

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 Duchesne City 3-19C4 | | | | | | | | |
| 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') Duchesne City Corporation | | | | | | 14. SURFACE OWNER PHONE (if box 12 = 'fee') 435-738-2464 | | | | | | | | |
| 15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee') 500 East Main Street, 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 type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/> | | | | | | | | |
| 20. LOCATION OF WELL | | FOOTAGES | | QTR-QTR | | SECTION | | TOWNSHIP | | RANGE | | MERIDIAN | | |
| LOCATION AT SURFACE | | 1583 FSL 2101 FWL | | NESW | | 19 | | 3.0 S | | 4.0 W | | U | | |
| Top of Uppermost Producing Zone | | 1300 FSL 1900 FWL | | SESW | | 19 | | 3.0 S | | 4.0 W | | U | | |
| At Total Depth | | 1300 FSL 1900 FWL | | SESW | | 19 | | 3.0 S | | 4.0 W | | U | | |
| 21. COUNTY DUCHEсне | | | 22. DISTANCE TO NEAREST LEASE LINE (Feet) 1300 | | | 23. NUMBER OF ACRES IN DRILLING UNIT 80 | | | | | | | | |
| | | | 25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 2000 | | | 26. PROPOSED DEPTH MD: 11810 TVD: 11800 | | | | | | | | |
| 27. ELEVATION - GROUND LEVEL 5824 | | | 28. BOND NUMBER 400JU0708 | | | 29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE Duchesne City | | | | | | | | |
| Hole, Casing, and Cement Information | | | | | | | | | | | | | | |
| String | Hole Size | Casing Size | Length | Weight | Grade & Thread | Max Mud Wt. | Cement | Sacks | Yield | Weight | | | | |
| COND | 17.5 | 13.375 | 0 - 600 | 54.5 | J-55 ST&C | 0.0 | Class G | 758 | 1.15 | 15.8 | | | | |
| SURF | 12.25 | 9.625 | 0 - 2200 | 40.0 | N-80 LT&C | 0.0 | Type V | 384 | 2.36 | 12.0 | | | | |
| | | | | | | | Class G | 195 | 1.3 | 14.3 | | | | |
| I1 | 8.75 | 7 | 0 - 8610 | 29.0 | HCP-110 LT&C | 10.5 | Class G | 597 | 1.91 | 12.5 | | | | |
| | | | | | | | Class G | 304 | 1.64 | 13.0 | | | | |
| L1 | 6.125 | 5 | 8460 - 11810 | 18.0 | HCP-110 LT&C | 12.0 | Class G | 200 | 1.52 | 14.2 | | | | |
| ATTACHMENTS | | | | | | | | | | | | | | |
| VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES | | | | | | | | | | | | | | |
| <input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER | | | | | | <input checked="" type="checkbox"/> COMPLETE DRILLING PLAN | | | | | | | | |
| <input checked="" type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE) | | | | | | <input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER | | | | | | | | |
| <input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED) | | | | | | <input checked="" type="checkbox"/> TOPOGRAPHICAL MAP | | | | | | | | |
| NAME Maria S. Gomez | | | | TITLE Principal Regulatory Analyst | | | | PHONE 713 997-5038 | | | | | | |
| SIGNATURE | | | | DATE 04/09/2015 | | | | EMAIL maria.gomez@epenergy.com | | | | | | |
| API NUMBER ASSIGNED 43013532840000 | | | | APPROVAL  Permit Manager | | | | | | | | | | |

**Duchesne City 3-19C4
Sec. 19, 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) | 3,751' TVD |
| Green River (GRTN1) | 4,461' TVD |
| Mahogany Bench | 5,334' TVD |
| L. Green River | 6,651' TVD |
| Wasatch | 8,521' TVD |
| T.D. (Permit) | 11,800' TVD / +/- 11,810' MD |

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

| <u>Substance</u> | <u>Formation</u> | <u>Depth</u> |
|------------------|---------------------|------------------------|
| Water | Base MSGW | 1,041' TVD/MD |
| | Green River (GRRV) | 3,751' TVD / 3,753' MD |
| | Green River (GRTN1) | 4,461' TVD / 4,464' MD |
| | Mahogany Bench | 5,334' TVD / 5,339' MD |
| | L. Green River | 6,651' TVD / 6,659' MD |
| Oil | Wasatch | 8,521' TVD / 8,531' MD |

3. Pressure Control Equipment: (Schematic Attached)

A Diverter System w/ rotating head on structural pipe from 600' to 2,200' MD/TVD. A 10M BOP stack w/ rotating head, spacer spool, 5M annular, flex rams, blind rams & single w/ flex rams used from 2,200' MD/TVD to 8,610' MD / 8,600' TVD. A 10M BOP stack w/ rotating head, spacer spool, 5M annular, flex rams, blind rams & single w/ flex rams from 8,610' MD / 8,600' TVD to TD (11,810' MD / 11,800' TVD).

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

We have pre-set numerous wells around the proposed location and had no issues. We have pre-set 6 wells in section 20 which is the section right next to this one and had no issues on any of them.

There are 20 water wells within 10,000' of the proposed location.

There is 1 SWD well within 2.5 miles of the proposed location. No pressure communication is expected to be seen, however it is important to be aware of them.

The Blue Bench 1-13C5 SWD is 8,703' or 1.65 miles to the North West of the proposed location. It is owned by Intercept Energy & is an active SWD well. It is injecting into the Upper/Middle Green River & Upper-most Lower Green River. The injection interval is from 4106'-7528'. The injection rate is now ~500 bbls/day @ 500-600 psi (I just got off the phone with Keith who is with Intercept Energy). The pressure dissipates to 300 psi while down on maintenance. Using 300 psi, the EMW @ 4106' is 10.01 ppg. We should not see any pressure from this well since it is over 1.5 miles away & not on fracture orientation. We have drilled as close as 0.98 miles to this SWD well & **on fracture orientation** and have not seen any pressure while drilling. **If any pressure communication is seen, we can easily weight up to 10.1 ppg MW to control the wellbore. Our intermediate cement design will be 12.5 ppg lead & 13 ppg tail. We will also pump a weighted spacer.**

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 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 2,200' - TD
- B) Mud logger with gas monitor – 2,200' to TD
- C) Choke manifold with one manual and one hydraulic operated choke
- D) Full opening floor valve with drill pipe thread
- E) Upper and lower Kelly cock
- F) Shaker, de-sander and centrifuge

4. Proposed Casing & Cementing Program:

Please refer to the attached Wellbore Diagram.

All casing will meet or exceed the following design safety factors:

- Burst = 1.00
- Collapse = 1.125
- Tension = 1.2 (including 100k# overpull)

Cement design calculations for intermediate and production hole will be based on minimum 10% excess over gauge hole volumes. Actual volumes pumped will be a minimum of 10% excess over caliper volume to designed tops of cement for any section logged. A minimum of 50% excess over gauge volume will be pumped on surface casing.

5. Drilling Fluids Program:

Proposed Mud Program:

| Interval | Type | Mud Weight |
|--------------|------|-------------|
| Surface | Air | Air |
| Intermediate | WBM | 9.4 – 10.5 |
| Production | WBM | 11.0 – 12.0 |

Anticipated mud weights are based on actual offset well bottom-hole pressure data. Mud weights utilized may be somewhat higher to allow for trip margin and to provide hole stability for running logs and casing.

Visual mud monitoring equipment will be utilized.

6. Evaluation Program:

Logs:

Mud Log: 2,200' MD/TVD – TD

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

7. Abnormal Conditions:

Maximum anticipated bottomhole pressure calculated at 11,800' TVD equals approximately 7,363 psi. This is calculated based on a 0.624 psi/ft gradient (12.0 ppg mud density at TD).

Maximum anticipated surface pressure equals approximately 4,767 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/ft).

Maximum anticipated surface pressure based on frac gradient at 7" casing shoe is 0.8 psi/ft at 8,600' TVD = 6,880 psi

BOPE and casing design will be based on the lesser of the two MASPs which is 4,767 psi.

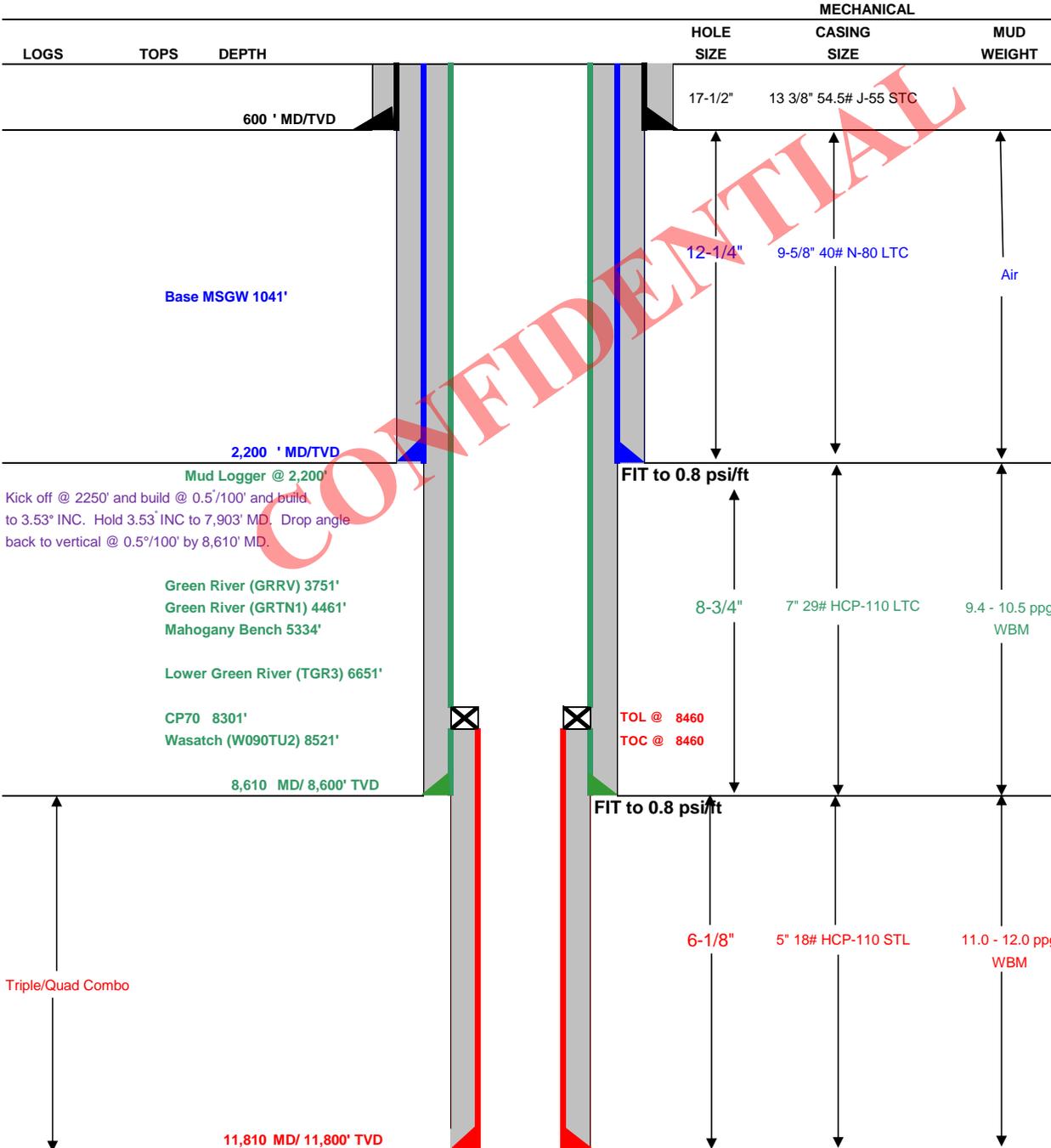
8. **OPERATOR REQUESTS THAT THE PROPOSED WELL BE PLACED ON CONFIDENTIAL STATUS.**

CONFIDENTIAL



Drilling Schematic

| | |
|---|--|
| Company Name: EP ENERGY | Date: May 12, 2015 |
| Well Name: Duchesne City 3-19C4 | TD: 11,810 |
| Field, County, State: Altamont, Duchesne, Utah | AFE #: TBD |
| Surface Location: Sec 19 T3S R4W 1583' FSL 2101' FWL | BHL: Sec 19 T3S R4W 1300' FSL 1900' FWL |
| Objective Zone(s): Green River, Wasatch | Elevation: 5824.1 |
| Rig: Precision 406 | Spud (est.): TBD |
| BOPE Info: Diverter Stack w/ rotating head on structural pipe from 600' to 2,200' . 11 10M BOPE w/ rotating head & 5M annular from 2,200' to 8,610' . 11 10M BOPE w/ rotating head, spacer spool, 5M annular, flex rams, blind rams, single w/ flex rams from 8,610' to TD | |



DRILLING PROGRAM

| CASING PROGRAM | SIZE | INTERVAL | WT. | GR. | CPLG. | BURST | COLLAPSE | TENSION |
|------------------|---------|------------|-------|---------|-------|--------|----------|---------|
| CONDUCTOR | 13 3/8" | 0 600 | 54.5 | J-55 | STC | 2,740 | 1,130 | 514 |
| SURFACE | 9-5/8" | 0 2200 | 40.00 | N-80 | LTC | 5,750 | 3,090 | 737 |
| INTERMEDIATE | 7" | 0 8610 | 29.00 | HCP-110 | LTC | 11,220 | 9,750 | 797 |
| PRODUCTION LINER | 5" | 8460 11810 | 18.00 | HCP-110 | STL | 13,940 | 15,450 | 341 |

| CEMENT PROGRAM | FT. OF FILL | DESCRIPTION | SACKS | EXCESS | WEIGHT | YIELD |
|------------------|-------------|--|-------|--------|----------|-------|
| CONDUCTOR | 600 | Class G + 3% CACL2 | 758 | 100% | 15.8 ppg | 1.15 |
| SURFACE | Lead | 1,700 EXTENDACEM SYSTEM: Type V Cement + 2% Cal-Seal + 0.35% Versaset + 0.3% D-Air 5000 + 6% Salt + 2% Econolite + 0.125 Poly-E-Flake | 384 | 100% | 12.0 ppg | 2.36 |
| | Tail | 500 HALCEM SYSTEM: Class G Cement + 3 lbm/sk Silicalite Compacted + 1% Salt + 0.3% Econolite + 0.25 lbm/sk Poly-E-Flake + 0.25 lbm/sk Kwik Seal + 0.3% D-AIR 5000 | 195 | 50% | 14.3 ppg | 1.30 |
| INTERMEDIATE | Lead | 6,110 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 | 597 | 35% | 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 | 3,350 | 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 | 200 | 30% | 14.2 ppg | 1.52 |

| FLOAT EQUIPMENT & CENTRALIZERS | |
|--------------------------------|---|
| CONDUCTOR | PDC drillable float shoe, 1 joint, PDC drillable float collar. Thread lock all float equipment. Install bow spring centralizers on the bottom 3 joints of casing if wellbore conditions allow. |
| SURFACE | PDC drillable float shoe, 1 joint casing, PDC drillable float collar. Thread lock all float equipment. Install bow spring centralizers on the bottom 3 joints of casing & every 3rd joint thereafter if wellbore conditions |
| INTERMEDIATE | Halliburton's PDC drillable 10M P-110 float shoe, 1 joint, PDC drillable 10M P-110 float collar. Thread lock all float equipment. Maker joint at +/- 6,650'. |
| LINER | Float shoe, 1 joint, float collar, 1 joint, landing collar. Thread lock all FE. Maker joints every 1000'. |

PROJECT ENGINEER(S): Brad MacAfee 713-997-6383

MANAGER: Bob Dodd

EP ENERGY E&P COMPANY, L.P.
DUCHESNE CITY 3-19C4 LOCATION

SECTION 19, T3S, R4W, U.S.B.&M.

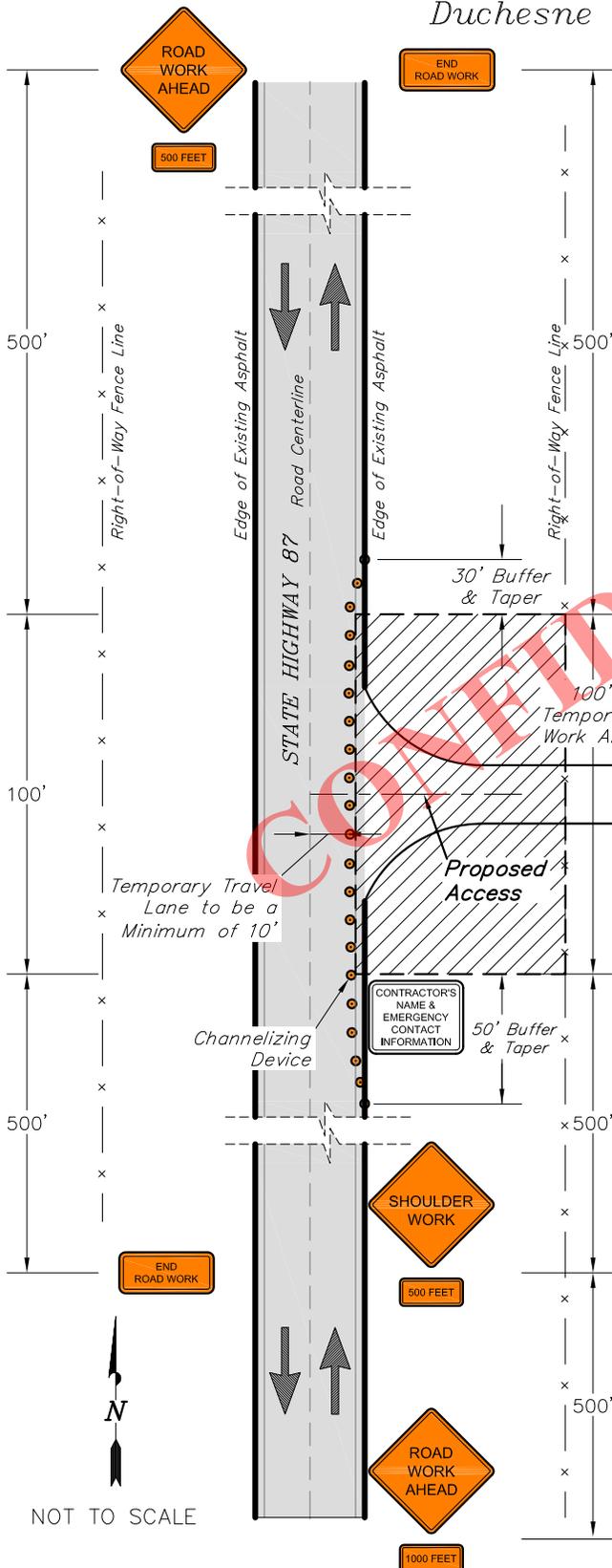
PROCEED IN A NORTHERLY DIRECTION FROM DUCHESNE, UTAH ALONG STATE HIGHWAY 87 APPROXIMATELY 3.1 MILES TO THE BEGINNING OF THE PROPOSED ACCESS FOR THE DUCHESNE CITY 3-19C4 LOCATION TO THE EAST; TURN RIGHT AND FOLLOW THE PROPOSED ROAD STAKES IN AN EASTERLY THENCE SOUTHEASTERLY DIRECTION APPROXIMATELY 2,931' TO THE PROPOSED DUCHESNE CITY 3-19C4 LOCATION.

TOTAL DISTANCE FROM DUCHESNE, UTAH TO THE PROPOSED DUCHESNE CITY 3-19C4 LOCATION IS APPROXIMATELY 3.7 MILES.

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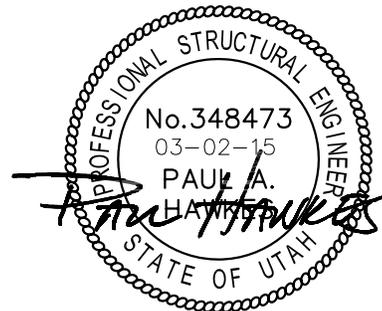
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DUCHESNE CITY 3-19C4 WELL PAD TEMPORARY TRAFFIC CONTROL PLAN Section 19, T3S, R4W, U.S.B.&M. Duchesne County, Utah



Traffic Control Notes

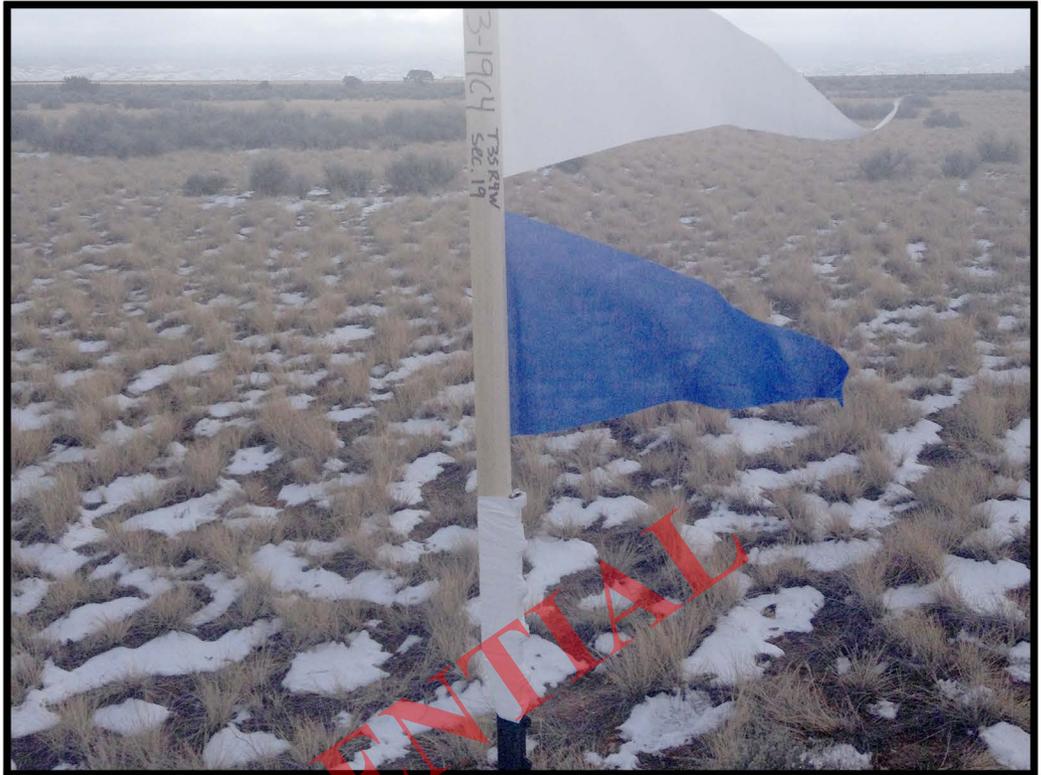
1. This Temporary Traffic Control Plan was designed from Utah Department of Transportation (UDOT) and the Manual on Uniform Traffic Control Devices (MUTCD) standards and specifications for work on shoulder with minor lane encroachment.
2. All traffic control devices and actions shall conform to the Latest MUTCD and UDOT standards and specifications. In situations not covered in this design, Contractor shall refer to UDOT and the MUTCD.
3. Every attempt shall be made to schedule and safely expedite work within highway right-of-way (R.O.W.) to increase safety and to cause the least amount of inconvenience to the traveling public.
4. Before any construction activity within the highway R.O.W., contractor shall notify UDOT, the Sheriff's Department, and any applicable utility companies to coordinate construction activities and schedule.
5. When not in use during construction activities, construction staging of equipment and materials shall not be within the highway R.O.W..
6. The minimum width of a temporary travel lane is 10 feet.
7. A flagger shall be used for all work within 2 feet of the edge of an open travel lane.
8. It is the Contractor's responsibility to keep the highway clean and free of construction material such as rocks and mud through the shown temporary work area during construction.
9. All workers within the highway R.O.W. are to comply with their employer's safety and health policies and practices and all applicable OSHA regulations.
10. Any and all damage to the highway from construction activities shall be reported to UDOT and this traffic control plan shall be revised to have the traveling public routed safely around damaged areas.



| | |
|---------------------|----------------------|
| SURVEYED BY: NA | DATE SURVEYED: NA |
| DRAWN BY: F.T.M. | DATE DRAWN: 03-02-15 |
| SCALE: NOT TO SCALE | REVISED: |

Tri State
Land Surveying, Inc.
180 NORTH VERNAL AVE. VERNAL, UTAH 84078
(435) 781-2501

**Location
Photos**



Center Stake

Looking Southeasterly

| | |
|--------------------|----------|
| Date Photographed: | 12-30-14 |
| Photographed By : | M.C. |

Access

Looking Easterly

| | |
|--------------------|----------|
| Date Photographed: | 02-27-15 |
| Photographed By : | M.C. |



**Tri State
Land Surveying, Inc.**

180 NORTH VERNAL AVE. VERNAL, UTAH 84078

P: (435) 781-2501
F: (435) 781-2518

EP ENERGY E&P COMPANY, L.P.

Proposed Duchesne City 3-19C4
Sec. 19, T3S, R4W, U.S.B.&M.
Duchesne County, UT.

| | | | |
|-----------|----------|----------|-----------------|
| DRAWN BY: | D.C.R. | REVISED: | 03-13-15 J.A.S. |
| DATE: | 02-16-15 | | |

COLOR PHOTOGRAPHS

SHEET
P1

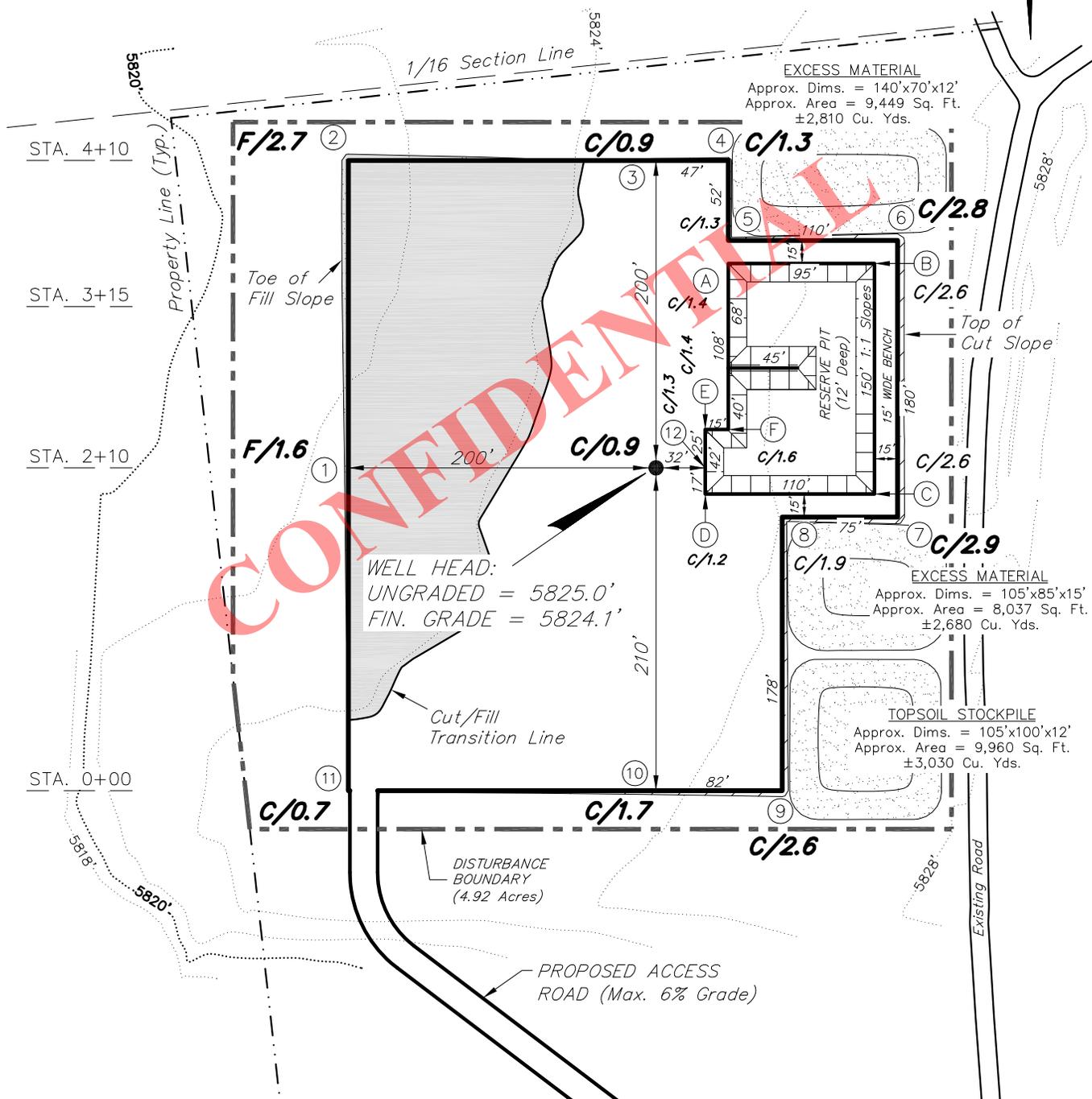
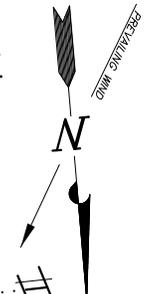
EP ENERGY E&P COMPANY, L.P.

FIGURE #1

PROPOSED LOCATION LAYOUT

DUCHESNE CITY 3-19C4

Pad Location: NESW Section 19, T3S, R4W, U.S.B.&M.



NOTE:
The topsoil & excess material areas are calculated as being mounds containing 8,520 cubic yards of dirt (a 10% fluff factor is included). The mound areas are calculated with push slopes of 1.5:1 & fall slopes of 1.5:1.

Note:
Topsoil to be Stripped from all New Construction Areas and Proposed Stockpile Locations

| | | | |
|--------------|-----------|----------------|----------|
| SURVEYED BY: | M.C. | DATE SURVEYED: | 12-30-14 |
| DRAWN BY: | F.T.M. | DATE DRAWN: | 02-12-15 |
| SCALE: | 1" = 100' | REVISED: | |

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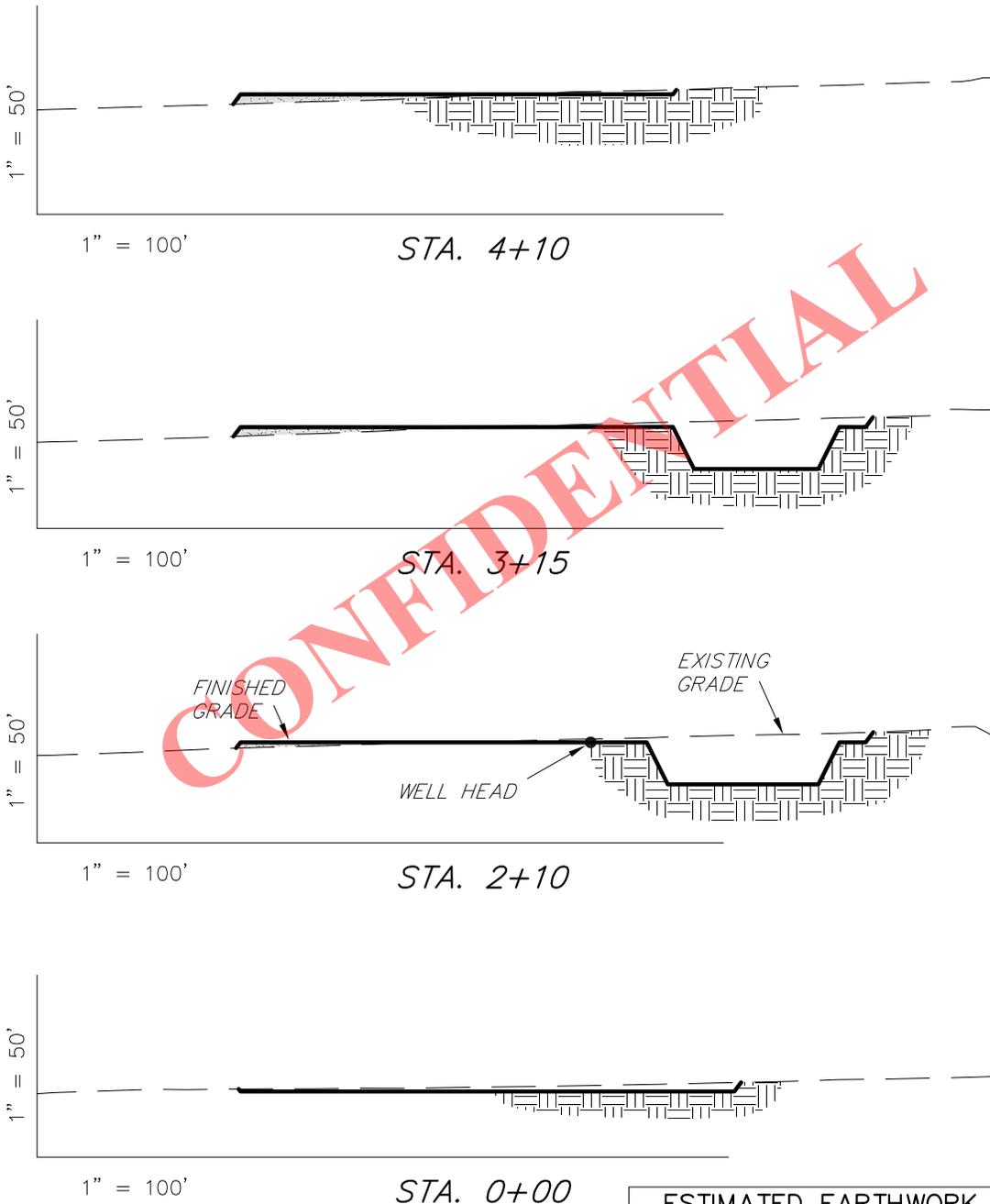
EP ENERGY E&P COMPANY, L.P.

FIGURE #2

CROSS SECTIONS

DUCHESNE CITY 3-19C4

Pad Location: NESW Section 19, T3S, R4W, U.S.B.&M.



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NOTE:
UNLESS OTHERWISE
NOTED ALL CUT/FILL
SLOPES ARE AT 1.5:1

| ESTIMATED EARTHWORK QUANTITIES (No Shrink or swell adjustments have been used) (Expressed in Cubic Yards) | | | | |
|---|-------|-------|---|--------|
| ITEM | CUT | FILL | 6" TOPSOIL | EXCESS |
| PAD | 2,520 | 2,520 | Topsoil is not included in Pad Cut Volume | 0 |
| PIT | 4,990 | 0 | | 4,990 |
| TOTALS | 7,510 | 2,520 | 2,760 | 4,990 |

| | | | |
|--------------|-----------|----------------|----------|
| SURVEYED BY: | M.C. | DATE SURVEYED: | 12-30-14 |
| DRAWN BY: | F.T.M. | DATE DRAWN: | 02-12-15 |
| SCALE: | 1" = 100' | REVISED: | |

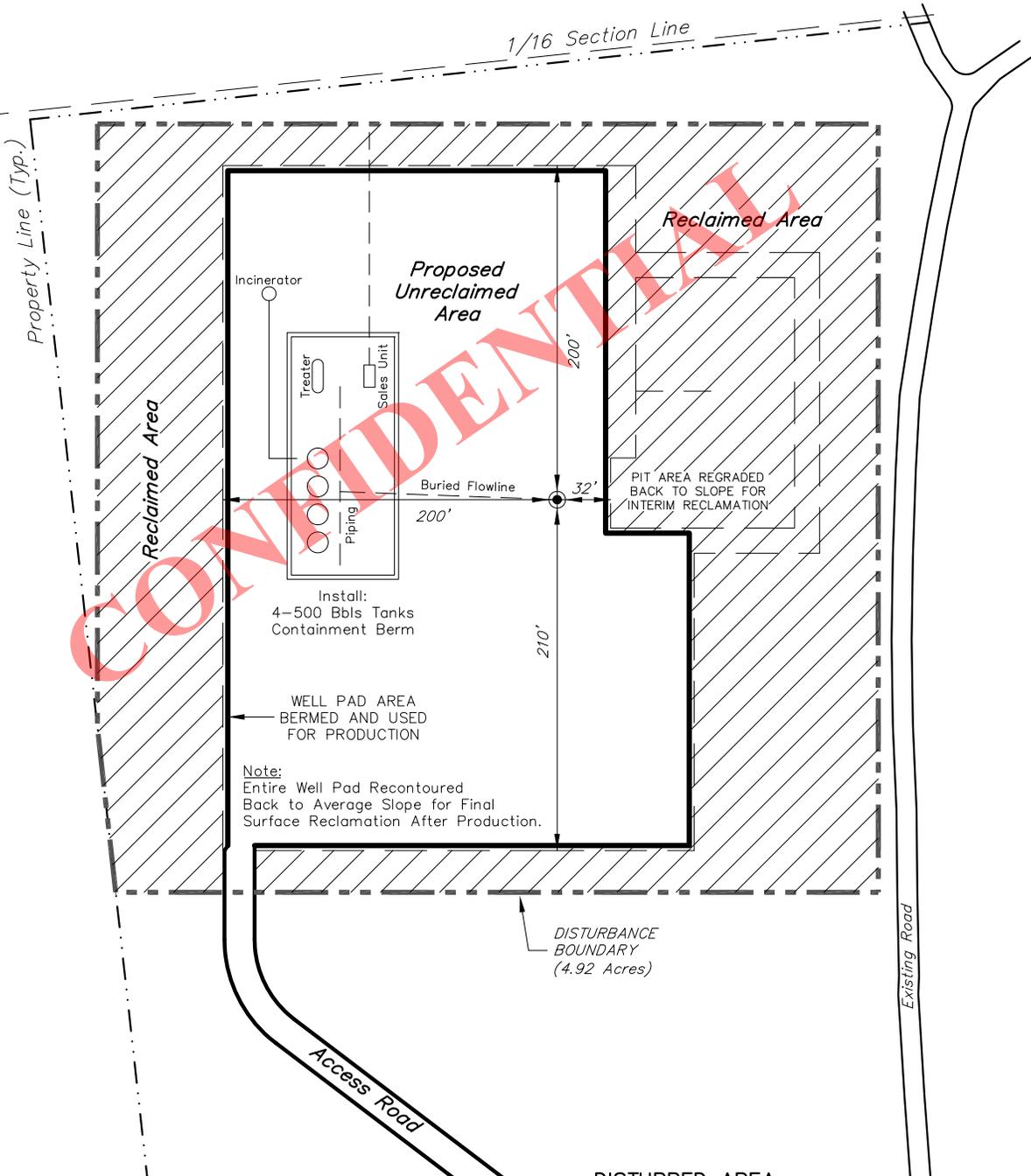
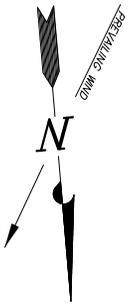
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 180 NORTH VERNAL AVE. VERNAL, UTAH 84078

EP ENERGY E&P COMPANY, L.P.

FIGURE #3

**RECLAMATION LAYOUT
DUCHESNE CITY 3-19C4**

Pad Location: *NESW Section 19, T3S, R4W, U.S.B.&M.*



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- Notes:
1. Reclaimed area to include seeding of approved vegetation and sufficient storm water management system.
 2. Actual Equipment Layout and Reclaimed Pad Surface Area May Change due to Production Requirements or Site Conditions.

| | |
|------------------------|------------|
| DISTURBED AREA: | |
| TOTAL DISTURBED AREA = | 4.92 ACRES |
| TOTAL RECLAIMED AREA = | 2.61 ACRES |
| UNRECLAIMED AREA = | 2.31 ACRES |

| | | | |
|--------------|-----------|----------------|----------|
| SURVEYED BY: | M.C. | DATE SURVEYED: | 12-30-14 |
| DRAWN BY: | F.T.M. | DATE DRAWN: | 02-12-15 |
| SCALE: | 1" = 100' | REVISED: | |

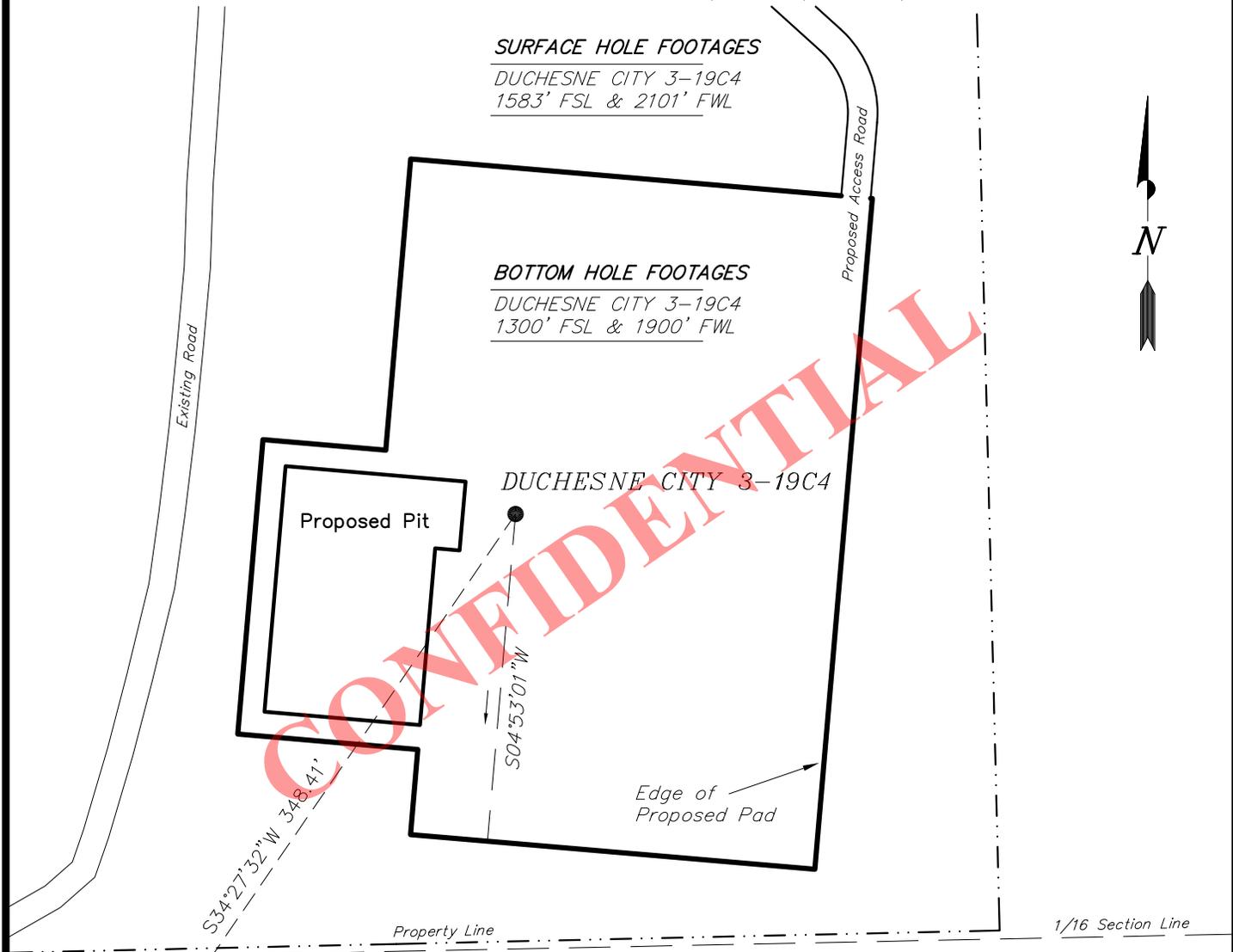
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 180 NORTH VERNAL AVE. VERNAL, UTAH 84078

EP ENERGY E&P COMPANY, L.P.

WELL PAD INTERFERENCE PLAT

DUCHESNE CITY 3-19C4

Pad Location: NESW SECTION 19, T3S, R4W, U.S.B.&M.



SURFACE HOLE FOOTAGES

DUCHESNE CITY 3-19C4
1583' FSL & 2101' FWL

BOTTOM HOLE FOOTAGES

DUCHESNE CITY 3-19C4
1300' FSL & 1900' FWL

DUCHESNE CITY 3-19C4

Proposed Pit

Edge of Proposed Pad

S34°27'32"W 348.41'

S04°53'01"W

Property Line

1/16 Section Line

Bottom of Hole

Note:

Bearings are based on GPS Observations.

LATITUDE & LONGITUDE
Surface Hole Position (NAD 83)

| WELL | LATITUDE | LONGITUDE |
|--------|----------------|-----------------|
| 3-19C4 | 40° 12' 10.39" | 110° 22' 54.30" |

RELATIVE COORDINATES
From Surface Hole to Bottom Hole

| WELL | NORTH | EAST |
|--------|-------|-------|
| 3-19C4 | -287' | -197' |

LATITUDE & LONGITUDE
Bottom Hole Position (NAD 83)

| WELL | LATITUDE | LONGITUDE |
|--------|----------------|-----------------|
| 3-19C4 | 40° 12' 07.57" | 110° 22' 56.88" |

| | | | |
|--------------|-----------|----------------|----------|
| SURVEYED BY: | M.C. | DATE SURVEYED: | 12-30-14 |
| DRAWN BY: | F.T.M. | DATE DRAWN: | 02-12-15 |
| SCALE: | 1" = 100' | REVISED: | |

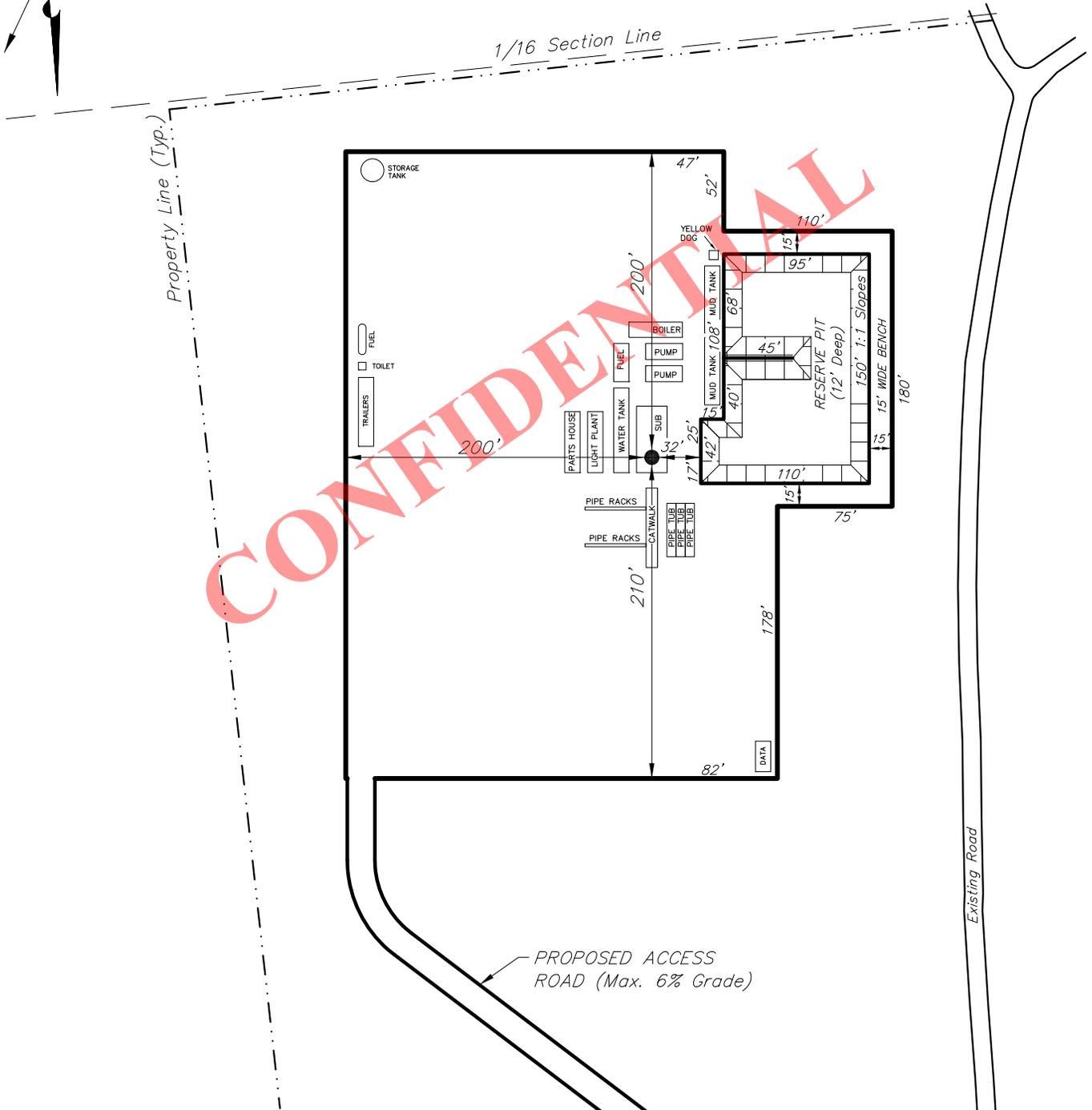
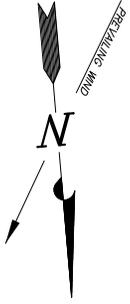
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Land Surveying, Inc.
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

EP ENERGY E&P COMPANY, L.P.

TYPICAL RIG LAYOUT

DUCHESNE CITY 3-19C4

Pad Location: *NESW Section 19, T3S, R4W, U.S.B.&M.*



CONFIDENTIAL

| | | | |
|--------------|-----------|----------------|----------|
| SURVEYED BY: | M.C. | DATE SURVEYED: | 12-30-14 |
| DRAWN BY: | F.T.M. | DATE DRAWN: | 02-12-15 |
| SCALE: | 1" = 100' | REVISED: | |

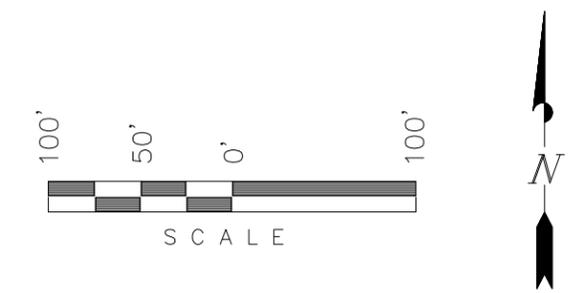
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CONFIDENTIAL

EP ENERGY E&P COMPANY, L.P.

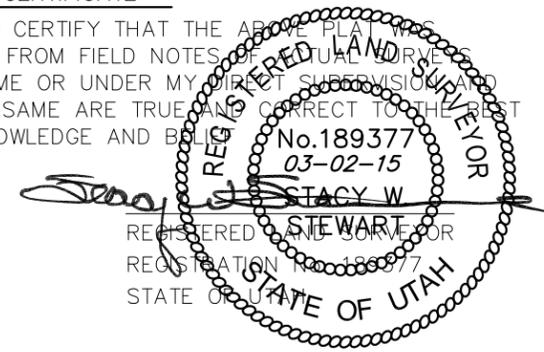
**PROPOSED SURFACE USE AREA
ON FEE LANDS
FOR THE DUCHESNE CITY CORPORATION PROPERTY**

Located in
Section 19, T3S, R4W, U.S.B.&M.
Duchesne County, Utah



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLATS WERE PREPARED FROM FIELD NOTES OF ACTUAL SURVEY MADE BY ME OR UNDER MY DIRECT SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

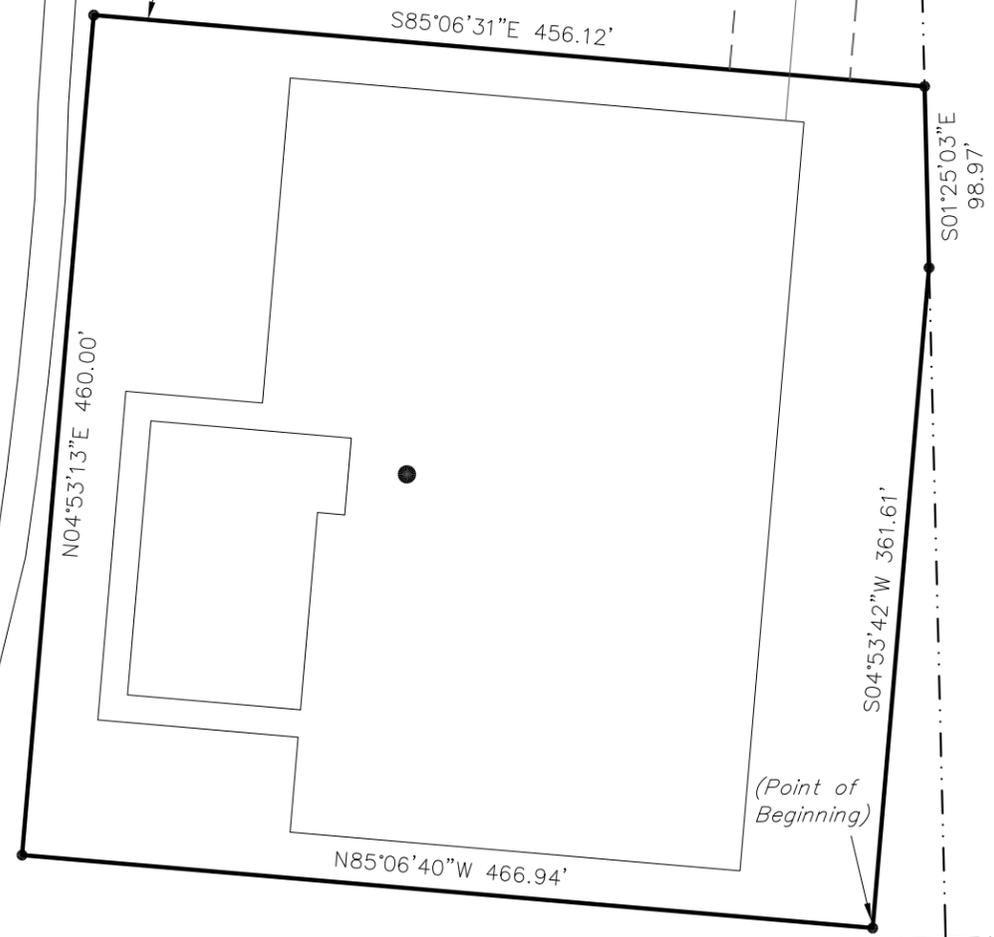


LEGEND

- = SECTION CORNERS FOUND
- P.I. = POINT OF INTERSECTION
- P.O.P.L. = POINT ON PROPERTY LINE
- = PROPERTY LINE

Duchesne City Corporation

**SURFACE USE AREA
DUCHESNE CITY 3-19C4**
(Contains 4.919 Acres)



CORNER TIE NOTE:
The Southeast Corner (Point of Beginning) of the Surface Use Area bears N16°03'21\"/>

SURFACE USE AREA DESCRIPTION

BEGINNING AT A POINT IN THE NE 1/4 SW 1/4 OF SECTION 19, T3S, R4W, U.S.B.&M. WHICH BEARS N16°03'21\"/>

BASIS OF BEARINGS NOTE:

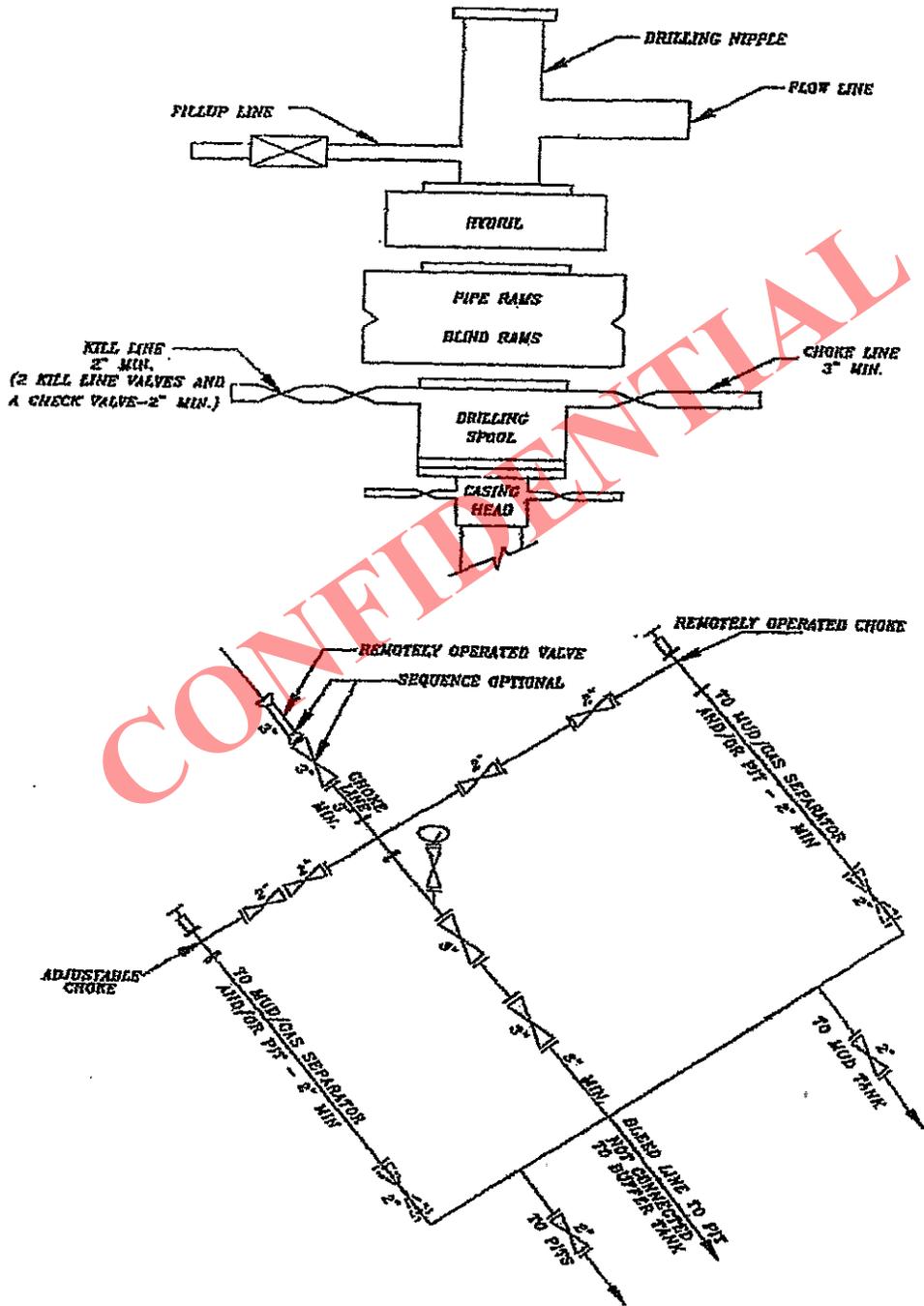
BASIS OF BEARINGS IS THE SOUTH LINE OF THE SW 1/4 OF SECTION 19, T3S, R4W, U.S.B.&M. WHICH IS TAKEN FROM GLOBAL POSITIONING SATELLITE OBSERVATIONS TO BEAR N88°46'22\"/>

| | |
|--------------|-----------|
| SURVEYED BY: | M.C. |
| DRAWN BY: | F.T.M. |
| DATE: | 03-02-15 |
| SCALE: | 1" = 100' |
| DWG #: | 15-0032 |

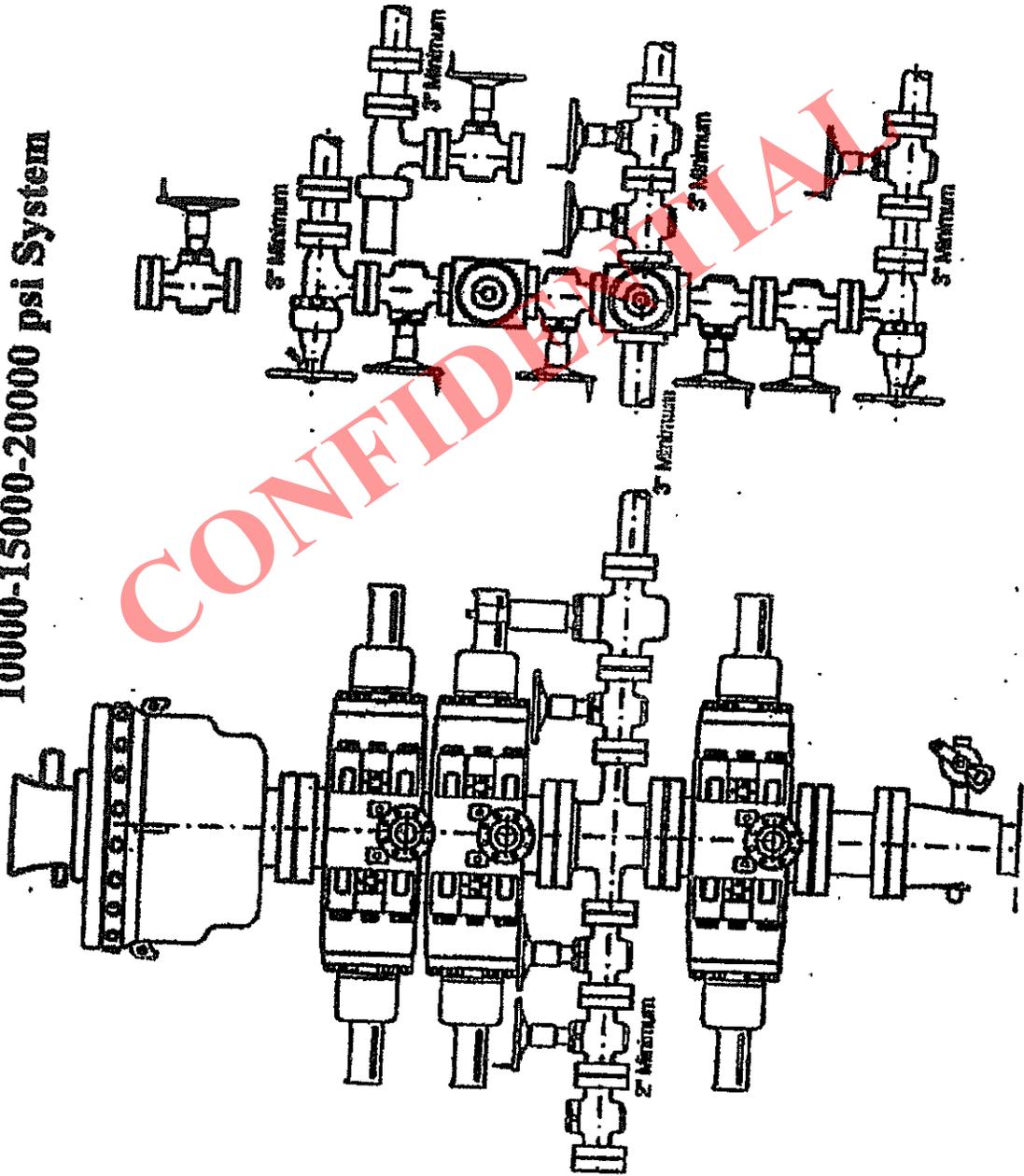
Tri State
Land Surveying, Inc.
(435) 781-2501
180 NORTH VERNAL AVE. - VERNAL, UTAH 84078

FILE: \\LEWIS\drawings\EP ENERGY 2015\3-19C4 (02-27-15)\dwg\SURFACE USE DUCHESNE CITY.dwg

5M BOP STACK and CHOKE MANIFOLD SYSTEM

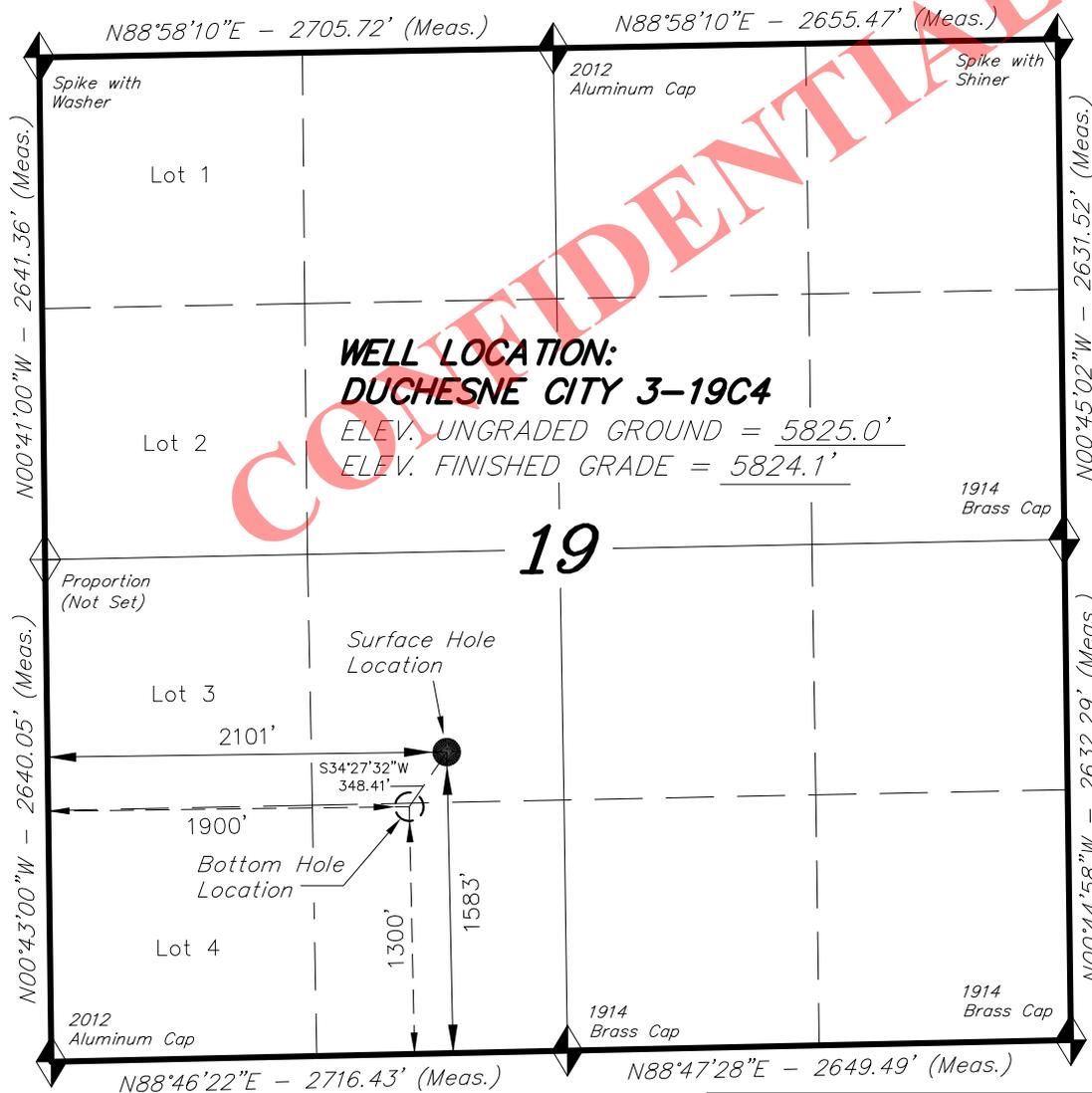


10000-15000-20000 psi System



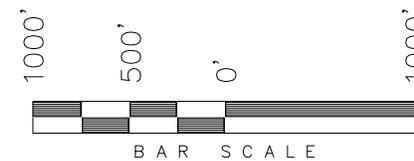
T3S, R4W, U.S.B.&M.

EP ENERGY E&P COMPANY, L.P.



WELL LOCATION, DUCHESNE CITY 3-19C4, LOCATED AS SHOWN IN THE NE 1/4 SW 1/4 OF SECTION 19, T3S, R4W, U.S.B.&M. DUCHESNE COUNTY, UTAH.

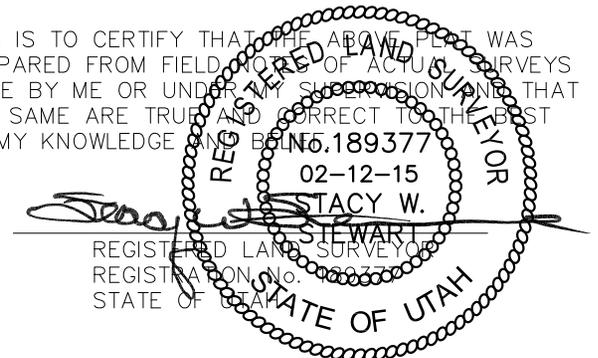
TARGET BOTTOM HOLE, DUCHESNE CITY 3-19C4, LOCATED AS SHOWN IN THE SE 1/4 SW 1/4 OF SECTION 19, T3S, R4W, U.S.B.&M. DUCHESNE COUNTY, UTAH.



NOTES:

1. Well footages are measured at right angles to the Section Lines.
2. Bearings are based on Global Positioning Satellite observations.

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



◆ = SECTION CORNERS LOCATED

BASIS OF ELEV; Elevations are based on an N.G.S. OPUS Correction. LOCATION: LAT. 40°17'45.87" LONG. 110°23'30.60" (Tristate Aluminum Cap) NAD 83 Elev. 6604.28'

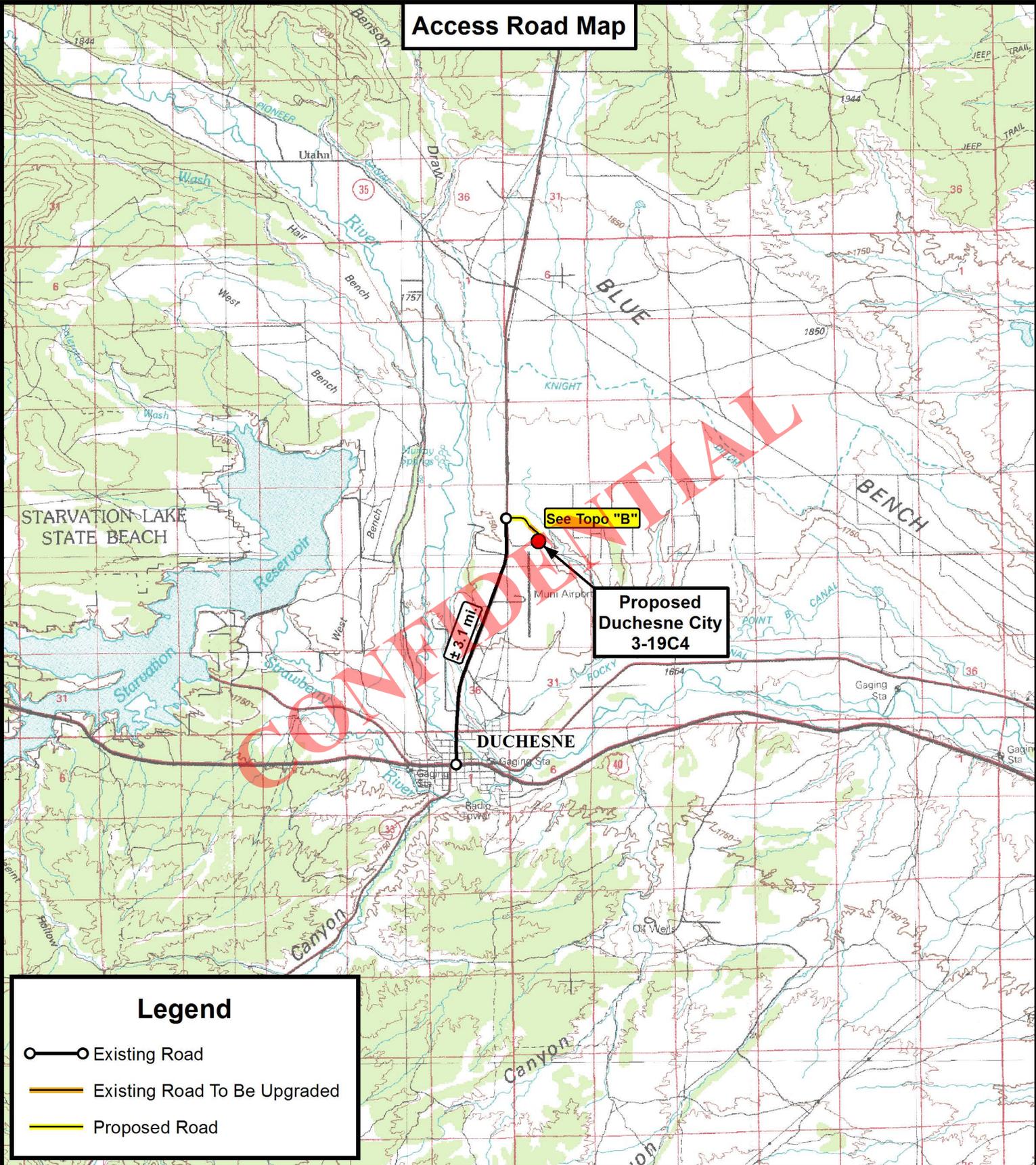
| |
|---|
| NAD 83 (SURFACE HOLE LOCATION) |
| LATITUDE = 40°12'10.39" (40.202886°) |
| LONGITUDE = 110°22'54.30" (110.381749°) |
| NAD 27 (SURFACE HOLE LOCATION) |
| LATITUDE = 40°12'10.54" (40.202928°) |
| LONGITUDE = 110°22'51.74" (110.381038°) |
| NAD 83 (BOTTOM HOLE LOCATION) |
| LATITUDE = 40°12'07.57" (40.202104°) |
| LONGITUDE = 110°22'56.88" (110.382468°) |
| NAD 27 (BOTTOM HOLE LOCATION) |
| LATITUDE = 40°12'07.73" (40.202147°) |
| LONGITUDE = 110°22'54.32" (110.381757°) |

TRI STATE LAND SURVEYING & CONSULTING

180 NORTH VERNAL AVE. - VERNAL, UTAH 84078
(435) 781-2501

| | |
|----------------------------|-------------------|
| DATE SURVEYED: 12-30-14 | SURVEYED BY: M.C. |
| DATE DRAWN: 02-12-15 | DRAWN BY: F.T.M. |
| REVISED: | SCALE: 1" = 1000' |

Access Road Map



Legend

- Existing Road
- Existing Road To Be Upgraded
- Proposed Road

**Tri State
Land Surveying, Inc.**
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

P: (435) 781-2501
F: (435) 781-2518

| | | | |
|-----------|-----------|----------|-----------------|
| DRAWN BY: | D.C.R. | REVISED: | 03-13-15 J.A.S. |
| DATE: | 02-16-15 | | |
| SCALE: | 1:100,000 | | |



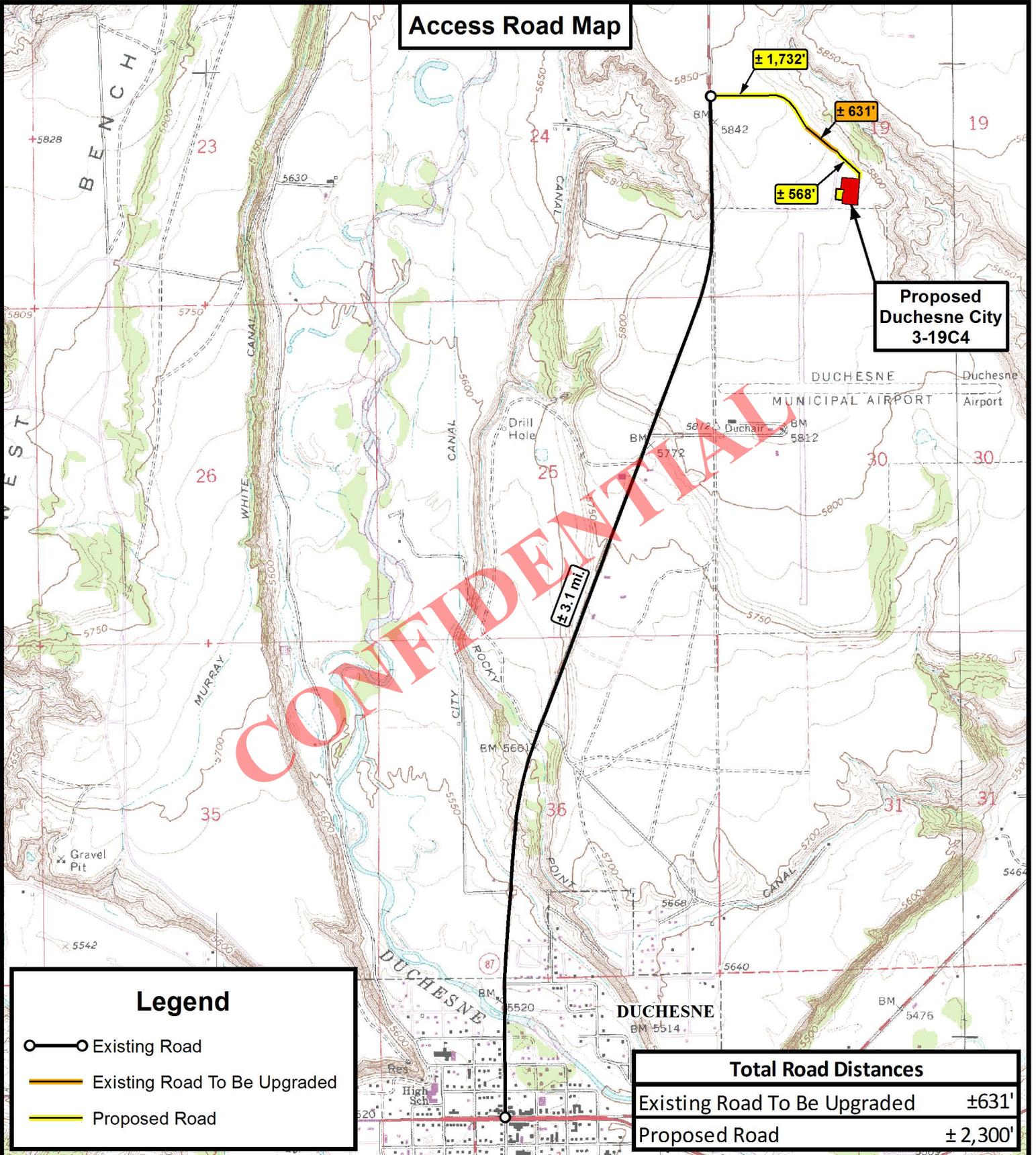
EP ENERGY E&P COMPANY, L.P.

Proposed Duchesne City 3-19C4
Sec. 19, T3S, R4W, U.S.B.&M.
Duchesne County, UT.

TOPOGRAPHIC MAP

SHEET
A

Access Road Map



**Proposed
Duchesne City
3-19C4**

CONFIDENTIAL

± 3.1 mi.

Legend

- Existing Road
- Existing Road To Be Upgraded
- Proposed Road

| Total Road Distances | |
|------------------------------|----------|
| Existing Road To Be Upgraded | ±631' |
| Proposed Road | ± 2,300' |



**Tri State
Land Surveying, Inc.**
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

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EP ENERGY E&P COMPANY, L.P.
Proposed Duchesne City 3-19C4
Sec. 19, T3S, R4W, U.S.B.&M.
Duchesne County, UT.

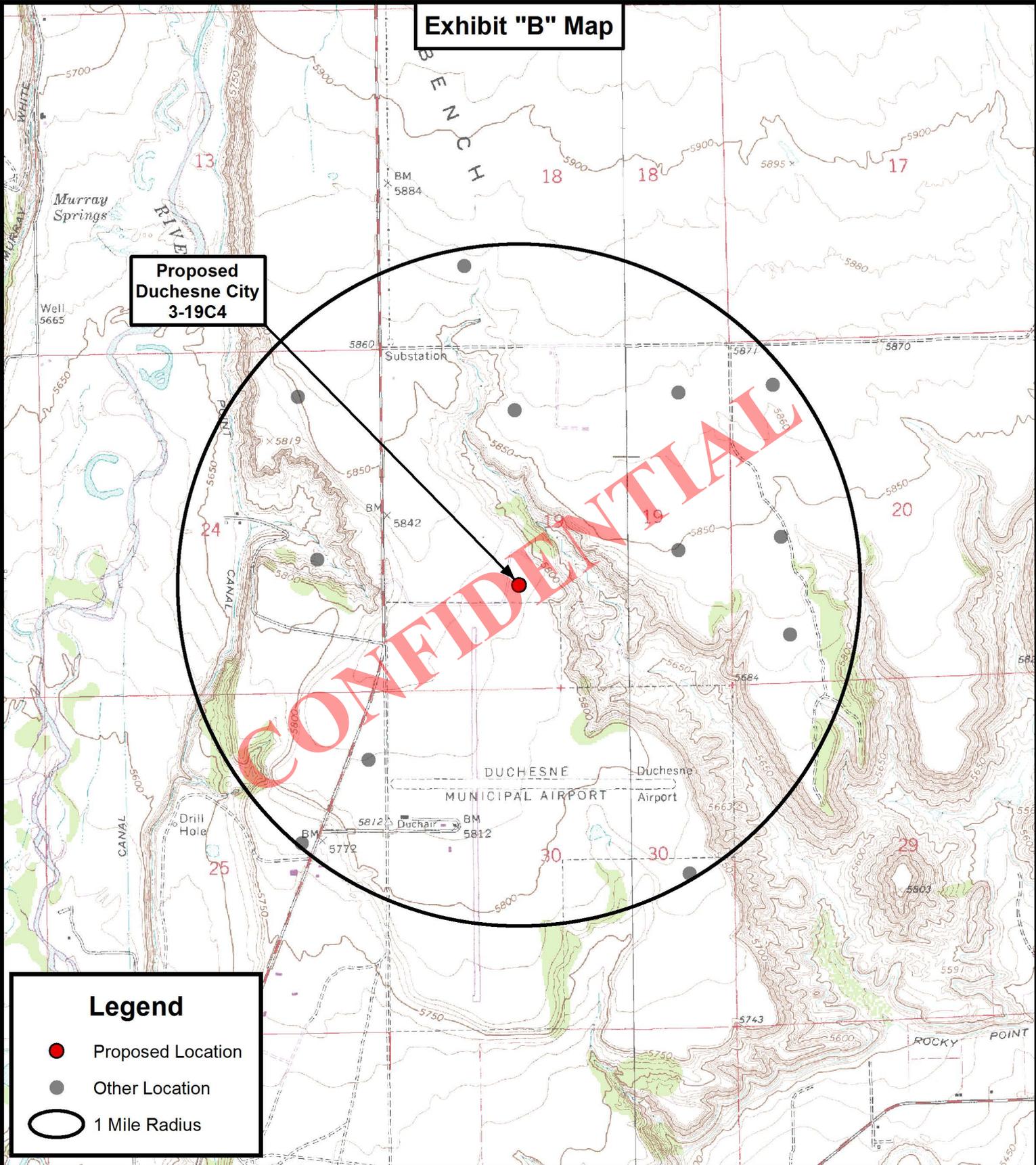
| | | | |
|-----------|-------------|----------|-----------------|
| DRAWN BY: | D.C.R. | REVISED: | 03-13-15 J.A.S. |
| DATE: | 02-16-15 | | |
| SCALE: | 1" = 2,000' | | |

TOPOGRAPHIC MAP

**SHEET
B**

Exhibit "B" Map

**Proposed
Duchesne City
3-19C4**



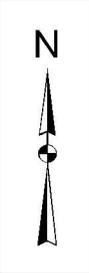
Legend

- Proposed Location
- Other Location
- 1 Mile Radius



**Tri State
Land Surveying, Inc.**
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

P: (435) 781-2501
F: (435) 781-2518



EP ENERGY E&P COMPANY, L.P.

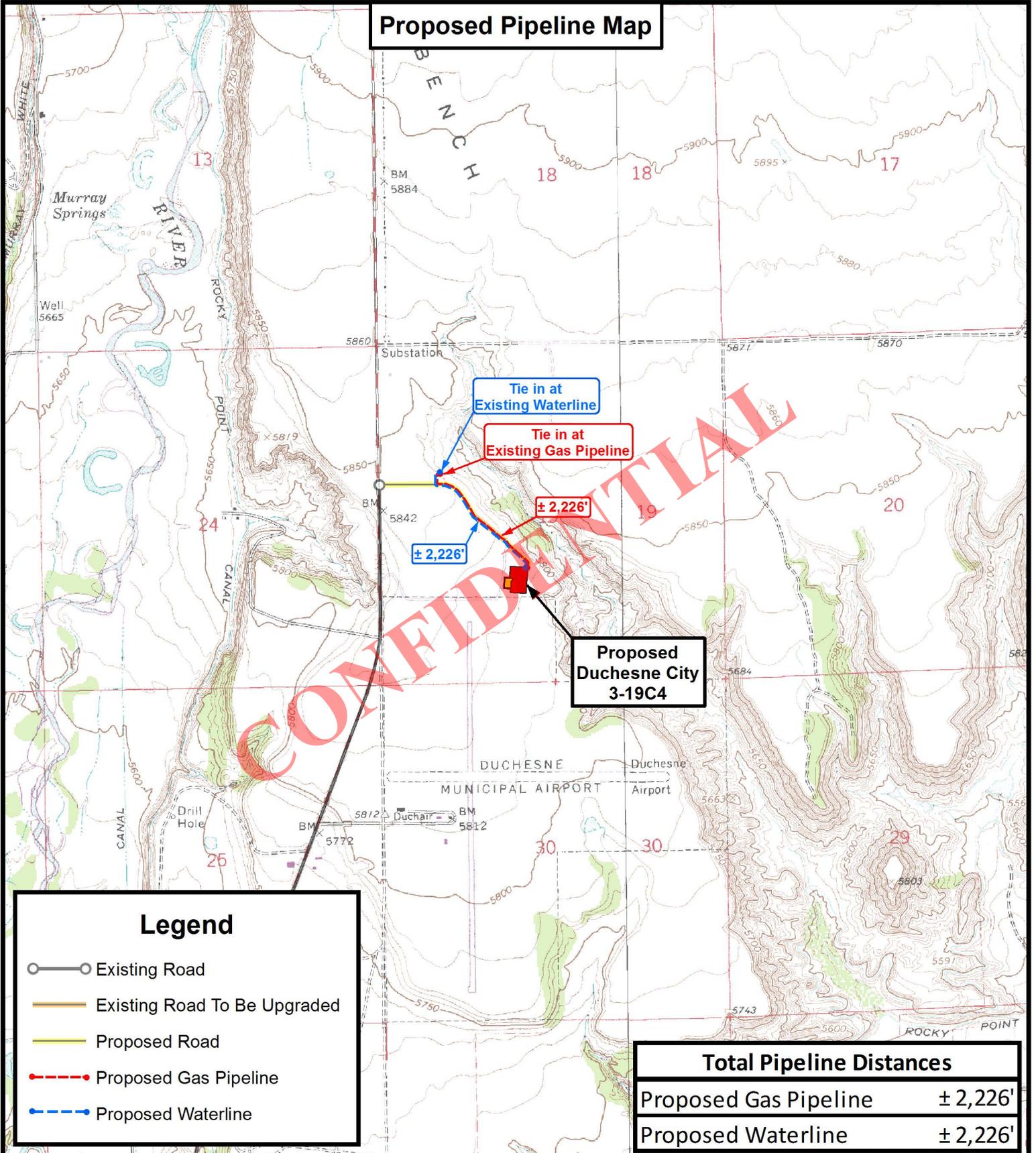
Proposed Duchesne City 3-19C4
Sec. 19, T3S, R4W, U.S.B.&M.
Duchesne County, UT.

| | | | |
|-----------|-------------|----------|-----------------|
| DRAWN BY: | D.C.R. | REVISED: | 03-13-15 J.A.S. |
| DATE: | 02-16-15 | | |
| SCALE: | 1" = 2,000' | | |

TOPOGRAPHIC MAP

SHEET
C

Proposed Pipeline Map



Legend

- Existing Road
- Existing Road To Be Upgraded
- Proposed Road
- Proposed Gas Pipeline
- Proposed Waterline

Total Pipeline Distances

| | |
|-----------------------|----------|
| Proposed Gas Pipeline | ± 2,226' |
| Proposed Waterline | ± 2,226' |



**Tri State
Land Surveying, Inc.**

180 NORTH VERNAL AVE. VERNAL, UTAH 84078

P: (435) 781-2501
F: (435) 781-2518



EP ENERGY E&P COMPANY, L.P.

Proposed Duchesne City 3-19C4
Sec. 19, T3S, R4W, U.S.B.&M.
Duchesne County, UT.

| | | | |
|-----------|-------------|----------|-----------------|
| DRAWN BY: | D.C.R. | REVISED: | 03-13-15 J.A.S. |
| DATE: | 02-16-15 | | |
| SCALE: | 1" = 2,000' | | |

TOPOGRAPHIC MAP

SHEET
D

HEADER INFORMATION

Company: EP Energy E&P Company, L.P.

Field: Duchesne Co, UT

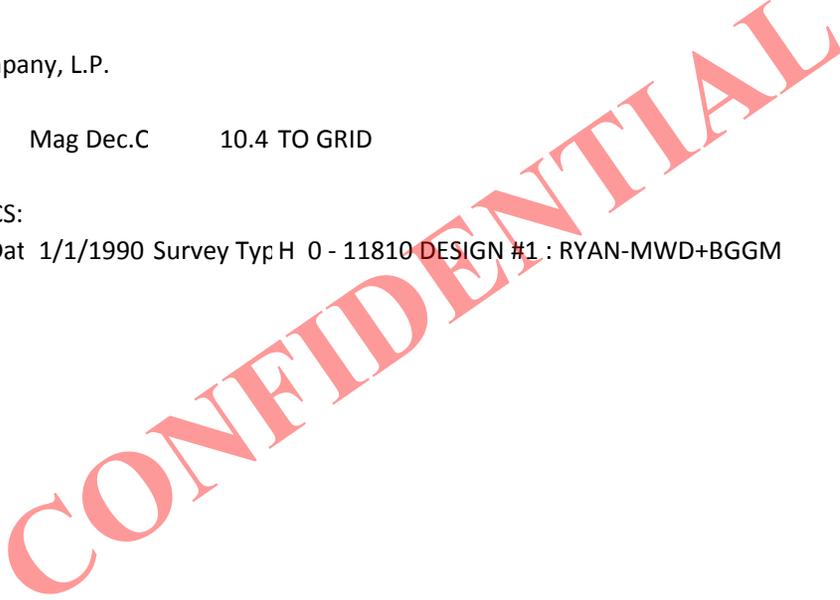
Site Name: Duchesne Mag Dec.C 10.4 TO GRID

Well Name 3-19C4

Wellpath NOH AFE / OCS:

Survey Nar Design #1 Survey Dat 1/1/1990 Survey Typ H 0 - 11810 DESIGN #1 : RYAN-MWD+BGGM

Depth Unit ft



SURFACE LOCATION

Site North 7244579

Site East 1952746

BOTTOM HOLE LOCATION

BHL MD 11810.31

BHL TVD 11800

WELL INFORMATION

Well North 7244579

Well East 1952746

Rig K.B: 5841

Vsec Angle 215.05

Vsec North 0

Vsec East: 0

SURVEY LIST

| MD | INC | AZI | TVD | NS | EW | VSEC | DLS | S/STVD | LeaseN/S | LeaseE/W | Northing | Easting | Latitude | Longitude |
|-----|-----|-----|-----|----|----|------|-----|--------|----------|----------|----------|---------|----------|------------------|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -5841 | 0 | 0 | 7244579 | 1952746 | 40° 12' | 110° 22' 54.30 W |
| 100 | 0 | 0 | 100 | 0 | 0 | 0 | 0 | -5741 | 0 | 0 | 7244579 | 1952746 | 40° 12' | 110° 22' 54.30 W |
| 200 | 0 | 0 | 200 | 0 | 0 | 0 | 0 | -5641 | 0 | 0 | 7244579 | 1952746 | 40° 12' | 110° 22' 54.30 W |
| 300 | 0 | 0 | 300 | 0 | 0 | 0 | 0 | -5541 | 0 | 0 | 7244579 | 1952746 | 40° 12' | 110° 22' 54.30 W |
| 400 | 0 | 0 | 400 | 0 | 0 | 0 | 0 | -5441 | 0 | 0 | 7244579 | 1952746 | 40° 12' | 110° 22' 54.30 W |
| 500 | 0 | 0 | 500 | 0 | 0 | 0 | 0 | -5341 | 0 | 0 | 7244579 | 1952746 | 40° 12' | 110° 22' 54.30 W |
| 600 | 0 | 0 | 600 | 0 | 0 | 0 | 0 | -5241 | 0 | 0 | 7244579 | 1952746 | 40° 12' | 110° 22' 54.30 W |
| 700 | 0 | 0 | 700 | 0 | 0 | 0 | 0 | -5141 | 0 | 0 | 7244579 | 1952746 | 40° 12' | 110° 22' 54.30 W |

| MD | INC | AZI | TVD | NS | EW | VSEC | DLS | S/STVD | LeaseN/S | LeaseE/W | Northing | Easting | Latitude | Longitude |
|---------|------|--------|---------|--------|--------|-------|-----|----------|----------|----------|----------|---------|----------|------------------|
| 800 | 0 | 0 | 800 | 0 | 0 | 0 | 0 | -5041 | 0 | 0 | 7244579 | 1952746 | 40° 12' | 110° 22' 54.30 W |
| 900 | 0 | 0 | 900 | 0 | 0 | 0 | 0 | -4941 | 0 | 0 | 7244579 | 1952746 | 40° 12' | 110° 22' 54.30 W |
| 1000 | 0 | 0 | 1000 | 0 | 0 | 0 | 0 | -4841 | 0 | 0 | 7244579 | 1952746 | 40° 12' | 110° 22' 54.30 W |
| 1100 | 0 | 0 | 1100 | 0 | 0 | 0 | 0 | -4741 | 0 | 0 | 7244579 | 1952746 | 40° 12' | 110° 22' 54.30 W |
| 1200 | 0 | 0 | 1200 | 0 | 0 | 0 | 0 | -4641 | 0 | 0 | 7244579 | 1952746 | 40° 12' | 110° 22' 54.30 W |
| 1300 | 0 | 0 | 1300 | 0 | 0 | 0 | 0 | -4541 | 0 | 0 | 7244579 | 1952746 | 40° 12' | 110° 22' 54.30 W |
| 1400 | 0 | 0 | 1400 | 0 | 0 | 0 | 0 | -4441 | 0 | 0 | 7244579 | 1952746 | 40° 12' | 110° 22' 54.30 W |
| 1500 | 0 | 0 | 1500 | 0 | 0 | 0 | 0 | -4341 | 0 | 0 | 7244579 | 1952746 | 40° 12' | 110° 22' 54.30 W |
| 1600 | 0 | 0 | 1600 | 0 | 0 | 0 | 0 | -4241 | 0 | 0 | 7244579 | 1952746 | 40° 12' | 110° 22' 54.30 W |
| 1700 | 0 | 0 | 1700 | 0 | 0 | 0 | 0 | -4141 | 0 | 0 | 7244579 | 1952746 | 40° 12' | 110° 22' 54.30 W |
| 1800 | 0 | 0 | 1800 | 0 | 0 | 0 | 0 | -4041 | 0 | 0 | 7244579 | 1952746 | 40° 12' | 110° 22' 54.30 W |
| 1900 | 0 | 0 | 1900 | 0 | 0 | 0 | 0 | -3941 | 0 | 0 | 7244579 | 1952746 | 40° 12' | 110° 22' 54.30 W |
| 2000 | 0 | 0 | 2000 | 0 | 0 | 0 | 0 | -3841 | 0 | 0 | 7244579 | 1952746 | 40° 12' | 110° 22' 54.30 W |
| 2100 | 0 | 0 | 2100 | 0 | 0 | 0 | 0 | -3741 | 0 | 0 | 7244579 | 1952746 | 40° 12' | 110° 22' 54.30 W |
| 2200 | 0 | 0 | 2200 | 0 | 0 | 0 | 0 | -3641 | 0 | 0 | 7244579 | 1952746 | 40° 12' | 110° 22' 54.30 W |
| 2250 | 0 | 0 | 2250 | 0 | 0 | 0 | 0 | -3591 | 0 | 0 | 7244579 | 1952746 | 40° 12' | 110° 22' 54.30 W |
| 2300 | 0.25 | 215.05 | 2300 | -0.09 | -0.06 | 0.11 | 0.5 | -3541 | -0.09 | -0.06 | 7244579 | 1952746 | 40° 12' | 110° 22' 54.30 W |
| 2400 | 0.75 | 215.05 | 2400 | -0.8 | -0.56 | 0.98 | 0.5 | -3441 | -0.8 | -0.56 | 7244579 | 1952746 | 40° 12' | 110° 22' 54.31 W |
| 2500 | 1.25 | 215.05 | 2499.98 | -2.23 | -1.57 | 2.73 | 0.5 | -3341.02 | -2.23 | -1.57 | 7244577 | 1952745 | 40° 12' | 110° 22' 54.32 W |
| 2600 | 1.75 | 215.05 | 2599.95 | -4.38 | -3.07 | 5.34 | 0.5 | -3241.05 | -4.38 | -3.07 | 7244575 | 1952743 | 40° 12' | 110° 22' 54.34 W |
| 2700 | 2.25 | 215.05 | 2699.88 | -7.23 | -5.07 | 8.83 | 0.5 | -3141.12 | -7.23 | -5.07 | 7244572 | 1952741 | 40° 12' | 110° 22' 54.37 W |
| 2800 | 2.75 | 215.05 | 2799.79 | -10.8 | -7.58 | 13.2 | 0.5 | -3041.21 | -10.8 | -7.58 | 7244568 | 1952739 | 40° 12' | 110° 22' 54.40 W |
| 2900 | 3.25 | 215.05 | 2899.65 | -15.09 | -10.58 | 18.43 | 0.5 | -2941.35 | -15.09 | -10.58 | 7244564 | 1952736 | 40° 12' | 110° 22' 54.44 W |
| 2956.93 | 3.53 | 215.05 | 2956.48 | -17.85 | -12.52 | 21.8 | 0.5 | -2884.52 | -17.85 | -12.52 | 7244561 | 1952734 | 40° 12' | 110° 22' 54.46 W |
| 3000 | 3.53 | 215.05 | 2999.47 | -20.02 | -14.04 | 24.45 | 0 | -2841.53 | -20.02 | -14.04 | 7244559 | 1952733 | 40° 12' | 110° 22' 54.48 W |
| 3100 | 3.53 | 215.05 | 3099.28 | -25.07 | -17.58 | 30.62 | 0 | -2741.72 | -25.07 | -17.58 | 7244554 | 1952729 | 40° 12' | 110° 22' 54.53 W |
| 3200 | 3.53 | 215.05 | 3199.09 | -30.11 | -21.13 | 36.78 | 0 | -2641.91 | -30.11 | -21.13 | 7244549 | 1952726 | 40° 12' | 110° 22' 54.57 W |
| 3300 | 3.53 | 215.05 | 3298.9 | -35.16 | -24.67 | 42.95 | 0 | -2542.1 | -35.16 | -24.67 | 7244544 | 1952722 | 40° 12' | 110° 22' 54.62 W |
| 3400 | 3.53 | 215.05 | 3398.71 | -40.21 | -28.21 | 49.11 | 0 | -2442.29 | -40.21 | -28.21 | 7244539 | 1952719 | 40° 12' | 110° 22' 54.66 W |
| 3500 | 3.53 | 215.05 | 3498.52 | -45.25 | -31.75 | 55.28 | 0 | -2342.48 | -45.25 | -31.75 | 7244534 | 1952715 | 40° 12' | 110° 22' 54.71 W |
| 3600 | 3.53 | 215.05 | 3598.33 | -50.3 | -35.29 | 61.45 | 0 | -2242.67 | -50.3 | -35.29 | 7244529 | 1952712 | 40° 12' | 110° 22' 54.75 W |
| 3700 | 3.53 | 215.05 | 3698.14 | -55.35 | -38.83 | 67.61 | 0 | -2142.86 | -55.35 | -38.83 | 7244524 | 1952708 | 40° 12' | 110° 22' 54.80 W |
| 3800 | 3.53 | 215.05 | 3797.95 | -60.4 | -42.37 | 73.78 | 0 | -2043.05 | -60.4 | -42.37 | 7244518 | 1952705 | 40° 12' | 110° 22' 54.85 W |
| 3900 | 3.53 | 215.05 | 3897.76 | -65.44 | -45.91 | 79.94 | 0 | -1943.24 | -65.44 | -45.91 | 7244513 | 1952701 | 40° 12' | 110° 22' 54.89 W |
| 4000 | 3.53 | 215.05 | 3997.57 | -70.49 | -49.45 | 86.11 | 0 | -1843.43 | -70.49 | -49.45 | 7244508 | 1952698 | 40° 12' | 110° 22' 54.94 W |
| 4100 | 3.53 | 215.05 | 4097.38 | -75.54 | -52.99 | 92.27 | 0 | -1743.62 | -75.54 | -52.99 | 7244503 | 1952694 | 40° 12' | 110° 22' 54.98 W |

| MD | INC | AZI | TVD | NS | EW | VSEC | DLS | S/STVD | LeaseN/S | LeaseE/W | Northing | Easting | Latitude | Longitude |
|------|------|--------|---------|---------|---------|--------|-----|----------|----------|----------|----------|---------|----------|------------------|
| 4200 | 3.53 | 215.05 | 4197.19 | -80.58 | -56.53 | 98.44 | 0 | -1643.81 | -80.58 | -56.53 | 7244498 | 1952691 | 40° 12' | 110° 22' 55.03 W |
| 4300 | 3.53 | 215.05 | 4297 | -85.63 | -60.07 | 104.6 | 0 | -1544 | -85.63 | -60.07 | 7244493 | 1952687 | 40° 12' | 110° 22' 55.07 W |
| 4400 | 3.53 | 215.05 | 4396.81 | -90.68 | -63.61 | 110.77 | 0 | -1444.19 | -90.68 | -63.61 | 7244488 | 1952684 | 40° 12' | 110° 22' 55.12 W |
| 4500 | 3.53 | 215.05 | 4496.62 | -95.73 | -67.15 | 116.93 | 0 | -1344.38 | -95.73 | -67.15 | 7244483 | 1952681 | 40° 12' | 110° 22' 55.17 W |
| 4600 | 3.53 | 215.05 | 4596.43 | -100.77 | -70.69 | 123.1 | 0 | -1244.57 | -100.77 | -70.69 | 7244478 | 1952677 | 40° 12' | 110° 22' 55.21 W |
| 4700 | 3.53 | 215.05 | 4696.24 | -105.82 | -74.24 | 129.26 | 0 | -1144.76 | -105.82 | -74.24 | 7244473 | 1952674 | 40° 12' | 110° 22' 55.26 W |
| 4800 | 3.53 | 215.05 | 4796.05 | -110.87 | -77.78 | 135.43 | 0 | -1044.95 | -110.87 | -77.78 | 7244468 | 1952670 | 40° 12' | 110° 22' 55.30 W |
| 4900 | 3.53 | 215.05 | 4895.86 | -115.91 | -81.32 | 141.59 | 0 | -945.14 | -115.91 | -81.32 | 7244462 | 1952667 | 40° 12' | 110° 22' 55.35 W |
| 5000 | 3.53 | 215.05 | 4995.67 | -120.96 | -84.86 | 147.76 | 0 | -845.33 | -120.96 | -84.86 | 7244457 | 1952663 | 40° 12' | 110° 22' 55.39 W |
| 5100 | 3.53 | 215.05 | 5095.47 | -126.01 | -88.4 | 153.92 | 0 | -745.53 | -126.01 | -88.4 | 7244452 | 1952660 | 40° 12' | 110° 22' 55.44 W |
| 5200 | 3.53 | 215.05 | 5195.28 | -131.06 | -91.94 | 160.09 | 0 | -645.72 | -131.06 | -91.94 | 7244447 | 1952656 | 40° 12' | 110° 22' 55.48 W |
| 5300 | 3.53 | 215.05 | 5295.09 | -136.1 | -95.48 | 166.25 | 0 | -545.91 | -136.1 | -95.48 | 7244442 | 1952653 | 40° 12' | 110° 22' 55.53 W |
| 5400 | 3.53 | 215.05 | 5394.9 | -141.15 | -99.02 | 172.42 | 0 | -446.1 | -141.15 | -99.02 | 7244437 | 1952649 | 40° 12' | 110° 22' 55.58 W |
| 5500 | 3.53 | 215.05 | 5494.71 | -146.2 | -102.56 | 178.58 | 0 | -346.29 | -146.2 | -102.56 | 7244432 | 1952646 | 40° 12' | 110° 22' 55.62 W |
| 5600 | 3.53 | 215.05 | 5594.52 | -151.24 | -106.1 | 184.75 | 0 | -246.48 | -151.24 | -106.1 | 7244427 | 1952642 | 40° 12' | 110° 22' 55.67 W |
| 5700 | 3.53 | 215.05 | 5694.33 | -156.29 | -109.64 | 190.91 | 0 | -146.67 | -156.29 | -109.64 | 7244422 | 1952639 | 40° 12' | 110° 22' 55.71 W |
| 5800 | 3.53 | 215.05 | 5794.14 | -161.34 | -113.18 | 197.08 | 0 | -46.86 | -161.34 | -113.18 | 7244417 | 1952635 | 40° 12' | 110° 22' 55.76 W |
| 5900 | 3.53 | 215.05 | 5893.95 | -166.39 | -116.72 | 203.24 | 0 | 52.95 | -166.39 | -116.72 | 7244412 | 1952632 | 40° 12' | 110° 22' 55.80 W |
| 6000 | 3.53 | 215.05 | 5993.76 | -171.43 | -120.26 | 209.41 | 0 | 152.76 | -171.43 | -120.26 | 7244406 | 1952628 | 40° 12' | 110° 22' 55.85 W |
| 6100 | 3.53 | 215.05 | 6093.57 | -176.48 | -123.8 | 215.58 | 0 | 252.57 | -176.48 | -123.8 | 7244401 | 1952625 | 40° 12' | 110° 22' 55.90 W |
| 6200 | 3.53 | 215.05 | 6193.38 | -181.53 | -127.34 | 221.74 | 0 | 352.38 | -181.53 | -127.34 | 7244396 | 1952621 | 40° 12' | 110° 22' 55.94 W |
| 6300 | 3.53 | 215.05 | 6293.19 | -186.57 | -130.89 | 227.91 | 0 | 452.19 | -186.57 | -130.89 | 7244391 | 1952618 | 40° 12' | 110° 22' 55.99 W |
| 6400 | 3.53 | 215.05 | 6393 | -191.62 | -134.43 | 234.07 | 0 | 552 | -191.62 | -134.43 | 7244386 | 1952614 | 40° 12' | 110° 22' 56.03 W |
| 6500 | 3.53 | 215.05 | 6492.81 | -196.67 | -137.97 | 240.24 | 0 | 651.81 | -196.67 | -137.97 | 7244381 | 1952611 | 40° 12' | 110° 22' 56.08 W |
| 6600 | 3.53 | 215.05 | 6592.62 | -201.72 | -141.51 | 246.4 | 0 | 751.62 | -201.72 | -141.51 | 7244376 | 1952607 | 40° 12' | 110° 22' 56.12 W |
| 6700 | 3.53 | 215.05 | 6692.43 | -206.76 | -145.05 | 252.57 | 0 | 851.43 | -206.76 | -145.05 | 7244371 | 1952604 | 40° 12' | 110° 22' 56.17 W |
| 6800 | 3.53 | 215.05 | 6792.24 | -211.81 | -148.59 | 258.73 | 0 | 951.24 | -211.81 | -148.59 | 7244366 | 1952601 | 40° 12' | 110° 22' 56.22 W |
| 6900 | 3.53 | 215.05 | 6892.05 | -216.86 | -152.13 | 264.9 | 0 | 1051.05 | -216.86 | -152.13 | 7244361 | 1952597 | 40° 12' | 110° 22' 56.26 W |
| 7000 | 3.53 | 215.05 | 6991.86 | -221.9 | -155.67 | 271.06 | 0 | 1150.86 | -221.9 | -155.67 | 7244356 | 1952594 | 40° 12' | 110° 22' 56.31 W |
| 7100 | 3.53 | 215.05 | 7091.67 | -226.95 | -159.21 | 277.23 | 0 | 1250.67 | -226.95 | -159.21 | 7244350 | 1952590 | 40° 12' | 110° 22' 56.35 W |
| 7200 | 3.53 | 215.05 | 7191.48 | -232 | -162.75 | 283.39 | 0 | 1350.48 | -232 | -162.75 | 7244345 | 1952587 | 40° 12' | 110° 22' 56.40 W |
| 7300 | 3.53 | 215.05 | 7291.29 | -237.05 | -166.29 | 289.56 | 0 | 1450.29 | -237.05 | -166.29 | 7244340 | 1952583 | 40° 12' | 110° 22' 56.44 W |
| 7400 | 3.53 | 215.05 | 7391.1 | -242.09 | -169.83 | 295.72 | 0 | 1550.1 | -242.09 | -169.83 | 7244335 | 1952580 | 40° 12' | 110° 22' 56.49 W |
| 7500 | 3.53 | 215.05 | 7490.91 | -247.14 | -173.37 | 301.89 | 0 | 1649.91 | -247.14 | -173.37 | 7244330 | 1952576 | 40° 12' | 110° 22' 56.53 W |
| 7600 | 3.53 | 215.05 | 7590.72 | -252.19 | -176.91 | 308.05 | 0 | 1749.72 | -252.19 | -176.91 | 7244325 | 1952573 | 40° 12' | 110° 22' 56.58 W |
| 7700 | 3.53 | 215.05 | 7690.53 | -257.23 | -180.45 | 314.22 | 0 | 1849.53 | -257.23 | -180.45 | 7244320 | 1952569 | 40° 12' | 110° 22' 56.63 W |

| MD | INC | AZI | TVD | NS | EW | VSEC | DLS | S/STVD | LeaseN/S | LeaseE/W | Northing | Easting | Latitude | Longitude |
|---------|------|--------|----------|---------|---------|--------|-----|---------|----------|----------|----------|---------|----------|------------------|
| 7800 | 3.53 | 215.05 | 7790.34 | -262.28 | -184 | 320.38 | 0 | 1949.34 | -262.28 | -184 | 7244315 | 1952566 | 40° 12' | 110° 22' 56.67 W |
| 7903.38 | 3.53 | 215.05 | 7893.52 | -267.5 | -187.66 | 326.76 | 0 | 2052.52 | -267.5 | -187.66 | 7244310 | 1952562 | 40° 12' | 110° 22' 56.72 W |
| 8000 | 3.05 | 215.05 | 7989.98 | -272.04 | -190.84 | 332.31 | 0.5 | 2148.98 | -272.04 | -190.84 | 7244305 | 1952559 | 40° 12' | 110° 22' 56.76 W |
| 8100 | 2.55 | 215.05 | 8089.86 | -276.04 | -193.65 | 337.2 | 0.5 | 2248.86 | -276.04 | -193.65 | 7244301 | 1952556 | 40° 12' | 110° 22' 56.80 W |
| 8200 | 2.05 | 215.05 | 8189.78 | -279.33 | -195.96 | 341.21 | 0.5 | 2348.78 | -279.33 | -195.96 | 7244298 | 1952554 | 40° 12' | 110° 22' 56.83 W |
| 8300 | 1.55 | 215.05 | 8289.73 | -281.9 | -197.76 | 344.35 | 0.5 | 2448.73 | -281.9 | -197.76 | 7244295 | 1952552 | 40° 12' | 110° 22' 56.85 W |
| 8400 | 1.05 | 215.05 | 8389.71 | -283.76 | -199.07 | 346.63 | 0.5 | 2548.71 | -283.76 | -199.07 | 7244293 | 1952551 | 40° 12' | 110° 22' 56.87 W |
| 8500 | 0.55 | 215.05 | 8489.7 | -284.91 | -199.87 | 348.02 | 0.5 | 2648.7 | -284.91 | -199.87 | 7244292 | 1952550 | 40° 12' | 110° 22' 56.88 W |
| 8600 | 0.05 | 215.05 | 8589.69 | -285.34 | -200.17 | 348.55 | 0.5 | 2748.69 | -285.34 | -200.17 | 7244292 | 1952550 | 40° 12' | 110° 22' 56.88 W |
| 8610.31 | 0 | 0 | 8600 | -285.34 | -200.17 | 348.56 | 0.5 | 2759 | -285.34 | -200.17 | 7244292 | 1952550 | 40° 12' | 110° 22' 56.88 W |
| 8700 | 0 | 0 | 8689.69 | -285.34 | -200.17 | 348.56 | 0 | 2848.69 | -285.34 | -200.17 | 7244292 | 1952550 | 40° 12' | 110° 22' 56.88 W |
| 8800 | 0 | 0 | 8789.69 | -285.34 | -200.17 | 348.56 | 0 | 2948.69 | -285.34 | -200.17 | 7244292 | 1952550 | 40° 12' | 110° 22' 56.88 W |
| 8900 | 0 | 0 | 8889.69 | -285.34 | -200.17 | 348.56 | 0 | 3048.69 | -285.34 | -200.17 | 7244292 | 1952550 | 40° 12' | 110° 22' 56.88 W |
| 9000 | 0 | 0 | 8989.69 | -285.34 | -200.17 | 348.56 | 0 | 3148.69 | -285.34 | -200.17 | 7244292 | 1952550 | 40° 12' | 110° 22' 56.88 W |
| 9100 | 0 | 0 | 9089.69 | -285.34 | -200.17 | 348.56 | 0 | 3248.69 | -285.34 | -200.17 | 7244292 | 1952550 | 40° 12' | 110° 22' 56.88 W |
| 9200 | 0 | 0 | 9189.69 | -285.34 | -200.17 | 348.56 | 0 | 3348.69 | -285.34 | -200.17 | 7244292 | 1952550 | 40° 12' | 110° 22' 56.88 W |
| 9300 | 0 | 0 | 9289.69 | -285.34 | -200.17 | 348.56 | 0 | 3448.69 | -285.34 | -200.17 | 7244292 | 1952550 | 40° 12' | 110° 22' 56.88 W |
| 9400 | 0 | 0 | 9389.69 | -285.34 | -200.17 | 348.56 | 0 | 3548.69 | -285.34 | -200.17 | 7244292 | 1952550 | 40° 12' | 110° 22' 56.88 W |
| 9500 | 0 | 0 | 9489.69 | -285.34 | -200.17 | 348.56 | 0 | 3648.69 | -285.34 | -200.17 | 7244292 | 1952550 | 40° 12' | 110° 22' 56.88 W |
| 9600 | 0 | 0 | 9589.69 | -285.34 | -200.17 | 348.56 | 0 | 3748.69 | -285.34 | -200.17 | 7244292 | 1952550 | 40° 12' | 110° 22' 56.88 W |
| 9700 | 0 | 0 | 9689.69 | -285.34 | -200.17 | 348.56 | 0 | 3848.69 | -285.34 | -200.17 | 7244292 | 1952550 | 40° 12' | 110° 22' 56.88 W |
| 9800 | 0 | 0 | 9789.69 | -285.34 | -200.17 | 348.56 | 0 | 3948.69 | -285.34 | -200.17 | 7244292 | 1952550 | 40° 12' | 110° 22' 56.88 W |
| 9900 | 0 | 0 | 9889.69 | -285.34 | -200.17 | 348.56 | 0 | 4048.69 | -285.34 | -200.17 | 7244292 | 1952550 | 40° 12' | 110° 22' 56.88 W |
| 10000 | 0 | 0 | 9989.69 | -285.34 | -200.17 | 348.56 | 0 | 4148.69 | -285.34 | -200.17 | 7244292 | 1952550 | 40° 12' | 110° 22' 56.88 W |
| 10100 | 0 | 0 | 10089.69 | -285.34 | -200.17 | 348.56 | 0 | 4248.69 | -285.34 | -200.17 | 7244292 | 1952550 | 40° 12' | 110° 22' 56.88 W |
| 10200 | 0 | 0 | 10189.69 | -285.34 | -200.17 | 348.56 | 0 | 4348.69 | -285.34 | -200.17 | 7244292 | 1952550 | 40° 12' | 110° 22' 56.88 W |
| 10300 | 0 | 0 | 10289.69 | -285.34 | -200.17 | 348.56 | 0 | 4448.69 | -285.34 | -200.17 | 7244292 | 1952550 | 40° 12' | 110° 22' 56.88 W |
| 10400 | 0 | 0 | 10389.69 | -285.34 | -200.17 | 348.56 | 0 | 4548.69 | -285.34 | -200.17 | 7244292 | 1952550 | 40° 12' | 110° 22' 56.88 W |
| 10500 | 0 | 0 | 10489.69 | -285.34 | -200.17 | 348.56 | 0 | 4648.69 | -285.34 | -200.17 | 7244292 | 1952550 | 40° 12' | 110° 22' 56.88 W |
| 10600 | 0 | 0 | 10589.69 | -285.34 | -200.17 | 348.56 | 0 | 4748.69 | -285.34 | -200.17 | 7244292 | 1952550 | 40° 12' | 110° 22' 56.88 W |
| 10700 | 0 | 0 | 10689.69 | -285.34 | -200.17 | 348.56 | 0 | 4848.69 | -285.34 | -200.17 | 7244292 | 1952550 | 40° 12' | 110° 22' 56.88 W |
| 10800 | 0 | 0 | 10789.69 | -285.34 | -200.17 | 348.56 | 0 | 4948.69 | -285.34 | -200.17 | 7244292 | 1952550 | 40° 12' | 110° 22' 56.88 W |
| 10900 | 0 | 0 | 10889.69 | -285.34 | -200.17 | 348.56 | 0 | 5048.69 | -285.34 | -200.17 | 7244292 | 1952550 | 40° 12' | 110° 22' 56.88 W |
| 11000 | 0 | 0 | 10989.69 | -285.34 | -200.17 | 348.56 | 0 | 5148.69 | -285.34 | -200.17 | 7244292 | 1952550 | 40° 12' | 110° 22' 56.88 W |
| 11100 | 0 | 0 | 11089.69 | -285.34 | -200.17 | 348.56 | 0 | 5248.69 | -285.34 | -200.17 | 7244292 | 1952550 | 40° 12' | 110° 22' 56.88 W |
| 11200 | 0 | 0 | 11189.69 | -285.34 | -200.17 | 348.56 | 0 | 5348.69 | -285.34 | -200.17 | 7244292 | 1952550 | 40° 12' | 110° 22' 56.88 W |

| MD | INC | AZI | TVD | NS | EW | VSEC | DLS | S/STVD | LeaseN/S | LeaseE/W | Northing | Easting | Latitude | Longitude |
|----------|-----|-----|----------|---------|---------|--------|-----|---------|----------|----------|----------|---------|----------|------------------|
| 11300 | 0 | 0 | 11289.69 | -285.34 | -200.17 | 348.56 | 0 | 5448.69 | -285.34 | -200.17 | 7244292 | 1952550 | 40° 12' | 110° 22' 56.88 W |
| 11400 | 0 | 0 | 11389.69 | -285.34 | -200.17 | 348.56 | 0 | 5548.69 | -285.34 | -200.17 | 7244292 | 1952550 | 40° 12' | 110° 22' 56.88 W |
| 11500 | 0 | 0 | 11489.69 | -285.34 | -200.17 | 348.56 | 0 | 5648.69 | -285.34 | -200.17 | 7244292 | 1952550 | 40° 12' | 110° 22' 56.88 W |
| 11600 | 0 | 0 | 11589.69 | -285.34 | -200.17 | 348.56 | 0 | 5748.69 | -285.34 | -200.17 | 7244292 | 1952550 | 40° 12' | 110° 22' 56.88 W |
| 11700 | 0 | 0 | 11689.69 | -285.34 | -200.17 | 348.56 | 0 | 5848.69 | -285.34 | -200.17 | 7244292 | 1952550 | 40° 12' | 110° 22' 56.88 W |
| 11800 | 0 | 0 | 11789.69 | -285.34 | -200.17 | 348.56 | 0 | 5948.69 | -285.34 | -200.17 | 7244292 | 1952550 | 40° 12' | 110° 22' 56.88 W |
| 11810.31 | 0 | 0 | 11800 | -285.34 | -200.17 | 348.56 | 0 | 5959 | -285.34 | -200.17 | 7244292 | 1952550 | 40° 12' | 110° 22' 56.88 W |

CONFIDENTIAL

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 .44 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 .42 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:

Duchesne City Corporation
500 East Main Street
Duchesne, Utah 84021
435-738-2464

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



April 9, 2015

Mr. Brad Hill
Utah Division of Oil, Gas & Mining
1594 West North Temple, Suite 1210
P.O. Box 145801
Salt Lake City, Utah 84116-5801

RE: Directional Well
Duchesne City 3-19C4
Surface Hole Location: 1,583' FSL, 2101' FWL (NESW) Section 19-3S-4W
Bottom Hole Location: 1,300' FSL, 1,900' FWL (SESW) Section 19-3S-4W
U.S.B.&M. Duchesne County, Utah

Dear Mr. Hill,

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

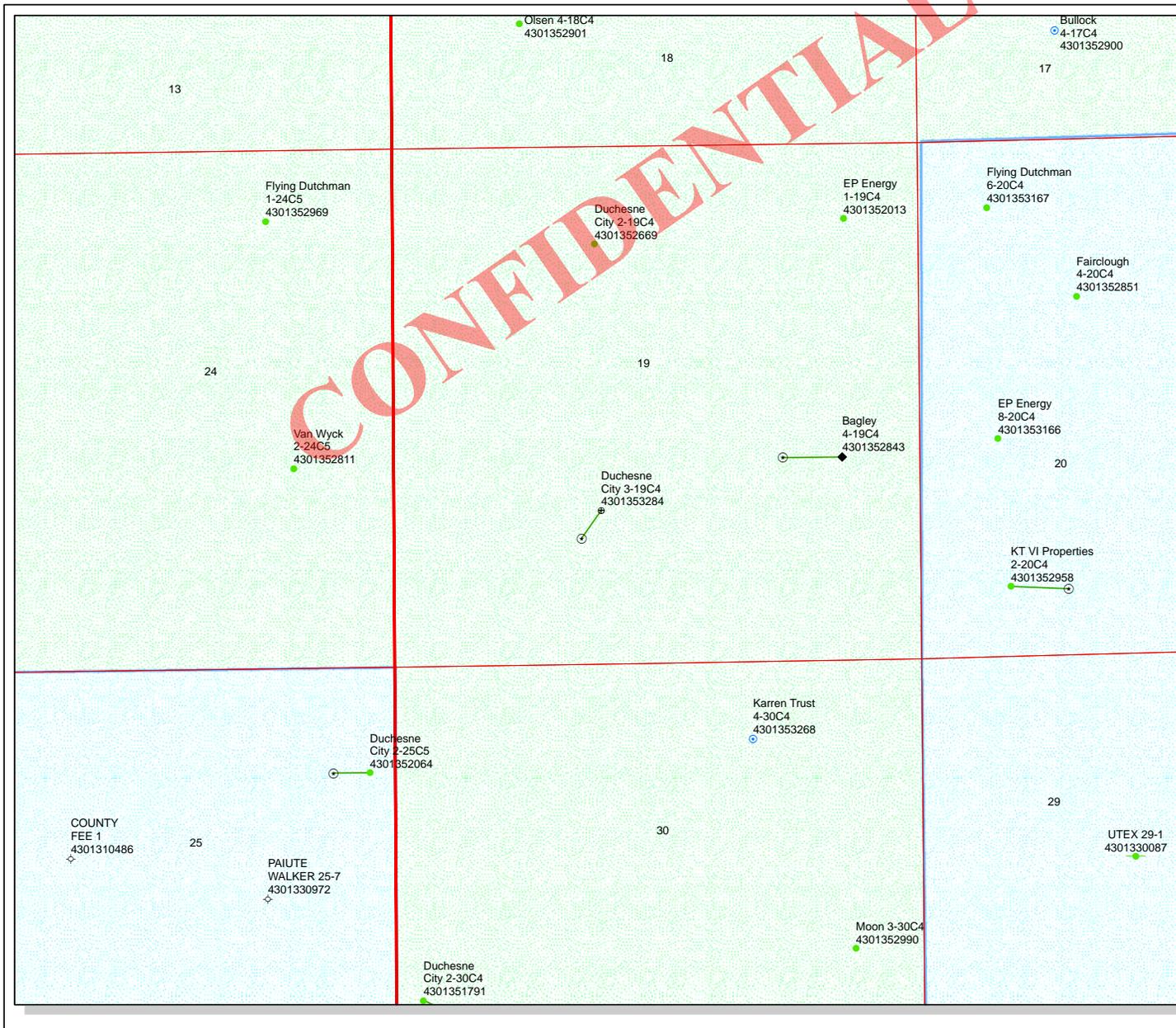
We plan to drill the above referenced well as directional well due to its proximity to the Duchesne City Airport runway.

EPE hereby certifies that EPE owns rights to existing oil and gas leases under all tracts that are on or within 460' of the proposed wellbore path to drill and produce. All such tracts are entirely within the 640 acre drilling unit for the well.

Regards,

A handwritten signature in blue ink, appearing to read "Michael J. Walcher".

Michael J. Walcher
Land Advisor
713-997-5476
Michael.Walcher@EpEnergy.com



API Number: 4301353284

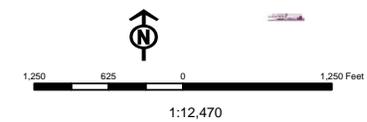
Well Name: Duchesne City 3-19C4

Township: T03.0S Range: R04.0W Section: 19 Meridian: U

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

Map Prepared: 4/16/2015
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 GEOTHERMAL | □ |
| ● 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 | □ |



| | | | | |
|--|--|-------|-------|-------|
| Well Name | EP ENERGY E&P COMPANY, L.P. Duchesne City 3-19C4 43013532840 | | | |
| String | COND | SURF | I1 | L1 |
| Casing Size(") | 13.375 | 9.625 | 7.000 | 5.000 |
| Setting Depth (TVD) | 600 | 2200 | 8600 | 11800 |
| Previous Shoe Setting Depth (TVD) | 0 | 600 | 2200 | 8600 |
| Max Mud Weight (ppg) | 8.3 | 8.3 | 10.5 | 12.0 |
| BOPE Proposed (psi) | 0 | 1000 | 10000 | 10000 |
| Casing Internal Yield (psi) | 2730 | 5750 | 11220 | 13940 |
| Operators Max Anticipated Pressure (psi) | 7363 | | | 12.0 |

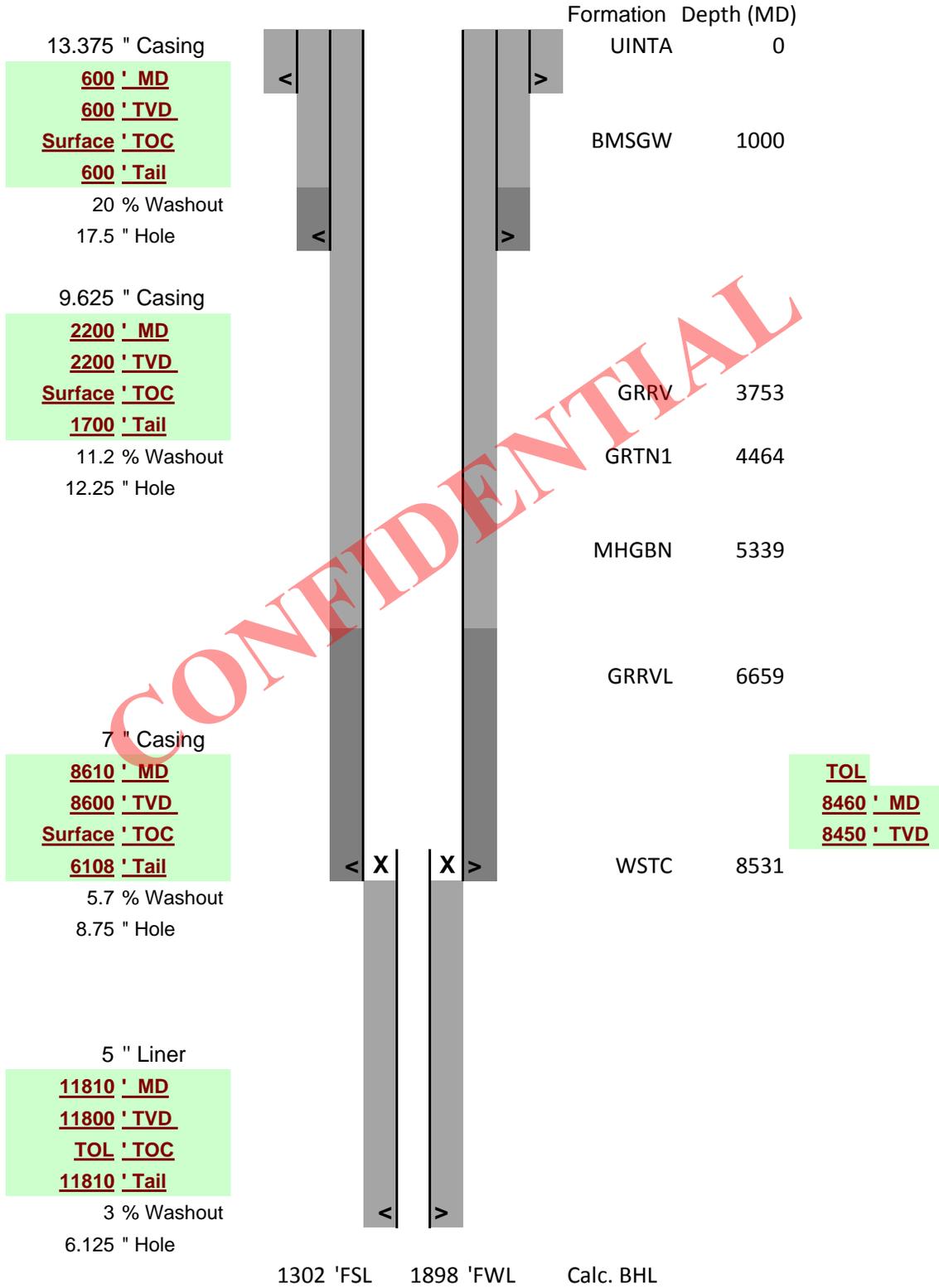
| | | | |
|---|--|--------|---|
| Calculations | COND String | 13.375 | " |
| Max BHP (psi) | .052*Setting Depth*MW= | 259 | |
| | | | BOPE Adequate For Drilling And Setting Casing at Depth? |
| MASP (Gas) (psi) | Max BHP-(0.12*Setting Depth)= | 187 | NO |
| MASP (Gas/Mud) (psi) | Max BHP-(0.22*Setting Depth)= | 127 | NO |
| | | | *Can Full Expected Pressure Be Held At Previous Shoe? |
| Pressure At Previous Shoe | Max BHP-.22*(Setting Depth - Previous Shoe Depth)= | 127 | NO OK |
| Required Casing/BOPE Test Pressure= | | 600 | psi |
| *Max Pressure Allowed @ Previous Casing Shoe= | | 0 | psi *Assumes 1psi/ft frac gradient |

| | | | |
|---|--|-------|---|
| Calculations | SURF String | 9.625 | " |
| Max BHP (psi) | .052*Setting Depth*MW= | 950 | |
| | | | BOPE Adequate For Drilling And Setting Casing at Depth? |
| MASP (Gas) (psi) | Max BHP-(0.12*Setting Depth)= | 686 | YES rotating head (diverter stack) |
| MASP (Gas/Mud) (psi) | Max BHP-(0.22*Setting Depth)= | 466 | YES OK |
| | | | *Can Full Expected Pressure Be Held At Previous Shoe? |
| Pressure At Previous Shoe | Max BHP-.22*(Setting Depth - Previous Shoe Depth)= | 598 | YES OK |
| Required Casing/BOPE Test Pressure= | | 2200 | psi |
| *Max Pressure Allowed @ Previous Casing Shoe= | | 600 | psi *Assumes 1psi/ft frac gradient |

| | | | |
|---|--|-------|---|
| Calculations | I1 String | 7.000 | " |
| Max BHP (psi) | .052*Setting Depth*MW= | 4696 | |
| | | | BOPE Adequate For Drilling And Setting Casing at Depth? |
| MASP (Gas) (psi) | Max BHP-(0.12*Setting Depth)= | 3664 | YES 10M rams, 5M annular |
| MASP (Gas/Mud) (psi) | Max BHP-(0.22*Setting Depth)= | 2804 | YES OK |
| | | | *Can Full Expected Pressure Be Held At Previous Shoe? |
| Pressure At Previous Shoe | Max BHP-.22*(Setting Depth - Previous Shoe Depth)= | 3288 | NO OK |
| Required Casing/BOPE Test Pressure= | | 7854 | psi |
| *Max Pressure Allowed @ Previous Casing Shoe= | | 2200 | psi *Assumes 1psi/ft frac gradient |

| | | | |
|---|--|-------|---|
| Calculations | L1 String | 5.000 | " |
| Max BHP (psi) | .052*Setting Depth*MW= | 7363 | |
| | | | BOPE Adequate For Drilling And Setting Casing at Depth? |
| MASP (Gas) (psi) | Max BHP-(0.12*Setting Depth)= | 5947 | YES 10M rams, 5M annular |
| MASP (Gas/Mud) (psi) | Max BHP-(0.22*Setting Depth)= | 4767 | YES OK |
| | | | *Can Full Expected Pressure Be Held At Previous Shoe? |
| Pressure At Previous Shoe | Max BHP-.22*(Setting Depth - Previous Shoe Depth)= | 6659 | YES |
| Required Casing/BOPE Test Pressure= | | 9758 | psi |
| *Max Pressure Allowed @ Previous Casing Shoe= | | 8600 | psi *Assumes 1psi/ft frac gradient |

**EP ENERGY E&P COMPANY, L.P.
Duchesne City 3-19C4
43013532840000**



Blue Bench 13-1 SWD 1.6 miles NW, 4106'-7528'

**EP ENERGY E&P COMPANY, L.P.
Duchesne City 3-19C4
43013532840000**

| | | 1.125 | | | 1 | | | 1.8 | | | | |
|------------------------|----------|-------------------------|---------------------|--------------------|--------------------------|------------------|-----------|-------------------------|------------------|--------------------|--------------------|-----------------------|
| | MAASP | Collapse Strength (psi) | Collapse Load (psi) | Collapse DF | Burst Strength (psi) | Burst Load (psi) | Burst DF | Tension Strength (kips) | Tension DF | Neutral Point (ft) | Tension Air (kips) | Tension Buoyed (kips) |
| 13.375 " Casing | 187 | 1130 | 259 | 4.37 | 2730 | 597 | 4.58 | 514 | 15.72 | 524 | 32.7 | 28.7 |
| | MW (ppg) | Internal Grad. (psi) | Backup Mud (ppg) | Internal Mud (ppg) | Max Shoe Pressure (psi)* | CSG Wt (lbs/ft) | CSG Grade | CSG Collar | Cement Lead (sx) | Lead Yield | Cement Tail (sx) | Tail Yield |
| | 8.3 | 0.12 | 0.0 | 0.0 | 597 | 55 | J-55 | STC | 758 | 1.15 | 0 | 0.00 |
| | MAASP | Collapse Strength (psi) | Collapse Load (psi) | Collapse DF | Burst Strength (psi) | Burst Load (psi) | Burst DF | Tension Strength (kips) | Tension DF | Neutral Point (ft) | Tension Air (kips) | Tension Buoyed (kips) |
| 9.625 " Casing | 465 | 3090 | 949 | 3.26 | 5750 | 2200 | 2.61 | 737 | 9.55 | 1921 | 88.0 | 77.1 |
| | MW (ppg) | Internal Grad. (psi) | Backup Mud (ppg) | Internal Mud (ppg) | Max Shoe Pressure (psi)* | CSG Wt (lbs/ft) | CSG Grade | CSG Collar | Cement Lead (sx) | Lead Yield | Cement Tail (sx) | Tail Yield |
| | 8.3 | 0.22 | 0.0 | 0.0 | 3283 | 40.0 | N-80 | LTC | 473 | 2.36 | 195 | 1.30 |
| | MAASP | Collapse Strength (psi) | Collapse Load (psi) | Collapse DF | Burst Strength (psi) | Burst Load (psi) | Burst DF | Tension Strength (kips) | Tension DF | Neutral Point (ft) | Tension Air (kips) | Tension Buoyed (kips) |
| 7 " Casing | 4760 | 9200 | 4691 | 1.96 | 11220 | 6652 | 1.69 | 797 | 3.79 | 7219 | 249.7 | 210.1 |
| | MW (ppg) | Internal Grad. (psi) | Backup Mud (ppg) | Internal Mud (ppg) | Max Shoe Pressure (psi)* | CSG Wt (lbs/ft) | CSG Grade | CSG Collar | Cement Lead (sx) | Lead Yield | Cement Tail (sx) | Tail Yield |
| | 10.5 | 0.22 | 0.0 | 0.0 | 6652 | 29.0 | HCP-110 | LTC | 597.0 | 1.91 | 304.0 | 1.64 |
| | MAASP | Collapse Strength (psi) | Collapse Load (psi) | Collapse DF | Burst Strength (psi) | Burst Load (psi) | Burst DF | Tension Strength (kips) | Tension DF | Neutral Point (ft) | Tension Air (kips) | Tension Buoyed (kips) |
| 5 " Casing | 4760 | 13418 | 7356 | 1.82 | 13940 | 7356 | 1.90 | 495 | 10.04 | 11195 | 60.3 | 49.3 |
| | MW (ppg) | Internal Grad. (psi) | Backup Mud (ppg) | Internal Mud (ppg) | Max Shoe Pressure (psi)* | CSG Wt (lbs/ft) | CSG Grade | CSG Collar | Cement Lead (sx) | Lead Yield | Cement Tail (sx) | Tail Yield |
| | 12.0 | 0.22 | 0.0 | 0.0 | 8460 | 18.0 | HCP-110 | LTC | 200.0 | 1.52 | 0.0 | 0.00 |

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator EP ENERGY E&P COMPANY, L.P.
Well Name Duchesne City 3-19C4
API Number 43013532840000 **APD No** 11145 **Field/Unit** ALTAMONT
Location: 1/4,1/4 NESW **Sec** 19 **Tw** 3.0S **Rng** 4.0W 1583 FSL 2101 FWL
GPS Coord (UTM) 552616 4450459 **Surface Owner** Duchesne City Corporation

Participants

Rojean Rowley & Richard Ivie (Duchesne City property); Randy Fredrick (EP Energy Construction); Jeff Crozier (EP Energy Permitting); Dennis Ingram (Utah Division of Oil, Gas & Mining)

Regional/Local Setting & Topography

The Duchesne City 3-19C4 well is proposed in northeastern Utah and can be accessed by turning north off U.S. Highway 40 onto Highway 87 for 3.2 miles where an existing access road will be upgraded to the east for 0.4 miles and the new road will lead southeast into the well site. This well is located along the eastern side of bench property that drops into a large southeasterly drainage that continues past Rocky Point into the Duchesne Flood Plain east of that town some 1.20 miles away. The Duchesne City Airport has a North/South runway or paved landing strip that ends seven to eight hundred feet to the southwest of this proposed well site. The immediate surface is nearly flat and slopes gently to the southeast, showing a 2,6 foot cut along the northwestern corner and 2.7 feet fill to make a level surface. This pad is located approximately 0.40 miles east of Highway 87 along the western side of a fingered canyon that drains southeasterly toward the Duchesne River Corridor 1.40 miles down country. The lands north and northeast of this well staking is typical Blue Bench looking country.

Surface Use Plan

Current Surface Use
 Wildlife Habitat

| New Road Miles | Well Pad | Src Const Material | Surface Formation |
|----------------|-------------------------|--------------------|-------------------|
| 0.11 | Width 282 Length 410 | Onsite | UNTA |

Ancillary Facilities N

Moved access road stakes thirty feet west of staking to prevent removal of cedar trees which is utilized as a wind break to help prevent snow drifts along road or dug way to the east (at landowner request)

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

Scattered sagebrush, bunch grass, cedar trees along east or northeastern side;

Potential mule deer, coyote, jack & cottontail rabbit, fox, horned toad, prairie dog, hawk, owl or eagle potential but not within a mile of location.

Soil Type and Characteristics

Reddish to light brown in color, fine grained sandy loam with some clays and underlying cobbles.

Erosion Issues N

Sedimentation Issues N

Site Stability Issues N

Drainage Diversion Required? N

Berm Required? Y

Erosion Sedimentation Control Required? N

Paleo Survey Run? N **Paleo Potential Observed?** N **Cultural Survey Run?** N **Cultural Resources?** N

Reserve Pit

Site-Specific Factors

Site Ranking

| | | |
|--|-------------------|----|
| Distance to Groundwater (feet) | >200 | 0 |
| Distance to Surface Water (feet) | >1000 | 0 |
| Dist. Nearest Municipal Well (ft) | 1320 to 5280 | 5 |
| Distance to Other Wells (feet) | >1320 | 0 |
| Native Soil Type | High permeability | 20 |
| Fluid Type | Fresh Water | 5 |
| Drill Cuttings | Normal Rock | 0 |
| Annual Precipitation (inches) | | 0 |
| Affected Populations | | |
| Presence Nearby Utility Conduits | Present | 15 |
| Final Score | | 45 |

1 Sensitivity Level

Characteristics / Requirements

Proposed reserve pit off west side of location in cut, measuring 110' wide by 150' long by 12' deep.

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

Other Observations / Comments

EP Energy did obtain a permit for access leaving Highway 87 easterly with a Traffic Control plan which was attached to the permit. EP energy is still awaiting a permit from the FFA regarding the Duchesne City Airport to the southwest. The access road was staked along the eastern slopes of this bench where it breaks off into an adjacent canyon, requiring cedar tree removal. The adjacent landowner ask the road be moved to the west to protect the trees which acts as a wind block during snow storms and prevents drifting along his access road on the dugway to the east. EP Energy and Duchesne City agreed to move the road twenty or thirty feet.

Dennis Ingram
Evaluator

4/29/2015
Date / Time

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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 |
|------------------|--|--------|--------------------------|---------------------------|-----|
| 11145 | 43013532840000 | LOCKED | OW | P | No |
| Operator | EP ENERGY E&P COMPANY, L.P. | | Surface Owner-APD | Duchesne City Corporation | |
| Well Name | Duchesne City 3-19C4 | | Unit | | |
| Field | ALTAMONT | | Type of Work | DRILL | |
| Location | NESW 19 3S 4W U 1583 FSL (UTM) 552622E 4450455N | | 2101 FWL | GPS Coord | |

Geologic Statement of Basis

EP proposes to set 60 feet of conductor and 2,200 feet of surface casing both of which will be cemented to surface. The surface and intermediate holes will be drilled with air. 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 17 water wells within a 10,000 foot radius of the center of Section 19. These wells probably produce water from the Duchesne River Formation and associated alluvium. Depths of the wells fall in the range of 30-400 feet. Depth is not listed for 1 well. The wells are listed as being used for irrigation, stock watering, municipal and domestic. The conductor pipe should be extended or the surface casing should be shortened to more closely match the base of the moderately saline ground water.

Brad Hill
APD Evaluator

5/7/2015
Date / Time

Surface Statement of Basis

Surface slopes gently to the southeast and does not have any drainage issues. Production tanks and facility is planned along the eastern side of location where the surface does begin a elevation drop into an adjacent canyon. Therefore the operator shall take special care to construct and maintain a berm that will prevent any future spills from leaving the location to the east. The access road staking was moved by EP Energy construction twenty or thirty feet to the west at the adjacent landowner request to prevent the need to remove cedar trees along the edge of the canyon rim which act as a wind block to prevent snow drifts along his access road. Duchesne City representatives agreed to this short move but do want to address any activity off that road because of the airport landing strip to the southwest. EP Energy is still waiting for a sign off on this pad from the FFA.

A reserve pit is planned off the west side of this well pad in cut, and will need a felt sub liner and 20 mil synthetic liner to prevent fluid lose into underlying soils. This pit shall also be fenced until it is closed.

A presite was done on Wednesday April 29, 2015 to take input and address issues regarding the construction and drilling of the Duchesne City 3-19C4 well. Duchesne City was inviting and did attend as landowners to address surface issues and any concerns they have about the Duchesne City Airport landing strip to the southwest of this pad. Duchesne City and EP Energy have entered into a surface use and damage agreement.

Dennis Ingram
Onsite Evaluator

4/29/2015
Date / Time

Conditions of Approval / Application for Permit to Drill

| Category | Condition |
|-----------------|--|
| Pits | A synthetic liner with a minimum thickness of 20 mils with a felt sub liner shall be properly installed and maintained in the reserve pit. |
| Pits | The reserve pit should be located on the 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: 4/9/2015

API NO. ASSIGNED: 43013532840000

WELL NAME: Duchesne City 3-19C4

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

PHONE NUMBER: 713 997-5038

CONTACT: Maria S. Gomez

PROPOSED LOCATION: NESW 19 030S 040W

Permit Tech Review:

SURFACE: 1583 FSL 2101 FWL

Engineering Review:

BOTTOM: 1300 FSL 1900 FWL

Geology Review:

COUNTY: DUCHESNE

LATITUDE: 40.20284

LONGITUDE: -110.38169

UTM SURF EASTINGS: 552622.00

NORTHINGS: 4450455.00

FIELD NAME: ALTAMONT

LEASE TYPE: 4 - Fee

LEASE NUMBER: Fee

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

SURFACE OWNER: 4 - Fee

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

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

Commingle Approved

LOCATION AND SITING:

- R649-2-3.
- Unit:
- R649-3-2. General
- R649-3-3. Exception
- Drilling Unit
- Board Cause No: Cause 139-124
- Effective Date: 11/6/2014
- Siting: 8 WELLS PER SECTION
- R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations: 5 - Statement of Basis - bhill
15 - Directional - dmason



GARY R. HERBERT
Governor

SPENCER J. COX
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: Duchesne City 3-19C4
API Well Number: 43013532840000
Lease Number: Fee
Surface Owner: FEE (PRIVATE)
Approval Date: 5/20/2015

Issued to:

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

Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 139-124. The expected producing formation or pool is the GREEN RIVER(LWR)-WASATCH Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

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

General:

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

Conditions of Approval:

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

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

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:



For John Rogers
Associate Director, Oil & Gas



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Carol Daniels <caroldaniels@utah.gov>

NESW SEC 19 T03S R04W FEE LEASE

**24hr Notice Run & Cement Casing Duchesne City 3-19C4 API #
43013532840000**

1 message

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

Fri, May 29, 2015 at 5:59 AM

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

RE: EP ENERGY

Duchesne City 3-19C4

API # 43013532840000

ALTAMONT FIELD

DUCHESNE COUNTY

We plan on running and cementing 9-5/8" Surface Casing to +/- 2,200' within 24hrs.

Regards,

Tony Wilkerson / Bill Owen

EP Energy LLC

PD Rig 406

Rig: 713-997-1220

Cell: 435-823-1764

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



Alexis Huefner <alexishuefner@utah.gov>

24hr Spud Notice Duchesne City 3-19C4 API # 4301352840000

1 message

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

Tue, May 26, 2015 at 7:00 PM

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

RE: EP ENERGY

Duchesne City 3-19C4

API # 4301352840000

3284

ALTAMONT FIELD

DUCHESNE COUNTY

1583 FSL 2101 FWL
NESW 19 35 4W

CONFIDENTIAL

Leon Ross Drilling spudded the well @ 11:30hrs on 5/26/2015. We plan on running and cementing 20" Conductor Casing to +/- 40' within 24hrs.

Thanks,

Lloyd Rowell / Morgan Harden

EP Energy / PD 406

713-997-1220 (Rig)

435-823-1764 (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>

NESW S-19 T03S R04W FEE LEASE

24hr Notice Run & Cement Casing

1 message

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

Thu, Jun 18, 2015 at 3:29 PM

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

RE: EP ENERGY

Duchesne City 3-19C4

API # 43013532840000

ALTAMONT FIELD

DUCHESNE COUNTY

We plan on running & cementing 7" 29# HCP-110 LT&C Intermediate Casing to +/- 8,589' within 24hrs.

Thanks,

Lloyd Rowell / Morgan Harden

EP Energy / PD 406

713-997-1220 (Rig)

435-823-1764 (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.

| | | |
|--|---|---|
| STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING | | FORM 9 5.LEASE DESIGNATION AND SERIAL NUMBER: Fee |
| 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. | | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7.UNIT or CA AGREEMENT NAME: |
| 1. TYPE OF WELL Oil Well | 8. WELL NAME and NUMBER: Duchesne City 3-19C4 | |
| 2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P. | 9. API NUMBER: 43013532840000 | |
| 3. ADDRESS OF OPERATOR: 1001 Louisiana , Houston, TX, 77002 | PHONE NUMBER: 713 997-5038 Ext | 9. FIELD and POOL or WILDCAT: ALTAMONT |
| 4. LOCATION OF WELL FOOTAGES AT SURFACE: 1583 FSL 2101 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESW Section: 19 Township: 03.0S Range: 04.0W Meridian: U | COUNTY: DUCHESNE STATE: UTAH | |

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

| TYPE OF SUBMISSION | TYPE OF ACTION | | |
|---|--|---|---|
| <input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 7/10/2015 | <input type="checkbox"/> ACIDIZE | <input type="checkbox"/> ALTER CASING | <input type="checkbox"/> CASING REPAIR |
| <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: | <input type="checkbox"/> CHANGE TO PREVIOUS PLANS | <input type="checkbox"/> CHANGE TUBING | <input type="checkbox"/> CHANGE WELL NAME |
| <input type="checkbox"/> SPUD REPORT Date of Spud: | <input type="checkbox"/> CHANGE WELL STATUS | <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS | <input type="checkbox"/> CONVERT WELL TYPE |
| <input type="checkbox"/> DRILLING REPORT Report Date: | <input type="checkbox"/> DEEPEN | <input type="checkbox"/> FRACTURE TREAT | <input type="checkbox"/> NEW CONSTRUCTION |
| | <input type="checkbox"/> OPERATOR CHANGE | <input type="checkbox"/> PLUG AND ABANDON | <input type="checkbox"/> PLUG BACK |
| | <input type="checkbox"/> PRODUCTION START OR RESUME | <input type="checkbox"/> RECLAMATION OF WELL SITE | <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION |
| | <input type="checkbox"/> REPERFORATE CURRENT FORMATION | <input type="checkbox"/> SIDETRACK TO REPAIR WELL | <input type="checkbox"/> TEMPORARY ABANDON |
| | <input type="checkbox"/> TUBING REPAIR | <input type="checkbox"/> VENT OR FLARE | <input type="checkbox"/> WATER DISPOSAL |
| | <input type="checkbox"/> WATER SHUTOFF | <input type="checkbox"/> SI TA STATUS EXTENSION | <input type="checkbox"/> APD EXTENSION |
| | <input type="checkbox"/> WILDCAT WELL DETERMINATION | <input checked="" type="checkbox"/> OTHER | OTHER: <input type="text" value="Initial Completion"/> |

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

EP plans to complete in the Wasatch. Please see attached for details.

Approved by the
July 06, 2015
Oil, Gas and Mining

Date: _____
By: DeKQ Duff

| | | |
|--|-------------------------------------|--|
| NAME (PLEASE PRINT) Maria S. Gomez | PHONE NUMBER 713 997-5038 | TITLE Principal Regulatory Analyst |
| SIGNATURE N/A | DATE 7/6/2015 | |

Duchesne City 3-19C4

Initial Completion

API # : 4301353284

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

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

Completion Information (Wasatch Formation)

- | | |
|-----------------|---|
| Stage #1 | RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~10883' – 11208' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of TLC 30/50. Total clean water volume is 3647 bbls. |
| Stage #2 | RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~10524' – 10842' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of TLC 30/50. Total clean water volume is 3648 bbls. |
| Stage #3 | RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~10222' – 10480' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of TLC 30/50. Total clean water volume is 3642 bbls. |
| Stage #4 | RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~9901' – 10141' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of TLC 30/50. Total clean water volume is 3637 bbls. |
| Stage #5 | RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~9617' – 9870' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of TLC 30/50. Total clean water volume is 3632 bbls. |

Stage #6 RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~9296' – 9563' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of TLC 30/50. Total clean water volume is 3626 bbls.

Stage #7 RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~9022' – 9270' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of TLC 30/50. Total clean water volume is 3621 bbls.

Stage #8 RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~8722' – 8989' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of TLC 30/50. Total clean water volume is 3616 bbls.

Stimulation Summary

| | Top Perf | Btm. Perf | Gross Interval | Plug Depth | Net Perf Length | Total Shots | Perf Intervals | Type of Prop | Lbs of Prop | Lbs/ft | Lbs of 100 Mesh | Gals of HCL (15%) | BBLs of Clean H2O | BBLs of Slurry |
|--------------------------|----------|-----------|----------------|------------|-----------------|-------------|----------------|--------------|------------------|------------|-----------------|-------------------|-------------------|----------------|
| Stage #1 | 10,883 | 11,208 | 325 | NA | 23 | 69 | 17 | TLC 30/50 | 150,000 | 462 | 3,000 | 5,000 | 3,647 | 4,048 |
| Stage #2 | 10,524 | 10,842 | 318 | 10,857 | 23 | 69 | 17 | TLC 30/50 | 150,000 | 472 | 3,000 | 5,000 | 3,648 | 4,048 |
| Stage #3 | 10,222 | 10,480 | 258 | 10,495 | 22 | 66 | 15 | TLC 30/50 | 150,000 | 581 | 3,000 | 5,000 | 3,642 | 4,043 |
| Stage #4 | 9,901 | 10,141 | 240 | 10,156 | 22 | 66 | 16 | TLC 30/50 | 150,000 | 625 | 3,000 | 5,000 | 3,637 | 4,037 |
| Stage #5 | 9,617 | 9,870 | 253 | 9,885 | 23 | 69 | 17 | TLC 30/50 | 150,000 | 593 | 3,000 | 5,000 | 3,632 | 4,032 |
| Stage #6 | 9,296 | 9,563 | 267 | 9,578 | 23 | 69 | 17 | TLC 30/50 | 150,000 | 562 | 3,000 | 5,000 | 3,626 | 4,026 |
| Stage #7 | 9,022 | 9,270 | 248 | 9,285 | 23 | 69 | 17 | TLC 30/50 | 150,000 | 605 | 3,000 | 5,000 | 3,621 | 4,022 |
| Stage #8 | 8,722 | 8,989 | 267 | 9,004 | 23 | 69 | 17 | TLC 30/50 | 150,000 | 562 | 3,000 | 5,000 | 3,616 | 4,016 |
| Average per Stage | | | 272 | | 23 | 68 | 17 | | 150,000 | 558 | 3,000 | 5,000 | 3,634 | 4,034 |
| Totals per Well | | | 2,176 | | 182 | 546 | 133 | | 1,200,000 | | 24,000 | 40,000 | 29,069 | 32,272 |

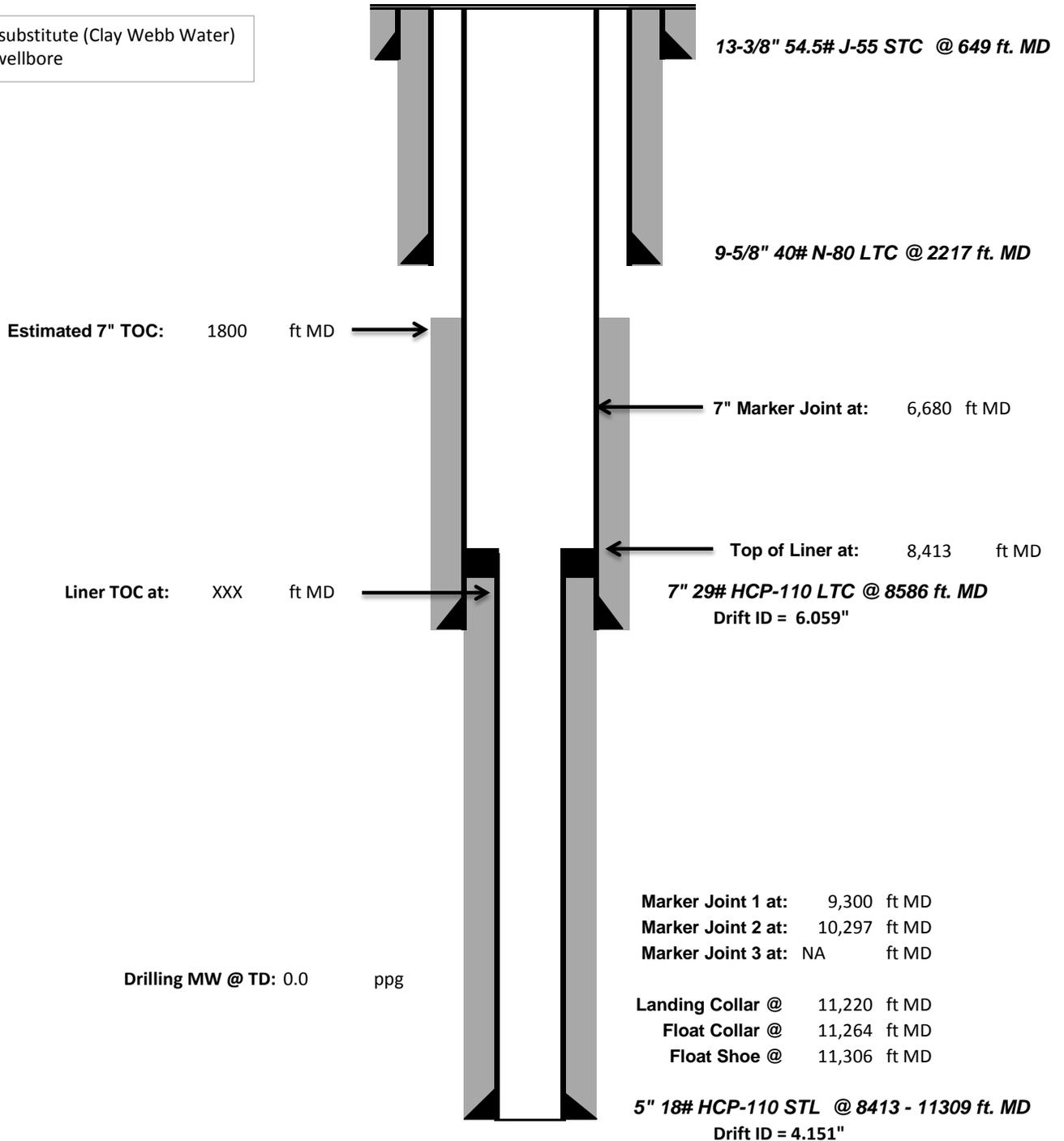


Pre-Completion Wellbore Schematic

Well Name: **Duchesne City 3-19C4**
 Company Name: **EP Energy E&P Company, L.P.**
 Field, County, State: **Altamont, Duchesne, Utah**
 Surface Location: **Lat: 40°12'10.540N Long: 110°22'51.740W**
 Producing Zone(s): **Wasatch**

Last Updated: **6/30/2015**
 By: **Lauren Pratt**
 TD: **11,306**
 API: **4301353284**
 AFE: **161259**

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



13-3/8" 54.5# J-55 STC @ 649 ft. MD

9-5/8" 40# N-80 LTC @ 2217 ft. MD

Estimated 7" TOC: 1800 ft MD

7" Marker Joint at: 6,680 ft MD

Liner TOC at: XXX ft MD

Top of Liner at: 8,413 ft MD

7" 29# HCP-110 LTC @ 8586 ft. MD
 Drift ID = 6.059"

Marker Joint 1 at: 9,300 ft MD

Marker Joint 2 at: 10,297 ft MD

Marker Joint 3 at: NA ft MD

Drilling MW @ TD: 0.0 ppg

Landing Collar @ 11,220 ft MD

Float Collar @ 11,264 ft MD

Float Shoe @ 11,306 ft MD

5" 18# HCP-110 STL @ 8413 - 11309 ft. MD
 Drift ID = 4.151"

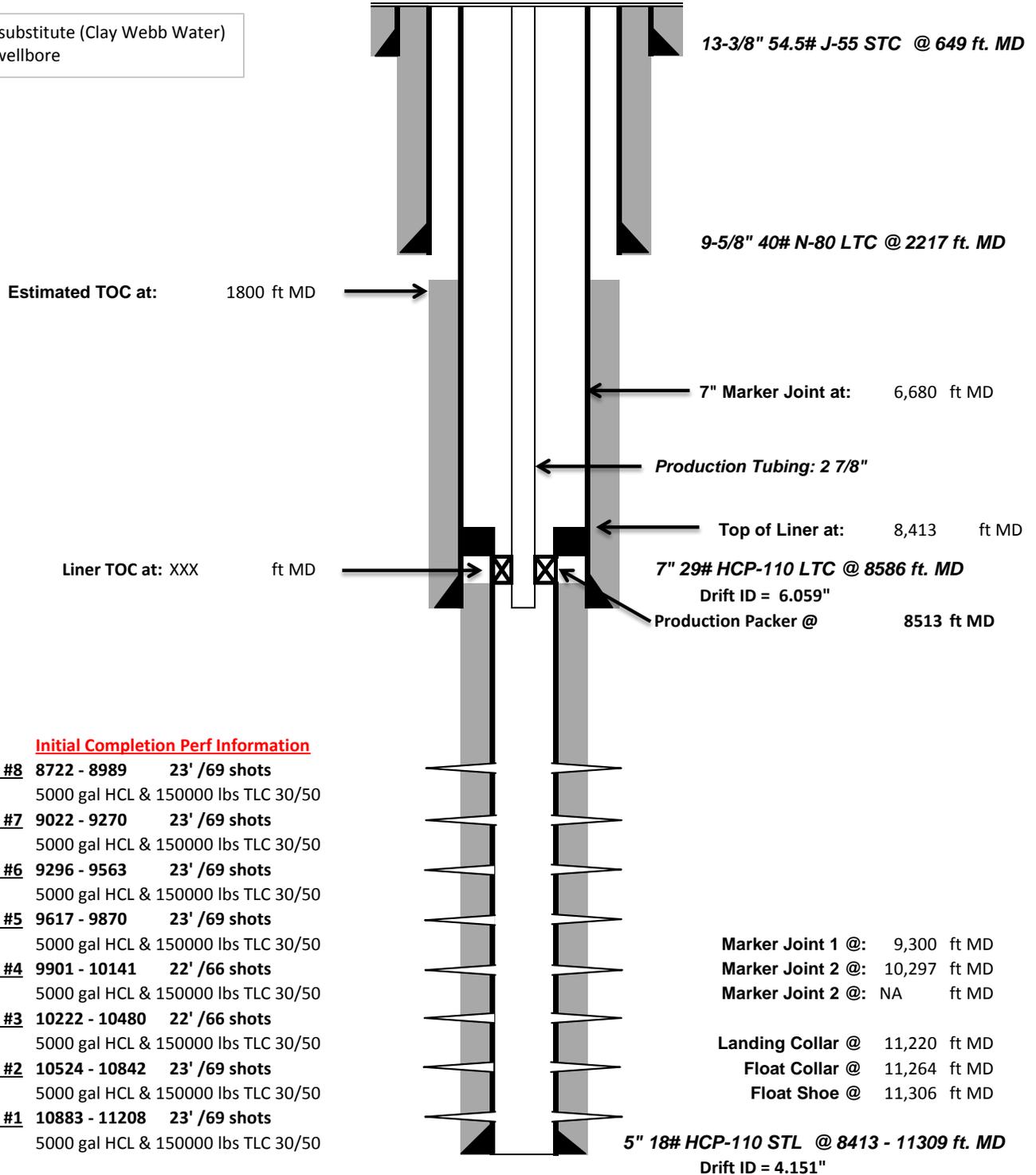


Post-Completion Wellbore Schematic

Well Name: **Duchesne City 3-19C4**
 Company Name: **EP Energy E&P Company, L.P.**
 Field, County, State: **Altamont, Duchesne, Utah**
 Surface Location: **Lat: 40°12'10.540N Long: 110°22'51.740W**
 Producing Zone(s): **Wasatch**

Last Updated: **6/30/2015**
 By: **Lauren Pratt**
 TD: **11,306**
 API: **4301353284**
 AFE: **161259**

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



CONFIDENTIAL



Carol Daniels <caroldaniels@utah.gov>

NESW S19 T03S R04W FEE LEASE

24hr Notice Run & Cement Liner

1 message

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

Tue, Jun 23, 2015 at 12:48 AM

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

RE: EP ENERGY

Duchesne City 3-19C4

API # 43013532840000

ALTAMONT FIELD

DUCHESNE COUNTY

We plan on running & cementing 5" 18# HCP-110 STL Production liner to +/- 11,309' within 24hrs.

Thanks,

Lloyd Rowell / Morgan Harden

EP Energy / PD 406

713-997-1220 (Rig)

435-823-1764 (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.

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

AMENDED REPORT FORM 8
(highlight changes)

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

| | | | |
|---|--|---|---|
| 14. DATE SPUDDED: | 15. DATE T.D. REACHED: | 16. DATE COMPLETED: _____ ABANDONED <input type="checkbox"/> READY TO PRODUCE <input type="checkbox"/> | 17. ELEVATIONS (DF, RKB, RT, GL): |
| 18. TOTAL DEPTH: MD _____ TVD _____ | 19. PLUG BACK T.D.: MD _____ TVD _____ | 20. IF MULTIPLE COMPLETIONS, HOW MANY? * | 21. DEPTH BRIDGE MD _____ PLUG SET: TVD _____ |
| 22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each) | | 23. WAS WELL CORED? NO <input type="checkbox"/> YES <input type="checkbox"/> (Submit analysis) WAS DST RUN? NO <input type="checkbox"/> YES <input type="checkbox"/> (Submit report) DIRECTIONAL SURVEY? NO <input type="checkbox"/> YES <input type="checkbox"/> (Submit copy) | |

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

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

25. TUBING RECORD

| SIZE | DEPTH SET (MD) | PACKER SET (MD) | SIZE | DEPTH SET (MD) | PACKER SET (MD) | SIZE | DEPTH SET (MD) | PACKER SET (MD) |
|------|----------------|-----------------|------|----------------|-----------------|------|----------------|-----------------|
| | | | | | | | | |
| | | | | | | | | |

| 26. PRODUCING INTERVALS | | | | | 27. PERFORATION RECORD | | | | |
|-------------------------|----------|-------------|-----------|--------------|-------------------------|------|-----------|-------------------------------|-----------------------------------|
| FORMATION NAME | TOP (MD) | BOTTOM (MD) | TOP (TVD) | BOTTOM (TVD) | INTERVAL (Top/Bot - MD) | SIZE | NO. HOLES | PERFORATION STATUS | |
| (A) | | | | | | | | Open <input type="checkbox"/> | Squeezed <input type="checkbox"/> |
| (B) | | | | | | | | Open <input type="checkbox"/> | Squeezed <input type="checkbox"/> |
| (C) | | | | | | | | Open <input type="checkbox"/> | Squeezed <input type="checkbox"/> |
| (D) | | | | | | | | Open <input type="checkbox"/> | Squeezed <input type="checkbox"/> |

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

| DEPTH INTERVAL | AMOUNT AND TYPE OF MATERIAL |
|----------------|-----------------------------|
| | |
| | |
| | |

| | |
|--|------------------|
| 29. ENCLOSED ATTACHMENTS: All logs are submitted to UDOGM by vendor. | 30. WELL STATUS: |
| <input type="checkbox"/> ELECTRICAL/MECHANICAL LOGS <input type="checkbox"/> GEOLOGIC REPORT <input type="checkbox"/> DST REPORT <input type="checkbox"/> DIRECTIONAL SURVEY <input type="checkbox"/> SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION <input type="checkbox"/> CORE ANALYSIS <input type="checkbox"/> OTHER: _____ | |

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

| | | | | | | | | | | |
|----------------------|-------------|-------------|-------------|---------------|---------------|---------------------------|------------|------------|--------------|------------------|
| DATE FIRST PRODUCED: | | TEST DATE: | | HOURS TESTED: | | TEST PRODUCTION RATES: → | OIL – BBL: | GAS – MCF: | WATER – BBL: | PROD. METHOD: |
| CHOKE SIZE: | TBG. PRESS. | CSG. PRESS. | API GRAVITY | BTU – GAS | GAS/OIL RATIO | 24 HR PRODUCTION RATES: → | OIL – BBL: | GAS – MCF: | WATER – BBL: | INTERVAL STATUS: |

INTERVAL B (As shown in item #26)

| | | | | | | | | | | |
|----------------------|-------------|-------------|-------------|---------------|---------------|---------------------------|------------|------------|--------------|------------------|
| DATE FIRST PRODUCED: | | TEST DATE: | | HOURS TESTED: | | TEST PRODUCTION RATES: → | OIL – BBL: | GAS – MCF: | WATER – BBL: | PROD. METHOD: |
| CHOKE SIZE: | TBG. PRESS. | CSG. PRESS. | API GRAVITY | BTU – GAS | GAS/OIL RATIO | 24 HR PRODUCTION RATES: → | OIL – BBL: | GAS – MCF: | WATER – BBL: | INTERVAL STATUS: |

INTERVAL C (As shown in item #26)

| | | | | | | | | | | |
|----------------------|-------------|-------------|-------------|---------------|---------------|---------------------------|------------|------------|--------------|------------------|
| DATE FIRST PRODUCED: | | TEST DATE: | | HOURS TESTED: | | TEST PRODUCTION RATES: → | OIL – BBL: | GAS – MCF: | WATER – BBL: | PROD. METHOD: |
| CHOKE SIZE: | TBG. PRESS. | CSG. PRESS. | API GRAVITY | BTU – GAS | GAS/OIL RATIO | 24 HR PRODUCTION RATES: → | OIL – BBL: | GAS – MCF: | WATER – BBL: | INTERVAL STATUS: |

INTERVAL D (As shown in item #26)

| | | | | | | | | | | |
|----------------------|-------------|-------------|-------------|---------------|---------------|---------------------------|------------|------------|--------------|------------------|
| DATE FIRST PRODUCED: | | TEST DATE: | | HOURS TESTED: | | TEST PRODUCTION RATES: → | OIL – BBL: | GAS – MCF: | WATER – BBL: | PROD. METHOD: |
| CHOKE SIZE: | TBG. PRESS. | CSG. PRESS. | API GRAVITY | BTU – GAS | GAS/OIL RATIO | 24 HR PRODUCTION RATES: → | OIL – BBL: | GAS – MCF: | WATER – BBL: | INTERVAL STATUS: |

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

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

35. ADDITIONAL REMARKS (Include plugging procedure)

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

NAME (PLEASE PRINT) _____ TITLE _____

SIGNATURE _____ DATE _____

This report must be submitted within 30 days of

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

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

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

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

Phone: 801-538-5340

Fax: 801-359-3940

Attachment to Well Completion Report**Form 8 Dated August 10, 2015****Well Name: Duchesne City 3-19C4****Items #27 and #28 Continued****27. Perforation Record**

| Interval (Top/Bottom – MD) | Size | No. of Holes | Perf. Status |
|-----------------------------------|-------------|---------------------|---------------------|
| 9608'-9864' | .40 | 69 | Open |
| 9286'-9551' | .40 | 69 | Open |
| 9011'-9259' | .40 | 69 | Open |
| 8710'-8977' | .40 | 69 | Open |

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

| Depth Interval | Amount and Type of Material |
|-----------------------|---|
| 9895'-10135' | 5000 gal acid, 3100# 100 mesh, 150000# 30/50 TLC |
| 9608'-9864' | 5000 gal acid, 3100# 100 mesh, 150000# 30/50 TLC |
| 9286'-9551' | 5000 gal acid, 3100# 100 mesh, 149200# 30/50 TLC |
| 9011'-9259' | 5000 gal acid, 3500# 100 mesh, 150200# 30/50 White |
| 8710'-8977' | 5000 gal acid, 3640# 100 mesh, 149960# 30/50 White |



Company: EP Energy Job Number: _____
 Well: Duchesne City 3-19C4 Mag Decl.: _____
 Location: Duchesne, UT Dir Driller: _____
 Rig: Precision 406 MWD Eng: _____

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

| Survey Number | Survey Depth (ft) | Inclination (deg) | Azimuth (deg) | Course Length (ft) | True Vertical Depth (ft) | Vertical Section (ft) | Coordinates | | Closure | | Dogleg Severity (d/100') | Build Rate (d/100') | Walk Rate (d/100') | | |
|---------------|-------------------|-------------------|---------------|--------------------|--------------------------|-----------------------|-------------|----------|---------------|-------------------|--------------------------|---------------------|--------------------|-------|--------|
| | | | | | | | N/S (ft) | E/W (ft) | Distance (ft) | Direction Azimuth | | | | | |
| Tie In | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | |
| 1 | 100.00 | 0.63 | 165.91 | 100.00 | 100.00 | -0.53 | 0.53 | S | 0.13 | E | 0.55 | 165.91 | 0.63 | 0.63 | 165.91 |
| 2 | 200.00 | 0.56 | 157.95 | 100.00 | 199.99 | -1.52 | 1.52 | S | 0.45 | E | 1.58 | 163.48 | 0.11 | -0.08 | -7.96 |
| 3 | 300.00 | 0.56 | 172.36 | 100.00 | 299.99 | -2.45 | 2.45 | S | 0.70 | E | 2.55 | 164.12 | 0.14 | 0.00 | 14.41 |
| 4 | 400.00 | 0.42 | 194.20 | 100.00 | 399.98 | -3.29 | 3.29 | S | 0.67 | E | 3.36 | 168.46 | 0.23 | -0.14 | 21.84 |
| 5 | 500.00 | 0.26 | 181.55 | 100.00 | 499.98 | -3.88 | 3.88 | S | 0.58 | E | 3.92 | 171.55 | 0.18 | -0.16 | -12.65 |
| 6 | 600.00 | 0.50 | 165.03 | 100.00 | 599.98 | -4.52 | 4.52 | S | 0.68 | E | 4.57 | 171.43 | 0.26 | 0.24 | -16.52 |
| 7 | 700.00 | 0.38 | 197.84 | 100.00 | 699.98 | -5.26 | 5.26 | S | 0.69 | E | 5.31 | 172.50 | 0.27 | -0.12 | 32.81 |
| 8 | 800.00 | 0.20 | 140.34 | 100.00 | 799.98 | -5.71 | 5.71 | S | 0.70 | E | 5.75 | 173.02 | 0.32 | -0.19 | -57.50 |
| 9 | 900.00 | 0.47 | 183.04 | 100.00 | 899.97 | -6.25 | 6.25 | S | 0.79 | E | 6.30 | 172.84 | 0.36 | 0.28 | 42.69 |
| 10 | 1000.00 | 0.26 | 232.54 | 100.00 | 999.97 | -6.80 | 6.80 | S | 0.58 | E | 6.83 | 175.11 | 0.36 | -0.21 | 49.51 |
| 11 | 1100.00 | 0.44 | 209.48 | 100.00 | 1099.97 | -7.27 | 7.27 | S | 0.21 | E | 7.28 | 178.33 | 0.22 | 0.18 | -23.06 |
| 12 | 1200.00 | 0.74 | 211.82 | 100.00 | 1199.97 | -8.16 | 8.16 | S | 0.32 | W | 8.17 | 182.24 | 0.31 | 0.31 | 2.34 |
| 13 | 1300.00 | 0.81 | 223.57 | 100.00 | 1299.96 | -9.22 | 9.22 | S | 1.15 | W | 9.29 | 187.09 | 0.17 | 0.07 | 11.75 |
| 14 | 1400.00 | 0.85 | 214.08 | 100.00 | 1399.95 | -10.35 | 10.35 | S | 2.05 | W | 10.55 | 191.21 | 0.14 | 0.04 | -9.49 |
| 15 | 1500.00 | 0.92 | 211.53 | 100.00 | 1499.93 | -11.65 | 11.65 | S | 2.89 | W | 12.01 | 193.93 | 0.08 | 0.07 | -2.54 |
| 16 | 1600.00 | 1.02 | 209.22 | 100.00 | 1599.92 | -13.12 | 13.12 | S | 3.75 | W | 13.64 | 195.94 | 0.11 | 0.10 | -2.32 |
| 17 | 1700.00 | 1.08 | 209.16 | 100.00 | 1699.90 | -14.72 | 14.72 | S | 4.64 | W | 15.44 | 197.50 | 0.06 | 0.05 | -0.06 |
| 18 | 1800.00 | 1.23 | 210.24 | 100.00 | 1799.88 | -16.47 | 16.47 | S | 5.64 | W | 17.41 | 198.90 | 0.15 | 0.15 | 1.08 |
| 19 | 1900.00 | 1.13 | 212.65 | 100.00 | 1899.86 | -18.22 | 18.22 | S | 6.71 | W | 19.41 | 200.21 | 0.11 | -0.10 | 2.41 |
| 20 | 2000.00 | 1.28 | 182.35 | 100.00 | 1999.84 | -20.16 | 20.16 | S | 7.28 | W | 21.43 | 199.86 | 0.64 | 0.15 | -30.30 |
| 21 | 2120.00 | 1.59 | 190.10 | 120.00 | 2119.80 | -23.13 | 23.13 | S | 7.63 | W | 24.35 | 198.26 | 0.31 | 0.26 | 6.46 |
| 22 | 2245.00 | 1.70 | 205.20 | 125.00 | 2244.75 | -26.51 | 26.51 | S | 8.72 | W | 27.91 | 198.21 | 0.36 | 0.09 | 12.08 |
| 23 | 2342.00 | 1.80 | 206.70 | 97.00 | 2341.71 | -29.17 | 29.17 | S | 10.02 | W | 30.85 | 198.96 | 0.11 | 0.10 | 1.55 |
| 24 | 2438.00 | 2.00 | 203.90 | 96.00 | 2437.65 | -32.05 | 32.05 | S | 11.38 | W | 34.01 | 199.54 | 0.23 | 0.21 | -2.92 |
| 25 | 2534.00 | 2.20 | 205.30 | 96.00 | 2533.59 | -35.25 | 35.25 | S | 12.84 | W | 37.51 | 200.02 | 0.22 | 0.21 | 1.46 |
| 26 | 2630.00 | 2.30 | 201.70 | 96.00 | 2629.51 | -38.70 | 38.70 | S | 14.34 | W | 41.28 | 200.33 | 0.18 | 0.10 | -3.75 |
| 27 | 2725.00 | 2.20 | 203.40 | 95.00 | 2724.44 | -42.15 | 42.15 | S | 15.77 | W | 45.00 | 200.51 | 0.13 | -0.11 | 1.79 |
| 28 | 2822.00 | 3.60 | 207.40 | 97.00 | 2821.31 | -46.56 | 46.56 | S | 17.91 | W | 49.89 | 201.04 | 1.46 | 1.44 | 4.12 |
| 29 | 2918.00 | 3.70 | 209.00 | 96.00 | 2917.12 | -51.95 | 51.95 | S | 20.80 | W | 55.96 | 201.82 | 0.15 | 0.10 | 1.67 |
| 30 | 3013.00 | 3.60 | 206.50 | 95.00 | 3011.93 | -57.30 | 57.30 | S | 23.62 | W | 61.97 | 202.40 | 0.20 | -0.11 | -2.63 |
| 31 | 3109.00 | 3.50 | 210.10 | 96.00 | 3107.74 | -62.53 | 62.53 | S | 26.43 | W | 67.89 | 202.91 | 0.25 | -0.10 | 3.75 |
| 32 | 3205.00 | 3.40 | 205.10 | 96.00 | 3203.57 | -67.64 | 67.64 | S | 29.11 | W | 73.64 | 203.28 | 0.33 | -0.10 | -5.21 |
| 33 | 3301.00 | 3.30 | 206.30 | 96.00 | 3299.41 | -72.70 | 72.70 | S | 31.54 | W | 79.24 | 203.45 | 0.13 | -0.10 | 1.25 |
| 34 | 3397.00 | 3.30 | 206.30 | 96.00 | 3395.25 | -77.65 | 77.65 | S | 33.99 | W | 84.76 | 203.64 | 0.00 | 0.00 | 0.00 |
| 35 | 3493.00 | 3.20 | 201.80 | 96.00 | 3491.09 | -82.62 | 82.62 | S | 36.21 | W | 90.20 | 203.67 | 0.29 | -0.10 | -4.69 |



Company: EP Energy
Well: Duchesne City 3-19C4
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 | 3589.00 | 2.90 | 196.30 | 96.00 | 3586.96 | -87.43 | 87.43 | S | 37.88 | W | 95.29 | 203.43 | 0.44 | -0.31 | -5.73 |
| 37 | 3685.00 | 3.90 | 203.10 | 96.00 | 3682.79 | -92.77 | 92.77 | S | 39.85 | W | 100.96 | 203.25 | 1.12 | 1.04 | 7.08 |
| 38 | 3781.00 | 3.80 | 206.90 | 96.00 | 3778.57 | -98.61 | 98.61 | S | 42.57 | W | 107.40 | 203.35 | 0.29 | -0.10 | 3.96 |
| 39 | 3877.00 | 3.80 | 205.40 | 96.00 | 3874.36 | -104.32 | 104.32 | S | 45.37 | W | 113.76 | 203.51 | 0.10 | 0.00 | -1.56 |
| 40 | 3971.00 | 3.80 | 204.10 | 94.00 | 3968.15 | -109.98 | 109.98 | S | 47.98 | W | 119.99 | 203.57 | 0.09 | 0.00 | -1.38 |
| 41 | 4067.00 | 3.60 | 215.50 | 96.00 | 4063.95 | -115.33 | 115.33 | S | 51.03 | W | 126.12 | 203.87 | 0.79 | -0.21 | 11.88 |
| 42 | 4162.00 | 3.60 | 202.40 | 95.00 | 4158.77 | -120.52 | 120.52 | S | 53.90 | W | 132.02 | 204.09 | 0.86 | 0.00 | -13.79 |
| 43 | 4258.00 | 3.80 | 218.90 | 96.00 | 4254.57 | -125.78 | 125.78 | S | 57.04 | W | 138.11 | 204.39 | 1.12 | 0.21 | 17.19 |
| 44 | 4354.00 | 3.80 | 240.20 | 96.00 | 4350.36 | -129.84 | 129.84 | S | 61.80 | W | 143.80 | 205.45 | 1.46 | 0.00 | 22.19 |
| 45 | 4451.00 | 3.50 | 234.60 | 97.00 | 4447.17 | -133.15 | 133.15 | S | 67.00 | W | 149.06 | 206.71 | 0.48 | -0.31 | -5.77 |
| 46 | 4547.00 | 3.10 | 228.90 | 96.00 | 4543.01 | -136.56 | 136.56 | S | 71.35 | W | 154.07 | 207.59 | 0.54 | -0.42 | -5.94 |
| 47 | 4642.00 | 3.20 | 218.80 | 95.00 | 4637.86 | -140.31 | 140.31 | S | 74.95 | W | 159.07 | 208.11 | 0.59 | 0.11 | -10.63 |
| 48 | 4738.00 | 3.10 | 233.70 | 96.00 | 4733.72 | -143.94 | 143.94 | S | 78.72 | W | 164.05 | 208.67 | 0.86 | -0.10 | 15.52 |
| 49 | 4835.00 | 3.00 | 224.60 | 97.00 | 4830.58 | -147.30 | 147.30 | S | 82.61 | W | 168.88 | 209.29 | 0.51 | -0.10 | -9.38 |
| 50 | 4931.00 | 3.30 | 222.70 | 96.00 | 4926.44 | -151.11 | 151.11 | S | 86.25 | W | 174.00 | 209.72 | 0.33 | 0.31 | -1.98 |
| 51 | 5027.00 | 3.30 | 220.70 | 96.00 | 5022.28 | -155.24 | 155.24 | S | 89.93 | W | 179.41 | 210.08 | 0.12 | 0.00 | -2.08 |
| 52 | 5123.00 | 3.10 | 213.80 | 96.00 | 5118.13 | -159.49 | 159.49 | S | 93.17 | W | 184.71 | 210.29 | 0.45 | -0.21 | -7.19 |
| 53 | 5219.00 | 2.00 | 204.40 | 96.00 | 5214.03 | -163.17 | 163.17 | S | 95.31 | W | 188.97 | 210.29 | 1.22 | -1.15 | -9.79 |
| 54 | 5315.00 | 3.20 | 202.90 | 96.00 | 5309.93 | -167.17 | 167.17 | S | 97.04 | W | 193.29 | 210.14 | 1.25 | 1.25 | -1.56 |
| 55 | 5411.00 | 3.70 | 213.00 | 96.00 | 5405.76 | -172.23 | 172.23 | S | 99.77 | W | 199.05 | 210.08 | 0.82 | 0.52 | 10.52 |
| 56 | 5507.00 | 3.90 | 228.80 | 96.00 | 5501.55 | -176.98 | 176.98 | S | 103.92 | W | 205.24 | 210.42 | 1.11 | 0.21 | 16.46 |
| 57 | 5603.00 | 3.70 | 220.40 | 96.00 | 5597.34 | -181.49 | 181.49 | S | 108.38 | W | 211.39 | 210.84 | 0.62 | -0.21 | -8.75 |
| 58 | 5699.00 | 3.50 | 215.10 | 96.00 | 5693.15 | -186.25 | 186.25 | S | 112.07 | W | 217.37 | 211.04 | 0.40 | -0.21 | -5.52 |
| 59 | 5796.00 | 3.50 | 215.20 | 97.00 | 5789.97 | -191.09 | 191.09 | S | 115.48 | W | 223.28 | 211.15 | 0.01 | 0.00 | 0.10 |
| 60 | 5891.00 | 3.60 | 211.30 | 95.00 | 5884.79 | -196.01 | 196.01 | S | 118.70 | W | 229.15 | 211.20 | 0.28 | 0.11 | -4.11 |
| 61 | 5988.00 | 2.90 | 223.40 | 97.00 | 5981.63 | -200.39 | 200.39 | S | 121.97 | W | 234.60 | 211.33 | 1.01 | -0.72 | 12.47 |
| 62 | 6084.00 | 2.20 | 248.20 | 96.00 | 6077.54 | -202.84 | 202.84 | S | 125.35 | W | 238.45 | 211.71 | 1.34 | -0.73 | 25.83 |
| 63 | 6180.00 | 2.30 | 237.60 | 96.00 | 6173.47 | -204.56 | 204.56 | S | 128.69 | W | 241.67 | 212.17 | 0.45 | 0.10 | -11.04 |
| 64 | 6276.00 | 1.60 | 233.30 | 96.00 | 6269.41 | -206.39 | 206.39 | S | 131.39 | W | 244.67 | 212.48 | 0.74 | -0.73 | -4.48 |
| 65 | 6370.00 | 1.70 | 225.10 | 94.00 | 6363.37 | -208.16 | 208.16 | S | 133.43 | W | 247.25 | 212.66 | 0.27 | 0.11 | -8.72 |
| 66 | 6467.00 | 1.80 | 220.10 | 97.00 | 6460.33 | -210.34 | 210.34 | S | 135.43 | W | 250.17 | 212.78 | 0.19 | 0.10 | -5.15 |
| 67 | 6563.00 | 2.20 | 212.40 | 96.00 | 6556.27 | -213.05 | 213.05 | S | 137.39 | W | 253.51 | 212.82 | 0.50 | 0.42 | -8.02 |
| 68 | 6659.00 | 2.30 | 208.10 | 96.00 | 6652.19 | -216.31 | 216.31 | S | 139.28 | W | 257.27 | 212.78 | 0.20 | 0.10 | -4.48 |
| 69 | 6755.00 | 1.30 | 218.80 | 96.00 | 6748.15 | -218.85 | 218.85 | S | 140.87 | W | 260.27 | 212.77 | 1.09 | -1.04 | 11.15 |
| 70 | 6852.00 | 1.80 | 203.60 | 97.00 | 6845.11 | -221.11 | 221.11 | S | 142.17 | W | 262.87 | 212.74 | 0.66 | 0.52 | -15.67 |
| 71 | 6947.00 | 2.20 | 200.70 | 95.00 | 6940.05 | -224.18 | 224.18 | S | 143.41 | W | 266.13 | 212.61 | 0.43 | 0.42 | -3.05 |
| 72 | 7044.00 | 1.80 | 204.10 | 97.00 | 7036.99 | -227.31 | 227.31 | S | 144.69 | W | 269.46 | 212.48 | 0.43 | -0.41 | 3.51 |



Company: EP Energy
Well: Duchesne City 3-19C4
Location: Duchesne, UT
Rig: Precision 406

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

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

| Survey Number | Survey Depth (ft) | Inclination (deg) | Azimuth (deg) | Course Length (ft) | True Vertical Depth (ft) | Vertical Section (ft) | Coordinates | | Closure | | Dogleg Severity (d/100') | Build Rate (d/100') | Walk Rate (d/100') | | |
|---------------|-------------------|-------------------|---------------|--------------------|--------------------------|-----------------------|-------------|----------|---------------|-------------------|--------------------------|---------------------|--------------------|-------|--------|
| | | | | | | | N/S (ft) | E/W (ft) | Distance (ft) | Direction Azimuth | | | | | |
| 73 | 7139.00 | 2.20 | 198.50 | 95.00 | 7131.94 | -230.40 | 230.40 | S | 145.88 | W | 272.70 | 212.34 | 0.47 | 0.42 | -5.89 |
| 74 | 7236.00 | 1.50 | 196.50 | 97.00 | 7228.88 | -233.39 | 233.39 | S | 146.83 | W | 275.73 | 212.18 | 0.72 | -0.72 | -2.06 |
| 75 | 7332.00 | 2.10 | 191.60 | 96.00 | 7324.84 | -236.31 | 236.31 | S | 147.54 | W | 278.59 | 211.98 | 0.64 | 0.63 | -5.10 |
| 76 | 7428.00 | 1.70 | 188.60 | 96.00 | 7420.78 | -239.45 | 239.45 | S | 148.11 | W | 281.55 | 211.74 | 0.43 | -0.42 | -3.13 |
| 77 | 7523.00 | 1.90 | 188.10 | 95.00 | 7515.74 | -242.40 | 242.40 | S | 148.54 | W | 284.29 | 211.50 | 0.21 | 0.21 | -0.53 |
| 78 | 7620.00 | 1.40 | 197.90 | 97.00 | 7612.70 | -245.12 | 245.12 | S | 149.13 | W | 286.92 | 211.32 | 0.59 | -0.52 | 10.10 |
| 79 | 7716.00 | 1.70 | 195.20 | 96.00 | 7708.66 | -247.61 | 247.61 | S | 149.87 | W | 289.43 | 211.18 | 0.32 | 0.31 | -2.81 |
| 80 | 7812.00 | 1.70 | 200.70 | 96.00 | 7804.62 | -250.31 | 250.31 | S | 150.74 | W | 292.20 | 211.06 | 0.17 | 0.00 | 5.73 |
| 81 | 7908.00 | 2.10 | 195.40 | 96.00 | 7900.57 | -253.34 | 253.34 | S | 151.72 | W | 295.30 | 210.92 | 0.45 | 0.42 | -5.52 |
| 82 | 8005.00 | 2.30 | 189.50 | 97.00 | 7997.49 | -256.98 | 256.98 | S | 152.51 | W | 298.82 | 210.69 | 0.31 | 0.21 | -6.08 |
| 83 | 8101.00 | 1.30 | 205.00 | 96.00 | 8093.45 | -259.86 | 259.86 | S | 153.29 | W | 301.70 | 210.54 | 1.15 | -1.04 | 16.15 |
| 84 | 8197.00 | 1.10 | 182.80 | 96.00 | 8189.43 | -261.77 | 261.77 | S | 153.79 | W | 303.60 | 210.43 | 0.52 | -0.21 | -23.13 |
| 85 | 8293.00 | 0.30 | 100.40 | 96.00 | 8285.42 | -262.74 | 262.74 | S | 153.59 | W | 304.33 | 210.31 | 1.15 | -0.83 | -85.83 |
| 86 | 8391.00 | 1.00 | 220.00 | 98.00 | 8383.42 | -263.44 | 263.44 | S | 153.89 | W | 305.09 | 210.29 | 1.20 | 0.71 | 122.04 |
| 87 | 8487.00 | 2.10 | 243.10 | 96.00 | 8479.38 | -264.87 | 264.87 | S | 155.99 | W | 307.40 | 210.50 | 1.30 | 1.15 | 24.06 |
| 88 | 8536.00 | 2.20 | 250.80 | 49.00 | 8528.34 | -265.59 | 265.59 | S | 157.68 | W | 308.87 | 210.70 | 0.62 | 0.20 | 15.71 |
| 89 | 8600.00 | 1.74 | 262.25 | 64.00 | 8592.31 | -266.12 | 266.12 | S | 159.80 | W | 310.42 | 210.98 | 0.95 | -0.73 | 17.89 |
| 90 | 8700.00 | 1.55 | 250.79 | 100.00 | 8692.27 | -266.77 | 266.77 | S | 162.58 | W | 312.41 | 211.36 | 0.38 | -0.19 | -11.46 |
| 91 | 8800.00 | 1.88 | 225.26 | 100.00 | 8792.22 | -268.37 | 268.37 | S | 165.02 | W | 315.05 | 211.59 | 0.83 | 0.33 | -25.53 |
| 92 | 8900.00 | 2.02 | 216.81 | 100.00 | 8892.17 | -270.94 | 270.94 | S | 167.24 | W | 318.40 | 211.69 | 0.32 | 0.14 | -8.45 |
| 93 | 9000.00 | 2.33 | 198.42 | 100.00 | 8992.09 | -274.28 | 274.28 | S | 168.94 | W | 322.14 | 211.63 | 0.76 | 0.32 | -18.40 |
| 94 | 9100.00 | 2.79 | 201.93 | 100.00 | 9091.99 | -278.47 | 278.47 | S | 170.50 | W | 326.52 | 211.48 | 0.48 | 0.46 | 3.52 |
| 95 | 9200.00 | 3.04 | 189.78 | 100.00 | 9191.87 | -283.34 | 283.34 | S | 171.86 | W | 331.39 | 211.24 | 0.67 | 0.26 | -12.15 |
| 96 | 9300.00 | 2.87 | 196.00 | 100.00 | 9291.73 | -288.36 | 288.36 | S | 173.00 | W | 336.27 | 210.96 | 0.37 | -0.18 | 6.22 |
| 97 | 9400.00 | 3.03 | 194.53 | 100.00 | 9391.60 | -293.33 | 293.33 | S | 174.35 | W | 341.23 | 210.73 | 0.19 | 0.17 | -1.47 |
| 98 | 9500.00 | 2.99 | 193.49 | 100.00 | 9491.46 | -298.43 | 298.43 | S | 175.62 | W | 346.27 | 210.48 | 0.07 | -0.04 | -1.04 |
| 99 | 9600.00 | 3.40 | 191.52 | 100.00 | 9591.31 | -303.87 | 303.87 | S | 176.82 | W | 351.57 | 210.20 | 0.42 | 0.40 | -1.97 |
| 100 | 9700.00 | 3.51 | 195.41 | 100.00 | 9691.12 | -309.72 | 309.72 | S | 178.23 | W | 357.34 | 209.92 | 0.26 | 0.11 | 3.89 |
| 101 | 9800.00 | 3.33 | 197.61 | 100.00 | 9790.95 | -315.44 | 315.44 | S | 179.92 | W | 363.14 | 209.70 | 0.22 | -0.18 | 2.20 |
| 102 | 9900.00 | 3.33 | 195.92 | 100.00 | 9890.78 | -321.00 | 321.00 | S | 181.59 | W | 368.80 | 209.50 | 0.10 | 0.00 | -1.69 |
| 103 | 10000.00 | 3.21 | 191.49 | 100.00 | 9990.62 | -326.54 | 326.54 | S | 182.95 | W | 374.30 | 209.26 | 0.28 | -0.12 | -4.43 |
| 104 | 10100.00 | 3.21 | 193.08 | 100.00 | 10090.46 | -332.01 | 332.01 | S | 184.14 | W | 379.66 | 209.01 | 0.09 | 0.00 | 1.59 |
| 105 | 10200.00 | 3.56 | 189.11 | 100.00 | 10190.28 | -337.81 | 337.81 | S | 185.27 | W | 385.28 | 208.74 | 0.42 | 0.35 | -3.97 |
| 106 | 10300.00 | 3.48 | 192.50 | 100.00 | 10290.09 | -343.84 | 343.84 | S | 186.41 | W | 391.12 | 208.46 | 0.22 | -0.08 | 3.39 |
| 107 | 10400.00 | 3.45 | 191.62 | 100.00 | 10389.91 | -349.75 | 349.75 | S | 187.68 | W | 396.92 | 208.22 | 0.06 | -0.04 | -0.88 |
| 108 | 10500.00 | 3.88 | 193.99 | 100.00 | 10489.71 | -355.97 | 355.97 | S | 189.10 | W | 403.08 | 207.98 | 0.46 | 0.43 | 2.38 |
| 109 | 10600.00 | 3.52 | 192.80 | 100.00 | 10589.50 | -362.25 | 362.25 | S | 190.60 | W | 409.33 | 207.75 | 0.36 | -0.35 | -1.20 |



Company: EP Energy **Job Number:** _____
Well: Duchesne City 3-19C4 **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 | 10700.00 | 3.42 | 194.10 | 100.00 | 10689.32 | -368.14 | 368.14 | S | 192.01 | W | 415.20 | 207.54 | 0.13 | -0.10 | 1.31 |
| 111 | 10800.00 | 3.57 | 191.41 | 100.00 | 10789.13 | -374.08 | 374.08 | S | 193.35 | W | 421.09 | 207.33 | 0.22 | 0.15 | -2.69 |
| 112 | 10900.00 | 3.60 | 189.55 | 100.00 | 10888.93 | -380.23 | 380.23 | S | 194.48 | W | 427.08 | 207.09 | 0.12 | 0.04 | -1.86 |
| 113 | 11000.00 | 3.62 | 188.01 | 100.00 | 10988.74 | -386.45 | 386.45 | S | 195.44 | W | 433.06 | 206.83 | 0.10 | 0.02 | -1.54 |
| 114 | 11100.00 | 3.60 | 189.57 | 100.00 | 11088.54 | -392.67 | 392.67 | S | 196.41 | W | 439.05 | 206.57 | 0.10 | -0.02 | 1.56 |
| 115 | 11129.00 | 3.56 | 188.86 | 29.00 | 11117.48 | -394.45 | 394.45 | S | 196.70 | W | 440.78 | 206.50 | 0.21 | -0.14 | -2.45 |
| 116 | 11309.00 | 3.56 | 188.86 | 180.00 | 11297.13 | -405.49 | 405.49 | S | 198.41 | W | 451.43 | 206.07 | 0.00 | 0.00 | 0.00 |

CENTRAL DIVISION

ALTAMONT FIELD
DUCHESNE CITY 3-19C4
DUCHESNE CITY 3-19C4
DRILLING LAND

Operation Summary Report

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

1 General**1.1 Customer Information**

| | |
|----------------|------------------|
| Company | CENTRAL DIVISION |
| Representative | |
| Address | |

1.2 Well Information

| | | | |
|---------------------|--------------------------------------|----------|----------------------|
| Well | DUCHESNE CITY 3-19C4 | | |
| Project | ALTAMONT FIELD | Site | DUCHESNE CITY 3-19C4 |
| Rig Name/No. | PRECISION DRILLING/406 | Event | DRILLING LAND |
| Start date | 6/13/2015 | End date | |
| Spud Date/Time | 6/13/2015 | UWI | DUCHESNE CITY 3-19C4 |
| Active datum | KB @5,841.1ft (above Mean Sea Level) | | |
| Afe No./Description | 161259/54155 / DUCHESNE CITY 3-19C4 | | |

2 Summary**2.1 Operation Summary**

| Date | Time Start-End | Duration (hr) | Phase | Activity | Sub | OP Code | MD from (ft) | Operation |
|-----------|----------------|---------------|---------|----------|-----|---------|--------------|--|
| 5/30/2015 | 6:00 8:00 | 2.00 | CASCOND | 24 | | P | 0.0 | SET 57' 20" CONDUCTOR, SET MOUSE HOLE @ 80'. ADDED RKB CORRECTION FOR PD 406. |
| | 8:00 9:00 | 1.00 | CASCOND | 24 | | P | 57.0 | DRILL 17½" HOLE TO 673'. RAN 15 JTS 13-3/8" 54.5# N-80 ST&C TO 649'. FC @ 602' SHOE 649'. ADDED RKB CORRECTION FOR PD 406. |
| | 9:00 10:00 | 1.00 | CASCOND | 25 | | P | 673.0 | M&P PUMPED 72 BBLS H2O. 800 SXS (163.8 BBLS) PREMIUM G LEAD CMT @ 15.8 PPG, 1.15 YLD. RELEASED TOP PLUG. DISPLACED WITH 93 BBLS OF H2O @ 7 BPM. BUMPED PLUG @ 06:59HRS 5/28/15 WITH 900 PSI. 0.5 BBL BLED BACK, FLOATS HELD. 35 BBLS CMT TO SURFACE. |
| | 10:00 11:30 | 1.50 | CASSURF | 24 | | P | 673.0 | DRILL 12¼" HOLE TO 2,228'. RAN 50 JTS 9-5/8" 40# N-80 LT&C TO 2,217'. FC @ 2,171' SHOE 2,217'. ADDED RKB CORRECTION FOR PD 406. |
| | 11:30 14:30 | 3.00 | CASSURF | 25 | | P | 2,228.0 | M&P PUMPED 100 BBLS H2O. 420 SXS (177 BBLS) EXTENDACEM LEAD CMT @ 12 PPG, 2.37 YLD TAILED WITH 200 SXS (46.3 BBLS) OF HALCEM CMT @ 14.3 PPG, 1.30 YIELD. RELEASED TOP PLUG. DISPLACED WITH 164.5 BBLS OF H2O @ 6-4 BPM. BUMPED PLUG @ 05:31HRS 5/30/15 WITH 1,116 PSI. 0.5 BBL BLED BACK, FLOATS HELD. 65 BBLS CMT TO SURFACE. |
| | 14:30 6:00 | 15.50 | CASSURF | 25 | | P | 2,228.0 | RAN 1" TO 20' TOP OUT WITH 75 SX (15.7 BBLS) PREMIUM G LEAD CMT @ 15.8 PPG, 1.18 YLD. 5 BBLS TO SURFACE. WOC, NO FALL. RIG DOWN & CLEAR LOCATION. |
| 6/11/2015 | 6:00 6:00 | 24.00 | MIRU | 01 | | P | 2,228.0 | 100% MOVED IN. 80% SPOTTED. 30% RIGGED UP. |
| 6/12/2015 | 6:00 2:00 | 20.00 | MIRU | 01 | | P | 2,228.0 | RIG UP. PREP & RAISED DERRICK. RU TOP DRIVE. 100% RIGGED UP. PERFORMED RIG INSPECTION. RIG ON RATE @ 02:00 HRS 06/12/2015. |
| | 2:00 6:00 | 4.00 | CASSURF | 28 | | P | 2,228.0 | PJSM. NU 11" 10M BOPE & INSTALL FLOW LINE. PJSM. TORQUE BOLTS W/ WEATHERFORD. |
| 6/13/2015 | 6:00 9:30 | 3.50 | CASSURF | 28 | | P | 2,228.0 | NU 11" 10M BOPE & INSTALLED FLOW LINE. PJSM. TORQUE BOLTS W/ WEATHERFORD. RU TEST UNIT. |

2.1 Operation Summary (Continued)

| Date | Time Start-End | Duration (hr) | Phase | Activity | Sub | OP Code | MD from (ft) | Operation |
|-----------|----------------|---------------|---------|----------|-----|---------|--------------|---|
| | 9:30 16:30 | 7.00 | CASSURF | 19 | | P | 2,228.0 | TEST 11" 5M ANNULAR TO 250 / 2,500 PSI AND REMAINING BOPE, FLOOR VALVES, ETC TO 250 / 5,000 PSI. TESTED CHOKE MANIFOLD TO 250 / 10,000 PSI. HELD EACH TEST 10 MINUTES. |
| | 16:30 17:30 | 1.00 | CASSURF | 31 | | P | 2,228.0 | TESTED CSG TO 2,500 PSI. OK. RD TESTER. |
| | 17:30 18:00 | 0.50 | CASSURF | 12 | | P | 2,228.0 | SERVICED RIG. CK SETTINGS ON IRON ROUGHNECK & CYLINDER ON FLOOR TONGS. |
| | 18:00 19:00 | 1.00 | CASSURF | 43 | | N | 2,228.0 | REPAIRED TOP DRIVE. |
| | 19:00 19:30 | 0.50 | CASSURF | 42 | | P | 2,228.0 | INSTALLED WEAR BUSHING. |
| | 19:30 23:30 | 4.00 | CASSURF | 14 | | P | 2,228.0 | PJSM. PU 8¾" BIT, DIRECTIONAL TOOLS & SCRIBE. PREFORMED SURFACE TEST. PU BHA & 4 1/2" DP. TIH T/ 2,011'. CHECKED DEGREE OF BEND ON MOTOR W/ PROTRACTOR (1.44). |
| | 23:30 0:00 | 0.50 | CASSURF | 42 | | P | 2,228.0 | INSTALLED ROTATING ELEMENT. |
| | 0:00 1:30 | 1.50 | CASSURF | 17 | | P | 2,228.0 | SLIP & CUT DRILL LINE. |
| | 1:30 2:00 | 0.50 | CASSURF | 31 | | P | 2,228.0 | CIRC WATER OUT OF HOLE. PREFORMED PRE FIT CSG TEST 730 PSI. |
| | 2:00 3:00 | 1.00 | CASSURF | 32 | | P | 2,228.0 | DRILL OUT CMT & FE. |
| | 3:00 3:30 | 0.50 | DRLINT1 | 08 | | P | 2,228.0 | DRILLED 2,228' - 2,238', |
| | 3:30 4:00 | 0.50 | DRLINT1 | 33 | | P | 2,238.0 | CBU & PERFORMED FIT TEST TO 15.48 EMW WITH 9.3 PPG MUD @ 715 PSI. |
| | 4:00 6:00 | 2.00 | DRLINT1 | 08 | | P | 2,238.0 | DRILLED 2,238' - 2,395'. SPUD @ 04:00 6/13/15. |
| 6/14/2015 | 6:00 13:30 | 7.50 | DRLINT1 | 08 | | P | 2,395.0 | DRILLED 2,395' - 3,256'. |
| | 13:30 14:00 | 0.50 | DRLINT1 | 12 | | P | 3,256.0 | SERVICED RIG & TD. |
| | 14:00 23:30 | 9.50 | DRLINT1 | 08 | | P | 3,256.0 | DRILLED 3,256' - 4,311'. |
| | 23:30 0:00 | 0.50 | DRLINT1 | 12 | | P | 4,311.0 | SERVICED RIG & TD. |
| | 0:00 6:00 | 6.00 | DRLINT1 | 08 | | P | 4,311.0 | DRILLED 4,311' - 4,920'. |
| 6/15/2015 | 6:00 15:30 | 9.50 | DRLINT1 | 08 | | P | 4,920.0 | DRILLED 4,920' - 5,849'. |
| | 15:30 16:00 | 0.50 | DRLINT1 | 12 | | P | 5,849.0 | SERVICE RIG & TD. |
| | 16:00 0:30 | 8.50 | DRLINT1 | 08 | | P | 5,849.0 | DRILLED 5,849' - 6,329'. |
| | 0:30 1:00 | 0.50 | DRLINT1 | 12 | | P | 6,329.0 | SERVICE RIG & TD. |
| | 1:00 6:00 | 5.00 | DRLINT1 | 08 | | P | 6,329.0 | DRILLED 6,329' - 6,712'. |
| 6/16/2015 | 6:00 15:30 | 9.50 | DRLINT1 | 08 | | P | 6,712.0 | DRILLED 6,712' - 7,289'. |
| | 15:30 16:00 | 0.50 | DRLINT1 | 12 | | P | 7,289.0 | SERVICE RIG & TD. |
| | 16:00 23:30 | 7.50 | DRLINT1 | 08 | | P | 7,289.0 | DRILLED 7,289' - 7,673'. |
| | 23:30 0:00 | 0.50 | DRLINT1 | 12 | | P | 7,673.0 | SERVICE RIG & TD. |
| | 0:00 6:00 | 6.00 | DRLINT1 | 08 | | P | 7,673.0 | DRILLED 7,673' - 7,961'. |
| 6/17/2015 | 6:00 15:00 | 9.00 | DRLINT1 | 08 | | P | 7,961.0 | DRILLED F/ 7,961' T/ 8,540'. |
| | 15:00 15:30 | 0.50 | DRLINT1 | 12 | | P | 8,540.0 | SERVICED RIG & TD. |
| | 15:30 18:00 | 2.50 | DRLINT1 | 08 | | P | 8,540.0 | DRILLED F/ 8,540' T, 8,589'. INT TD @ 18:00 HRS 6-16-15. 35' OF UNSEEN SLIDE. |
| | 18:00 23:30 | 5.50 | DRLINT1 | 15 | | P | 8,589.0 | C&C MUD. RMW F/ 9.8 PPG T/ 10.0 PPG. MAX GAS 6,850 UNITS PASON, 3990 UNITS 3RD PARTY. 8/10 MUD CUT. RMW F/ 10.0 PPG T/ 10.2 PPG. SIMULATE CONNECTION, CIRC BU. MAX GAS 1239 UNITS PASON, 213 UNITS 3RD PARTY. CHECKED FLOW (NEG). |
| | 23:30 6:00 | 6.50 | DRLINT1 | 13 | | P | 8,589.0 | WIPER TRIP. PULLED 5 STANDS, PUMPED SLUG. PULLED 60 STANDS T/ 2,395'. SHUT DOWN EM TOOL. BACKREAMED F/ 5,422' T/ 5,418'. CHECKED FLOW 8,589', 6,000', 3,900', 2,395'. |
| 6/18/2015 | 6:00 11:00 | 5.00 | EVLINT1 | 13 | | P | 8,589.0 | WIPER TRIP. TIH BREAKING CIRCULATION EVERY 10 STANDS. |
| | 11:00 14:30 | 3.50 | EVLINT1 | 15 | | P | 8,589.0 | C&C MUD. MAX GAS 8,400 UNITS (PASON), 4,832 UNITS (3RD PARTY), 9/10 MUD CUT. NO GAINS/ LOSSES. RMW F/ 10.2 PPG T/ 10.4 PPG. CHECKED FLOW (NEG). PUMPED SLUG. |
| | 14:30 23:30 | 9.00 | EVLINT1 | 14 | | P | 8,589.0 | LDDP, BHA & DIRECTIONAL TOOLS. |
| | 23:30 0:00 | 0.50 | EVLINT1 | 12 | | P | 8,589.0 | PULLED WEAR BUSHING & CLEAN RIG FLOOR. |

2.1 Operation Summary (Continued)

| Date | Time Start-End | Duration (hr) | Phase | Activity | Sub | OP Code | MD from (ft) | Operation |
|-------------|----------------|---------------|---------|----------|-----|---------|--------------|---|
| 6/19/2015 | 0:00 5:30 | 5.50 | EVLINT1 | 22 | | P | 8,589.0 | PJSM. RU HES LOGGING UNIT. RAN STANDARD QUAD COMBO. LOGGERS DEPTH 8,590'. RD HES LOGGING UNIT. REDUCED MW IN PITS F/ 10.4 PPG T/ 9.9 PPG. |
| | 5:30 6:00 | 0.50 | CASINT1 | 42 | | P | 8,589.0 | CHANGED OUT BAILS & ELEVATORS. |
| | 6:00 23:30 | 17.50 | CASINT1 | 24 | | P | 8,589.0 | RAN 206 JTS 7" 20# HCP-110 LT&C CSG TO 8,586'. FLOAT COLLAR @ 8,546', MARKER JT @ 6,680'. CBU @ SHOE. BREAK CIRC EVERY 1,000' & CIRC BU 2,000'. NO LOSSES. PU TAG JT TAG BOTTOM @ 8,589'. LD TAG JT. SPACED OUT W/ 15' PUP JT & LANDING JT. LOST 40 BBLS RUNNING CASING. |
| | 23:30 1:30 | 2.00 | CASINT1 | 15 | | P | 8,589.0 | C & C MUD @ 1 - 6 BPM. MAX GAS 7,500 UNITS. 5-6 FLARE. NO LOSSES. FINAL CIRC PRESSURE 424 PSI. HELD PJSM FOR CEMENT OPS. |
| 6/19/2015 | 1:30 5:00 | 3.50 | CASINT1 | 25 | | P | 8,589.0 | RU HES CEMENTERS. PUMPED 40 BBLS 10.2 PPG TUNED SPACER. 750 SX (255.0 BBLS) EXTENDACHEM LEAD CMT @ 12.5 PPG, 1.91 YLD TAILED WITH 320 SXS (93 BBLS) OF EXPANDACHEM CMT @ 13 PPG, 1.64 YIELD. RELEASED TOP PLUG. DISPLACED WITH 312 BBLS OF 9.9 PPG MUD @ 6 - 3 BPM. BUMPED PLUG @ 04:00 HRS 6/19/15 WITH 2127 PSI. 2.25 BBL BLED BACK, FLOATS HELD. RD CEMENTERS. RETURNS SLOWED LAST 70 BBLS DISP, TOTAL LOST 60 BBLS DURING CMT OPS. 20 BBLS SPACER CAME BACK TO SURFACE. EST TOC 1,800'. |
| | 5:00 6:00 | 1.00 | CASINT1 | 27 | | P | 8,589.0 | LD LANDING JT. WEATHERFORD INSTALLED & TEST PACK-OFF TO 5,000 PSI FOR 15 MIN. |
| | 6/20/2015 | 6:00 7:30 | 1.50 | CASINT1 | 31 | | P | 8,589.0 |
| 6/20/2015 | 7:30 13:00 | 5.50 | CASINT1 | 19 | | P | 8,589.0 | PJSM. RU & TESTED 11" 5M ANNULAR TO 250 / 4,000 PSI, RAMS & REMAINING BOPE, FLOOR VALVES, ETC TO 250 / 10,000 PSI. HOLD EACH TEST 10 MINUTES. RMW F/ 9.9 PPG T/ 11.0 PPG. |
| | 13:00 13:30 | 0.50 | CASINT1 | 12 | | P | 8,589.0 | SERVICED RIG & TD. |
| | 13:30 23:30 | 10.00 | CASINT1 | 13 | | P | 8,589.0 | PU BIT #2 & PACKED HOLE ASSEMBLY. PU 4" XT 39 DP TO 8,383'. |
| | 23:30 1:00 | 1.50 | CASINT1 | 17 | | P | 8,589.0 | SLIP & CUT DRILL LINE. |
| | 1:00 1:30 | 0.50 | CASINT1 | 12 | | P | 8,589.0 | SERVICED RIG & TD. |
| | 1:30 2:00 | 0.50 | CASINT1 | 31 | | P | 8,589.0 | PRE FIT CASING TEST. (1965 PSI) |
| | 2:00 3:30 | 1.50 | DRLPRD | 32 | | P | 8,589.0 | DRILL CMT, FE, 10 NH. |
| | 3:30 4:00 | 0.50 | DRLPRD | 33 | | P | 8,599.0 | CIRC BU. PREFORM FIT T/ 13.9 PPG EMW (1279 PSI W/ 11.0 PPG) |
| | 4:00 6:00 | 2.00 | DRLPRD | 07 | | P | 8,599.0 | DRILLED F/ 8599' T/ 8,732'. |
| | 6/21/2015 | 6:00 10:30 | 4.50 | DRLPRD | 07 | | P | 8,732.0 |
| 10:30 11:00 | | 0.50 | DRLPRD | 15 | | P | 9,140.0 | C & C MUD. |
| 11:00 12:00 | | 1.00 | DRLPRD | 11 | | P | 9,140.0 | WIRELINE SURVEY @ 9,110 2.95 DEG. |
| 12:00 16:00 | | 4.00 | DRLPRD | 07 | | P | 9,140.0 | DRILLED F/ 9,140' T/ 9,423'. |
| 16:00 16:30 | | 0.50 | DRLPRD | 12 | | P | 9,423.0 | SERVICE RIG & TD. |
| 16:30 23:30 | | 7.00 | DRLPRD | 07 | | P | 9,423.0 | DRILLED F/ 9,423' T/ 9,896'. |
| 23:30 0:00 | | 0.50 | DRLPRD | 12 | | P | 9,896.0 | SERVICE RIG & TD. |
| 0:00 6:00 | | 6.00 | DRLPRD | 07 | | P | 9,896.0 | DRILLED F/ 9,896' T/ 10,367 |
| 6/22/2015 | 6:00 14:00 | 8.00 | DRLPRD | 07 | | P | 10,367.0 | DRILLED F/ 10,367' T/ 10,840'. |
| | 14:00 14:30 | 0.50 | DRLPRD | 12 | | P | 10,840.0 | SERVICED RIG & TD. |
| | 14:30 0:00 | 9.50 | DRLPRD | 07 | | P | 10,840.0 | DRILLED F/ 10,840' T/ 11,309'. TD @ 00:00 HRS 6-22-2015. |
| | 0:00 1:30 | 1.50 | EVLPRD | 15 | | P | 11,309.0 | C&C MUD. SIMULATE CONNECTION. CIRC BU. MAX GAS 1029 UNITS PASON, 57 UNITS 3RD PARTY. NO MUD CUT. NO GAINS/LOSSES. CHECKED FLOW (NEG). |

2.1 Operation Summary (Continued)

| Date | Time Start-End | Duration (hr) | Phase | Activity | Sub | OP Code | MD from (ft) | Operation |
|-----------|----------------|---------------|---------|----------|-----|---------|--------------|--|
| | 1:30 3:00 | 1.50 | EVLPRD | 13 | | P | 11,309.0 | WIPER TRIP. PULLED 5 STANDS, PUMPED SLUG. PULLED 25 STANDS (8,479') INTO 7" CSG. |
| | 3:00 3:30 | 0.50 | EVLPRD | 12 | | P | 11,309.0 | CHECKED FLOW (NEG). SERVICED RIG & TD. |
| | 3:30 5:00 | 1.50 | EVLPRD | 13 | | P | 11,309.0 | BREAK CIRC @ SHOE. TIH 15 STANDS T/ 9,896'. BREAK CIRC. TIH 15 STANDS T/ 11,309'. |
| | 5:00 6:00 | 1.00 | EVLPRD | 15 | | P | 11,309.0 | C&C MUD. |
| 6/23/2015 | 6:00 8:30 | 2.50 | EVLPRD | 15 | | P | 11,309.0 | SIMULATE CONNECTION. CBU W/ 12.0 MW. MAX GAS 178 UNITS. NO FLARE. NO GAIN. NO MUD LOSS. FLOW CK. |
| | 8:30 14:30 | 6.00 | EVLPRD | 13 | | P | 11,309.0 | POOH TO LOG W/ HALLIBURTON. DROPPED DP RABBIT. FC @ 8,472' , 5,649', 2,827', 660'. |
| | 14:30 15:00 | 0.50 | EVLPRD | 12 | | P | 11,309.0 | SERVICE RIG & TD. |
| | 15:00 20:00 | 5.00 | EVLPRD | 22 | | P | 11,309.0 | PJSM. RU HES. RIH WITH ULTRA SLIM COMBO. LOGGERS DEPTH 11,317' LOG UP. RD HES LOGGING UNIT. REDUCED MW IN PITS F/ 12.0 PPG T/ 11.6 PPG. |
| | 20:00 1:30 | 5.50 | CASPRD1 | 24 | | P | 11,309.0 | PJSM. RU & MU SHOE TRACK & TEST. RAN 69 JTS 5" 18# P-110HC STL LINER. 2 MARKER JT. MADE UP VERSAFLEX LINER HANGER ASSEMBLY & SETTING TOOL. |
| | 1:30 2:30 | 1.00 | CASPRD1 | 15 | | P | 11,309.0 | INSTALLED ROTATING ELEMENT. CIRC 11.6 PPG AROUND @ 2.5 BPM. RD CSG CREW. |
| | 2:30 6:00 | 3.50 | CASPRD1 | 24 | | P | 11,309.0 | TIH W/ 5" LINER ON 4" DP @ 75 FPM TO 5,360'. BREAK CIRC EVERY 1,000'. CBU @ 2,000' @ 2.5 BPM. |
| 6/24/2015 | 6:00 11:00 | 5.00 | CASPRD1 | 24 | | P | 11,309.0 | TIH W/ 5" LINER ON 4" DP @ 85 FPM TO 8,580'. BREAK CIRC 1,000'. CIRC BU EVERY 2000' @ 2.5 BPM. MAX GAS 856 UNITS, NO MC, NO FLARE FINAL BG 139 UNITS. NO LOSSES CIRC. |
| | 11:00 15:30 | 4.50 | CASPRD1 | 24 | | P | 11,309.0 | TIH @ 60 FPM WITH 5" LINER ON 4" DP. BREAK CIRC 1,000 & CIRC BU EVERY 2,000'. TAG BTM WITH 10K. NO LOSSES. SPACED OUT & RU CMT HEAD. |
| | 15:30 18:00 | 2.50 | CASPRD1 | 15 | | P | 11,309.0 | CIRC 2X BU. 1- 2.5 BPM, MAX GAS 8151 UNITS, 9/10 MC. NO FLARE, NO GAIN. FINAL CIRC PRESSURE 479 PSI @ 2.5 BPM. NO FLUID LOSS DURING CIRCULATION. FINAL BGG 279 UNITS. |
| | 18:00 20:30 | 2.50 | CASPRD1 | 25 | | P | 11,309.0 | RU HES & TESTED LINES TO 8,500 PSI. PUMPED 20 BBLS 11.8 PPG TUNED SPACER & 320 SKS (84 BBLS) 14.2 PPG WITH 1.52 YIELD EXPANDACEM CMT @ 35% EXCESS. WASHED LINES. DROPPED DP DART. PUMPED 60 BBLS H2O WITH 2% KCL 0.1 % BIOCIDES, 72 BBLS 11.6 PPG MUD. BUMP PLUG @ 21:09 WITH 2,980 PSI. FINAL CIRC CIRC PRESSURE 2,250 PSI. NO LOSSES. |
| | 20:30 21:30 | 1.00 | CASPRD1 | 25 | | P | 11,309.0 | RELEASED BALL, RUPTURE DISC @ 5,386 PSI. PUMPED 42.5 BBLS, PRESSURED TO 7,880 PSI, EXPANDED HANGER. PULL TESTED LINER WITH 80K OVERPULL. SAT DOWN 70K , RELEASED SETTING TOOL FROM LINER HANGER. LANDED FS @ 11,306', FC @ 11,264', LC @ 11,220'. TOL @ 8,413'. 173' OF LAP. TOTAL LINER 2,896'. MARKER JT TOP @ 10,297', 9300'. |
| | 21:30 23:00 | 1.50 | CASPRD1 | 15 | | P | 11,309.0 | PULLED UP TO TOL. OBSERVED 2 OVERPULL OF 6K THROUGH CLAD SECTION. CIRC 1.5 TIMES ANNULAR VOLUME. 20 BBLS SPACER & 15 BBLS WEIGHTED CEMENT TO SURFACE. FC, WELL STATIC. POSITIVE TEST TOL TO 1,000 PSI FOR 10MIN, GOOD TEST. |
| | 23:00 1:30 | 2.50 | CASPRD1 | 15 | | P | 11,309.0 | PUMPED 300 BBLS H2O WITH NO ADDITIVES, 300 BBLS H2O WITH 2% KCL 0.1 % BIOCIDES TILL CLEAN RETURNS. FLOW CHECK, WELL STATIC. RD HES. |
| | 1:30 6:00 | 4.50 | CASPRD1 | 14 | | P | 11,309.0 | LD DP. FLUSH MUD LINES & CLEAN PITS. |
| 6/25/2015 | 6:00 12:30 | 6.50 | CASPRD1 | 14 | | P | 11,309.0 | LD DP & DC. |
| | 12:30 14:30 | 2.00 | CASPRD1 | 29 | | P | 11,309.0 | ND BOPE. |
| | 14:30 16:00 | 1.50 | CASPRD1 | 27 | | P | 11,309.0 | INSTALL TBG HEAD & FRAC VALVE. TESTED HEAD TO 5,000 PSI FOR 30MIN. RIG RELEASED @ 16:00 HRS 06/24/15. |

2.1 Operation Summary (Continued)

| Date | Time Start-End | Duration (hr) | Phase | Activity | Sub | OP Code | MD from (ft) | Operation |
|------|-------------------|------------------|-------|----------|-----|------------|-----------------|---|
| | 16:00 6:00 | 14.00 | RDMO | 02 | | P | 11,309.0 | RIG DOWN & PREP FOR MOVE TO TOMLINSON-BERRETT 4-7C4. 100% RIGGED DOWN. |

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CENTRAL DIVISION

ALTAMONT FIELD
DUCHESNE CITY 3-19C4
DUCHESNE CITY 3-19C4
COMPLETION LAND

Operation Summary Report

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

1 General

1.1 Customer Information

| | |
|----------------|------------------|
| Company | CENTRAL DIVISION |
| Representative | |
| Address | |

1.2 Well Information

| | | | |
|---------------------|--------------------------------------|----------|----------------------|
| Well | DUCHESNE CITY 3-19C4 | | |
| Project | ALTAMONT FIELD | Site | DUCHESNE CITY 3-19C4 |
| Rig Name/No. | | Event | COMPLETION LAND |
| Start date | 7/2/2015 | End date | |
| Spud Date/Time | 6/13/2015 | UWI | DUCHESNE CITY 3-19C4 |
| Active datum | KB @5,841.1ft (above Mean Sea Level) | | |
| Afe No./Description | 161259/54155 / DUCHESNE CITY 3-19C4 | | |

2 Summary

2.1 Operation Summary

| Date | Time Start-End | Duration (hr) | Phase | Activity | Sub | OP Code | MD from (ft) | Operation |
|----------|----------------|---------------|--------|----------|-----|---------|--------------|---|
| 7/2/2015 | 6:00 11:00 | 5.00 | WLWORK | 28 | | P | | WAIT ON EQUIPMENT. HELD SAFETY MEETING ON RIGGING UP WIRELINE. FILLED OUT JSA. |
| | 11:00 17:00 | 6.00 | WLWORK | 22 | | P | | RU WIRELINE RIH W/ GR/JB CORRELATED TO LINER TOP AND SHORT JTS. TAGGED FILL @ 11129'. POOH. RIH CORRELATED GAMMA RAY TO HALLIBURTONS ULTRA-SLIM SPECTRAL DENSITY DUAL SPACED NEUTRON ARRAY COMPENSATED TRUE RESISTIVITY LOG RUN #2 DATED 22-JUN-15. RAN CUTTERS RADIAL CBL, CCL GAMMA RAY LOG FROM 11128' TO 2000' UNDER 4000 PSI. RD WIRELINE CLOSED 7" MANUAL FRAC VALVE AND INSTALLED NIGHT CAP. SDFN. |
| 7/7/2015 | 6:00 7:30 | 1.50 | WOR | 28 | | P | | CT HOLD SAFETY MTG ON ROADING RIG & EQUIP TO LOC, WRITE & REVIEW JSA'S |
| | 7:30 9:00 | 1.50 | MIRU | 01 | | P | | ROAD RIG TO LOC. SPOT IN & RU RIG |
| | 9:00 10:00 | 1.00 | WOR | 16 | | P | | ND 10K NIGHT CAP, NU 5K BOP ON TOP OF 7" 10K FRAC VALVE, RU WORK FLOOR & TBG TONGS |
| | 10:00 17:00 | 7.00 | WOR | 24 | | P | | TALLY PU & RIH W/ 4-1/8" ROCK BIT, BIT SUB, 92 JTS 2-3/8" EUE N-80 WORK STRING TBG, 2-7/8" X 2-3/8" EUE X OVER & 250 JTS 2-7/8" EUE L-80 TBG TAG FILL @ 11094', LD 1 JT 2-7/8" TBG |
| 7/8/2015 | 6:00 7:30 | 1.50 | WOR | 28 | | P | | RU POWER SWIVEL & RUN PUMP LINES, SECURE WELL, CLOSE & LOCK PIPE RAMS, INSTALL & CLOSE TIW VALVE W/ NIGHT CAP, CLOSE & NIGHT CAP CSG VALVES, SDFN |
| | 7:30 10:30 | 3.00 | WOR | 10 | | P | | CREW TRAVEL HOLD SAFETY MTG ON MAKING CONNECTIONS W/ POWER SWIVEL WRITE & REVIEW JSA'S |
| | 10:30 16:00 | 5.50 | WOR | 24 | | P | | 0 PSION WELL, OPEN WELL MU 1 JT W/ POWER SWIVEL, BEGIN CIRCULATING & CLEAN OUT TO LANDING COLLAR @ 11240' TBGM, CIRC WELL BORE CLEAN W/ 360 BBLs TREATED 2% KCL, LD 1 JT W/ POWER SWIVEL & RD POWER SWIVEL |
| | 16:00 18:00 | 2.00 | WOR | 16 | | P | | POOH LD 254 JTS 2-7/8" EUE L-80 TBG, 2-7/8" X 2-3/8" EUE X OVER, 92 JTS 2-3/8" WORK STRING, BIT SUB & 4-1/8" ROCK BIT, CLOSE 7" 10K FRAC VALVE |
| | | | | | | | | RD TBG TONGS & WORK FLOOR, ND 5K BOP, NU 7" 10K NIGHT CAP, CLOSE CSG VALVES & NIGHT CAP, RIG DWN RIG, PU LOCATION & SDFN |

2.1 Operation Summary (Continued)

| Date | Time Start-End | Duration (hr) | Phase | Activity | Sub | OP Code | MD from (ft) | Operation |
|-----------|----------------|---------------|---------|----------|-----|---------|--------------|--|
| 7/10/2015 | 6:00 7:30 | 1.50 | SITEPRE | 28 | | P | | TRAVEL TO LOC, HOLD SAFETY MEETING ON OVER HEAD LOADS W/ CRANE, WRITE & REVIEW JSA'S |
| | 7:30 14:00 | 6.50 | SITEPRE | 01 | | P | | ND 10K NIGHT CAP OFF OF 7" 10K FRAC VALVE, NU 10K FRAC STACK, TEST CSG TO 9000 PSI FOR 30 MIN W/ SURFACE CSG OPEN GOOD TEST & NO COMMUNICATION, TEST STACK TO 10,000 PSI GOOD TEST, RUN FLOW BACK LINES & MANIFOLD, RUN WATER TRANSFER LINES, CLOSE & LOCK ALL VALVES ON FRAC STACK, CLOSE & NIGHT CAP CSG VALVES, SDFN |
| 7/11/2015 | 6:00 7:30 | 1.50 | WLWORK | 28 | | P | | TRAVEL TO LOCATION HOLD SAFETY MTG ON PERFORATING, WRITE & REVIEW JSA'S |
| | 7:30 13:30 | 6.00 | WLWORK | 21 | | P | | RU WIRE LINE RIH W/ CCL/ GAMMA RAY TAG UP @ 11228', RUN GAMMA RAY FROM 11228' TO 10900' & CORRELATE TO HALLIBURTON OPEN HOLE LOG RUN 2 JUNE 22/2015, POOH PU PERF GUN & RIH & PERF STG 1 PERFS FROM 12209' TO 10882' USING 2-3/4" TITAN PERFECTASDP GUNS 16 GRAM CHARGES @ 120 DEG PHASING, STARTING PRESSURE 1000 PSI ENDING PRESSURE 850 PSI, POOH W/ WL, SHUT IN 7" 10K FRAC VALVE, CLOSE & LOCK 2 HCR VALVES, NIGHT CAP TOP OF STACK, FLOW CROSS VALVES & CSG VALVES CLOSED & NIGHT CAPPED, MIRU BOSQUE & TREAT FRAC LINE TANKS W/ CHLORINE DIOXIDE, SDFD |
| 7/12/2015 | 6:00 1:40 | 19.67 | SITEPRE | 01 | | P | | HOLD SAFETY MTG ON HEATING FRAC WTR, MIRU FRAC HEATERS & HEAT FRAC WTR |
| 7/13/2015 | 6:00 14:00 | 8.00 | SITEPRE | 01 | | P | | TRAVEL TO LOC HOLD SAFETY MTG ON RU FRAC EQUIP, WRITE & REVIEW JSA'S, SPOT IN & RU FRAC EQUIP |
| 7/14/2015 | 6:00 7:30 | 1.50 | STG01 | 28 | | P | | TRAVEL TO LOC HOLD SAFETY MTG ON FRACING OPERATIONS WRITE & REVIEW JSA'S |
| | 7:30 8:00 | 0.50 | STG01 | 18 | | P | | START & WARM UP EQUIP |
| | 8:00 9:30 | 1.50 | STG01 | 35 | | P | | PRESSURE TEST PUMP LINES TO 9456 PSI. OPEN WELL. SICP 15 PSI. BREAK DOWN STAGE 1 PERFORATIONS @ 4191 PSI, PUMPING 10 BPM. BRING RATE UPTO 41 BPM. PUMP 96 TTL BBLS FLUID THEN PERFORM STEP RATE SHUT DOWN TEST. ISIP 3757 PSI. FG .77. 5 MIN 3716 PSI. 10 MIN 3707 PSI. TREAT STAGE 1 PERFORATIONS W/ 5000 GALLONS HCL ACID, 3000 LBS 100 MESH SAND IN 1/2 PPG STAGE & 150,500 LBS TLC 30/50 SAND IN 1/2 PPG, 1 PPG, 2 PPG & 3 PPG STAGES. ISIP 4056 PSI. FG .80. AVG RATE 75.4 BPM. MAX RATE 75.7 BPM. AVG PSI 4788 PSI. MAX PSI 6989 PSI. SHUT IN WELL, & TURN OVER TO WIRE LINE. 3894 BBLS FLUID TO RECOVER. |
| | 9:30 11:00 | 1.50 | STG02 | 21 | | P | | TEST W.L. LUBRICATOR TO 5500 PSI, RIH & SET 5" CBP @ 10850'. PERFORATE STAGE 2 PERFORATIONS FROM 10840' TO 10521'. USING 2-3/4" TITAN PERFECTA SDP GUNS, 16 GRAM CHARGES, 3 SPF, 120 DEGREE PHASING. STARTING PRESSURE 4000 PSI, ENDING 3600 PSI, POOH W/ W.L., SHUT WELL IN & TURN OVER TO FRAC CREW |
| | 11:00 12:30 | 1.50 | STG02 | 35 | | P | | PRESSURE TEST PUMP LINES TO 9535 PSI. OPEN WELL. SICP 3683 PSI. BREAK DOWN STAGE 2 PERFORATIONS @ 3961 PSI, PUMPING 10 BPM. BRING RATE UPTO 42 BPM. PUMP 86 TTL BBLS FLUID THEN PERFORM STEP RATE SHUT DOWN TEST. ISIP 3895 PSI. FG .86. 5 MIN 3797 PSI. 10 MIN 3770 PSI. TREAT STAGE 2 PERFORATIONS W/ 5000 GALLONS HCL ACID, 3000 LBS 100 MESH SAND IN 1/2 PPG STAGE & 149900 LBS TLC 30/50 SAND IN 1/2 PPG, 1 PPG, 2 PPG & 3 PPG STAGES. ISIP 4094 PSI. FG .81. AVG RATE 75.5 BPM. MAX RATE 75.7 BPM. AVG PSI 5026 PSI. MAX PSI 7203 PSI. SHUT IN WELL, & TURN OVER TO WIRE LINE. 4128 BBLS FLUID TO RECOVER. |

2.1 Operation Summary (Continued)

| Date | Time Start-End | Duration (hr) | Phase | Activity | Sub | OP Code | MD from (ft) | Operation |
|-----------|----------------|---------------|-------|----------|-----|---------|--------------|---|
| | 12:30 13:45 | 1.25 | STG03 | 21 | | P | | RIH & SET 5" CBP @ 10491'. PERFORATE STAGE 3 PERFORATIONS FROM 10477' TO 10219', USING 2-3/4" TITAN PERFECTA SDP GUNS, 16 GRAM CHARGES, 3 SPF, 120 DEGREE PHASING. STARTING PRESSURE 4000 PSI, ENDING 3600 PSI, POOH W/ W.L., SHUT WELL IN & TURN OVER TO FRAC CREW |
| | 13:45 15:15 | 1.50 | STG03 | 35 | | P | | PRESSURE TEST PUMP LINES TO 9506 PSI. OPEN WELL. SICP 3951 PSI. BREAK DOWN STAGE 3 PERFORATIONS @ 4075 PSI, PUMPING 9.9 BPM. BRING RATE UPTO 42 BPM. PUMP 98 TTL BBLS FLUID THEN PERFORM STEP RATE SHUT DOWN TEST. ISIP 4004 PSI. FG .82. 5 MIN 3971 PSI. 10 MIN 3949 PSI. TREAT STAGE 3 PERFORATIONS W/ 5000 GALLONS HCL ACID, 3000 LBS 100 MESH SAND IN 1/2 PPG STAGE & 150500 LBS TLC 30/50 SAND IN 1/2 PPG, 1 PPG, 2 PPG & 3 PPG STAGES. ISIP 4161 PSI. FG .83. AVG RATE 75.6 BPM. MAX RATE 76 BPM. AVG PSI 4862 PSI. MAX PSI 7059 PSI. SHUT IN WELL, & TURN OVER TO WIRE LINE. 3804 BBLS FLUID TO RECOVER. |
| | 15:15 16:45 | 1.50 | STG04 | 21 | | P | | RIH & SET 5" CBP @ 10144'. PERFORATE STAGE 4 PERFORATIONS FROM 10135' TO 9895', USING 2-3/4" TITAN PERFECTA SDP GUNS, 16 GRAM CHARGES, 3 SPF, 120 DEGREE PHASING. STARTING PRESSURE 4000 PSI, ENDING 3800 PSI, POOH W/ W.L., SHUT WELL IN & TURN OVER TO FRAC CREW |
| | 16:45 18:00 | 1.25 | STG04 | 35 | | P | | PRESSURE TEST PUMP LINES TO 9465 PSI. OPEN WELL. SICP 3674 PSI. BREAK DOWN STAGE 4 PERFORATIONS @ 4336 PSI, PUMPING 9.6 BPM. BRING RATE UPTO 42.5 BPM. PUMP 93 TTL BBLS FLUID THEN PERFORM STEP RATE SHUT DOWN TEST. ISIP 4027 PSI. FG .84. 5 MIN 3711 PSI. 10 MIN 3445 PSI. TREAT STAGE 4 PERFORATIONS W/ 5000 GALLONS HCL ACID, 3000 LBS 100 MESH SAND IN 1/2 PPG STAGE & 150,000 LBS TLC 30/50 SAND IN 1/2 PPG, 1 PPG, 2 PPG & 3 PPG STAGES. ISIP 4113 PSI. FG .84. AVG RATE 74.7 BPM. MAX RATE 75.5 BPM. AVG PSI 4009 PSI. MAX PSI 6948 PSI. SHUT IN WELL, & TURN OVER TO WIRE LINE. 3814 BBLS FLUID TO RECOVER. |
| | 18:00 19:30 | 1.50 | STG05 | 21 | | P | | RIH & SET 5" CBP @ 9881'. PERFORATE STAGE 5 PERFORATIONS FROM 9864' TO 9608', USING 2-3/4" TITAN PERFECTA SDP GUNS, 16 GRAM CHARGES, 3 SPF, 120 DEGREE PHASING. STARTING PRESSURE 3900 PSI, ENDING 3800 PSI, POOH W/ W.L., SHUT 7" MASTER VALVE, SHUT & LOCK BOTH HCR VALVES NIGHT CAP TOP OF STACK, FLOW CROSS VALVES SHUT & NIGHT CAPPED, CSG VALVES SHUT & NIGHT CAPPED, SDFN |
| 7/15/2015 | 6:00 7:00 | 1.00 | STG05 | 28 | | P | | TRAVEL TO LOC HOLD SAFETY MTG ON STAYING CLEAR OF HIGH PRESSURE PUMP LINES, WRITE & REVIEW JSA'S |
| | 7:00 8:15 | 1.25 | STG05 | 35 | | P | | PRESSURE TEST PUMP LINES TO 9489 PSI. OPEN WELL. SICP 2665 PSI. BREAK DOWN STAGE 5 PERFORATIONS @ 4351 PSI, PUMPING 10.1 BPM. BRING RATE UPTO 44.3 BPM. PUMP 79 TTL BBLS FLUID THEN PERFORM STEP RATE SHUT DOWN TEST. ISIP 4065 PSI. FG .85. 5 MIN 3906 PSI. 10 MIN 3789 PSI. TREAT STAGE 5 PERFORATIONS W/ 5000 GALLONS HCL ACID, 3000 LBS 100 MESH SAND IN 1/2 PPG STAGE & 150,000 LBS TLC 30/50 SAND IN 1/2 PPG, 1 PPG, 2 PPG & 3 PPG STAGES. ISIP 4307 PSI. FG .87. AVG RATE 73.3 BPM. MAX RATE 75.8 BPM. AVG PSI 5312 PSI. MAX PSI 6771 PSI. SHUT IN WELL, & TURN OVER TO WIRE LINE. 3792 BBLS FLUID TO RECOVER. |

2.1 Operation Summary (Continued)

| Date | Time Start-End | Duration (hr) | Phase | Activity | Sub | OP Code | MD from (ft) | Operation |
|-----------|----------------|---------------|-------|----------|-----|---------|--------------|---|
| | 8:15 9:30 | 1.25 | STG06 | 21 | | P | | RIH & SET 5" CBP @ 9574'. PERFORATE STAGE 6 PERFORATIONS FROM 9551' TO 9286', USING 2-3/4" TITAN PERFECTA SDP GUNS, 16 GRAM CHARGES, 3 SPF, 120 DEGREE PHASING. STARTING PRESSURE 4000 PSI, ENDING 3600 PSI, POOH W/ W.L., SHUT WELL IN & TURN OVER TO FRAC CREW |
| | 9:30 11:00 | 1.50 | STG06 | 35 | | P | | PRESSURE TEST PUMP LINES TO 9464 PSI. OPEN WELL. SICP 3584 PSI. BREAK DOWN STAGE 6 PERFORATIONS @ 4015 PSI, PUMPING 10 BPM. BRING RATE UPTO 38.6 BPM. PUMP 85 TTL BBLS FLUID THEN PERFORM STEP RATE SHUT DOWN TEST. ISIP 3683 PSI. FG .82. 5 MIN 3557 PSI. 10 MIN 3515 PSI. TREAT STAGE 6 PERFORATIONS W/ 5000 GALLONS HCL ACID, 3000 LBS 100 MESH SAND IN 1/2 PPG STAGE & 149200 LBS TLC 30/50 SAND IN 1/2 PPG, 1 PPG, 2 PPG & 3 PPG STAGES. ISIP 3962 PSI. FG .85. AVG RATE 72 BPM. MAX RATE 73 BPM. AVG PSI 4619 PSI. MAX PSI 5588 PSI. SHUT IN WELL, & TURN OVER TO WIRE LINE. 3732 BBLS FLUID TO RECOVER. |
| | 11:00 12:00 | 1.00 | STG07 | 21 | | P | | RIH & SET 5" CBP @ 9281'. PERFORATE STAGE 7 PERFORATIONS FROM 9259' TO 9011', USING 2-3/4" TITAN PERFECTA SDP GUNS, 16 GRAM CHARGES, 3 SPF, 120 DEGREE PHASING. STARTING PRESSURE 3500 PSI, ENDING 3000 PSI, POOH W/ W.L., SHUT WELL IN & TURN OVER TO FRAC CREW |
| | 12:00 13:30 | 1.50 | STG07 | 35 | | P | | PRESSURE TEST PUMP LINES TO 9491 PSI. OPEN WELL. SICP 2842 PSI. BREAK DOWN STAGE 7 PERFORATIONS @ 3261 PSI, PUMPING 9.6 BPM. BRING RATE UPTO 43.2 BPM. PUMP 75 TTL BBLS FLUID THEN PERFORM STEP RATE SHUT DOWN TEST. ISIP 3101 PSI. FG .77. 5 MIN 2830 PSI. 10 MIN 2795 PSI. TREAT STAGE 7 PERFORATIONS W/ 5000 GALLONS HCL ACID, 3000 LBS 100 MESH SAND IN 1/2 PPG STAGE & 150200 LBS TLC 30/50 SAND IN 1/2 PPG, 1 PPG, 2 PPG & 3 PPG STAGES. ISIP 3592 PSI. FG .82. AVG RATE 75.3 BPM. MAX RATE 75.9 BPM. AVG PSI 4162 PSI. MAX PSI 5577 PSI. SHUT IN WELL, & TURN OVER TO WIRE LINE. 3812 BBLS FLUID TO RECOVER. |
| | 13:30 14:30 | 1.00 | STG08 | 21 | | P | | RIH & SET 5" CBP @ 9000'. PERFORATE STAGE 8 PERFORATIONS FROM 8977' TO 8710', USING 2-3/4" TITAN PERFECTA SDP GUNS, 16 GRAM CHARGES, 3 SPF, 120 DEGREE PHASING. STARTING PRESSURE 3400 PSI, ENDING 2800 PSI, POOH W/ W.L., SHUT WELL IN & TURN OVER TO FRAC CREW |
| | 14:30 16:00 | 1.50 | STG08 | 35 | | P | | PRESSURE TEST PUMP LINES TO 9520 PSI. OPEN WELL. SICP 2736 PSI. BREAK DOWN STAGE 8 PERFORATIONS @ 3401 PSI, PUMPING 10 BPM. BRING RATE UPTO 44.4 BPM. PUMP 83 TTL BBLS FLUID THEN PERFORM STEP RATE SHUT DOWN TEST. ISIP 3068 PSI. FG .78. 5 MIN 2798 PSI. 10 MIN 2707 PSI. TREAT STAGE 8 PERFORATIONS W/ 5000 GALLONS HCL ACID, 3000 LBS 100 MESH SAND IN 1/2 PPG STAGE & 149960 LBS TLC 30/50 SAND IN 1/2 PPG, 1 PPG, 2 PPG & 3 PPG STAGES. ISIP 3370 PSI. FG .81. AVG RATE 75.8 BPM. MAX RATE 76.3 BPM. AVG PSI 4097 PSI. MAX PSI 5082 PSI. SHUT IN 10 K MASTER VALVE, BOTH HCR VALVES & LOCK, FLOW CROSS SHUT & NIGHT CAPPED, CSG VALVES SHUT & NIGHT CAPPED & TOP OF STACK CAPPED. |
| | 16:00 17:30 | 1.50 | RDMO | 02 | | P | | RIG DWN & MOVE OUT SAND CASTLES, SDFN |
| 7/16/2015 | 6:00 7:30 | 1.50 | RDMO | 28 | | P | | TRAVEL TO LOC HOLD SAFETY MTG ON RIGGING DWN FRAC EQUIP, WRITE & REVIEW JSA'S |
| | 7:30 12:00 | 4.50 | RDMO | 02 | | P | | RIG DSWN MOVE OUT FRAC EQUIP & WIRE LINE EQUIPMENT |
| | 12:00 15:00 | 3.00 | MIRU | 01 | | P | | WAIT ON COIL TBG EQUIP TO GET TO LOCATION & SPOT CTS 2" COIL TBG EQUIPMENT IN, SDFN |

7/17/2015

2.1 Operation Summary (Continued)

| Date | Time Start-End | Duration (hr) | Phase | Activity | Sub | OP Code | MD from (ft) | Operation |
|-----------|----------------|---------------|--------|----------|-----|---------|--------------|--|
| | 6:00 7:00 | 1.00 | CTU | 28 | | P | | TRAVEL TO LOC HOLD SAFETY MTG ON COIL TBG OPERATIONS WRITE & REVIEW JSA'S |
| | 7:00 8:00 | 1.00 | CTU | 16 | | P | | CONT RU CTS 2" COIL TBG UNIT, MU COIL CONNECTOR PULL & PRESSURE TEST, MU MTR ASSY W/ 4-1/8" JZ ROCK BIT, FUNCTION TEST MTR, NU CT BOP TEST STACK & FLOW BACK LINES TO 8000 PSI GOOD TEST |
| | 8:00 15:30 | 7.50 | CTU | 39 | | P | | OPEN WELL @ 2100 PSI, RIH W/ CT PUMPING 1/2 BPM RETURNING 1 BPM @ LT CHANGE RATES TO 2.5 BPM RETURNING 3.5 BPM CONT RIH & DRILL OUT 5" CBP'S @ 9000', 9281', 9574', 9881', 10144', 10491' & 10850', PUMPING 10 BBL SWEEP AFTER EACH PLUG, CLEAN OUT TO LANDING COLLAR @ 11235' CTM, CIRC 1 HR ON BTM, POOH TO LINER TOP & CIRC 1 HR, TOOH W/ CT, SWI, BREAK OUT & LD BIT & MTR ASSY, BLOW COIL TBG DRY |
| | 15:30 17:00 | 1.50 | CTU | 16 | | P | | ND CT BOP, NU GOAT HEAD W/ NIGHT CAP, RD COIL TBG EQUIP |
| | 17:00 6:00 | 13.00 | FB | 19 | | P | | OPEN WELL UP @ 2100 PSI TO FLOW BACK TANK ON 12/64 CHOKE TURN WELL OVER TO FLOW BACK |
| 7/18/2015 | 6:00 6:00 | 24.00 | FB | 19 | | P | | HOLD SAFETY MTG ON CLEANING CHOKE WRITE & REVIEW JSA'S, CURRENT PRESSURE 1900 PSI, FLOWING ON 12/64 CHOKE, FLOWED 550 BBLS WTR, 0 MCF & 0 BBLS OIL |
| 7/19/2015 | 6:00 6:00 | 24.00 | FB | 19 | | P | | HOLD SAFETY MTG ON TURNING WELL TO PROD FACILITY WRITE & REVIEW JSA'S, CURRENT PRESSURE 1900 PSI, ON 12/64 CHOKE FLOWED 31 BBLS OIL, 742 BBLS WATER & 59 MCF |
| 7/20/2015 | 6:00 6:00 | 24.00 | FB | 19 | | P | | HOLD SAFETY MTG ON CLEANING CHOKES WRITE & REVIEW JSA'S, CURRENT PRESSURE ON WELL IS 1900 PSI ON 12/64 CHOKE WELL FLOWED 193 BBLS OIL, 553 BBLS WATER & 173 MCF |
| 7/21/2015 | 6:00 7:30 | 1.50 | WOR | 28 | | P | | TRAVEL TO LOC, HOLD SAFETY MTG ON RU WIRE LINE & OVER HEAD LOADS, WRITE & REVIEW JSA'S |
| | 7:30 9:30 | 2.00 | WLWORK | 18 | | P | | MIRU WL, RIH W/ PUMP OUT PLUG PINNED FOR 1800 PSI, 4' X 2-3/8" TBG SUB & 5" ASIX-1 PKR, SET PKR @ 8500', POOH W/ W.L. RIG DWN & MOVE OFF LOC |
| | 9:30 12:00 | 2.50 | WOR | 16 | | P | | BLOW WELL DWN TO PROD FACILITY RECOVERING 41 BBLS OIL, 86 BBLS WTR & 106 MCF, ND FRAC STACK TO 10K MASTER VALVE, NU 5K BOP & PRESSURE TEST TO 5000 PSI GOOD TEST |
| | 12:00 13:30 | 1.50 | MIRU | 01 | | P | | SPOT IN PEAK 2300, RIG UP RIG, RIG UP WORK FLOOR & TBG TONGS, PUMP 40 BBLS 2% TREATED KCL DWN CSG |
| | 13:30 13:30 | 0.00 | WOR | 24 | | P | | TALLY PU & RIH W/ 5" ON-OFF SKIRT, 5 JTS 2-3/8" TBG, 2-7/8" X 2-3/8" EUE X OVER & 253 JTS 2-7/8" EUE L-80 TBG, SHUT & LOCK PIPE RAMS, CLOSE CSG VALVES & CAP THEM, SHUT & CAP TIW VALVE |
| 7/22/2015 | 6:00 7:30 | 1.50 | WOR | 28 | | P | | CT HOLD SAFETY MTG ON NDBOP & USING TAG LINES, WRITE & REVIEW JSA'S |
| | 7:30 8:30 | 1.00 | WOR | 24 | | P | | 0 PSI ON WELL, PU 3 JTS 2-7/8" TBG LATCH ONTO PKR & J OFF, LD 2 JTS, SPACE TBG OUT W/ 2, 10' X 2-7/8" EUE N-80 TBG SUBS & PU 1 JT 2-7/8" TBG |
| | 8:30 10:30 | 2.00 | WOR | 06 | | P | | CIRC GAS & OIL OUT OF WELL BORE W/ 320 BBLS 2% KCL MIXED W/ PKR FLUID |

2.1 Operation Summary (Continued)

| Date | Time Start-End | Duration (hr) | Phase | Activity | Sub | OP Code | MD from (ft) | Operation |
|------|----------------|---------------|-------|----------|-----|---------|--------------|---|
| | 10:30 13:00 | 2.50 | WOR | 16 | | P | | MU WFTRD BREECH LOCK TBG HANGER W/ B.P.V., LAND IN TBG HEAD & RUN IN LOCKING PINS, J OUT OF HANGER RIH & LATCH ONTO PKR, PULL UP & LAND TBG IN HANGER IN 14K TENSION, TEST CSG TO 1000 PSI FOR 15 MIN GOOD TEST, RD WORK FLOOR, NDBOP & NUWH & PLUMB FLOW LINES, PULL B.P.V. & INSTALL 2 WAY CHECK VALVE IN HANGER, TEST WELL HEAD & FLOW LINES TO 5000 PSI GOOD TEST, LUBRICATE 2 WAY CHECK OUT OF WELL HEAD & RIG DWN RIG |
| | 13:00 16:30 | 3.50 | WOR | 19 | | P | | PUMP OUT, PUMP OUT PLUG @ 2800 PSI & PUMP 5 BBLs 2% KCL, TURN WELL OVER TO FLOW BACK CREW @ 14:30 @ 1650 PSI ON 14/64 CHOKE, ROAD RIG TO 2-14C5 SPOT IN & RIG UP RIG, SDFN |

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