATION, FLUSHED TBG W/ 60 BBLS HOT 2% KCL,
	16:00 19:00	3.00	PRDHEQ	42		P		MIRU COROD RIG, RIH W/ 2 1/2" X 1 3/4" X 37' HF PUMP, 1300' SE # 6, 3005' SE # 5, HAVE TO REPLACE 2295' # 5 COROD, SECURE WELL, SDFD.
8/22/2015	6:00 7:00	1.00	PRDHEQ	46		P		CREW TRAVEL HSM WRITE & REVIEW JSA (TOPIC) HELP
	7:00 14:00	7.00	PRDHEQ	18		P		LAST NIGHT COROD SLIPPED THROUGH CLAMP DROPPING PUMP & 4205' OF COROD, WELD ON 1" PIN, RIH W/ COROD FISHING TOOL, # 5 COROD, WELD ON # 6 COROD, CONTINUE TO WAIT ON NEW COROD CLAMPS, RIH ENGAGE FISH, FISH COROD PULL 2,000 LBS OVER STRING WEIGHT AND LOSE FISH, MADE SEVERAL ATTEMPTS TO FISH COROD, SLIPS OFF.
	14:00 20:00	6.00	PRDHEQ	42		P		POOH W/ COROD, L/D FISHING TOOL, M/U NEW TOOL, RIH W/ 1 1/16 GRAPPLE & COROD, FISH COROD, WORK COROD, HOTOILER PUMPING DOWN CSG, TRYING TO UNSEAT PUMP, NO LUCK, PULL 15K OVER ON PUMP, SECURE WELL, SDFD.
8/23/2015	6:00 7:00	1.00	PRDHEQ	46		P		CREW TRAVEL HSM WRITE & REVIEW JSA (TOPIC) CUTTING & WELDING COROD
	7:00 8:00	1.00	PRDHEQ	42		P		WORK COROD JARRING ON PUMP, GOT PUMP OFF SEAT
	8:00 8:45	0.75	PMPNG	24		P		R/U HOT OILER TO TBG, FLUSH COROD W/ 50 BBLS 2% KCL
	8:45 12:00	3.25	PRDHEQ	42		P		POOH W/ 748' SE 8, 827' SE 7, 986' SE 6, 1041" SE 5, FISHING TOOL, CUT COROD L/D FISHING TOOL, POOH CUTTING UP 2300' BAD SE 5 COROD, CONTINUE POOH W/ 660' SE 5 & 1300' SE # 6, L/D 2 1/2" X 1 3/4" X 37' HF PUMP, FISH NECK WAS SMASHED DOWN & 4 CONNECTION ON PUMP WAS LOSE, COROD WAS OK.
	12:00 12:45	0.75	PMPNG	24		P		FLUSH TBG W/ 50 BBLS 2% KCL & ROD CHEM.
	12:45 16:30	3.75	PRDHEQ	42		P		RIH W/ 2 1/2" X 1 3/4" X 37' HF PUMP, 1300' SE 6, 660' SE 5, WELD ON NEW SE 5, CONTINUE RIH W/ 2300' NEW SE 5, WELD SE 5 TOGETHER, CONTINUE RIH W/ 1041' SE 5, 986' SE 6, 827' SE 7, 746' SE 8 COROD, SPACE OUT W/ 2',4',8' PONY SUBS, P/U 1 1/2" X 40' POLISH ROD, SEAT PUMP @ 7979'
	16:30 17:30	1.00	PMPNG	34		P		FILL TBG W/ 30 BBLS 2% KCL, STROKE TEST PUMP TO 1000 PSI, GOOD TEST, FLUSH FLOW LINE W/ 20 BBLS
	17:30 19:00	1.50	PRDHEQ	18		P		RDMO COROD RIG, SLIDE IN ROTA FLEX, HANG OFF RODS, START UNIT, TWOTO, CLEAN LOC., MOVE RIG TO 8-20C4