

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

FORM 3

AMENDED REPORT

| <b>APPLICATION FOR PERMIT TO DRILL</b>   |           |                  |   |  |                | 1. WELL NAME and NUMBER<br>Neihart 2-2C5   |         |                                |       |        |  |          |  |
|--|-----------|------------------|---|--|----------------|--|---------|--------------------------------|-------|--------|--|----------|--|
| 2. TYPE OF WORK<br>DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/> |           |                  |   |  |                | 3. FIELD OR WILDCAT<br>ALTAMONT  |         |                                |       |        |  |          |  |
| 4. TYPE OF WELL<br>Oil Well      Coalbed Methane Well: NO  |           |                  |   |  |                | 5. UNIT or COMMUNITIZATION AGREEMENT NAME  |         |                                |       |        |  |          |  |
| 6. NAME OF OPERATOR<br>EP ENERGY E&P COMPANY, L.P.   |           |                  |   |  |                | 7. OPERATOR PHONE<br>713 997-5038  |         |                                |       |        |  |          |  |
| 8. ADDRESS OF OPERATOR<br>1001 Louisiana, Houston, TX, 77002   |           |                  |   |  |                | 9. OPERATOR E-MAIL<br>maria.gomez@epenergy.com   |         |                                |       |        |  |          |  |
| 10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)<br>Fee  |           |                  | 11. MINERAL OWNERSHIP<br>FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>    |  |                | 12. SURFACE OWNERSHIP<br>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')<br>Judith Neihart, Micah Cooper, Bonnie Armstrong  |           |                  |   |  |                | 14. SURFACE OWNER PHONE (if box 12 = 'fee')<br>4346541963  |         |                                |       |        |  |          |  |
| 15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')<br>30 S 500 E, Heber City, UT 84032   |           |                  |   |  |                | 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<br>YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/> |  |                | 19. SLANT<br>VERTICAL <input checked="" type="checkbox"/> DIRECTIONAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/>                               |         |                                |       |        |  |          |  |
| 20. LOCATION OF WELL   |           | FOOTAGES         |   | QTR-QTR  |                | SECTION  |         | TOWNSHIP                       |       | RANGE  |  | MERIDIAN |  |
| LOCATION AT SURFACE  |           | 799 FSL 2406 FEL |   | SWSE   |                | 2  |         | 3.0 S                          |       | 5.0 W  |  | U        |  |
| Top of Uppermost Producing Zone  |           | 799 FSL 2406 FEL |   | SWSE   |                | 2  |         | 3.0 S                          |       | 5.0 W  |  | U        |  |
| At Total Depth   |           | 799 FSL 2406 FEL |   | SWSE   |                | 2  |         | 3.0 S                          |       | 5.0 W  |  | U        |  |
| 21. COUNTY<br>DUCHESNE   |           |                  | 22. DISTANCE TO NEAREST LEASE LINE (Feet)<br>799  |  |                | 23. NUMBER OF ACRES IN DRILLING UNIT<br>640  |         |                                |       |        |  |          |  |
| 27. ELEVATION - GROUND LEVEL<br>5922   |           |                  | 25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)<br>2700   |  |                | 26. PROPOSED DEPTH<br>MD: 12400 TVD: 12400   |         |                                |       |        |  |          |  |
| 28. BOND NUMBER<br>400JU0708   |           |                  | 29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE<br>Duchesne City  |  |                |  |         |                                |       |        |  |          |  |
| <b>Hole, Casing, and Cement Information</b>  |           |                  |   |  |                |  |         |                                |       |        |  |          |  |
| String   | Hole Size | Casing Size      | Length  | Weight   | Grade & Thread | Max Mud Wt.  | Cement  | Sacks                          | Yield | Weight |  |          |  |
| Cond   | 20        | 13.375           | 0 - 600   | 54.5   | J-55 ST&C      | 9.0  | Class G | 1292                           | 1.15  | 15.8   |  |          |  |
| Surf   | 12.25     | 9.625            | 0 - 2900  | 40.0   | N-80 LT&C      | 9.7  | Unknown | 381                            | 3.16  | 11.0   |  |          |  |
|  |           |                  |   |  |                |  | Unknown | 191                            | 1.33  | 14.3   |  |          |  |
| I1   | 8.75      | 7                | 0 - 9300  | 29.0   | HCP-110 LT&C   | 10.5   | Unknown | 421                            | 2.31  | 12.0   |  |          |  |
|  |           |                  |   |  |                |  | Unknown | 91                             | 1.91  | 12.5   |  |          |  |
| L1   | 6.125     | 5                | 9100 - 12400  | 18.0   | HCP-110 LT&C   | 13.7   | Unknown | 195                            | 1.47  | 14.2   |  |          |  |
| <b>ATTACHMENTS</b>   |           |                  |   |  |                |  |         |                                |       |        |  |          |  |
| <b>VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES</b>  |           |                  |   |  |                |  |         |                                |       |        |  |          |  |
| <input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER   |           |                  |   |  |                | <input checked="" type="checkbox"/> COMPLETE DRILLING PLAN   |         |                                |       |        |  |          |  |
| <input checked="" type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)  |           |                  |   |  |                | <input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER   |         |                                |       |        |  |          |  |
| <input type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)  |           |                  |   |  |                | <input checked="" type="checkbox"/> TOPOGRAPHICAL MAP  |         |                                |       |        |  |          |  |
| NAME Maria S. Gomez  |           |                  |   | TITLE Principal Regulatory Analyst   |                |  |         | PHONE 713 997-5038             |       |        |  |          |  |
| SIGNATURE  |           |                  |   | DATE 11/01/2013  |                |  |         | EMAIL maria.gomez@epenergy.com |       |        |  |          |  |
| API NUMBER ASSIGNED<br>43013526410000  |           |                  |   | APPROVAL<br><br><br>Permit Manager |                |  |         |                                |       |        |  |          |  |

**Neihart 2-2C5  
Sec. 2, T3S, R5W  
DUCHESNE COUNTY, UT**

**EP ENERGY E&P COMPANY, L.P.**

**DRILLING PROGRAM**

**1. Estimated Tops of Important Geologic Markers**

| <u>Formation</u>    | <u>Depth</u> |
|---------------------|--------------|
| Green River (GRRV)  | 4,400' TVD   |
| Green River (GRTN1) | 5,219' TVD   |
| Mahogany Bench      | 6,169' TVD   |
| L. Green River      | 7,479' TVD   |
| Wasatch             | 9,239' TVD   |
| T.D. (Permit)       | 12,400' TVD  |

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

| <u>Substance</u> | <u>Formation</u>    | <u>Depth</u>    |
|------------------|---------------------|-----------------|
|                  | Green River (GRRV)  | 4,400' MD / TVD |
|                  | Green River (GRTN1) | 5,219' MD / TVD |
|                  | Mahogany Bench      | 6,169' MD / TVD |
| Oil              | L. Green River      | 7,479' MD / TVD |
| Oil              | Wasatch             | 9,239' MD / TVD |

**3. Pressure Control Equipment: (Schematic Attached)**

A 4.5" by 20.0" rotating head on structural pipe from surface to 600' MD/TVD. A 4.5" by 13-3/8" Smith Rotating Head from 600' MD/TVD to 2,900' MD/TVD on Conductor. A 5M BOP stack, 5M kill lines and choke manifold used from 2,900' MD/TVD to 9,300' MD/TVD. A 10M BOE w/ rotating head, 5M annular, blind rams & mud cross from 9,300' MD/TVD to TD (12,400' MD/TVD).

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

**OPERATORS MINIMUM SPECIFICATIONS FOR BOPE:**

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

cock and floor safety valves will be tested to 5M psi. The annular preventer will be tested to 250 psi low test / 4,000 psi high test. The 10M BOP will be installed with 3-½" pipe rams, blind rams, mud cross and rotating head from intermediate shoe to TD. The BOPE will be hydraulically operated.

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

**Statement on Accumulator System and Location of Hydraulic Controls:**

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

**Auxiliary Equipment:**

- A) Pason Gas Monitoring 600' - TD
- B) Mud logger with gas monitor – 2,900' to TD (12,400' MD/TVD)
- C) Choke manifold with one manual and one hydraulic operated choke
- D) Full opening floor valve with drill pipe thread
- E) Upper and lower Kelly cock
- F) Shaker, de-sander and centrifuge

4. **Proposed Casing & Cementing Program:**

Please refer to the attached Wellbore Diagram.

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

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

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

5. **Drilling Fluids Program:**

Proposed Mud Program:

| Interval     | Type | Mud Weight  |
|--------------|------|-------------|
| Surface      | WBM  | 9.0 – 9.7   |
| Intermediate | WBM  | 9.0 – 10.5  |
| Production   | WBM  | 10.5 – 13.7 |

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: 2,900' MD/TVD – TD (12,400' MD/TVD)

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

7. **Abnormal Conditions:**

Maximum anticipated bottomhole pressure calculated at 12,400' TVD equals approximately 8,834 psi. This is calculated based on a 0.7124 psi/ft gradient (13.7 ppg mud density at TD).

Maximum anticipated surface pressure equals approximately 6,106 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/ft).

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

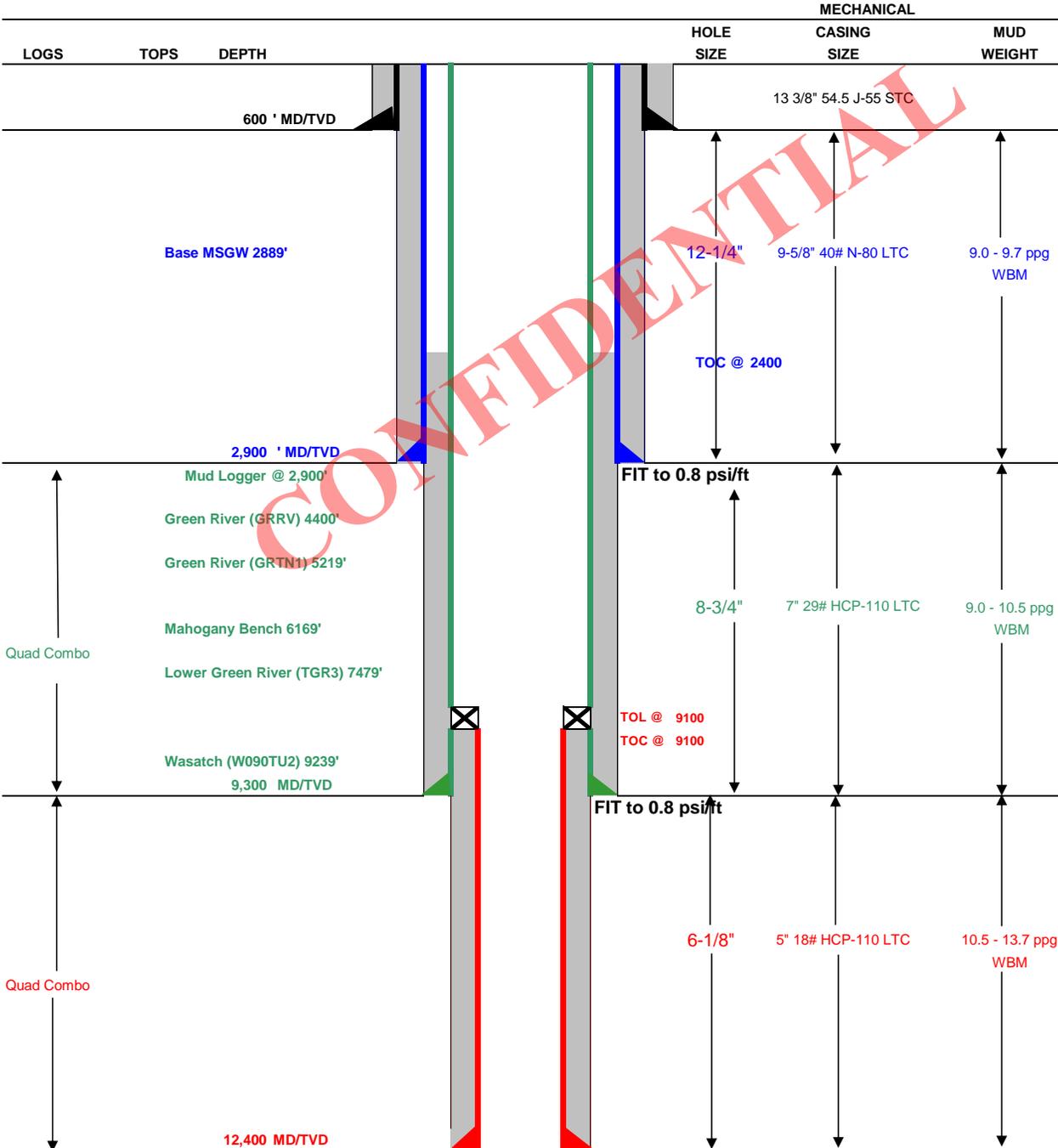
BOPE and casing design will be based on the lesser of the two MASPs which is 6,106 psi.

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



Drilling Schematic

|   |                           |
|---|---------------------------|
| <b>Company Name:</b> EP ENERGY  | <b>Date:</b> July 5, 2013 |
| <b>Well Name:</b> Neihart 2-2C5   | <b>TD:</b> 12,400         |
| <b>Field, County, State:</b> Altamont, Duchesne, Utah   | <b>AFE #:</b> 151212      |
| <b>Surface Location:</b> Sec 2 T3S R5W 799' FSL 2406' FEL   | <b>BHL:</b> Straight Hole |
| <b>Objective Zone(s):</b> Green River, Wasatch  | <b>Elevation:</b> 5922.4  |
| <b>Rig:</b> Precision 404   | <b>Spud (est.):</b> TBD   |
| <b>BOPE Info:</b> 4.5 x 13 3/8 rotating head from 600' to 2,900' 11 5M BOP stack and 5M kill lines and choke manifold used from 2,900' to 9,300' 11 10M BOE w/rotating head, 5M annular, 3.5 rams, blind rams & mud cross from 9,300' 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        | 2900  | 40.00 | N-80    | LTC   | 5,750  | 3,090    | 737     |
| INTERMEDIATE     | 7"      | 0        | 9300  | 29.00 | HCP-110 | LTC   | 11,220 | 9,750    | 797     |
| PRODUCTION LINER | 5'      | 9100     | 12400 | 18.00 | HCP-110 | LTC   | 13,950 | 14,360   | 495     |

| CEMENT PROGRAM   |      | FT. OF FILL | DESCRIPTION  | SACKS | EXCESS | WEIGHT   | YIELD |
|------------------|------|-------------|--|-------|--------|----------|-------|
| CONDUCTOR        |      | 600         | Class G + 3% CACL2   | 1292  | 100%   | 15.8 ppg | 1.15  |
| SURFACE          | Lead | 2,400       | EXTENDACEM (TM) SYSTEM: 5 lbm/sk Silicalite Compacted + 0.25 lbm/sk Kwik Seal + 0.125 lbm/sk Poly-E-Flake + 2% Bentonite   | 381   | 75%    | 11.0 ppg | 3.16  |
|                  | Tail | 500         | HALCEM (TM) SYSTEM: 3 lbm/sk Silicalite Compacted + 1% Salt + 0.3% Econolite + 0.25 lbm/sk Poly-E-Flake + 0.25 lbm/sk Kwik Seal + 0.5% HR-5                      | 191   | 50%    | 14.3 ppg | 1.33  |
| INTERMEDIATE     | Lead | 5,900       | EXTENDACEM (TM) SYSTEM: 4% Bentonite + 0.4% Econolite + 0.2% Halad(R)-322 + 3 lbm/sk Silicalite Compacted + 1.2% HR-5 + 0.125 lbm/sk Poly-E-Flake                | 421   | 10%    | 12.0 ppg | 2.31  |
|                  | Tail | 1,000       | EXPANDACEM (TM) SYSTEM: 0.2% Econolite + 0.3% Versaset + 0.9% HR-5 + 0.3% Super CBL + 0.2% Halad(R)-322 + 0.125 lbm/sk Poly-E-Flake                              | 91    | 10%    | 12.5 ppg | 1.91  |
| PRODUCTION LINER |      | 3,300       | EXTENDACEM (TM) SYSTEM: 0.3% Super CBL + 0.1% SA-1015 + 0.3% Halad(R)-413 + 0.5% SCR-100 + 0.125 lbm/sk Poly-E-Flake + 3 lbm/sk Silicalite Compacted + 20% SSA-1 | 195   | 25%    | 14.20    | 1.47  |

| FLOAT EQUIPMENT & CENTRALIZERS |  |
|--------------------------------|--|
| CONDUCTOR                      | PDC drillable guide shoe, 1 joint, PDC drillable float collar. Thread lock all float equipment. Install bow spring centralizers on the bottom 3 joints of casing.  |
| SURFACE                        | PDC drillable guide shoe, 1 joint casing, PDC drillable float collar & Stage collar. Thread lock all float equipment. Install bow spring centralizers on the bottom 3 joints of casing & every 3rd joint thereafter. |
| INTERMEDIATE                   | PDC drillable 10M,P-110 float shoe, 1 joint, PDC drillable 10M, P-110 float collar. Thread lock all float equipment. Maker joint at 8,000'.  |
| LINER                          | Float shoe, 1 joint, float collar. Thread lock all FE. Maker joints every 1000'.   |

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

MANAGER: Tommy Gaydos

EP ENERGY E&P COMPANY, L.P.  
NEIHART 2-2C5  
SECTION 2, T3S, R5W, U.S.B.&M.

PROCEED NORTH ON PAVED STATE HIGHWAY 87 FROM THE INTERSECTION OF HIGHWAY 87 WITH U.S. HIGHWAY 40 IN DUCHESNE, UTAH APPROXIMATELY 5.96 MILES TO AN INTERSECTION;

TURN LEFT AND TRAVEL NORTHWESTERLY 3.77 MILES ON STATE ROAD 35 TO AN INTERSECTION;

TURN LEFT AND TRAVEL SOUTHEASTERLY 0.57 MILES ON A GRAVEL ROAD TO AN INTERSECTION;

TURN LEFT AND TRAVEL SOUTHEASTERLY 1.52 MILES ON A DIRT ROAD TO THE BEGINNING OF THE PROPOSED ACCESS ROAD;

CONTINUE SOUTHEASTERLY 0.57 MILES ALONG A TWO-TRACK TO THE PROPOSED LOCATION;

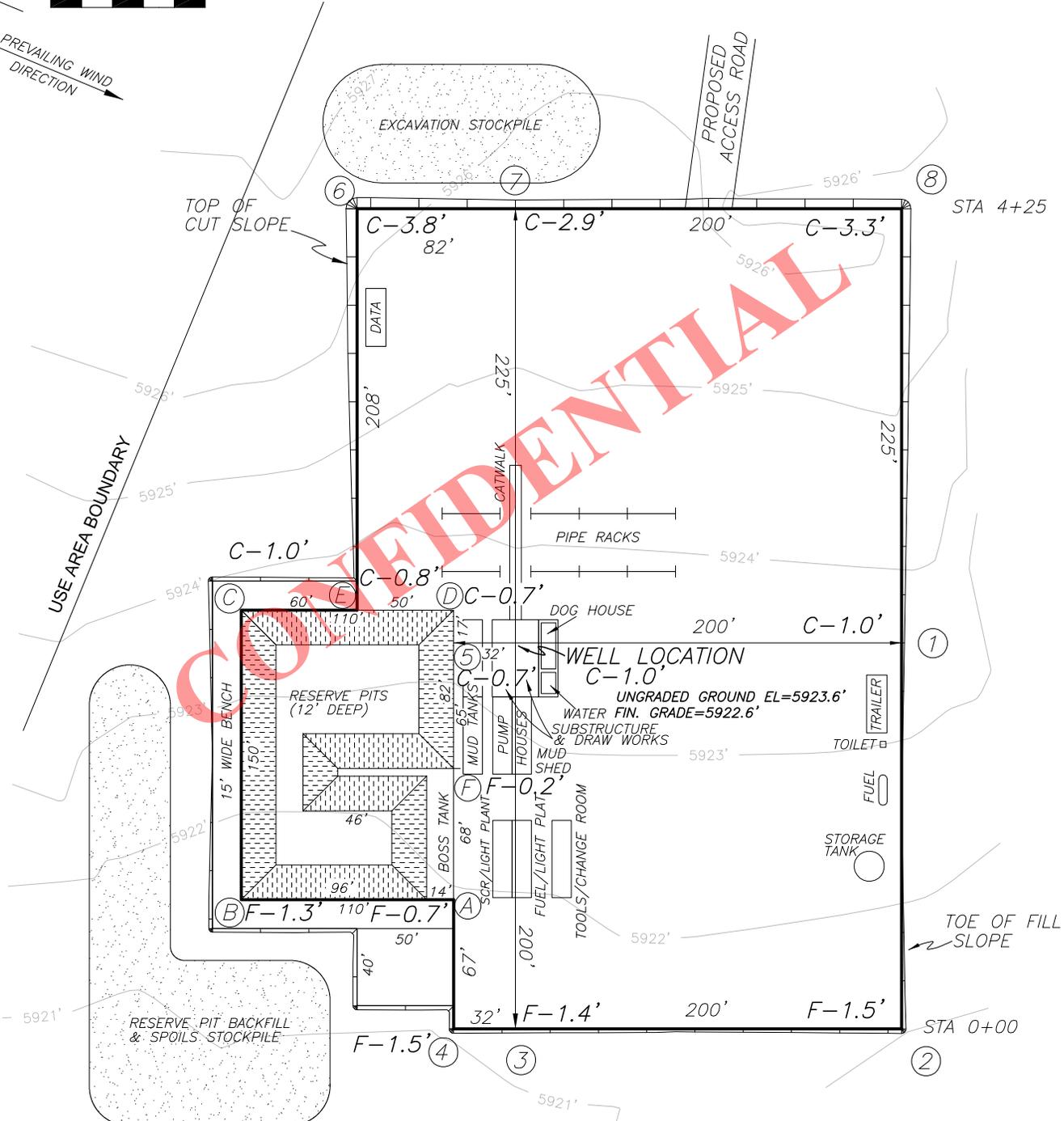
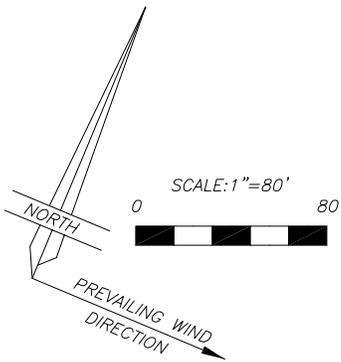
TOTAL DISTANCE FROM DUCHESNE, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 12.39 MILES.

# EP ENERGY E&P COMPANY, L.P.

FIGURE #1

LOCATION LAYOUT FOR  
NEIHART 2-2C5

SECTION 2, T3S, R5W, U.S.B.&M.  
799' FSL, 2406' FEL



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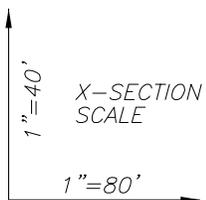
|  |   |
|--|---|
|  | <b>JERRY D. ALLRED &amp; ASSOCIATES</b><br>SURVEYING CONSULTANTS            |
|  | 1235 NORTH 700 EAST--P.O. BOX 975<br>DUCHESNE, UTAH 84021<br>(435) 738-5352 |

RECEIVED: November 01, 2013

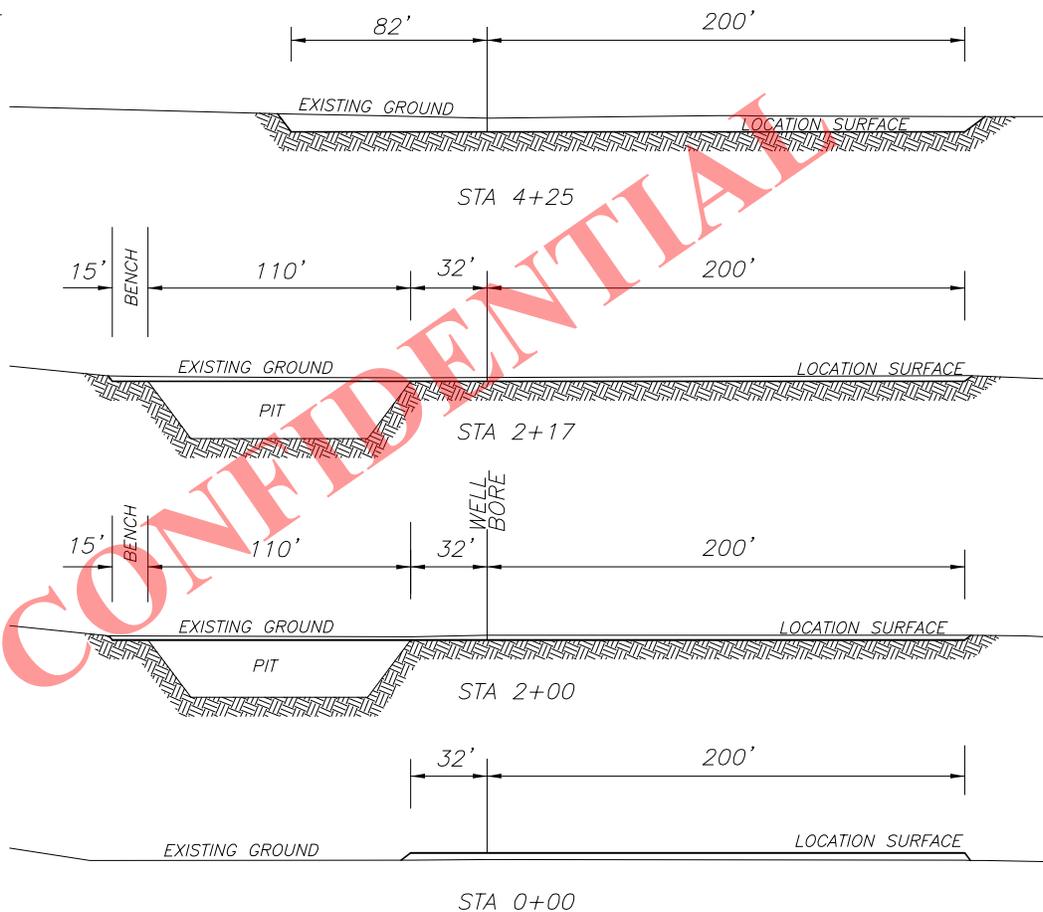
# EP ENERGY E&P COMPANY, L.P.

FIGURE #2

LOCATION LAYOUT FOR  
 NEIHART 2-2C5  
 SECTION 2, T3S, R5W, U.S.B.&M.  
 799' FSL, 2406' FEL



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



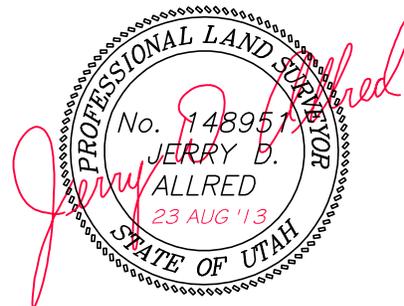
APPROXIMATE QUANTITIES

TOTAL CUT (INCLUDING PIT) = 11,103 CU. YDS.

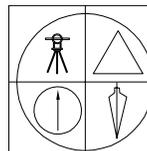
PIT CUT = 4572 CU. YDS.  
 TOPSOIL STRIPPING: (6") = 2538 CU. YDS.  
 REMAINING LOCATION CUT = 3993 CU. YDS

TOTAL FILL = 1738 CU. YDS.

LOCATION SURFACE GRAVEL=1374 CU. YDS. (4" DEEP)  
 ACCESS ROAD GRAVEL=889 CU. YDS.



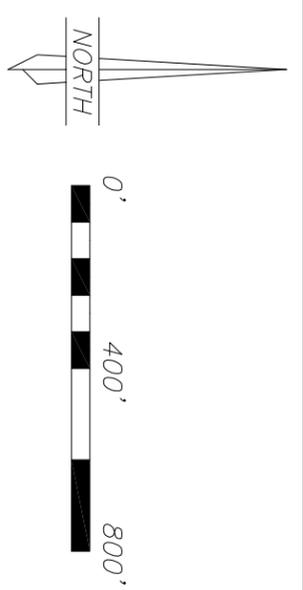
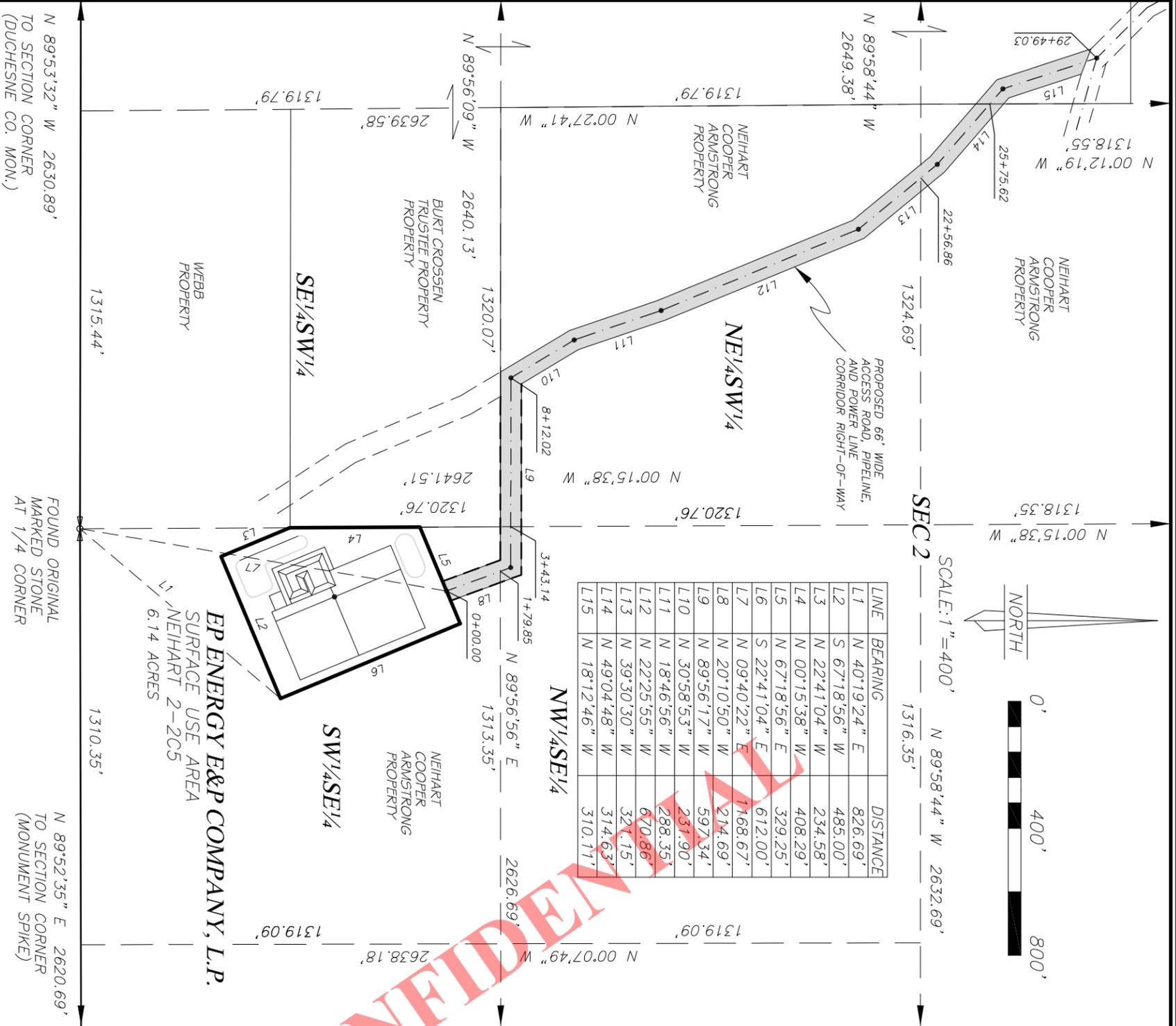
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JERRY D. ALLRED & ASSOCIATES  
 SURVEYING CONSULTANTS  
 1235 NORTH 700 EAST--P.O. BOX 975  
 DUCHESNE, UTAH 84021  
 (435) 738-5352

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LOCATION USE AREA AND ACCESS ROAD, POWER LINE, AND PIPELINE  
CORRIDOR RIGHT-OF-WAY SURVEY FOR  
**EP ENERGY E&P COMPANY, L.P.**  
NEIHART 2-2C5  
SECTION 2, T35, R5W, U.S.B.&M.  
DUCHESSNE COUNTY, UTAH

**USE AREA BOUNDARY DESCRIPTION**

Commencing at the South 1/4 corner of Section 2, Township 3 South, Range 5 West, of the Uintah Special Base and Meridian; 826.69 feet to the TRUE POINT OF BEGINNING;  
Thence North 40°19'24" East 826.69 feet to the TRUE POINT OF BEGINNING;  
Thence North 67°18'56" West 485.00 feet;  
Thence North 22°41'04" West 234.58 feet;  
Thence North 00°15'38" West 408.29 feet;  
Thence North 67°18'56" East 329.25 feet;  
Thence South 22°41'04" East 612.00 feet to the TRUE POINT OF BEGINNING, containing 6.14 acres.

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

A 66 feet wide, access road, pipeline, and power line corridor right-of-way over portions of Section 2, Township 3 South, Range 5 West of the Uintah Special Base and Meridian, the centerline of which is further described as follows:  
Commencing at the South 1/4 Corner of said Section 2;  
Thence North 09°40'22" East 1168.67 feet to a point on the North line of the EP Energy E&P Co. Neihart 2-2C5 well location surface use area boundary which is the TRUE POINT OF BEGINNING;  
Thence North 20°10'50" West 214.69 feet;  
Thence North 89°56'17" West 597.34 feet;  
Thence North 30°58'53" West 231.90 feet;  
Thence North 18°46'56" West 288.35 feet;  
Thence North 22°25'55" West 670.86 feet;  
Thence North 39°30'30" West 321.15 feet;  
Thence North 49°04'48" West 314.63 feet;  
Thence North 18°12'46" West 310.11 feet to the centerline of an existing road. Said right-of-way being 2949.03 feet in length with the sidelines being shortened or elongated to intersect said use area boundary and said road right-of-way lines.

**SURVEYOR'S CERTIFICATE**

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



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

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

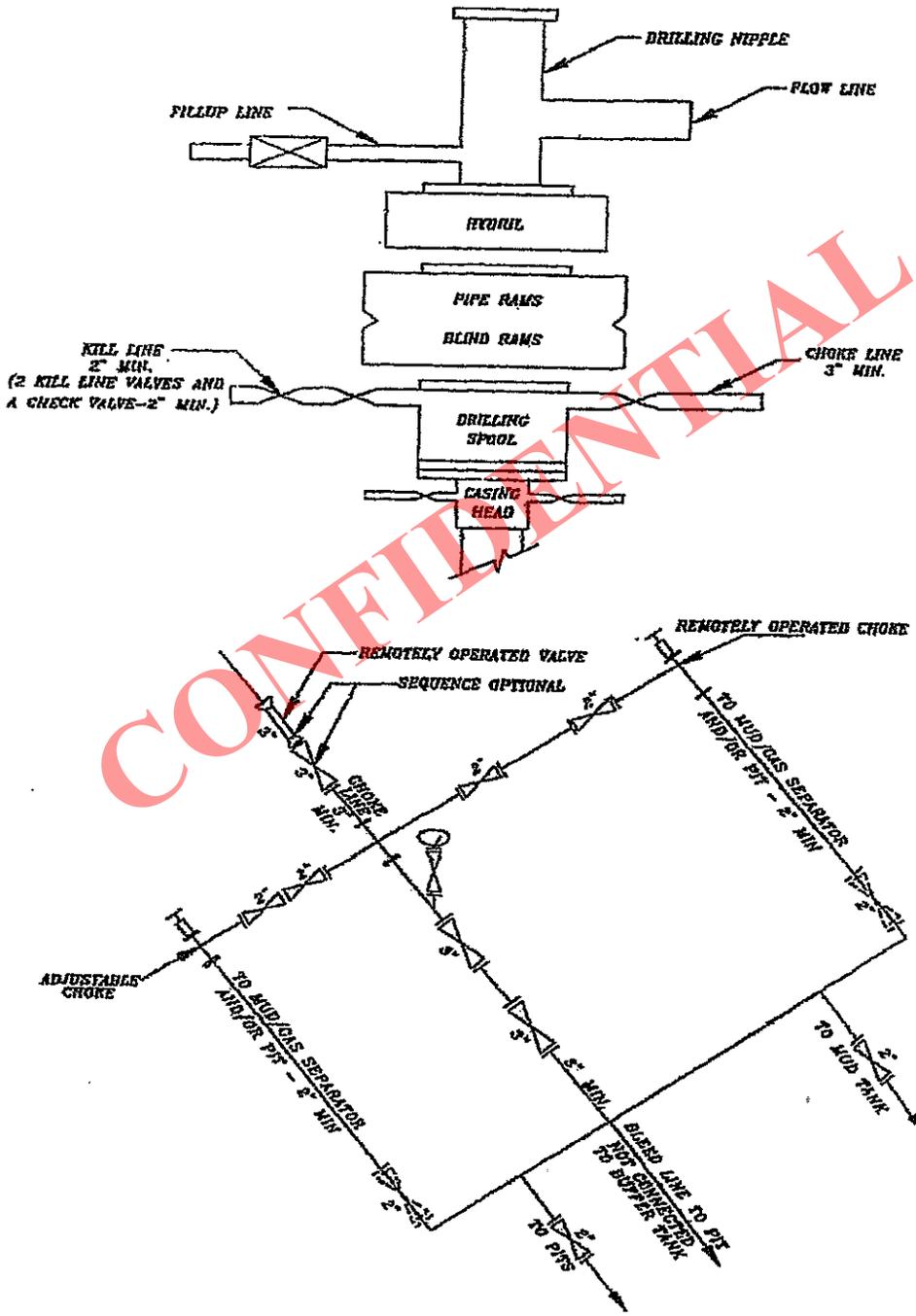
N 89°53'32" W 2630.89' TO SECTION CORNER (DUCHESSNE CO. MON.)  
1315.44'  
1320.07'  
2640.13'  
1320.76'  
1320.76'  
1310.35'  
N 89°52'35" E 2620.69' TO SECTION CORNER (MONUMENT SPIKE)

EP ENERGY E&P COMPANY, L.P.  
SURFACE USE AREA  
NEIHART 2-2C5  
6.14 ACRES

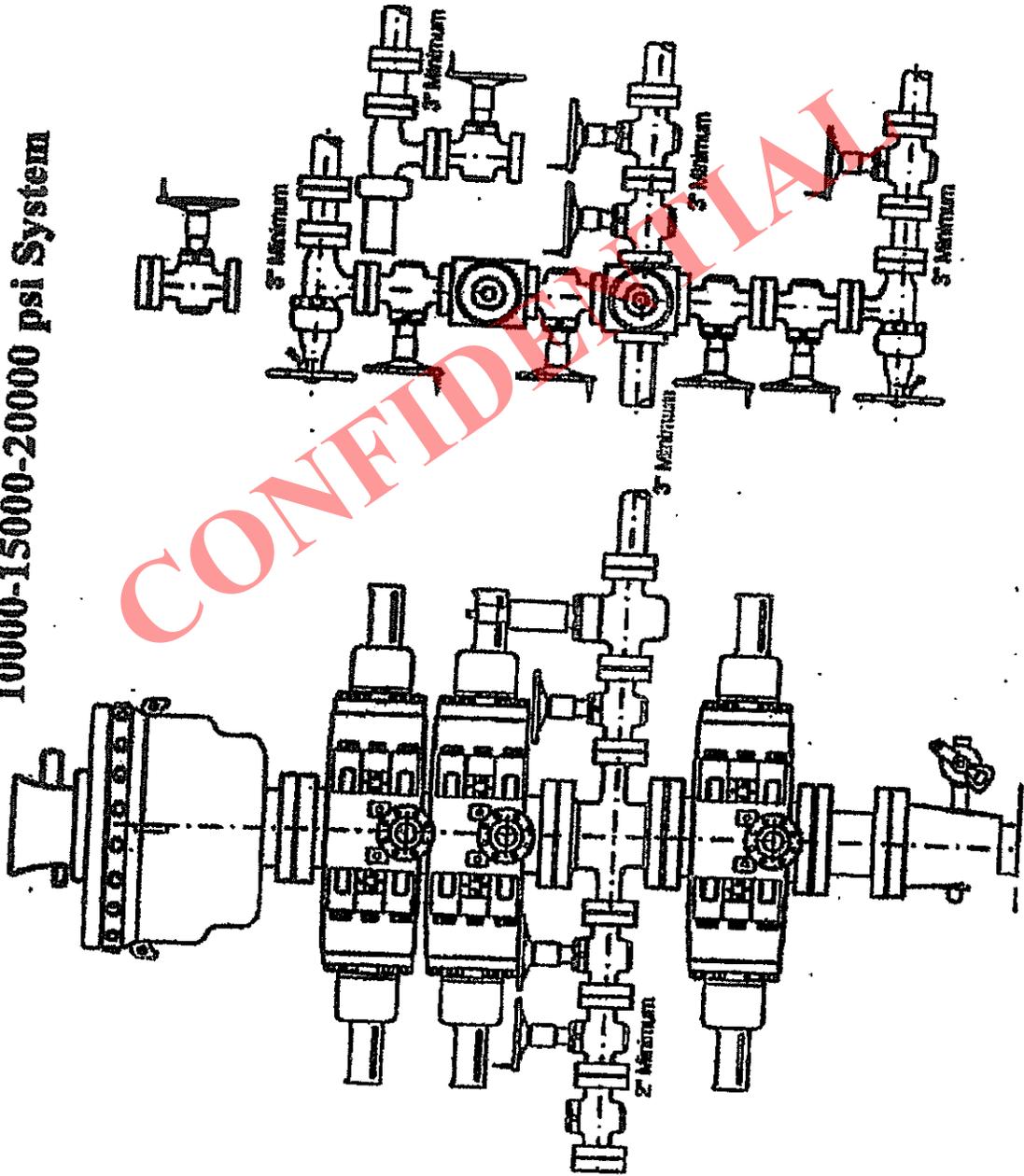
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DUCHESSNE, UTAH 84021  
(435) 738-5352

# 5M BOP STACK and CHOKE MANIFOLD SYSTEM



10000-15000-20000 psi System



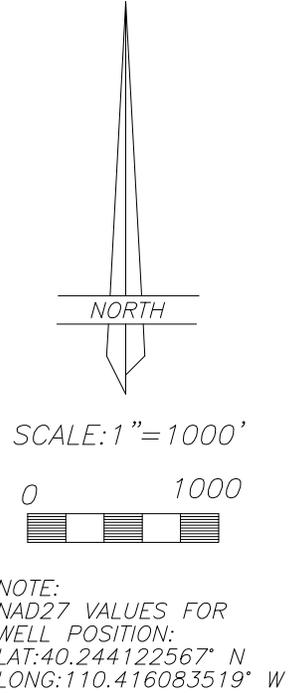
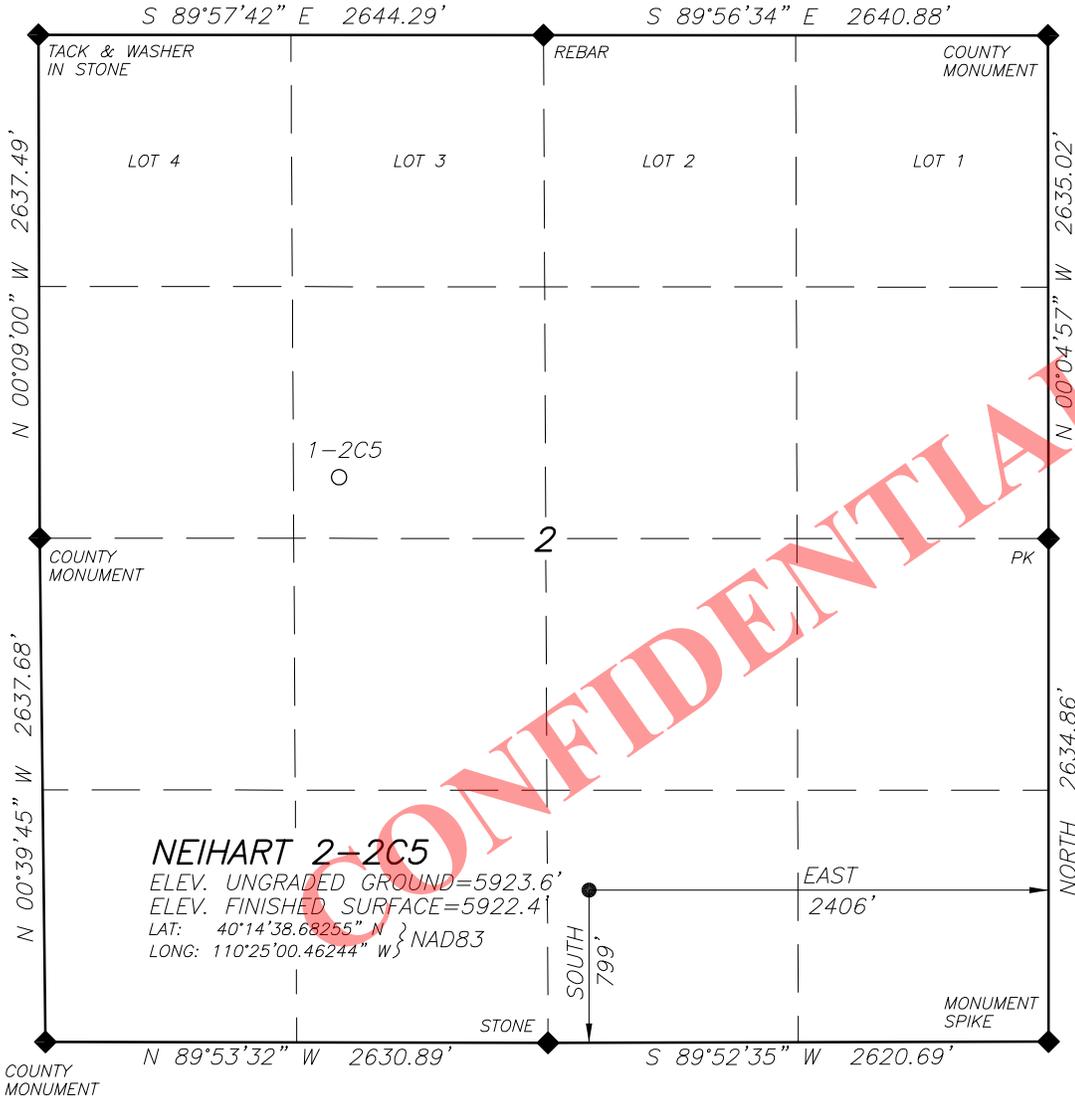
CONFIDENTIAL

# EP ENERGY E&P COMPANY, L.P.

## WELL LOCATION

### NEIHART 2-2C5

LOCATED IN THE SW¼ OF THE SE¼ OF SECTION 2, T3S, R5W, U.S.B.&M. DUCHESNE COUNTY, UTAH

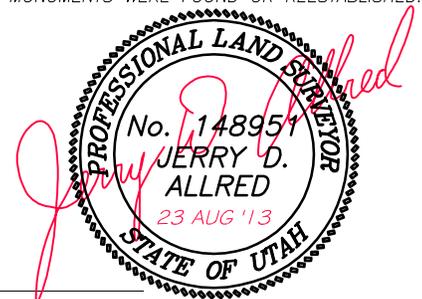


**LEGEND AND NOTES**

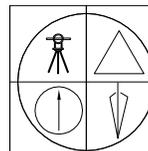
- ◆ CORNER MONUMENTS FOUND AND USED BY THIS SURVEY
- THE GENERAL LAND OFFICE (G.L.O.) PLAT WAS USED FOR REFERENCE AND CALCULATIONS AS WAS THE U.S.G.S. MAP
- THIS SURVEY WAS PERFORMED USING GLOBAL POSITIONING SYSTEM PROCEDURES AND EQUIPMENT
- THE BASIS OF BEARINGS IS GEODETIC NORTH DERIVED FROM G.P.S. OBSERVATIONS AT THE SECTION CORNER LOCATED AT LAT. 40°15'22.90258"N AND LONG. 110°23'21.19760"W USING THE UTAH STATE G.P.S. VIRTUAL REFERENCE STATION CONTROL NETWORK MAINTAINED AND OPERATED BY THE AUTOMATED GEOGRAPHIC REFERENCE CENTER
- BASIS OF ELEVATIONS: NAVD 88 DATUM USING THE UTAH REFERENCE NETWORK CONTROL SYSTEM

**SURVEYOR'S CERTIFICATE**

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



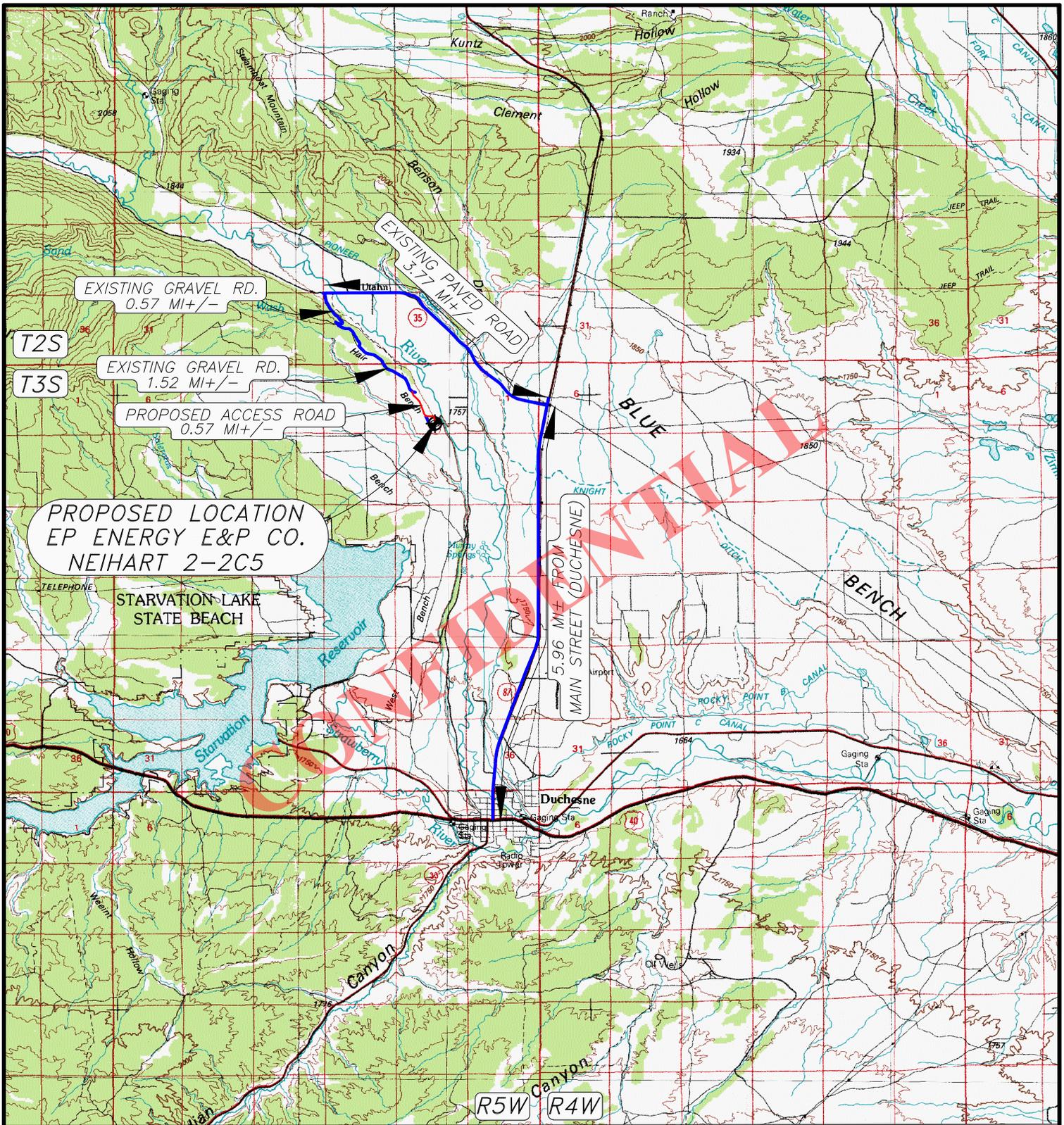
JERRY D. ALLRED, PROFESSIONAL LAND SURVEYOR, CERTIFICATE NO. 148951 (UTAH)



**JERRY D. ALLRED & ASSOCIATES**  
 SURVEYING CONSULTANTS

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

REV 23 AUG 2013  
 25 FEB 2013 01-128-368



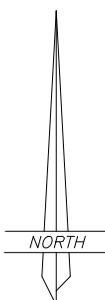
**LEGEND:**

 PROPOSED WELL LOCATION

01-128-368

**JERRY D. ALLRED & ASSOCIATES**  
SURVEYING CONSULTANTS

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



**EP ENERGY E&P COMPANY, L.P.**

NEIHART 2-2C5

SECTION 2, T3S, R5W, U.S.B.&M.

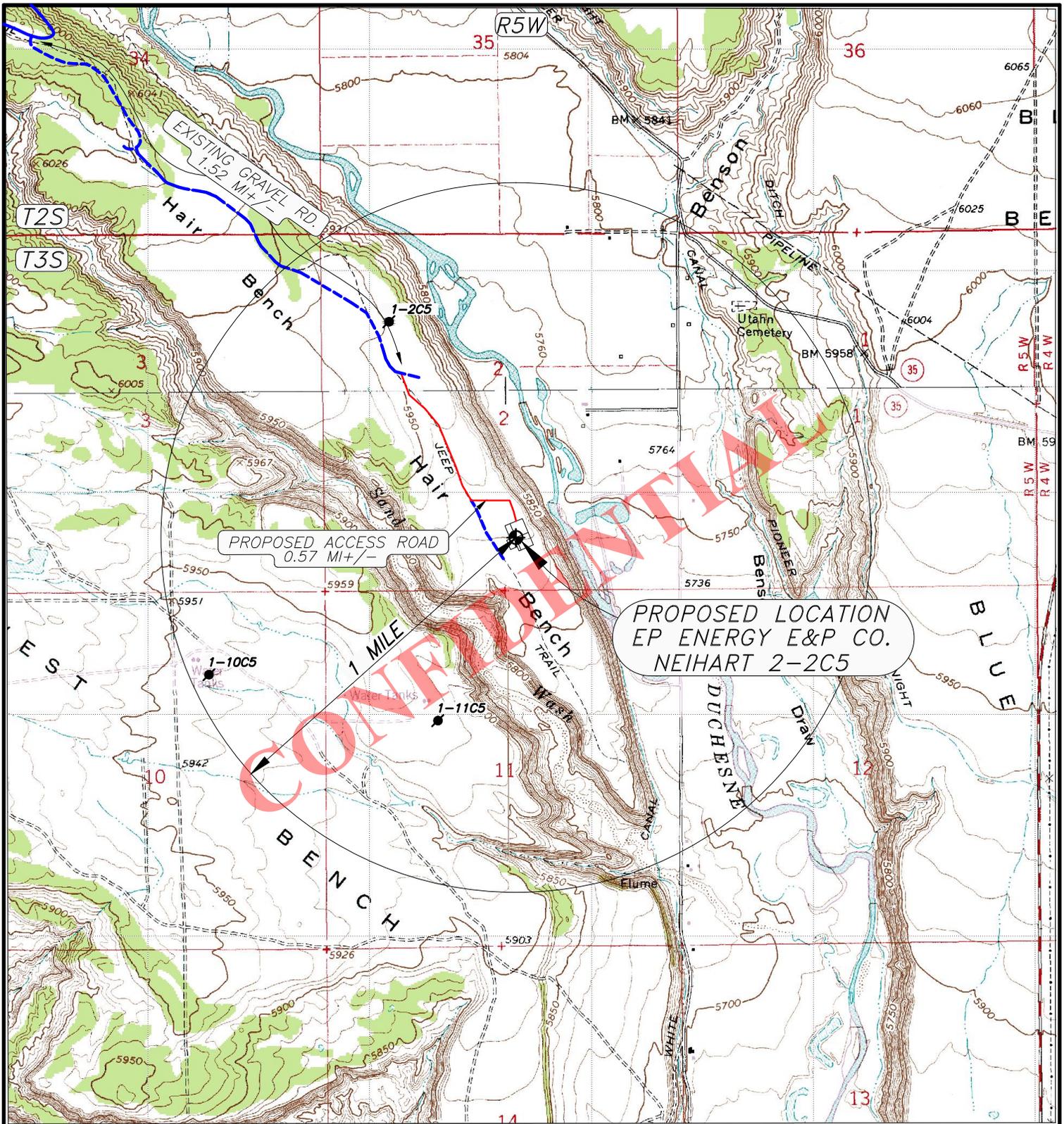
799' FSL 2406' FEL

**TOPOGRAPHIC MAP "A"**

SCALE; 1"=10,000'

23 AUG 2013

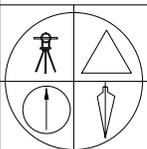




**LEGEND:**

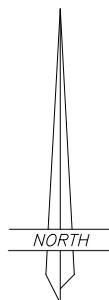
-  PROPOSED WELL LOCATION
-  OTHER WELLS AS LOCATED FROM SUPPLIED MAP

01-128-368



**JERRY D. ALLRED & ASSOCIATES**  
SURVEYING CONSULTANTS

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



**EL PASO E&P COMPANY, L.P.**

NEIHART 2-2C5

SECTION 2, T3S, R5W, U.S.B.&M.

799' FSL 2406' FEL

**TOPOGRAPHIC MAP "C"**

SCALE; 1"=2000'  
23 AUG 2013

**AFFIDAVIT OF SURFACE DAMAGE AND RIGHT-OF-WAY AGREEMENTS**

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

1. My name is Corie A. Mathews. I am a Senior Landman for EP Energy E&P Company, L.P., whose address is 1001 Louisiana Street, Houston, Texas 77002 ("EP Energy").
2. EP Energy is the operator of the proposed Neihart 2-2C5 well (" the Well") to be located in the SW/4 of the SE/4 of Section 2, Township 3 South, Range 5 West, USM, Duchesne County, Utah (the "Drillsite Location"). The surface owners of the Drillsite location are Judith Neihart, Micah T. Cooper, Bonnie J. Armstrong, as tenants in common, whose address is 30 S 500 E, Heber City, Utah 84032 and whose telephone number is (434) 654-1963 ("Surface Owners").
3. EP Energy and the Surface Owners have entered into a Damage Settlement and Release Agreement dated June 8, 2013 to cover any and all injuries or damages of every character and description sustained by the Surface Owners or Surface Owners' property as a result of operations associated with the drilling of the Well.
4. EP Energy and the Surface Owners have also entered into a Right-of-Way Agreement dated June 8, 2013 for an access road, pipeline and power line corridor across the NE/4 of the SW/4 of Section 2, Township 3 South, Range 5 West, USM, Duchesne County, Utah.

FURTHER AFFIANT SAYETH NOT.

*Corie A. Mathews*

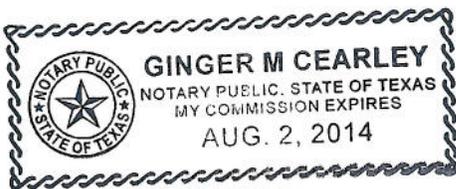
Corie A. Mathews, RPL

**ACKNOWLEDGMENT**

STATE OF TEXAS           §  
                                       §  
 COUNTY OF HARRIS       §

**CONFIDENTIAL**

This instrument was acknowledged before me on this the 10<sup>th</sup> day of June, 2013 by Corie A. Mathews as a Senior Landman for EP ENERGY E&P COMPANY, L.P., a Delaware limited partnership, on behalf of said partnership and acknowledged to me that he executed the same as his own free and voluntary act and deed for the uses and purposes therein set forth.



*Ginger M. Cearley*

---

Notary Public in and for State of Texas

EP Energy E&P Company, L.P.

**Related Surface Information**

1. **Current Surface Use:**
  - Livestock Grazing and Oil and Gas Production.
2. **Proposed Surface Disturbance:**
  - The road will be crown and ditch. Water wings will be constructed on the access road as needed.
  - The topsoil will be windrowed and re-spread in the borrow area.
  - New road to be constructed will be approximately .57 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 .57 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 15<sup>th</sup>, and prior to ground frost, or seed will be planted after the frost has left and before May 15<sup>th</sup>. 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:**

Judith Neihart, Micah T. Cooper & Bonnie J. Armstrong  
30 S 500 E  
Heber City, Utah 84032  
434-654-1963

**Other Information:**

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

• **Operator and Contact Persons:**

**Construction and Reclamation:**

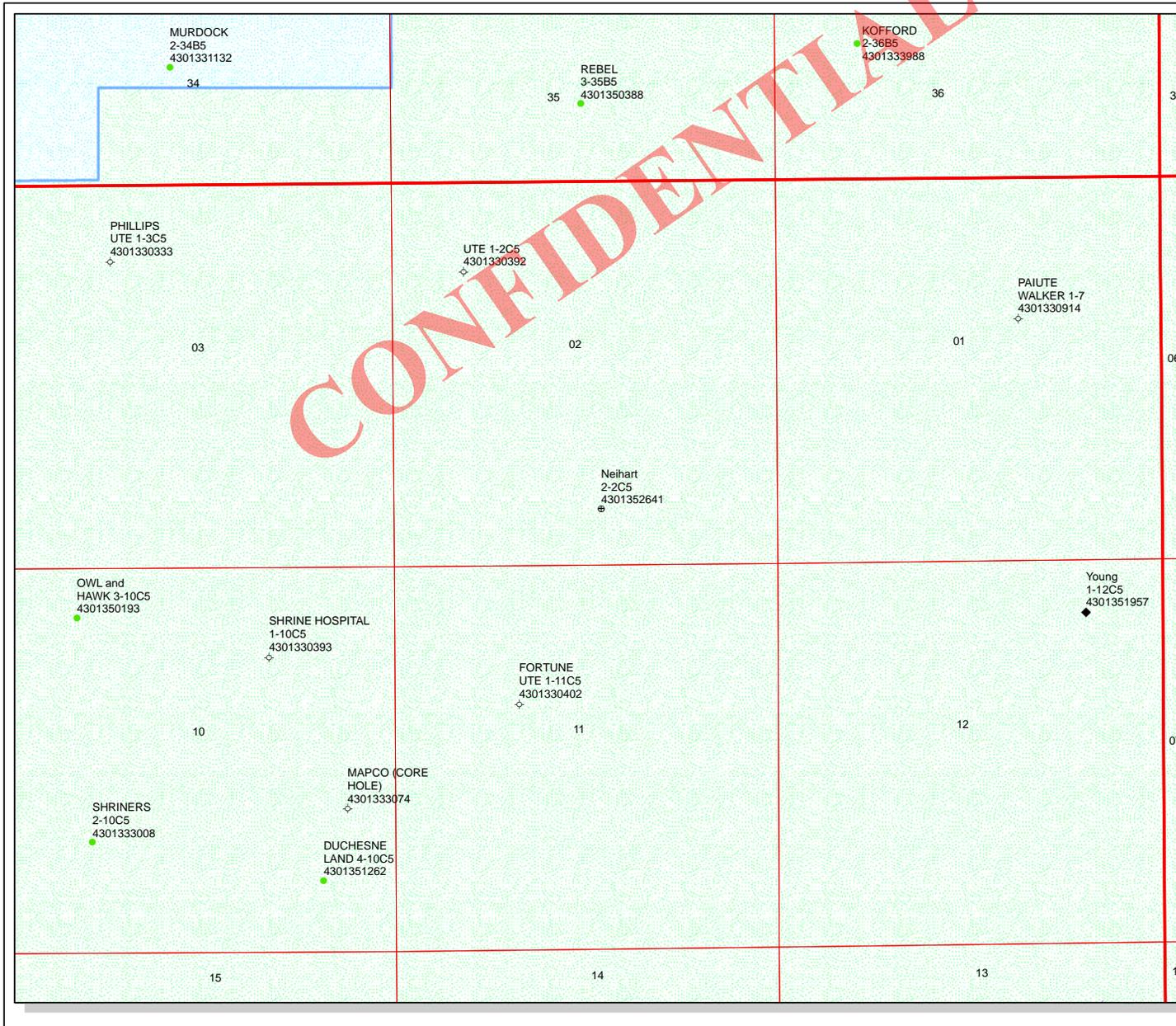
EP Energy E&P Company, L.P.  
Wayne Garner  
PO Box 410  
Altamont, Utah 84001  
435-454-3394 – Office  
435-823-1490 – Cell

**Regarding This APD**

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

**Drilling**

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



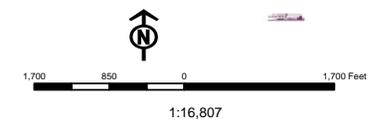
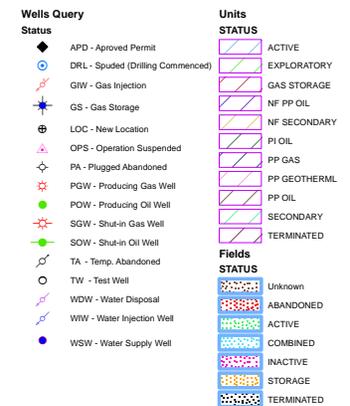
API Number: 4301352641

Well Name: Neihart 2-2C5

Township: T03.0S Range: R05.0W Section: 02 Meridian: U

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

Map Prepared: 11/6/2013  
Map Produced by Diana Mason



|  |  |       |       |       |
|--|--|-------|-------|-------|
| Well Name                                | EP ENERGY E&P COMPANY, L.P. Neihart 2-2C5 43013526410000 |       |       |       |
| String                                   | Cond   | Surf  | I1    | L1    |
| Casing Size(")                           | 13.375   | 9.625 | 7.000 | 5.000 |
| Setting Depth (TVD)                      | 600  | 2900  | 9300  | 12400 |
| Previous Shoe Setting Depth (TVD)        | 0  | 600   | 2900  | 9300  |
| Max Mud Weight (ppg)                     | 9.0  | 9.7   | 10.5  | 13.7  |
| BOPE Proposed (psi)                      | 1000   | 1000  | 5000  | 10000 |
| Casing Internal Yield (psi)              | 2730   | 5750  | 11220 | 13940 |
| Operators Max Anticipated Pressure (psi) | 8834   |       |       | 13.7  |

|   |  |        |   |     |
|---|--|--------|---|-----|
| Calculations                                  | Cond String  | 13.375 | "   |     |
| Max BHP (psi)                                 | .052*Setting Depth*MW=                             | 281    |   |     |
|   |  |        | BOPE Adequate For Drilling And Setting Casing at Depth? |     |
| MASP (Gas) (psi)                              | Max BHP-(0.12*Setting Depth)=                      | 209    | YES   | 4.5 |
| MASP (Gas/Mud) (psi)                          | Max BHP-(0.22*Setting Depth)=                      | 149    | YES   | OK  |
|   |  |        | *Can Full Expected Pressure Be Held At Previous Shoe?   |     |
| Pressure At Previous Shoe                     | Max BHP-.22*(Setting Depth - Previous Shoe Depth)= | 149    | 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=                             | 1463  |   |     |
|   |  |       | BOPE Adequate For Drilling And Setting Casing at Depth? |     |
| MASP (Gas) (psi)                              | Max BHP-(0.12*Setting Depth)=                      | 1115  | NO  | 4.5 |
| MASP (Gas/Mud) (psi)                          | Max BHP-(0.22*Setting Depth)=                      | 825   | YES   | OK  |
|   |  |       | *Can Full Expected Pressure Be Held At Previous Shoe?   |     |
| Pressure At Previous Shoe                     | Max BHP-.22*(Setting Depth - Previous Shoe Depth)= | 957   | NO  | OK  |
| Required Casing/BOPE Test Pressure=           |  | 2900  | 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=                             | 5078  |   |  |
|   |  |       | BOPE Adequate For Drilling And Setting Casing at Depth? |  |
| MASP (Gas) (psi)                              | Max BHP-(0.12*Setting Depth)=                      | 3962  | YES   | 5M BOP & kill lines, 5M choke manifold |
| MASP (Gas/Mud) (psi)                          | Max BHP-(0.22*Setting Depth)=                      | 3032  | YES   | OK                                     |
|   |  |       | *Can Full Expected Pressure Be Held At Previous Shoe?   |  |
| Pressure At Previous Shoe                     | Max BHP-.22*(Setting Depth - Previous Shoe Depth)= | 3670  | NO  | OK                                     |
| Required Casing/BOPE Test Pressure=           |  | 7854  | psi   |  |
| *Max Pressure Allowed @ Previous Casing Shoe= |  | 2900  | psi *Assumes 1psi/ft frac gradient                      |  |

|   |  |       |   |   |
|---|--|-------|---|---|
| Calculations                                  | L1 String  | 5.000 | "   |   |
| Max BHP (psi)                                 | .052*Setting Depth*MW=                             | 8834  |   |   |
|   |  |       | BOPE Adequate For Drilling And Setting Casing at Depth? |   |
| MASP (Gas) (psi)                              | Max BHP-(0.12*Setting Depth)=                      | 7346  | YES   | 10M BOP w/ rotating head, 5M annular, blind |
| MASP (Gas/Mud) (psi)                          | Max BHP-(0.22*Setting Depth)=                      | 6106  | YES   | rams, mud cross                             |
|   |  |       | *Can Full Expected Pressure Be Held At Previous Shoe?   |   |
| Pressure At Previous Shoe                     | Max BHP-.22*(Setting Depth - Previous Shoe Depth)= | 8152  | YES   | OK  |
| Required Casing/BOPE Test Pressure=           |  | 9758  | psi   |   |
| *Max Pressure Allowed @ Previous Casing Shoe= |  | 9300  | psi *Assumes 1psi/ft frac gradient                      |   |

# 43013526410000 Niehart 2-2C5

## Casing Schematic

12 7/8" 11 7/8" 10 7/8"

Surface

13-3/8"  
MW 8.8

9-5/8"  
MW 9.4  
Frac 19.3

7"  
MW 10.5  
Frac 19.3

5"  
MW 13.7

TOC @ 0.

Conductor  
600. MD

1200' ± BMSW

2395' tail

2889' BMSW (EP Energy)

Surface  
2900. MD

4400' Green River  
to 2444' @ 2% w/o, tail 8260'  
+ Proposed 2400'

TOC @ 4832.  
5219' Green River (GRTN1)

Astip ✓

6169' Mahogany Bench

7479' Lower Green River (TGR3)

12 7/8" TOL @ 9100.

9239' Wasatch

Intermediate  
9300. MD

TOC @ 10018.

to TOL @ 4% w/o.

Production Liner  
12400. MD

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Stop cuts.

|              |                                       |             |              |
|--------------|---------------------------------------|-------------|--------------|
| Well name:   | <b>43013526410000 Niehart 2-2C5</b>   |             |              |
| Operator:    | <b>EP ENERGY E&amp;P COMPANY, LP.</b> |             |              |
| String type: | Conductor                             | Project ID: | 43-013-52641 |
| Location:    | UINTAH COUNTY                         |             |              |

**Design parameters:**

**Collapse**

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

**Minimum design factors:**

**Collapse:**

Design factor 1.125

**Environment:**

H2S considered? No  
 Surface temperature: 74 °F  
 Bottom hole temperature: 82 °F  
 Temperature gradient: 1.40 °F/100ft  
 Minimum section length: 100 ft

**Burst:**

Design factor 1.00

Cement top: Surface

**Burst**

Max anticipated surface pressure: 202 psi  
 Internal gradient: 0.120 psi/ft  
 Calculated BHP 274 psi  
 Annular backup: 1.50 ppg

**Tension:**

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

**Non-directional string.**

Tension is based on buoyed weight.  
 Neutral point: 522 ft

| Run Seq | Segment Length (ft) | Size (in)               | Nominal Weight (lbs/ft) | Grade            | End Finish           | True Vert Depth (ft) | Measured Depth (ft) | Drift Diameter (in)     | Est. Cost (\$)        |
|---------|---------------------|-------------------------|-------------------------|------------------|----------------------|----------------------|---------------------|-------------------------|-----------------------|
| 1       | 600                 | 13.375                  | 54.50                   | J-55             | ST&C                 | 600                  | 600                 | 12.49                   | 7444                  |
| Run Seq | Collapse Load (psi) | Collapse Strength (psi) | Collapse Design Factor  | Burst Load (psi) | Burst Strength (psi) | Burst Design Factor  | Tension Load (kips) | Tension Strength (kips) | Tension Design Factor |
| 1       | 274                 | 1130                    | 4.120                   | 227              | 2730                 | 12.00                | 28.4                | 514                     | 18.07 J               |

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

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

Date: January 8, 2014  
 Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 600 ft, a mud weight of 8.8 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

|              |                                       |                             |
|--------------|---------------------------------------|-----------------------------|
| Well name:   | <b>43013526410000 Niehart 2-2C5</b>   |                             |
| Operator:    | <b>EP ENERGY E&amp;P COMPANY, LP.</b> |                             |
| String type: | Surface                               | Project ID:<br>43-013-52641 |
| Location:    | UINTAH COUNTY                         |                             |

**Design parameters:**

**Collapse**

Mud weight: 9.400 ppg  
Design is based on evacuated pipe.

**Minimum design factors:**

**Collapse:**

Design factor 1.125

**Environment:**

H2S considered? No  
Surface temperature: 74 °F  
Bottom hole temperature: 115 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 100 ft

**Burst:**

Design factor 1.00

Cement top: Surface

**Burst**

Max anticipated surface pressure: 2,552 psi  
Internal gradient: 0.120 psi/ft  
Calculated BHP: 2,900 psi  
  
Annular backup: 1.50 ppg

**Tension:**

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

**Non-directional string.**

Tension is based on buoyed weight.  
Neutral point: 2,495 ft

**Re subsequent strings:**

Next setting depth: 9,300 ft  
Next mud weight: 10.500 ppg  
Next setting BHP: 5,073 psi  
Fracture mud wt: 19.250 ppg  
Fracture depth: 2,900 ft  
Injection pressure: 2,900 psi

| Run Seq | Segment Length (ft) | Size (in)               | Nominal Weight (lbs/ft) | Grade            | End Finish           | True Vert Depth (ft) | Measured Depth (ft) | Drift Diameter (in)     | Est. Cost (\$)        |
|---------|---------------------|-------------------------|-------------------------|------------------|----------------------|----------------------|---------------------|-------------------------|-----------------------|
| 1       | 2900                | 9.625                   | 40.00                   | N-80             | LT&C                 | 2900                 | 2900                | 8.75                    | 36902                 |
| Run Seq | Collapse Load (psi) | Collapse Strength (psi) | Collapse Design Factor  | Burst Load (psi) | Burst Strength (psi) | Burst Design Factor  | Tension Load (kips) | Tension Strength (kips) | Tension Design Factor |
| 1       | 1416                | 3090                    | 2.182                   | 2674             | 5750                 | 2.15                 | 99.8                | 737                     | 7.39 J                |

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

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

Date: January 8, 2014  
Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 2900 ft, a mud weight of 9.4 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

|              |                                       |             |              |
|--------------|---------------------------------------|-------------|--------------|
| Well name:   | <b>43013526410000 Niehart 2-2C5</b>   |             |              |
| Operator:    | <b>EP ENERGY E&amp;P COMPANY, LP.</b> |             |              |
| String type: | Intermediate                          | Project ID: | 43-013-52641 |
| Location:    | UINTAH COUNTY                         |             |              |

**Design parameters:**

**Collapse**

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

**Minimum design factors:**

**Collapse:**

Design factor 1.125

**Environment:**

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

**Burst:**

Design factor 1.00

Cement top: 4,832 ft

**Burst**

Max anticipated surface pressure: 6,097 psi  
 Internal gradient: 0.220 psi/ft  
 Calculated BHP 8,143 psi

No backup mud specified.

**Tension:**

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

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

**Non-directional string.**

**Re subsequent strings:**

Next setting depth: 12,400 ft  
 Next mud weight: 13.700 ppg  
 Next setting BHP: 8,825 psi  
 Fracture mud wt: 19.250 ppg  
 Fracture depth: 9,300 ft  
 Injection pressure: 9,300 psi

| Run Seq | Segment Length (ft) | Size (in)               | Nominal Weight (lbs/ft) | Grade            | End Finish           | True Vert Depth (ft) | Measured Depth (ft) | Drift Diameter (in)     | Est. Cost (\$)        |
|---------|---------------------|-------------------------|-------------------------|------------------|----------------------|----------------------|---------------------|-------------------------|-----------------------|
| 1       | 9300                | 7                       | 29.00                   | HCP-110          | LT&C                 | 9300                 | 9300                | 6.059                   | 105021                |
| Run Seq | Collapse Load (psi) | Collapse Strength (psi) | Collapse Design Factor  | Burst Load (psi) | Burst Strength (psi) | Burst Design Factor  | Tension Load (kips) | Tension Strength (kips) | Tension Design Factor |
| 1       | 5073                | 9200                    | 1.814                   | 8143             | 11220                | 1.38                 | 226.8               | 797                     | 3.51 J                |

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

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

Date: January 8, 2014  
 Salt Lake City, Utah

**Remarks:**

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

Burst strength is not adjusted for tension.

|              |                                       |             |              |
|--------------|---------------------------------------|-------------|--------------|
| Well name:   | <b>43013526410000 Niehart 2-2C5</b>   |             |              |
| Operator:    | <b>EP ENERGY E&amp;P COMPANY, LP.</b> |             |              |
| String type: | Production Liner                      | Project ID: | 43-013-52641 |
| Location:    | UINTAH COUNTY                         |             |              |

**Design parameters:**

**Collapse**

Mud weight: 13.700 ppg  
 Design is based on evacuated pipe.

**Burst**

Max anticipated surface pressure: 6,097 psi  
 Internal gradient: 0.220 psi/ft  
 Calculated BHP: 8,825 psi

No backup mud specified.

**Minimum design factors:**

**Collapse:**

Design factor: 1.125

**Burst:**

Design factor: 1.00

**Tension:**

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

Tension is based on buoyed weight.  
 Neutral point: 11,712 ft

**Environment:**

H2S considered? No  
 Surface temperature: 74 °F  
 Bottom hole temperature: 248 °F  
 Temperature gradient: 1.40 °F/100ft  
 Minimum section length: 1,000 ft

Cement top: 10,018 ft

Liner top: 9,100 ft

**Non-directional string.**

| Run Seq | Segment Length (ft) | Size (in)               | Nominal Weight (lbs/ft) | Grade            | End Finish           | True Vert Depth (ft) | Measured Depth (ft) | Drift Diameter (in)     | Est. Cost (\$)        |
|---------|---------------------|-------------------------|-------------------------|------------------|----------------------|----------------------|---------------------|-------------------------|-----------------------|
| 1       | 3300                | 5                       | 18.00                   | HCP-110          | LT&C                 | 12400                | 12400               | 4.151                   | 23849                 |
| Run Seq | Collapse Load (psi) | Collapse Strength (psi) | Collapse Design Factor  | Burst Load (psi) | Burst Strength (psi) | Burst Design Factor  | Tension Load (kips) | Tension Strength (kips) | Tension Design Factor |
| 1       | 8825                | 13470                   | 1.526                   | 8825             | 13940                | 1.58                 | 47                  | 495                     | 10.53 J               |

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

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

Date: January 8, 2014  
 Salt Lake City, Utah

**Remarks:**

For this liner string, the top is rounded to the nearest 100 ft. Collapse is based on a vertical depth of 12400 ft, a mud weight of 13.7 ppg. The Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.



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

|  |                   |    |                     |
|--|-------------------|----|---------------------|
| <b>Distance to Groundwater (feet)</b>    | >200              | 0  |                     |
| <b>Distance to Surface Water (feet)</b>  | 300 to 1000       | 2  |                     |
| <b>Dist. Nearest Municipal Well (ft)</b> | >5280             | 0  |                     |
| <b>Distance to Other Wells (feet)</b>    | >1320             | 0  |                     |
| <b>Native Soil Type</b>                  | High permeability | 20 |                     |
| <b>Fluid Type</b>                        | Fresh Water       | 5  |                     |
| <b>Drill Cuttings</b>                    | Normal Rock       | 0  |                     |
| <b>Annual Precipitation (inches)</b>     |                   | 0  |                     |
| <b>Affected Populations</b>              |                   |    |                     |
| <b>Presence Nearby Utility Conduits</b>  | Not Present       | 0  |                     |
| <b>Final Score</b>                       |                   | 27 | 1 Sensitivity Level |

**Characteristics / Requirements**

Reserve pit is proposed along the west side of the location which is the best place for the pit because of the slope along the east side that leads into the Duchesne River bottoms; the river is also against the toe or foot of this hill. The pit is planned for 110' wide by 150' long by 12' deep.

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

Surface slopes southeast, bench-like property nearly flat. Approximately thirty to forty feet northeast of corners 8 & 1 the surface slopes easterly into the Duchesne River Basin, with the river cut into the toe of that slope. Landowner did not attend and was OK with this location but did not want it moved. Permanent berming will be required along the north and east side of this location to prevent spills from reaching river, primarily because the operator wants to place the production facility along the northeast side of the well pad.

Dennis Ingram  
Evaluator

11/27/2013  
Date / Time

**Application for Permit to Drill  
Statement of Basis  
Utah Division of Oil, Gas and Mining**

| APD No           | API WellNo                                       | Status | Well Type                    | Surf Owner  | CBM |
|------------------|--|--------|------------------------------|---|-----|
| 8993             | 43013526410000                                   | LOCKED | OW                           | P   | No  |
| <b>Operator</b>  | EP ENERGY E&P COMPANY, L.P.                      |        | <b>Surface<br/>Owner-APD</b> | Judith Neihart, Micah<br>Cooper, Bonnie Armstrong |     |
| <b>Well Name</b> | Neihart 2-2C5                                    |        | <b>Unit</b>                  |   |     |
| <b>Field</b>     | ALTAMONT   |        | <b>Type of Work</b>          | DRILL   |     |
| <b>Location</b>  | SWSE 2 3S 5W U 799 FSL<br>(UTM) 549600E 4455002N |        | 2406 FEL                     | GPS Coord   |     |

**Geologic Statement of Basis**

E P proposes to set 600 feet of conductor and 2,900 feet of surface casing both of which will be cemented to surface. The surface and intermediate holes will be drilled utilizing fresh water mud. The estimated depth to the base of moderately saline ground water is 1,200 feet. A search of Division of Water Rights records indicates that there are 29 water wells within a 10,000 foot radius of the center of Section 2. Wells range between 52 and 600 feet in depth and are used for irrigation, stock watering, domestic and oilfield purposes. These wells probably produce from the Duchesne River Formation. The Duchesne River Formation is made up of sandstones with interbedded shales and is the most prominent fresh water aquifer in the area. The proposed casing and cement program should adequately protect ground water in this area.

Brad Hill  
APD Evaluator

12/18/2013  
Date / Time

**Surface Statement of Basis**

There aren't any drainage issues that need diverted around this location. However, Hair Bench drops off thirty feet northeast of corners 8 and 1 leading to the Duchense River, which is cut into the toe slope of that hill. The operator also plans to install the production facility and tanks along the northeast side of location between corners 8 and 1, so special berming requirements will apply. Therefore the operator will need to install corrugated, galvanized steel type berming 2.5 to 3.0 feet in height along the location edge to prevent any leaks from reaching the Duchesne River (like EP Eenergy has done on the Cabinlands 2-16B3 & Hanson 2-9B3).

A reserve pit has been proposed along the southwestern side of the location and will need a 20 mil synthetic liner to prevent fluids from seeping into the underlying sandy soils and cobbles. This pit should also be fenced to prevent elk or mule deer from entering, as this range is high value winter range and has summer use because of river access.

A presite meeting was scheduled and performed on November 27, 2013 for the Neihart 2-2C5 to take input and address issues regarding the construction and drilling of this well. Mike Copper was shown as the owner of this land and /or spoke for the people involved. He did not attend and has entered into a landowner agreement with the operator. Mr. Copper was OK with this well site staking but did not want it moved without him attending a presite visit.

Dennis Ingram  
Onsite Evaluator

11/27/2013  
Date / Time

**Conditions of Approval / Application for Permit to Drill**

| <b>Category</b> | <b>Condition</b>   |
|-----------------|--|
| Pits            | A synthetic liner with a minimum thickness of 20 mils shall be properly installed and maintained in the reserve pit.   |
| Pits            | The reserve pit should be located on the west side of the location.  |
| Surface         | The well site shall be bermed to prevent fluids from leaving the pad. The operator has plans to install the production facility along the northeast side of this location, which is the closet distance to the slope leading to the Duchesne River. If that location is utilized, the operator shall install a two to three foot corrugated, gavanized steel berm with cement at the base to permanently prevent spills from leaving location toward the River bottom. |

**CONFIDENTIAL**

## WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 11/1/2013

API NO. ASSIGNED: 43013526410000

WELL NAME: Neihart 2-2C5

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

PHONE NUMBER: 713 997-5038

CONTACT: Maria S. Gomez

PROPOSED LOCATION: SWSE 02 030S 050W

Permit Tech Review: 

SURFACE: 0799 FSL 2406 FEL

Engineering Review: 

BOTTOM: 0799 FSL 2406 FEL

Geology Review: 

COUNTY: DUCHESNE

LATITUDE: 40.24399

LONGITUDE: -110.41686

UTM SURF EASTINGS: 549600.00

NORTHINGS: 4455002.00

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

Commingling Approved

## LOCATION AND SITING:

- R649-2-3.
- Unit:
- R649-3-2. General
- R649-3-3. Exception
- Drilling Unit
- Board Cause No: Cause 139-84
- Effective Date: 12/31/2008
- Siting: 4 Wells Per 640 Acre
- R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations: 5 - Statement of Basis - bhll  
8 - Cement to Surface -- 2 strings - hmacdonald  
12 - Cement Volume (3) - hmacdonald



GARY R. HERBERT  
*Governor*

SPENCER J. COX  
*Lieutenant Governor*

# State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
*Executive Director*

Division of Oil, Gas and Mining

JOHN R. BAZA  
*Division Director*

## Permit To Drill

\*\*\*\*\*

**Well Name:** Neihart 2-2C5

**API Well Number:** 43013526410000

**Lease Number:** Fee

**Surface Owner:** FEE (PRIVATE)

**Approval Date:** 1/13/2014

### Issued to:

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

### Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 139-84. The expected producing formation or pool is the GREEN RIVER(LWR)-WASATCH Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

### Duration:

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

### General:

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

### Conditions of Approval:

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

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

Cement volume for the 7" intermediate string shall be determined from actual hole diameter in order to place cement from the pipe setting depth back to 2400' MD as indicated in the submitted drilling plan.

### Additional Approvals:

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

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

**Notification Requirements:**

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

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

**Contact Information:**

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

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

**Reporting Requirements:**

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

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

Approved By:

**Approved by:**

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

For John Rogers  
Associate Director, Oil & Gas



Alexis Huefner <alexishuefner@utah.gov>

**24 Hr Notice after Initial Spudding of Well: Neihart 2-2C5**

1 message

RLANDRIG008 <RLANDRIG008@epenergy.com>

Fri, Aug 8, 2014 at 4:05 PM

To: Alexis Huefner <alexishuefner@utah.gov>, "MacAfee, Bradley D" <Brad.MacAfee@epenergy.com>, Carol Daniels <caroldaniels@utah.org>, "dennisingram@utah.gov" <dennisingram@utah.gov>, "Morales, Lisa" <Lisa.Morales@epenergy.com>, "Gomez, Maria S" <Maria.Gomez@epenergy.com>, "Evans, Perry (Contractor)" <Perry.Evans@epenergy.com>, "Ward, Julia A (Julie)" <Julie.Ward@epenergy.com>

Aug. 08, 2014

**CONFIDENTIAL**

**24 Hour Notice of Initial Spud on the following well.**

**Well Name: Neihart 2-2C5**

799 FSL 2406 FEL  
8WSE 2 3S 5W

**API Well Number: 43013526410000**

**Field: Altamont**

**County: Duchesne**

**Mineral Owner: Fee**

Aug. 07, 2014

12:00 Noon

**Leon Ross Drilling**

**Rig #35 Bucket Rig**

**Best Regards**

**Steven Murphy**

**Rig Site Supervisor**

**EP Energy LLC**

**C: 435-823-1725**

---

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



Alexis Huefner <alexishuefner@utah.gov>

**24 Hr Notice after Initial Spudding of Well: Neihart 2-2C5**

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Aug. 08, 2014

**CONFIDENTIAL**

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|  |  |
|--|--|
| <b>STATE OF UTAH</b><br>DEPARTMENT OF NATURAL RESOURCES<br>DIVISION OF OIL, GAS, AND MINING  | <b>FORM 9</b>                                  |
| <b>SUNDRY NOTICES AND REPORTS ON WELLS</b><br><br>Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals. | 5. LEASE DESIGNATION AND SERIAL NUMBER:<br>Fee |
| 1. TYPE OF WELL<br>Oil Well  | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME:          |
| 2. NAME OF OPERATOR:<br>EP ENERGY E&P COMPANY, L.P.  | 7. UNIT or CA AGREEMENT NAME:                  |
| 3. ADDRESS OF OPERATOR:<br>1001 Louisiana , Houston, TX, 77002   | 8. WELL NAME and NUMBER:<br>Neihart 2-2C5      |
| 4. LOCATION OF WELL<br>FOOTAGES AT SURFACE:<br>0799 FSL 2406 FEL<br>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:<br>Qtr/Qtr: SWSE Section: 02 Township: 03.0S Range: 05.0W Meridian: U   | 9. API NUMBER:<br>43013526410000               |
| 5. PHONE NUMBER:<br>713 997-5038 Ext   | 9. FIELD and POOL or WILDCAT:<br>ALTAMONT      |
|  | COUNTY:<br>DUCHESNE                            |
|  | STATE:<br>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<br>Approximate date work will start:<br>10/4/2014 | <input type="checkbox"/> ACIDIZE                       | <input type="checkbox"/> ALTER CASING                   | <input type="checkbox"/> CASING REPAIR                  |
| <input type="checkbox"/> SUBSEQUENT REPORT<br>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<br>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<br>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 well in the Wasatch. Please see attached for details.

**Approved by the**  
**October 02, 2014**  
**Oil, Gas and Mining**

**Date:** \_\_\_\_\_  
**By:** DeKQ

|  |                                     |  |
|--|-------------------------------------|--|
| <b>NAME (PLEASE PRINT)</b><br>Maria S. Gomez | <b>PHONE NUMBER</b><br>713 997-5038 | <b>TITLE</b><br>Principal Regulatory Analyst |
| <b>SIGNATURE</b><br>N/A                      | <b>DATE</b><br>10/2/2014            |  |

## **Neihart 2-2C5**

### **Initial Completion**

**API # : 4301352641**

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

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

### **Completion Information (Wasatch Formation)**

- |                 |  |
|-----------------|--|
| <b>Stage #1</b> | RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~11595' – 11956' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of Power Prop 30/50. Total clean water volume is 154550 gals. |
| <b>Stage #2</b> | RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~11225' – 11551' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of Power Prop 30/50. Total clean water volume is 154274 gals. |
| <b>Stage #3</b> | RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~10875' – 11178' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of Power Prop 30/50. Total clean water volume is 154013 gals. |
| <b>Stage #4</b> | RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~10584' – 10844' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of Power Prop 30/50. Total clean water volume is 153796 gals. |
| <b>Stage #5</b> | RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~10227' – 10530' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of TLC 30/50. Total clean water volume is 153530 gals.        |

**Stage #6** RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~9952' – 10196' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of TLC 30/50. Total clean water volume is 153325 gals.

**Stage #7** RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~9658' – 9916' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of TLC 30/50. Total clean water volume is 153105 gals.

### Stimulation Summary

|                          | Top Perf | Btm. Perf | Gross Interval | Plug Depth | Net Perf Length | Total Shots | Perf Intervals | Type of Prop     | Lbs of Prop      | Lbs/ft     | Lbs of 100 Mesh | Gals of HCL (15%) | Gals of Clean H2O | Gals of Slurry |
|--------------------------|----------|-----------|----------------|------------|-----------------|-------------|----------------|------------------|------------------|------------|-----------------|-------------------|-------------------|----------------|
| Stage #1                 | 11,595   | 11,956    | 361            | NA         | 23              | 69          | 17             | Power Prop 30/50 | 150,000          | 416        | 3,000           | 5,000             | 154,550           | 4,205          |
| Stage #2                 | 11,225   | 11,551    | 326            | 11,566     | 23              | 69          | 17             | Power Prop 30/50 | 150,000          | 460        | 3,000           | 5,000             | 154,274           | 4,198          |
| Stage #3                 | 10,875   | 11,178    | 303            | 11,193     | 23              | 69          | 17             | Power Prop 30/50 | 150,000          | 495        | 3,000           | 5,000             | 154,013           | 4,192          |
| Stage #4                 | 10,584   | 10,844    | 260            | 10,859     | 23              | 69          | 17             | Power Prop 30/50 | 150,000          | 577        | 3,000           | 5,000             | 153,796           | 4,187          |
| Stage #5                 | 10,227   | 10,530    | 303            | 10,545     | 23              | 69          | 17             | TLC 30/50        | 150,000          | 495        | 3,000           | 5,000             | 153,530           | 4,175          |
| Stage #6                 | 9,952    | 10,196    | 244            | 10,211     | 23              | 69          | 17             | TLC 30/50        | 150,000          | 615        | 3,000           | 5,000             | 153,325           | 4,170          |
| Stage #7                 | 9,658    | 9,916     | 258            | 9,931      | 23              | 69          | 17             | TLC 30/50        | 150,000          | 581        | 3,000           | 5,000             | 153,105           | 4,165          |
| Stage #8                 | 9,298    | 9,583     | 285            | 9,598      | 23              | 69          | 17             | TLC 30/50        | 150,000          | 526        | 3,000           | 5,000             | 152,837           | 4,159          |
| <b>Average per Stage</b> |          |           | <b>293</b>     |            | <b>23</b>       | <b>69</b>   | <b>17</b>      |                  | <b>150,000</b>   | <b>521</b> | <b>3,000</b>    | <b>5,000</b>      | <b>153,679</b>    | <b>4,181</b>   |
| <b>Totals per Well</b>   |          |           | <b>2,340</b>   |            | <b>184</b>      | <b>552</b>  | <b>136</b>     |                  | <b>1,200,000</b> |            | <b>24,000</b>   | <b>40,000</b>     | <b>1,229,430</b>  | <b>33,452</b>  |

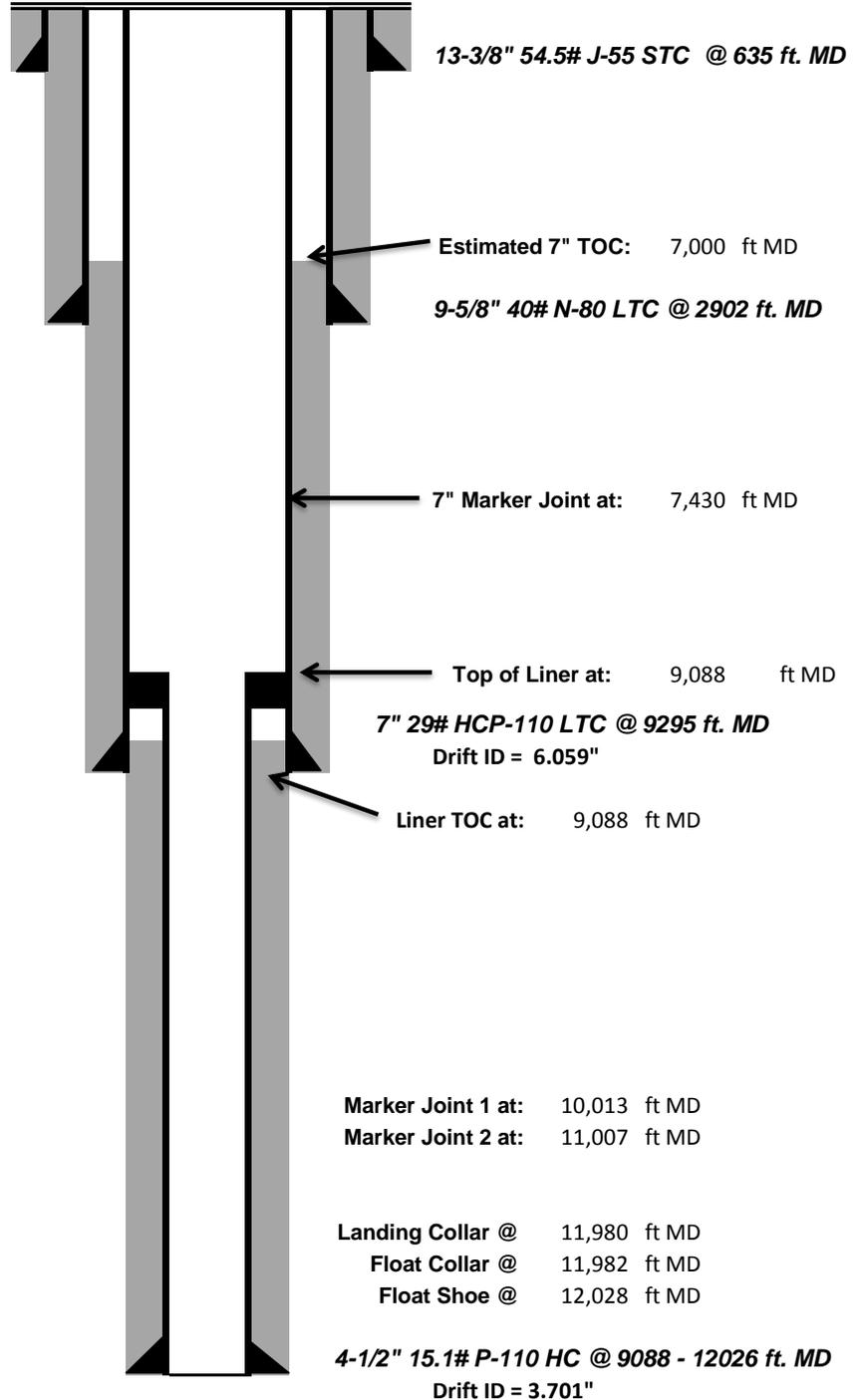


Pre-Completion Wellbore Schematic

Well Name: **Neihart 2-2C5**  
Company Name: **EP Energy**  
Field, County, State: **Altamont, Duchesne, Utah**  
Surface Location: **Lat: 40°14'38.682" N Long: 110°25'0.462" W**  
Producing Zone(s): **Wasatch**

Last Updated: **10/2/2014**  
By: **Jarrold Kent**  
TD: **12,028**  
API: **4301352641**  
AFE: **151212**

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



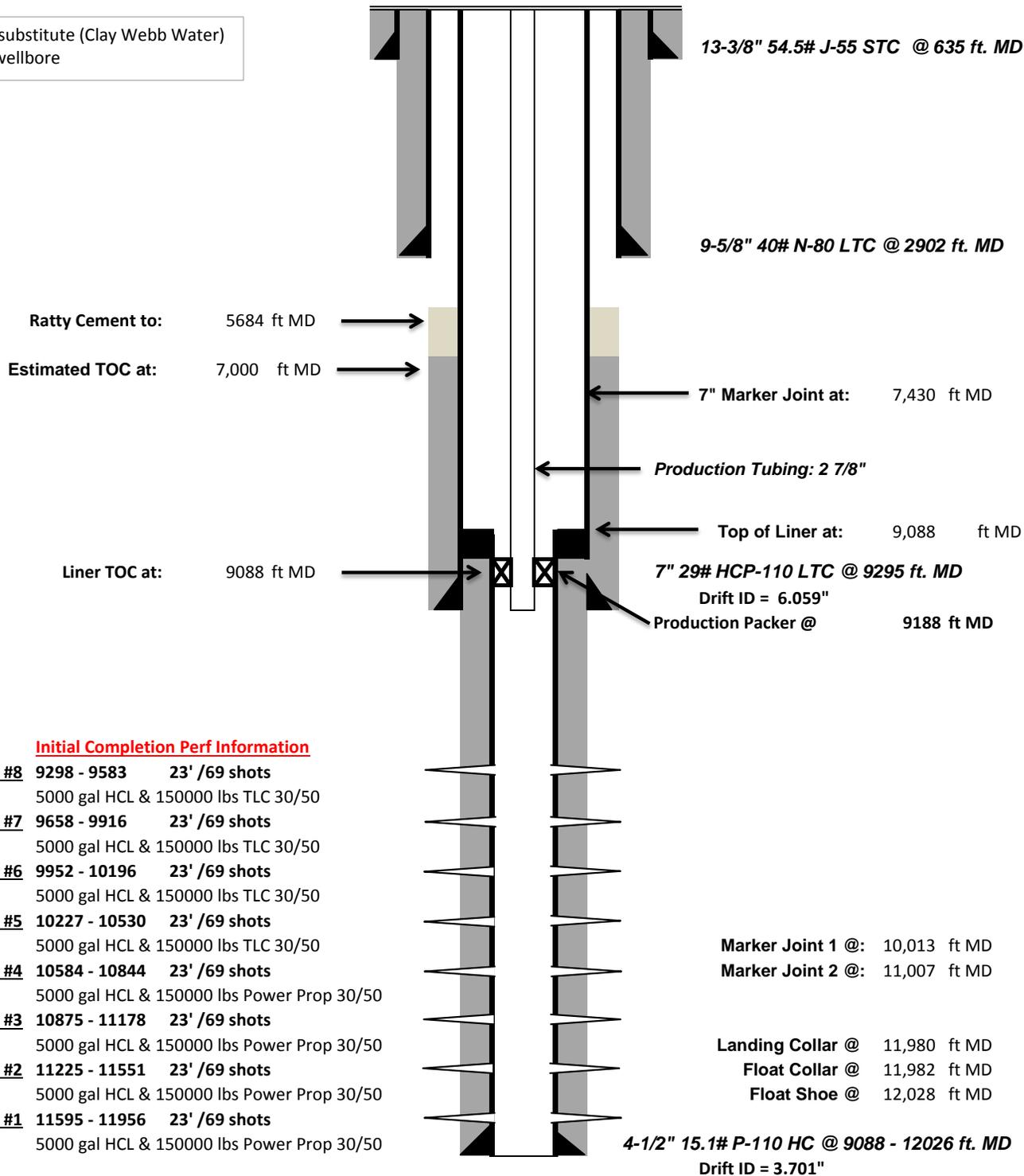


**Post-Completion Wellbore Schematic**

Well Name: **Neihart 2-2C5**  
 Company Name: **EP Energy**  
 Field, County, State: **Altamont, Duchesne, Utah**  
 Surface Location: **Lat: 40°14'38.682" N Long: 110°25'0.462" W**  
 Producing Zone(s): **Wasatch**

Last Updated: **10/2/2014**  
 By: **Jarrold Kent**  
 TD: **12,028**  
 API: **4301352641**  
 AFE: **151212**

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



Ratty Cement to: 5684 ft MD  
 Estimated TOC at: 7,000 ft MD  
 Liner TOC at: 9088 ft MD

7" Marker Joint at: 7,430 ft MD  
 Production Tubing: 2 7/8"  
 Top of Liner at: 9,088 ft MD  
 7" 29# HCP-110 LTC @ 9295 ft. MD  
 Drift ID = 6.059"  
 Production Packer @ 9188 ft MD

**Initial Completion Perf Information**

- Stage #8** 9298 - 9583 23' /69 shots  
5000 gal HCL & 150000 lbs TLC 30/50
- Stage #7** 9658 - 9916 23' /69 shots  
5000 gal HCL & 150000 lbs TLC 30/50
- Stage #6** 9952 - 10196 23' /69 shots  
5000 gal HCL & 150000 lbs TLC 30/50
- Stage #5** 10227 - 10530 23' /69 shots  
5000 gal HCL & 150000 lbs TLC 30/50
- Stage #4** 10584 - 10844 23' /69 shots  
5000 gal HCL & 150000 lbs Power Prop 30/50
- Stage #3** 10875 - 11178 23' /69 shots  
5000 gal HCL & 150000 lbs Power Prop 30/50
- Stage #2** 11225 - 11551 23' /69 shots  
5000 gal HCL & 150000 lbs Power Prop 30/50
- Stage #1** 11595 - 11956 23' /69 shots  
5000 gal HCL & 150000 lbs Power Prop 30/50

Marker Joint 1 @: 10,013 ft MD  
 Marker Joint 2 @: 11,007 ft MD  
 Landing Collar @ 11,980 ft MD  
 Float Collar @ 11,982 ft MD  
 Float Shoe @ 12,028 ft MD

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

AMENDED REPORT  FORM 8  
(highlight changes)

|   |  |  |
|---|--|--|
| <b>WELL COMPLETION OR RECOMPLETION REPORT AND LOG</b>   |  | 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)<br>AT SURFACE:<br><br>AT TOP PRODUCING INTERVAL REPORTED BELOW:<br><br>AT TOTAL DEPTH:   |  | 10 FIELD AND POOL, OR WILDCAT                    |
|   |  | 11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: |
|   |  | 12. COUNTY _____ 13. STATE <b>UTAH</b>           |

|   |  |   |   |
|---|--|---|---|
| 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)<br>WAS DST RUN? NO <input type="checkbox"/> YES <input type="checkbox"/> (Submit report)<br>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 \* Ratty Cement 5684' - 7000'**

| 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<br><input type="checkbox"/> SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION <input type="checkbox"/> CORE ANALYSIS <input type="checkbox"/> OTHER: _____ |                  |

**31. INITIAL PRODUCTION**

**INTERVAL A (As shown in item #26)**

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

**INTERVAL B (As shown in item #26)**

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

**INTERVAL C (As shown in item #26)**

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

**INTERVAL D (As shown in item #26)**

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

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

**33. SUMMARY OF POROUS ZONES (Include Aquifers):**

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

**34. FORMATION (Log) MARKERS:**

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

**35. ADDITIONAL REMARKS (Include plugging procedure)**

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

NAME (PLEASE PRINT) \_\_\_\_\_ TITLE \_\_\_\_\_  
 SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

This report must be submitted within 30 days of

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

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

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

Send to: Utah Division of Oil, Gas and Mining Phone: 801-538-5340  
 1594 West North Temple, Suite 1210  
 Box 145801 Fax: 801-359-3940  
 Salt Lake City, Utah 84114-5801

**Attachment to Well Completion Report****Form 8 Dated November 9, 2014****Well Name: Neihart 2-2C5****Items #27 and #28 Continued****27. Perforation Record**

| <b>Interval (Top/Bottom – MD)</b> | <b>Size</b> | <b>No. of Holes</b> | <b>Perf. Status</b> |
|-----------------------------------|-------------|---------------------|---------------------|
| <b>10227'-10530'</b>              | <b>.43</b>  | <b>69</b>           | <b>Open</b>         |
| <b>9952'-10196'</b>               | <b>.43</b>  | <b>69</b>           | <b>Open</b>         |
| <b>9658'-9916'</b>                | <b>.43</b>  | <b>69</b>           | <b>Open</b>         |
| <b>9298'-9583'</b>                | <b>.43</b>  | <b>69</b>           | <b>Open</b>         |

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

| <b>Depth Interval</b> | <b>Amount and Type of Material</b>                           |
|-----------------------|--|
| <b>10584'-10844'</b>  | <b>5000 gal acid, 3000# 100 mesh, 43180# 20/40 PowerProp</b> |
| <b>10227'-10530'</b>  | <b>5000 gal acid, 3000# 100 mesh, 149140# 30/50 THS</b>      |
| <b>9952'-10196'</b>   | <b>5000 gal acid, 3000# 100 mesh, 150480# 30/50 THS</b>      |
| <b>9658'-9916'</b>    | <b>5000 gal acid, 3000# 100 mesh, 149780# 30/50 THS</b>      |
| <b>9298'-9583'</b>    | <b>5000 gal acid, 3000# 100 mesh, 152440# 30/50 THS</b>      |



**Company:** EP Energy  
**Well:** Neihart 2-2C5  
**Location:** Duchesne, UT  
**Rig:** Precision 404

**Job Number:** \_\_\_\_\_  
**Mag Decl.:** \_\_\_\_\_  
**Dir Driller:** \_\_\_\_\_  
**MWD Eng:** \_\_\_\_\_

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

| Survey Number | Survey Depth (ft) | Inclination (deg) | Azimuth (deg) | Course Length (ft) | True Vertical Depth (ft) | Vertical Section (ft) | Coordinates |          | Closure       |                   | Dogleg Severity (d/100') | Build Rate (d/100') | Walk Rate (d/100') |       |        |
|---------------|-------------------|-------------------|---------------|--------------------|--------------------------|-----------------------|-------------|----------|---------------|-------------------|--------------------------|---------------------|--------------------|-------|--------|
|               |                   |                   |               |                    |                          |                       | N/S (ft)    | E/W (ft) | Distance (ft) | Direction Azimuth |                          |                     |                    |       |        |
| <b>Tie In</b> | <b>0.00</b>       | <b>0.00</b>       | <b>0.00</b>   |                    |                          |                       |             |          |               |                   |                          |                     |                    |       |        |
| 1             | 100.00            | 0.44              | 163.11        | 100.00             | 100.00                   | -0.36                 | 0.36        | S        | 0.11          | E                 | 0.38                     | 163.11              | 0.44               | 0.44  | 163.11 |
| 2             | 200.00            | 0.24              | 137.96        | 100.00             | 200.00                   | -0.88                 | 0.88        | S        | 0.36          | E                 | 0.95                     | 157.81              | 0.24               | -0.20 | -25.15 |
| 3             | 300.00            | 0.43              | 156.72        | 100.00             | 300.00                   | -1.38                 | 1.38        | S        | 0.65          | E                 | 1.52                     | 154.89              | 0.22               | 0.19  | 18.75  |
| 4             | 400.00            | 0.32              | 214.78        | 100.00             | 399.99                   | -1.95                 | 1.95        | S        | 0.64          | E                 | 2.05                     | 161.93              | 0.38               | -0.11 | 58.06  |
| 5             | 500.00            | 0.03              | 278.02        | 100.00             | 499.99                   | -2.17                 | 2.17        | S        | 0.46          | E                 | 2.22                     | 168.15              | 0.31               | -0.29 | 63.25  |
| 6             | 600.00            | 0.61              | 182.50        | 100.00             | 599.99                   | -2.70                 | 2.70        | S        | 0.41          | E                 | 2.74                     | 171.37              | 0.62               | 0.59  | -95.52 |
| 7             | 700.00            | 0.70              | 190.34        | 100.00             | 699.98                   | -3.84                 | 3.84        | S        | 0.28          | E                 | 3.85                     | 175.88              | 0.13               | 0.09  | 7.84   |
| 8             | 800.00            | 0.46              | 220.21        | 100.00             | 799.98                   | -4.75                 | 4.75        | S        | 0.09          | W                 | 4.75                     | 181.10              | 0.38               | -0.25 | 29.87  |
| 9             | 900.00            | 0.77              | 209.83        | 100.00             | 899.97                   | -5.64                 | 5.64        | S        | 0.68          | W                 | 5.68                     | 186.91              | 0.33               | 0.32  | -10.38 |
| 10            | 1000.00           | 0.94              | 216.02        | 100.00             | 999.96                   | -6.89                 | 6.89        | S        | 1.50          | W                 | 7.05                     | 192.29              | 0.19               | 0.16  | 6.19   |
| 11            | 1100.00           | 1.06              | 233.64        | 100.00             | 1099.95                  | -8.09                 | 8.09        | S        | 2.72          | W                 | 8.54                     | 198.58              | 0.33               | 0.12  | 17.62  |
| 12            | 1200.00           | 0.84              | 221.87        | 100.00             | 1199.93                  | -9.19                 | 9.19        | S        | 3.95          | W                 | 10.00                    | 203.28              | 0.29               | -0.22 | -11.77 |
| 13            | 1300.00           | 1.08              | 242.35        | 100.00             | 1299.92                  | -10.17                | 10.17       | S        | 5.28          | W                 | 11.46                    | 207.42              | 0.42               | 0.24  | 20.48  |
| 14            | 1400.00           | 0.89              | 249.40        | 100.00             | 1399.91                  | -10.88                | 10.88       | S        | 6.84          | W                 | 12.85                    | 212.14              | 0.23               | -0.20 | 7.05   |
| 15            | 1500.00           | 1.25              | 234.71        | 100.00             | 1499.89                  | -11.78                | 11.78       | S        | 8.45          | W                 | 14.49                    | 215.64              | 0.45               | 0.36  | -14.69 |
| 16            | 1600.00           | 1.55              | 227.17        | 100.00             | 1599.86                  | -13.32                | 13.32       | S        | 10.32         | W                 | 16.85                    | 217.77              | 0.35               | 0.30  | -7.54  |
| 17            | 1700.00           | 1.75              | 228.53        | 100.00             | 1699.82                  | -15.25                | 15.25       | S        | 12.46         | W                 | 19.69                    | 219.24              | 0.21               | 0.21  | 1.37   |
| 18            | 1800.00           | 1.51              | 236.04        | 100.00             | 1799.78                  | -17.00                | 17.00       | S        | 14.70         | W                 | 22.47                    | 220.84              | 0.32               | -0.24 | 7.51   |
| 19            | 1900.00           | 1.73              | 239.26        | 100.00             | 1899.74                  | -18.51                | 18.51       | S        | 17.09         | W                 | 25.19                    | 222.71              | 0.24               | 0.22  | 3.21   |
| 20            | 2000.00           | 1.67              | 232.25        | 100.00             | 1999.69                  | -20.17                | 20.17       | S        | 19.54         | W                 | 28.08                    | 224.08              | 0.22               | -0.07 | -7.01  |
| 21            | 2100.00           | 1.78              | 217.90        | 100.00             | 2099.65                  | -22.29                | 22.29       | S        | 21.64         | W                 | 31.06                    | 224.15              | 0.45               | 0.12  | -14.36 |
| 22            | 2200.00           | 1.99              | 219.46        | 100.00             | 2199.59                  | -24.85                | 24.85       | S        | 23.69         | W                 | 34.34                    | 223.63              | 0.21               | 0.21  | 1.57   |
| 23            | 2300.00           | 1.89              | 231.76        | 100.00             | 2299.54                  | -27.21                | 27.21       | S        | 26.09         | W                 | 37.69                    | 223.80              | 0.43               | -0.10 | 12.30  |
| 24            | 2400.00           | 2.17              | 223.24        | 100.00             | 2399.47                  | -29.61                | 29.61       | S        | 28.68         | W                 | 41.22                    | 224.09              | 0.42               | 0.29  | -8.52  |
| 25            | 2500.00           | 2.30              | 228.18        | 100.00             | 2499.40                  | -32.32                | 32.32       | S        | 31.47         | W                 | 45.11                    | 224.23              | 0.23               | 0.13  | 4.94   |
| 26            | 2600.00           | 2.27              | 219.04        | 100.00             | 2599.32                  | -35.20                | 35.20       | S        | 34.21         | W                 | 49.09                    | 224.18              | 0.36               | -0.03 | -9.14  |
| 27            | 2700.00           | 2.36              | 217.14        | 100.00             | 2699.24                  | -38.38                | 38.38       | S        | 36.70         | W                 | 53.11                    | 223.72              | 0.12               | 0.09  | -1.90  |
| 28            | 2800.00           | 2.27              | 222.31        | 100.00             | 2799.15                  | -41.49                | 41.49       | S        | 39.28         | W                 | 57.14                    | 223.43              | 0.23               | -0.09 | 5.17   |
| 29            | 2835.00           | 2.32              | 228.34        | 35.00              | 2834.13                  | -42.47                | 42.47       | S        | 40.28         | W                 | 58.54                    | 223.48              | 0.70               | 0.13  | 17.22  |
| 30            | 2943.00           | 1.97              | 218.50        | 108.00             | 2942.05                  | -45.38                | 45.38       | S        | 43.06         | W                 | 62.56                    | 223.50              | 0.47               | -0.32 | -9.11  |
| 31            | 3036.00           | 2.71              | 163.31        | 93.00              | 3034.98                  | -48.74                | 48.74       | S        | 43.43         | W                 | 65.28                    | 221.70              | 2.43               | 0.80  | -59.34 |
| 32            | 3129.00           | 5.16              | 141.32        | 93.00              | 3127.76                  | -54.11                | 54.11       | S        | 40.18         | W                 | 67.40                    | 216.60              | 3.05               | 2.63  | -23.65 |
| 33            | 3223.00           | 6.72              | 122.55        | 94.00              | 3221.26                  | -60.37                | 60.37       | S        | 32.90         | W                 | 68.75                    | 208.59              | 2.63               | 1.66  | -19.97 |
| 34            | 3316.00           | 6.15              | 107.15        | 93.00              | 3313.68                  | -64.76                | 64.76       | S        | 23.56         | W                 | 68.91                    | 199.99              | 1.95               | -0.61 | -16.56 |
| 35            | 3409.00           | 6.08              | 85.64         | 93.00              | 3406.17                  | -65.86                | 65.86       | S        | 13.88         | W                 | 67.31                    | 191.90              | 2.45               | -0.08 | -23.13 |



**Company:** EP Energy  
**Well:** Neihart 2-2C5  
**Location:** Duchesne, UT  
**Rig:** Precision 404

**Job Number:** \_\_\_\_\_  
**Mag Decl.:** \_\_\_\_\_  
**Dir Driller:** \_\_\_\_\_  
**MWD Eng:** \_\_\_\_\_

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

| Survey Number | Survey Depth (ft) | Inclination (deg) | Azimuth (deg) | Course Length (ft) | True Vertical Depth (ft) | Vertical Section (ft) | Coordinates |          | Closure       |                   | Dogleg Severity (d/100') | Build Rate (d/100') | Walk Rate (d/100') |       |        |
|---------------|-------------------|-------------------|---------------|--------------------|--------------------------|-----------------------|-------------|----------|---------------|-------------------|--------------------------|---------------------|--------------------|-------|--------|
|               |                   |                   |               |                    |                          |                       | N/S (ft)    | E/W (ft) | Distance (ft) | Direction Azimuth |                          |                     |                    |       |        |
| 36            | 3502.00           | 6.16              | 70.32         | 93.00              | 3498.64                  | -63.80                | 63.80       | S        | 4.27          | W                 | 63.95                    | 183.83              | 1.75               | 0.09  | -16.47 |
| 37            | 3595.00           | 6.35              | 52.54         | 93.00              | 3591.10                  | -58.99                | 58.99       | S        | 4.51          | E                 | 59.17                    | 175.63              | 2.08               | 0.20  | -19.12 |
| 38            | 3688.00           | 6.64              | 33.42         | 93.00              | 3683.51                  | -51.38                | 51.38       | S        | 11.55         | E                 | 52.66                    | 167.33              | 2.34               | 0.31  | -20.56 |
| 39            | 3781.00           | 7.21              | 18.61         | 93.00              | 3775.84                  | -41.36                | 41.36       | S        | 16.38         | E                 | 44.48                    | 158.40              | 2.01               | 0.61  | -15.92 |
| 40            | 3874.00           | 8.09              | 17.55         | 93.00              | 3868.01                  | -29.59                | 29.59       | S        | 20.21         | E                 | 35.83                    | 145.66              | 0.96               | 0.95  | -1.14  |
| 41            | 3968.00           | 8.40              | 13.66         | 94.00              | 3961.04                  | -16.61                | 16.61       | S        | 23.83         | E                 | 29.05                    | 124.88              | 0.68               | 0.33  | -4.14  |
| 42            | 4061.00           | 6.61              | 8.35          | 93.00              | 4053.24                  | -4.71                 | 4.71        | S        | 26.21         | E                 | 26.63                    | 100.19              | 2.06               | -1.92 | -5.71  |
| 43            | 4154.00           | 6.56              | 8.05          | 93.00              | 4145.63                  | 5.84                  | 5.84        | N        | 27.73         | E                 | 28.34                    | 78.10               | 0.07               | -0.05 | -0.32  |
| 44            | 4247.00           | 7.57              | 9.44          | 93.00              | 4237.92                  | 17.15                 | 17.15       | N        | 29.48         | E                 | 34.10                    | 59.82               | 1.10               | 1.09  | 1.49   |
| 45            | 4340.00           | 6.98              | 12.28         | 93.00              | 4330.17                  | 28.71                 | 28.71       | N        | 31.69         | E                 | 42.76                    | 47.82               | 0.74               | -0.63 | 3.05   |
| 46            | 4433.00           | 8.01              | 14.54         | 93.00              | 4422.38                  | 40.51                 | 40.51       | N        | 34.52         | E                 | 53.22                    | 40.44               | 1.15               | 1.11  | 2.43   |
| 47            | 4526.00           | 8.07              | 21.90         | 93.00              | 4514.47                  | 52.83                 | 52.83       | N        | 38.58         | E                 | 65.42                    | 36.14               | 1.11               | 0.06  | 7.91   |
| 48            | 4619.00           | 8.15              | 22.48         | 93.00              | 4606.54                  | 64.98                 | 64.98       | N        | 43.53         | E                 | 78.22                    | 33.82               | 0.12               | 0.09  | 0.62   |
| 49            | 4712.00           | 6.58              | 27.21         | 93.00              | 4698.77                  | 75.81                 | 75.81       | N        | 48.49         | E                 | 89.99                    | 32.60               | 1.81               | -1.69 | 5.09   |
| 50            | 4806.00           | 7.68              | 24.84         | 94.00              | 4792.04                  | 86.30                 | 86.30       | N        | 53.59         | E                 | 101.59                   | 31.84               | 1.21               | 1.17  | -2.52  |
| 51            | 4899.00           | 6.74              | 24.08         | 93.00              | 4884.30                  | 96.93                 | 96.93       | N        | 58.43         | E                 | 113.17                   | 31.08               | 1.02               | -1.01 | -0.82  |
| 52            | 4992.00           | 6.67              | 27.95         | 93.00              | 4976.67                  | 106.68                | 106.68      | N        | 63.19         | E                 | 123.99                   | 30.64               | 0.49               | -0.08 | 4.16   |
| 53            | 5085.00           | 7.19              | 18.52         | 93.00              | 5068.99                  | 116.97                | 116.97      | N        | 67.57         | E                 | 135.08                   | 30.01               | 1.34               | 0.56  | -10.14 |
| 54            | 5178.00           | 6.46              | 23.31         | 93.00              | 5161.33                  | 127.29                | 127.29      | N        | 71.49         | E                 | 145.99                   | 29.32               | 0.99               | -0.78 | 5.15   |
| 55            | 5271.00           | 6.48              | 18.31         | 93.00              | 5253.74                  | 137.08                | 137.08      | N        | 75.21         | E                 | 156.35                   | 28.75               | 0.61               | 0.02  | -5.38  |
| 56            | 5364.00           | 6.93              | 7.48          | 93.00              | 5346.11                  | 147.62                | 147.62      | N        | 77.58         | E                 | 166.77                   | 27.72               | 1.44               | 0.48  | -11.65 |
| 57            | 5457.00           | 6.84              | 357.67        | 93.00              | 5438.44                  | 158.72                | 158.72      | N        | 78.09         | E                 | 176.89                   | 26.20               | 1.27               | -0.10 | 376.55 |
| 58            | 5551.00           | 5.41              | 353.37        | 94.00              | 5531.90                  | 168.72                | 168.72      | N        | 77.35         | E                 | 185.60                   | 24.63               | 1.60               | -1.52 | -4.57  |
| 59            | 5644.00           | 6.43              | 357.15        | 93.00              | 5624.40                  | 178.27                | 178.27      | N        | 76.59         | E                 | 194.03                   | 23.25               | 1.17               | 1.10  | 4.06   |
| 60            | 5737.00           | 5.41              | 355.09        | 93.00              | 5716.91                  | 187.84                | 187.84      | N        | 75.95         | E                 | 202.62                   | 22.02               | 1.12               | -1.10 | -2.22  |
| 61            | 5830.00           | 4.96              | 349.82        | 93.00              | 5809.53                  | 196.17                | 196.17      | N        | 74.87         | E                 | 209.97                   | 20.89               | 0.70               | -0.48 | -5.67  |
| 62            | 5923.00           | 4.32              | 346.84        | 93.00              | 5902.22                  | 203.53                | 203.53      | N        | 73.36         | E                 | 216.35                   | 19.82               | 0.74               | -0.69 | -3.20  |
| 63            | 6016.00           | 4.29              | 344.89        | 93.00              | 5994.96                  | 210.30                | 210.30      | N        | 71.65         | E                 | 222.18                   | 18.81               | 0.16               | -0.03 | -2.10  |
| 64            | 6109.00           | 4.72              | 349.49        | 93.00              | 6087.67                  | 217.42                | 217.42      | N        | 70.05         | E                 | 228.43                   | 17.86               | 0.60               | 0.46  | 4.95   |
| 65            | 6203.00           | 5.41              | 359.00        | 94.00              | 6181.31                  | 225.66                | 225.66      | N        | 69.27         | E                 | 236.05                   | 17.06               | 1.15               | 0.73  | 10.12  |
| 66            | 6296.00           | 4.41              | 357.91        | 93.00              | 6273.96                  | 233.61                | 233.61      | N        | 69.06         | E                 | 243.61                   | 16.47               | 1.08               | -1.08 | -1.17  |
| 67            | 6389.00           | 4.38              | 356.51        | 93.00              | 6366.69                  | 240.73                | 240.73      | N        | 68.71         | E                 | 250.35                   | 15.93               | 0.12               | -0.03 | -1.51  |
| 68            | 6482.00           | 3.08              | 353.77        | 93.00              | 6459.49                  | 246.76                | 246.76      | N        | 68.22         | E                 | 256.02                   | 15.46               | 1.41               | -1.40 | -2.95  |
| 69            | 6575.00           | 2.31              | 347.88        | 93.00              | 6552.39                  | 251.08                | 251.08      | N        | 67.56         | E                 | 260.01                   | 15.06               | 0.88               | -0.83 | -6.33  |
| 70            | 6669.00           | 1.68              | 335.25        | 94.00              | 6646.33                  | 254.18                | 254.18      | N        | 66.59         | E                 | 262.76                   | 14.68               | 0.81               | -0.67 | -13.44 |
| 71            | 6762.00           | 1.46              | 324.51        | 93.00              | 6739.30                  | 256.38                | 256.38      | N        | 65.33         | E                 | 264.58                   | 14.29               | 0.39               | -0.24 | -11.55 |
| 72            | 6855.00           | 1.60              | 333.17        | 93.00              | 6832.26                  | 258.51                | 258.51      | N        | 64.05         | E                 | 266.32                   | 13.92               | 0.29               | 0.15  | 9.31   |



**Company:** EP Energy  
**Well:** Neihart 2-2C5  
**Location:** Duchesne, UT  
**Rig:** Precision 404

**Job Number:** \_\_\_\_\_  
**Mag Decl.:** \_\_\_\_\_  
**Dir Driller:** \_\_\_\_\_  
**MWD Eng:** \_\_\_\_\_

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

| Survey Number | Survey Depth (ft) | Inclination (deg) | Azimuth (deg) | Course Length (ft) | True Vertical Depth (ft) | Vertical Section (ft) | Coordinates |          |               |                   | Closure |       | Dogleg Severity (d/100') | Build Rate (d/100') | Walk Rate (d/100') |
|---------------|-------------------|-------------------|---------------|--------------------|--------------------------|-----------------------|-------------|----------|---------------|-------------------|---------|-------|--------------------------|---------------------|--------------------|
|               |                   |                   |               |                    |                          |                       | N/S (ft)    | E/W (ft) | Distance (ft) | Direction Azimuth |         |       |                          |                     |                    |
| 73            | 6948.00           | 1.20              | 320.27        | 93.00              | 6925.23                  | 260.41                | 260.41      | N        | 62.84         | E                 | 267.89  | 13.57 | 0.55                     | -0.43               | -13.87             |
| 74            | 7042.00           | 0.83              | 288.35        | 94.00              | 7019.22                  | 261.39                | 261.39      | N        | 61.57         | E                 | 268.54  | 13.25 | 0.70                     | -0.39               | -33.96             |
| 75            | 7135.00           | 0.79              | 256.84        | 93.00              | 7112.21                  | 261.45                | 261.45      | N        | 60.31         | E                 | 268.32  | 12.99 | 0.47                     | -0.04               | -33.88             |
| 76            | 7228.00           | 0.76              | 239.91        | 93.00              | 7205.20                  | 261.00                | 261.00      | N        | 59.15         | E                 | 267.61  | 12.77 | 0.25                     | -0.03               | -18.20             |
| 77            | 7321.00           | 0.73              | 226.05        | 93.00              | 7298.20                  | 260.28                | 260.28      | N        | 58.19         | E                 | 266.70  | 12.60 | 0.20                     | -0.03               | -14.90             |
| 78            | 7415.00           | 1.10              | 209.37        | 94.00              | 7392.18                  | 259.07                | 259.07      | N        | 57.31         | E                 | 265.34  | 12.47 | 0.48                     | 0.39                | -17.74             |
| 79            | 7507.00           | 1.44              | 201.33        | 92.00              | 7484.16                  | 257.23                | 257.23      | N        | 56.46         | E                 | 263.35  | 12.38 | 0.42                     | 0.37                | -8.74              |
| 80            | 7600.00           | 1.34              | 225.39        | 93.00              | 7577.13                  | 255.38                | 255.38      | N        | 55.26         | E                 | 261.29  | 12.21 | 0.63                     | -0.11               | 25.87              |
| 81            | 7693.00           | 1.24              | 215.29        | 93.00              | 7670.11                  | 253.79                | 253.79      | N        | 53.91         | E                 | 259.45  | 11.99 | 0.27                     | -0.11               | -10.86             |
| 82            | 7787.00           | 1.44              | 208.89        | 94.00              | 7764.08                  | 251.93                | 251.93      | N        | 52.75         | E                 | 257.39  | 11.83 | 0.27                     | 0.21                | -6.81              |
| 83            | 7880.00           | 1.89              | 204.45        | 93.00              | 7857.04                  | 249.51                | 249.51      | N        | 51.55         | E                 | 254.78  | 11.67 | 0.50                     | 0.48                | -4.77              |
| 84            | 7973.00           | 2.06              | 197.32        | 93.00              | 7949.99                  | 246.52                | 246.52      | N        | 50.42         | E                 | 251.62  | 11.56 | 0.32                     | 0.18                | -7.67              |
| 85            | 8066.00           | 2.34              | 189.97        | 93.00              | 8042.92                  | 243.05                | 243.05      | N        | 49.59         | E                 | 248.06  | 11.53 | 0.43                     | 0.30                | -7.90              |
| 86            | 8160.00           | 2.32              | 195.55        | 94.00              | 8136.84                  | 239.33                | 239.33      | N        | 48.75         | E                 | 244.24  | 11.51 | 0.24                     | -0.02               | 5.94               |
| 87            | 8253.00           | 1.96              | 209.17        | 93.00              | 8229.78                  | 236.12                | 236.12      | N        | 47.47         | E                 | 240.85  | 11.37 | 0.67                     | -0.39               | 14.65              |
| 88            | 8346.00           | 1.80              | 220.90        | 93.00              | 8322.73                  | 233.63                | 233.63      | N        | 45.74         | E                 | 238.07  | 11.08 | 0.45                     | -0.17               | 12.61              |
| 89            | 8439.00           | 1.78              | 269.85        | 93.00              | 8415.69                  | 232.52                | 232.52      | N        | 43.33         | E                 | 236.53  | 10.56 | 1.59                     | -0.02               | 52.63              |
| 90            | 8532.00           | 1.89              | 250.56        | 93.00              | 8508.64                  | 232.01                | 232.01      | N        | 40.44         | E                 | 235.51  | 9.89  | 0.67                     | 0.12                | -20.74             |
| 91            | 8625.00           | 2.59              | 231.06        | 93.00              | 8601.57                  | 230.18                | 230.18      | N        | 37.36         | E                 | 233.19  | 9.22  | 1.10                     | 0.75                | -20.97             |
| 92            | 8718.00           | 2.38              | 237.31        | 93.00              | 8694.48                  | 227.81                | 227.81      | N        | 34.10         | E                 | 230.35  | 8.51  | 0.37                     | -0.23               | 6.72               |
| 93            | 8811.00           | 1.77              | 229.45        | 93.00              | 8787.42                  | 225.84                | 225.84      | N        | 31.39         | E                 | 228.01  | 7.91  | 0.72                     | -0.66               | -8.45              |
| 94            | 8904.00           | 0.88              | 208.62        | 93.00              | 8880.40                  | 224.28                | 224.28      | N        | 29.95         | E                 | 226.27  | 7.61  | 1.07                     | -0.96               | -22.40             |
| 95            | 8997.00           | 1.29              | 161.26        | 93.00              | 8973.38                  | 222.66                | 222.66      | N        | 29.95         | E                 | 224.66  | 7.66  | 1.02                     | 0.44                | -50.92             |
| 96            | 9090.00           | 2.03              | 175.76        | 93.00              | 9066.34                  | 220.03                | 220.03      | N        | 30.41         | E                 | 222.12  | 7.87  | 0.91                     | 0.80                | 15.59              |
| 97            | 9183.00           | 1.60              | 177.09        | 93.00              | 9159.30                  | 217.09                | 217.09      | N        | 30.59         | E                 | 219.23  | 8.02  | 0.46                     | -0.46               | 1.43               |
| 98            | 9231.00           | 1.37              | 182.94        | 48.00              | 9207.28                  | 215.84                | 215.84      | N        | 30.60         | E                 | 218.00  | 8.07  | 0.57                     | -0.48               | 12.19              |
| 99            | 9300.00           | 1.52              | 191.39        | 69.00              | 9276.26                  | 214.12                | 214.12      | N        | 30.38         | E                 | 216.26  | 8.07  | 0.38                     | 0.22                | 12.24              |
| 100           | 9400.00           | 1.54              | 193.55        | 100.00             | 9376.22                  | 211.51                | 211.51      | N        | 29.80         | E                 | 213.60  | 8.02  | 0.06                     | 0.01                | 2.16               |
| 101           | 9500.00           | 1.28              | 223.93        | 100.00             | 9476.19                  | 209.40                | 209.40      | N        | 28.71         | E                 | 211.36  | 7.81  | 0.78                     | -0.26               | 30.38              |
| 102           | 9600.00           | 1.91              | 204.55        | 100.00             | 9576.16                  | 207.09                | 207.09      | N        | 27.25         | E                 | 208.87  | 7.50  | 0.82                     | 0.63                | -19.38             |
| 103           | 9700.00           | 1.83              | 183.68        | 100.00             | 9676.10                  | 203.98                | 203.98      | N        | 26.45         | E                 | 205.69  | 7.39  | 0.68                     | -0.07               | -20.87             |
| 104           | 9800.00           | 2.02              | 189.73        | 100.00             | 9776.05                  | 200.64                | 200.64      | N        | 26.05         | E                 | 202.33  | 7.40  | 0.28                     | 0.19                | 6.05               |
| 105           | 9900.00           | 2.28              | 203.86        | 100.00             | 9875.98                  | 197.08                | 197.08      | N        | 24.95         | E                 | 198.66  | 7.21  | 0.59                     | 0.26                | 14.13              |
| 106           | 10000.00          | 2.92              | 203.77        | 100.00             | 9975.87                  | 192.93                | 192.93      | N        | 23.11         | E                 | 194.31  | 6.83  | 0.64                     | 0.64                | -0.09              |
| 107           | 10100.00          | 3.05              | 210.12        | 100.00             | 10075.74                 | 188.30                | 188.30      | N        | 20.76         | E                 | 189.44  | 6.29  | 0.35                     | 0.13                | 6.35               |
| 108           | 10200.00          | 3.22              | 203.79        | 100.00             | 10175.59                 | 183.43                | 183.43      | N        | 18.29         | E                 | 184.34  | 5.69  | 0.39                     | 0.18                | -6.33              |
| 109           | 10300.00          | 2.71              | 203.36        | 100.00             | 10275.45                 | 178.69                | 178.69      | N        | 16.22         | E                 | 179.43  | 5.19  | 0.52                     | -0.52               | -0.43              |



**Company:** EP Energy  
**Well:** Neihart 2-2C5  
**Location:** Duchesne, UT  
**Rig:** Precision 404

**Job Number:** \_\_\_\_\_  
**Mag Decl.:** \_\_\_\_\_  
**Dir Driller:** \_\_\_\_\_  
**MWD Eng:** \_\_\_\_\_

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

| Survey Number | Survey Depth (ft) | Inclination (deg) | Azimuth (deg) | Course Length (ft) | True Vertical Depth (ft) | Vertical Section (ft) | Coordinates |          | Closure       |                   | Dogleg Severity (d/100') | Build Rate (d/100') | Walk Rate (d/100') |       |        |
|---------------|-------------------|-------------------|---------------|--------------------|--------------------------|-----------------------|-------------|----------|---------------|-------------------|--------------------------|---------------------|--------------------|-------|--------|
|               |                   |                   |               |                    |                          |                       | N/S (ft)    | E/W (ft) | Distance (ft) | Direction Azimuth |                          |                     |                    |       |        |
| 110           | 10400.00          | 2.86              | 188.94        | 100.00             | 10375.34                 | 174.06                | 174.06      | N        | 14.89         | E                 | 174.69                   | 4.89                | 0.71               | 0.15  | -14.42 |
| 111           | 10500.00          | 2.67              | 196.67        | 100.00             | 10475.22                 | 169.37                | 169.37      | N        | 13.84         | E                 | 169.93                   | 4.67                | 0.42               | -0.19 | 7.73   |
| 112           | 10600.00          | 2.80              | 201.35        | 100.00             | 10575.11                 | 164.86                | 164.86      | N        | 12.28         | E                 | 165.32                   | 4.26                | 0.26               | 0.14  | 4.68   |
| 113           | 10700.00          | 3.35              | 199.02        | 100.00             | 10674.96                 | 159.82                | 159.82      | N        | 10.44         | E                 | 160.16                   | 3.74                | 0.56               | 0.55  | -2.33  |
| 114           | 10800.00          | 3.67              | 207.61        | 100.00             | 10774.78                 | 154.23                | 154.23      | N        | 8.00          | E                 | 154.43                   | 2.97                | 0.61               | 0.32  | 8.59   |
| 115           | 10900.00          | 3.59              | 200.42        | 100.00             | 10874.58                 | 148.46                | 148.46      | N        | 5.43          | E                 | 148.56                   | 2.09                | 0.46               | -0.08 | -7.18  |
| 116           | 11000.00          | 3.29              | 205.11        | 100.00             | 10974.40                 | 142.92                | 142.92      | N        | 3.12          | E                 | 142.96                   | 1.25                | 0.41               | -0.30 | 4.68   |
| 117           | 11100.00          | 3.63              | 199.15        | 100.00             | 11074.21                 | 137.34                | 137.34      | N        | 0.86          | E                 | 137.34                   | 0.36                | 0.50               | 0.34  | -5.95  |
| 118           | 11200.00          | 3.23              | 191.47        | 100.00             | 11174.04                 | 131.58                | 131.58      | N        | 0.73          | W                 | 131.58                   | 359.68              | 0.61               | -0.40 | -7.68  |
| 119           | 11300.00          | 3.73              | 200.21        | 100.00             | 11273.85                 | 125.77                | 125.77      | N        | 2.42          | W                 | 125.79                   | 358.90              | 0.72               | 0.49  | 8.74   |
| 120           | 11400.00          | 3.31              | 196.66        | 100.00             | 11373.66                 | 119.95                | 119.95      | N        | 4.37          | W                 | 120.03                   | 357.91              | 0.47               | -0.41 | -3.55  |
| 121           | 11500.00          | 3.07              | 201.43        | 100.00             | 11473.51                 | 114.70                | 114.70      | N        | 6.17          | W                 | 114.86                   | 356.92              | 0.36               | -0.25 | 4.77   |
| 122           | 11600.00          | 2.94              | 197.58        | 100.00             | 11573.37                 | 109.76                | 109.76      | N        | 7.92          | W                 | 110.05                   | 355.87              | 0.24               | -0.12 | -3.85  |
| 123           | 11700.00          | 2.86              | 194.11        | 100.00             | 11673.24                 | 104.90                | 104.90      | N        | 9.31          | W                 | 105.31                   | 354.93              | 0.19               | -0.08 | -3.47  |
| 124           | 11820.00          | 2.94              | 202.38        | 120.00             | 11793.09                 | 99.14                 | 99.14       | N        | 11.21         | W                 | 99.78                    | 353.55              | 0.36               | 0.07  | 6.89   |
| 125           | 12028.00          | 2.94              | 202.38        | 208.00             | 12000.82                 | 89.27                 | 89.27       | N        | 15.28         | W                 | 90.57                    | 350.29              | 0.00               | 0.00  | 0.00   |