

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

FORM 3

AMENDED REPORT

<b>APPLICATION FOR PERMIT TO DRILL</b>						<b>1. WELL NAME and NUMBER</b> Duchesne City 2-25C5				
<b>2. TYPE OF WORK</b> DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						<b>3. FIELD OR WILDCAT</b> ALTAMONT				
<b>4. TYPE OF WELL</b> Oil Well <input type="checkbox"/> Coalbed Methane Well: NO <input type="checkbox"/>						<b>5. UNIT or COMMUNITIZATION AGREEMENT NAME</b>				
<b>6. NAME OF OPERATOR</b> EP ENERGY E&P COMPANY, L.P.						<b>7. OPERATOR PHONE</b> 713 997-5038				
<b>8. ADDRESS OF OPERATOR</b> 1001 Louisiana, Houston, TX, 77002						<b>9. OPERATOR E-MAIL</b> maria.gomez@epenergy.com				
<b>10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)</b> Fee <input type="checkbox"/>			<b>11. MINERAL OWNERSHIP</b> FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>			<b>12. SURFACE OWNERSHIP</b> FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>				
<b>13. NAME OF SURFACE OWNER (if box 12 = 'fee')</b> Duchesne City						<b>14. SURFACE OWNER PHONE (if box 12 = 'fee')</b> 435-738-0128				
<b>15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')</b> 500 East Main Street, Duchesne, UT 84021						<b>16. SURFACE OWNER E-MAIL (if box 12 = 'fee')</b>				
<b>17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')</b>			<b>18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS</b> YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			<b>19. SLANT</b> VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>				
<b>20. LOCATION OF WELL</b>		<b>FOOTAGES</b>		<b>QTR-QTR</b>	<b>SECTION</b>	<b>TOWNSHIP</b>	<b>RANGE</b>	<b>MERIDIAN</b>		
LOCATION AT SURFACE		1057 FNL 288 FEL		NENE	25	3.0 S	5.0 W	U		
Top of Uppermost Producing Zone		1057 FNL 660 FEL		NENE	25	3.0 S	5.0 W	U		
At Total Depth		1057 FNL 660 FEL		NENE	25	3.0 S	5.0 W	U		
<b>21. COUNTY</b> DUCHESNE			<b>22. DISTANCE TO NEAREST LEASE LINE (Feet)</b> 288			<b>23. NUMBER OF ACRES IN DRILLING UNIT</b> 640				
<b>27. ELEVATION - GROUND LEVEL</b> 5822			<b>25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)</b> 3000			<b>26. PROPOSED DEPTH</b> MD: 11300 TVD: 11300				
<b>28. BOND NUMBER</b> 400JU0708			<b>29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE</b> 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 - 700	54.5	J-55 LT&C	8.8	Class G	879	1.15	15.8
SURF	12.25	9.625	0 - 4050	40.0	N-80 LT&C	9.5	35/65 Poz	575	3.16	11.0
							Premium Lite High Strength	191	1.33	14.2
I1	8.75	7	0 - 8300	29.0	P-110 LT&C	10.0	Premium Lite High Strength	267	2.31	12.0
							Premium Lite High Strength	91	1.91	12.5
L1	6.125	4.5	8100 - 11300	13.5	P-110 LT&C	11.0	50/50 Poz	236	1.61	12.3
<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 checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)					<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP					
<b>NAME</b> Maria S. Gomez			<b>TITLE</b> Principal Regulatory Analyst			<b>PHONE</b> 713 997-5038				
<b>SIGNATURE</b>			<b>DATE</b> 02/26/2013			<b>EMAIL</b> maria.gomez@epenergy.com				
<b>API NUMBER ASSIGNED</b> 43013520640000			<b>APPROVAL</b>  Permit Manager							

**Duchesne City 2-25C5  
Sec. 25, T3S, R5W  
DUCHEсне COUNTY, UT**

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

**DRILLING PROGRAM**

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

<u>Formation</u>	<u>Depth</u>
Green River (GRRV)	3,500'
Green River (GRTN1)	4,200'
Mahogany Bench	5,000'
L. Green River	6,490'
Wasatch	8,330'
T.D. (Permit)	11,300'

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

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
	Green River (GRRV)	3,500'
	Green River (GRTN1)	4,200'
	Mahogany Bench	5,000'
Oil	L. Green River	6,490'
Oil	Wasatch	8,330'

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

A 4.5" by 20.0" rotating head on structural pipe from surface to 700'. A 4.5" by 13 3/8" Smith Rotating Head and 5M Annular from 700' to 4,050' on Conductor. A 5M BOP stack, 5M Annular, and 5M kill lines and choke manifold used from 4,050' to 8,300'. A 10M BOE w/rotating head, 5M annular, blind rams & mud cross from 8,300' to TD. 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 1500 psi or 0.22 psi/ft. The choke manifold equipment, upper Kelly cock, floor safety valves will be tested to 5M psi. The annular preventer will be tested to 250 psi low test and 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 monitoring systems with gas monitor 700' – TD.
- B) Mud logger with gas monitor – 4,050' to TD
- C) Choke manifold with one manual and one hydraulic operated choke
- D) Full opening floor valve with drill pipe thread
- E) Upper and lower Kelly cock
- F) Shaker, de-sander and de-silter, 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 will be based on: 25% excess over gauge hole in the liner section, 10% excess over gauge hole in the intermediate section, and 75% excess on the lead and 50% excess on the tail over gauge hole volume for the surface hole. Actual volumes pumped will be a minimum of the volumes stated above, however, actual hole size will be based on caliper logs in the liner and intermediate sections. Gauge hole will be used for the surface section.

5. **Drilling Fluids Program:**

Proposed Mud Program:

Interval	Type	Mud Weight
Surface	WBM	8.8 – 9.5
Intermediate	WBM	9.5 – 10.0
Production	WBM	10.0 – 11.0

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

Visual mud monitoring equipment will be utilized.

6. **Evaluation Program:**

Logs:

Mud Log: 4,050' - TD.

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

7. **Abnormal Conditions:**

Maximum anticipated bottomhole pressure calculated at 11,300' TD equals approximately 6,464 psi. This is calculated based on a 0.572 psi/foot gradient (11.0 ppg mud density at TD).

Maximum anticipated surface pressure equals approximately 3,978 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/ft).

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

BOPE and casing design will be based on the lesser of the two MASPs which is 3,978 psi.

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



**DRILLING PROGRAM**

CASING PROGRAM	SIZE	INTERVAL		WT.	GR.	CPLG.	BURST	COLLAPSE	TENSION
CONDUCTOR	13 3/8"	0	700	54.5	J-55	LTC	2,730	1,140	1,399
SURFACE	9-5/8"	0	4050	40.00	N-80	LTC	3,090	5,750	820
INTERMEDIATE	7"	0	8300	29.00	P-110	LTC	11,220	8,530	797
PRODUCTION LINER	4 1/2"	8100	11300	13.50	P-110	LTC	12,410	10,680	338

CEMENT PROGRAM		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
CONDUCTOR		700	Class G + 3% CACL2	879	100%	15.8 ppg	1.15
SURFACE	Lead	3,550	Boral Craig POZ 35%, Mountain G 65%, Bentonite Wyoming 8%, Silicate 5 lbm/sk, Pol-E Flake 0.125 lbm/sk, Kwik Seal 0.25 lb/sk	575	75%	11.0 ppg	3.16
	Tail	500	Halco-light premium+3 lb/sk Silicate+0.3% Econolite+1% Salt+0.25 lbm/sk Kol-Seal+0.24 lb/sk Kwik Seal+ HR-5	191	50%	14.2 ppg	1.33
INTERMEDIATE	Lead	3,750	Hallco-Light-Premium+4% Bentonite+0.4% Econolite+0.2% Halad322+3 lb/sk Silicalite Compacted+0.8% HR-5+ 0.125 lb/sk Poly-E-Flake	267	10%	12.0 ppg	2.31
	Tail	1,000	Halco-Light-Premium+0.2% Econolite+0.3% Versaset+0.2% Halad322+0.8% HR-5+ 0.3% SuperCBL+ 0.125 lb/sk Poly-E-Flake	91	10%	12.5 ppg	1.91
PRODUCTION LINER		3,200	Halco- 50/50 Poz Premium Cement+20% SSA-1+0.3% Super CBL+ 0.3% Halad-344+0.3% Halad-413+ 0.2% SCR-100+ 0.125 lb/sk Poly-E-Flake + 3 lb/sk Silicat	236	25%	12.30	1.61

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): Joe Cawthorn 713-997-5929MANAGER: Tommy Gaydos

**EP ENERGY E&P COMPANY, L.P.**  
**DUCHESNE CITY 2-25C5**  
**SECTION 25, 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 2.08 MILES TO AN INTERSECTION;

TURN RIGHT AND TRAVEL EAST ON PAVED COUNTY ROAD 0.20 MILES TO AN INTERSECTION;

TURN LEFT AND TRAVEL NORTH 0.19 MILES ON CITY-COUNTY ROAD TO THE PROPOSED LOCATION;

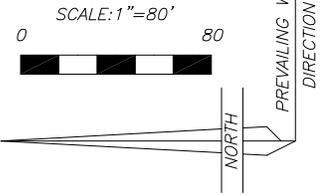
TOTAL DISTANCE FROM DUCHESNE, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 2.47 MILES.

**CONFIDENTIAL**

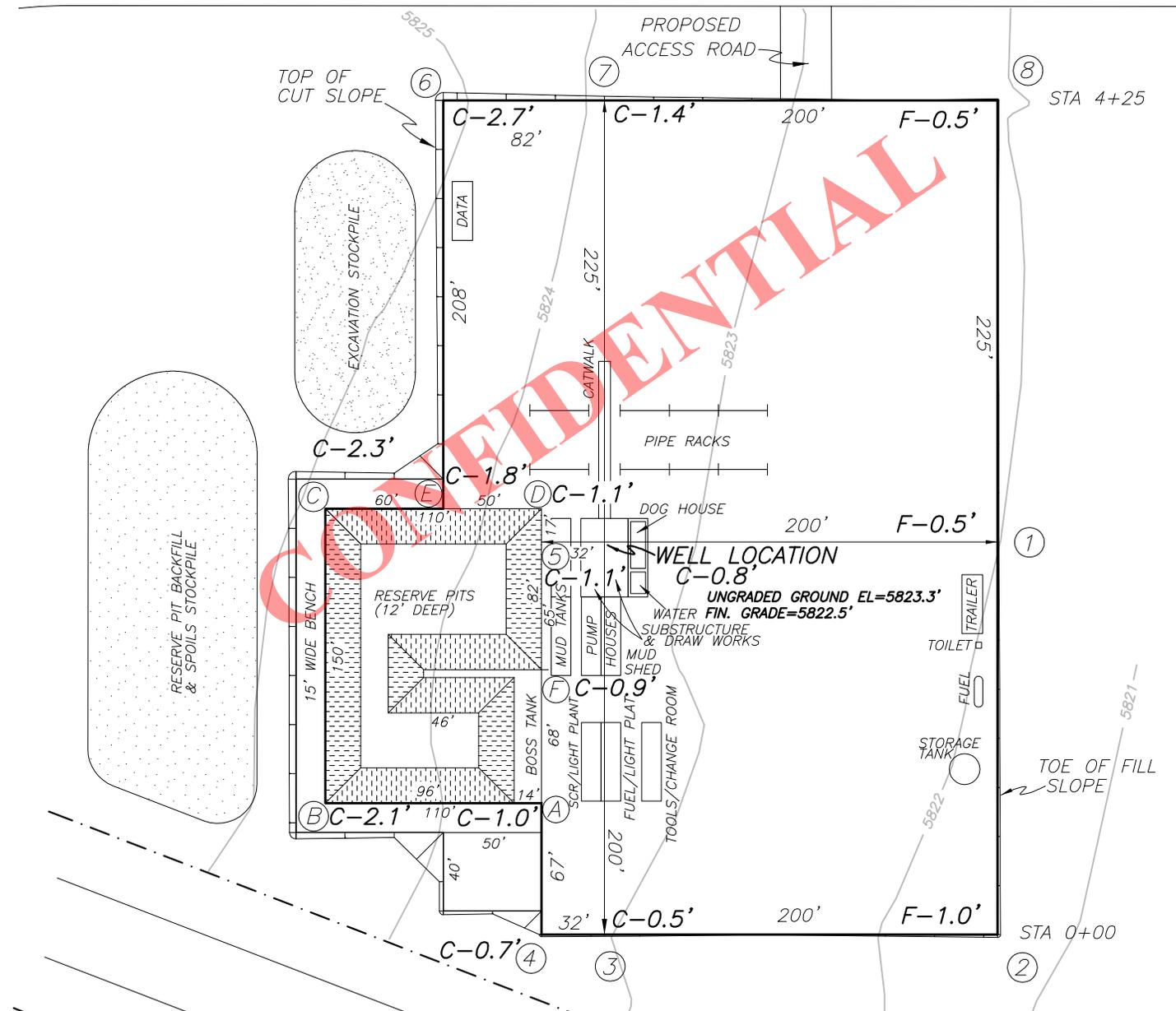
# EP ENERGY E & P COMPANY, L.P.

FIGURE #1

LOCATION LAYOUT FOR  
DUCHESNE CITY 2-25C5  
SECTION 25, T3S, R5W, U.S.B.&M.  
1057' FNL, 288' FEL



EXISTING ROAD  
(USE FOR ACCESS)



**CONFIDENTIAL**

*Jerry D. Allred*

PROFESSIONAL LAND SURVEYOR  
No. 14895  
JERRY D. ALLRED  
31 DEC '12  
STATE OF UTAH

EXISTING HIGHWAY 87

JERRY D. ALLRED & ASSOCIATES  
SURVEYING CONSULTANTS

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

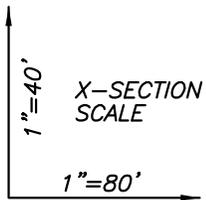
31 DEC 2012 01-128-355

RECEIVED: February 21, 2013

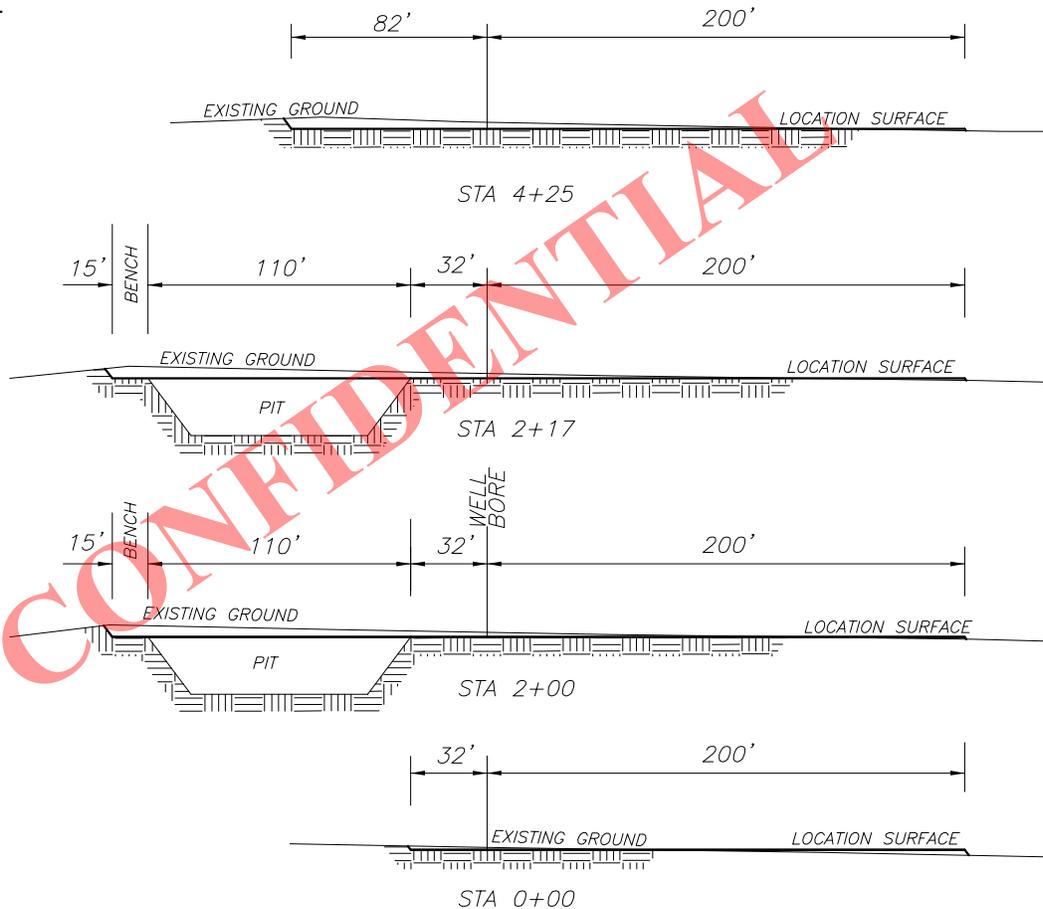
# EP ENERGY E & P COMPANY, L.P.

FIGURE #2

LOCATION LAYOUT FOR  
 DUCHESNE CITY 2-25C5  
 SECTION 25, T3S, R5W, U.S.B.&M.  
 1057' FNL, 288' FEL

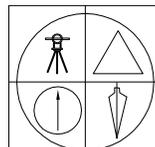


NOTE: ALL CUT/FILL  
 SLOPES ARE 1½:1  
 UNLESS OTHERWISE  
 NOTED



APPROXIMATE QUANTITIES

TOTAL CUT (INCLUDING PIT) = 9143 CU. YDS.  
 PIT CUT = 4572 CU. YDS.  
 TOPSOIL STRIPPING: (6") = 2522 CU. YDS.  
 REMAINING LOCATION CUT = 2049 CU. YDS.  
 TOTAL FILL = 1135 CU. YDS.  
 LOCATION SURFACE GRAVEL=1374 CU. YDS. (4" DEEP)  
 ACCESS ROAD GRAVEL=13 CU. YDS.

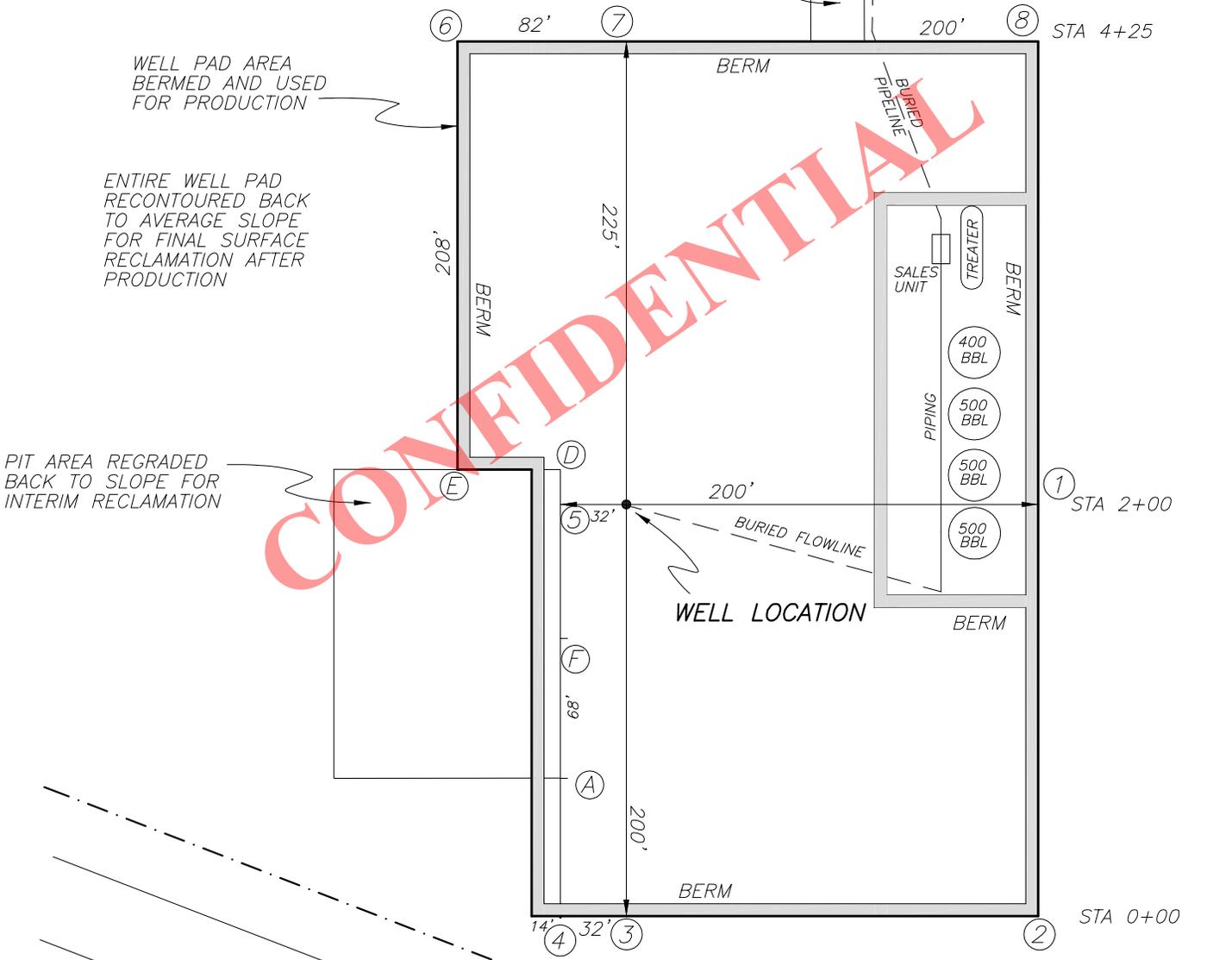
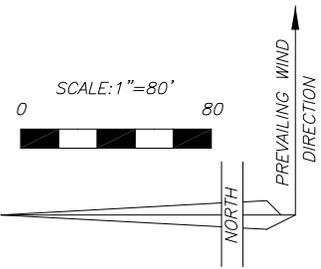


JERRY D. ALLRED & ASSOCIATES  
 SURVEYING CONSULTANTS  
 1235 NORTH 700 EAST--P.O. BOX 975  
 DUCHESNE, UTAH 84021  
 (435) 738-5352

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

FIGURE #3

LOCATION LAYOUT FOR  
DUCHESNE CITY 2-25C5  
SECTION 25, T3S, R5W, U.S.B.&M.  
1057' FNL, 288' FEL



**CONFIDENTIAL**

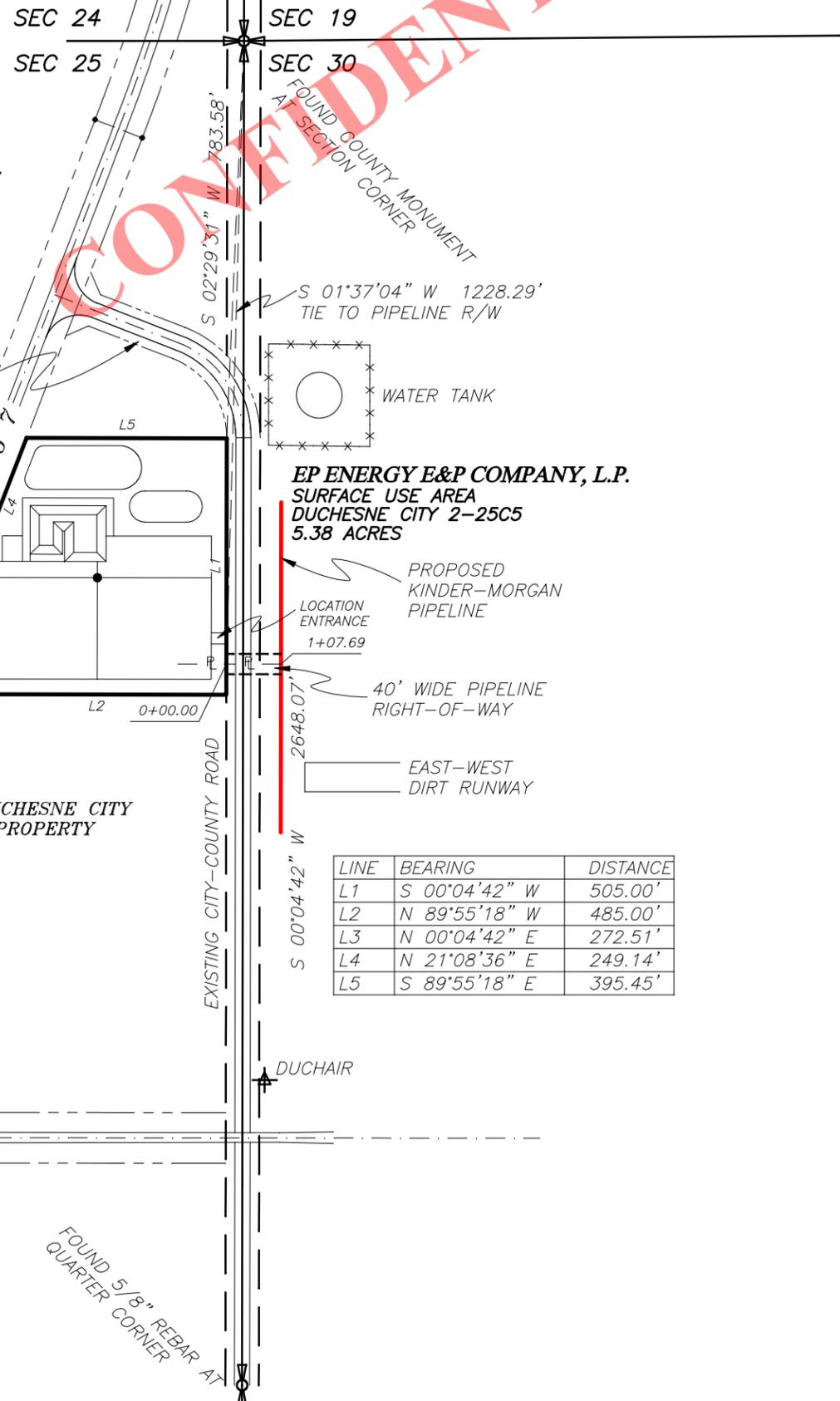
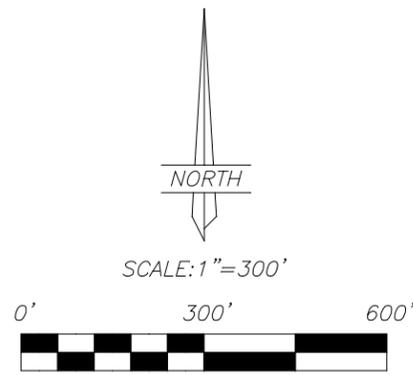


EXISTING HIGHWAY 87

JERRY D. ALLRED & ASSOCIATES  
SURVEYING CONSULTANTS

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

LOCATION USE AREA SURVEY FOR  
**EP ENERGY E&P COMPANY, L.P.**  
**DUCHESNE CITY 2-25C5**  
 SECTION 25, T3S, R5W, U.S.B.&M.  
 DUCHESNE COUNTY, UTAH

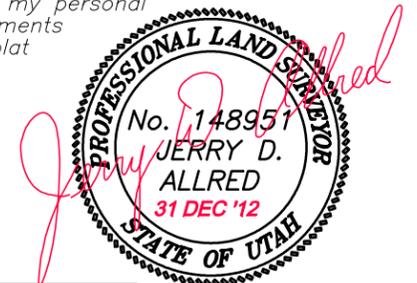


DESCRIPTION OF USE AREA BOUNDARY

Commencing at the Northeast Corner of Section 25, Township 3 South, Range 5 West of the Uintah Special Base and Meridian;  
 Thence South 02°29'31" West 783.58 feet to the TRUE POINT OF BEGINNING, said point being on the West right-of-way line of an existing city-county road;  
 Thence South 00°04'42" West 505.00 feet along said West right-of-way line;  
 Thence North 89°55'18" West 485.00 feet;  
 Thence North 00°04'42" East 272.51 feet to the East right-of-way line of State Highway 87;  
 Thence North 21°08'36" East 249.14 feet along said East right-of-way line;  
 Thence South 89°55'18" East 395.45 feet to the TRUE POINT OF BEGINNING, containing 5.38 acres.

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 shown hereon, and that the monuments indicated were found or set during said survey, and that this plat accurately represents said survey to the best of my knowledge.

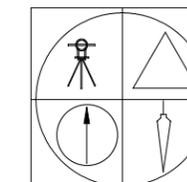


JERRY D. ALLRED, REGISTERED LAND SURVEYOR,  
 CERTIFICATE NO. 148951 (UTAH)

LINE	BEARING	DISTANCE
L1	S 00°04'42" W	505.00'
L2	N 89°55'18" W	485.00'
L3	N 00°04'42" E	272.51'
L4	N 21°08'36" E	249.14'
L5	S 89°55'18" E	395.45'

THIS SURVEY WAS PERFORMED USING GLOBAL POSITIONING SYSTEM PROCEDURES AND EQUIPMENT

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

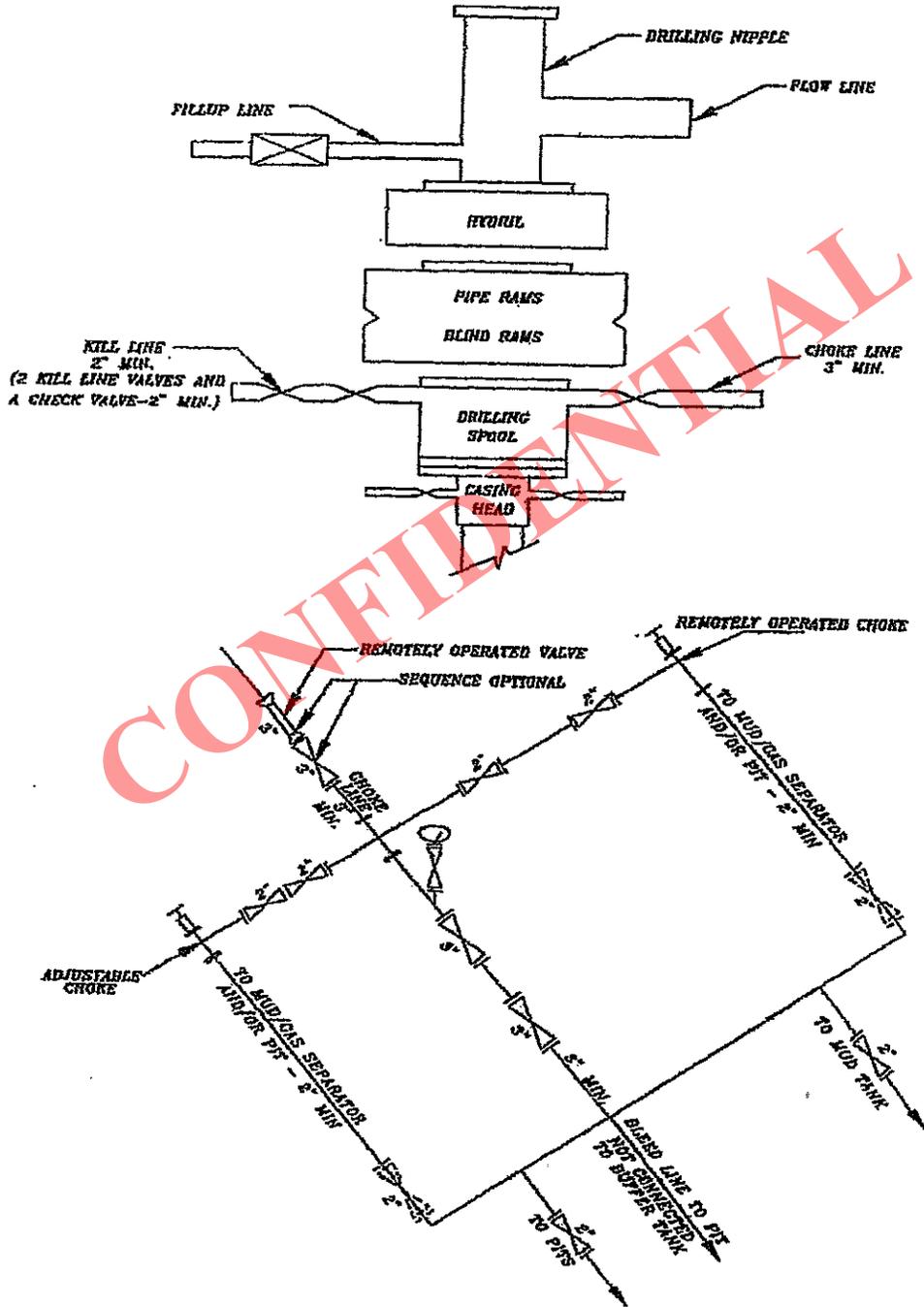


**JERRY D. ALLRED AND ASSOCIATES**  
 SURVEYING CONSULTANTS

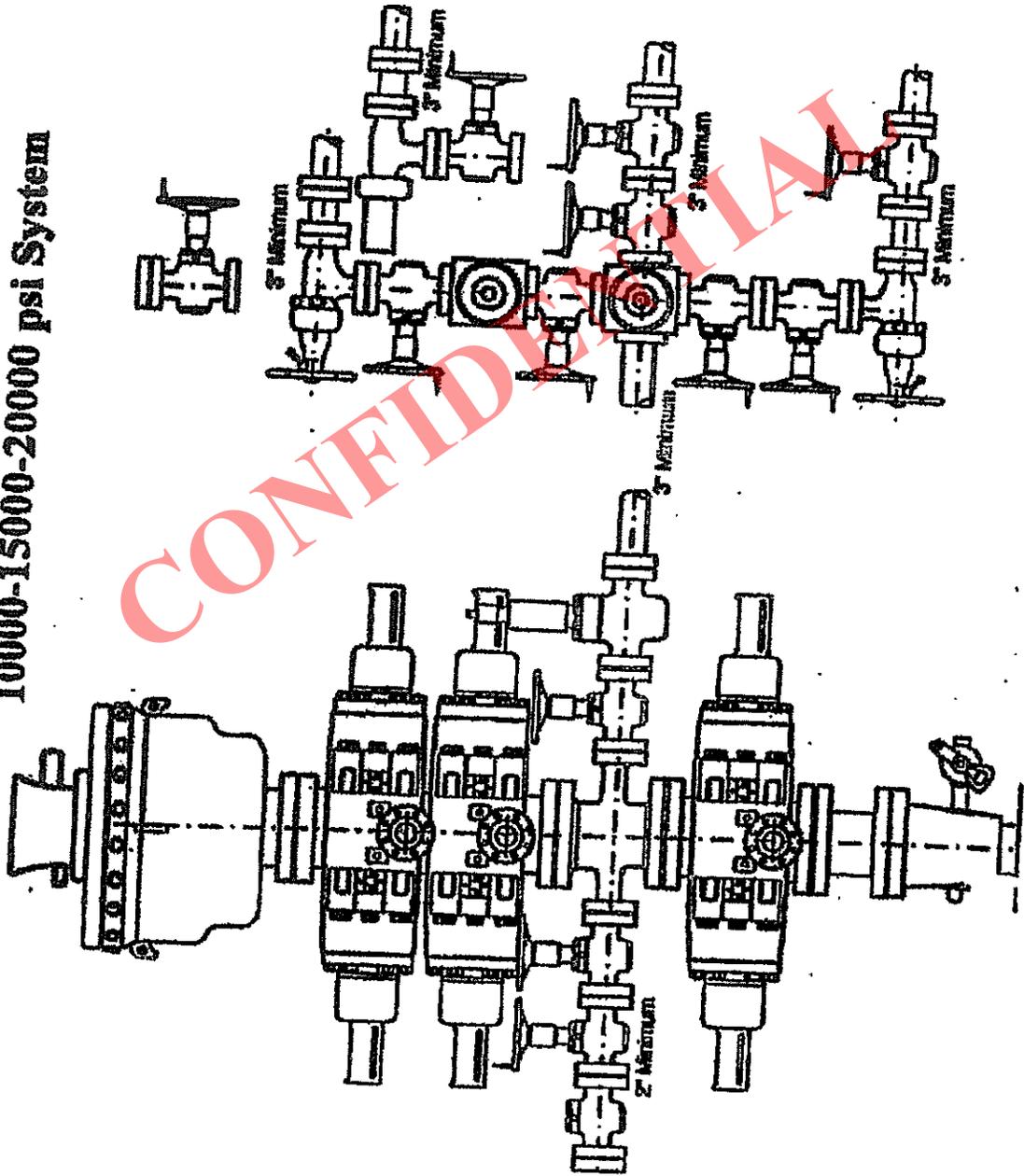
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REV 22 FEB 2013  
 31 DEC 2012 01-128-355

# 5M BOP STACK and CHOKE MANIFOLD SYSTEM



10000-15000-20000 psi System

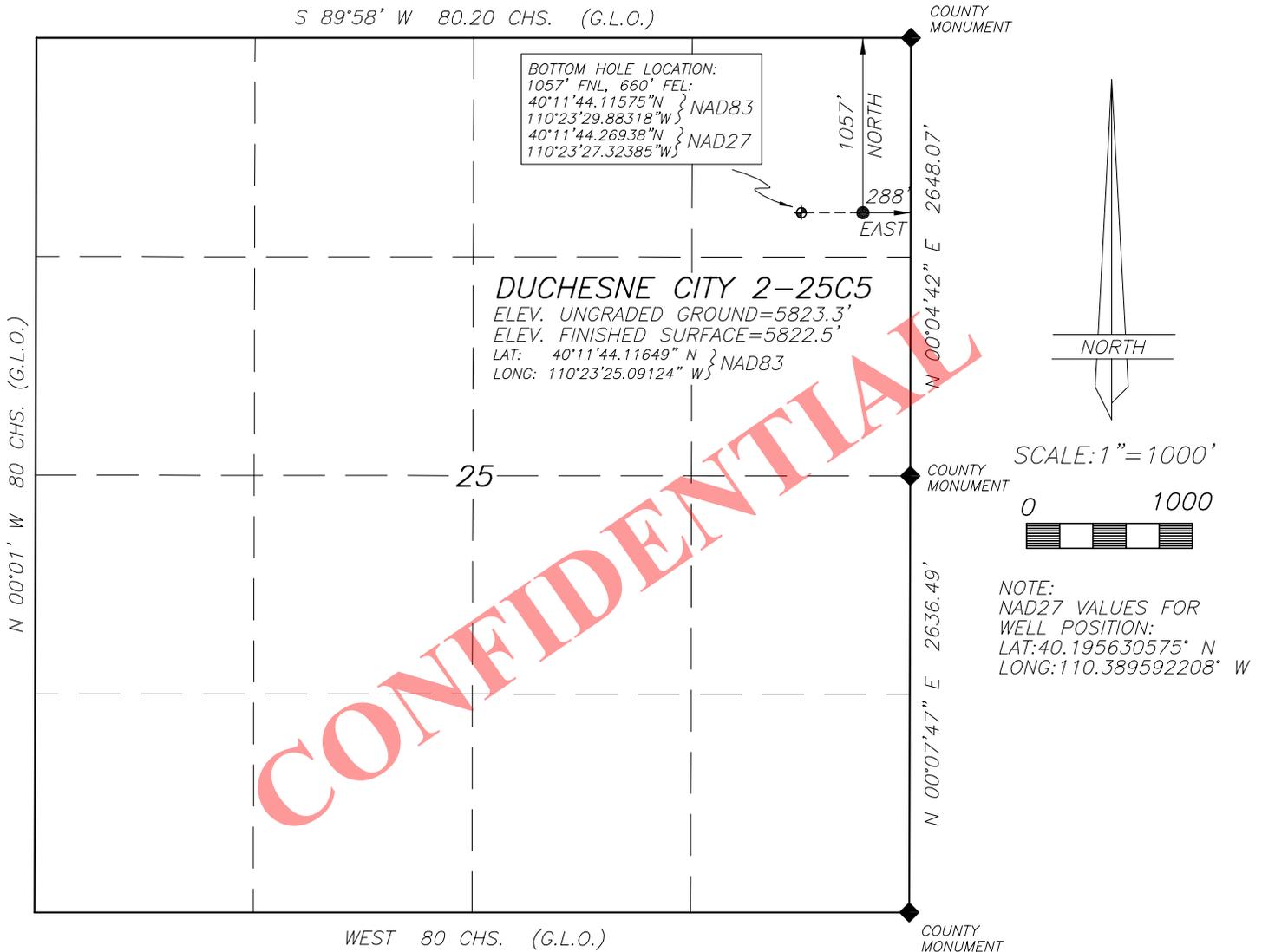


# EP ENERGY E & P COMPANY, L.P.

## WELL LOCATION

### DUCHESNE CITY 2-25C5

LOCATED IN THE NE<sup>1</sup>/<sub>4</sub> OF THE NE<sup>1</sup>/<sub>4</sub> OF SECTION 25, T3S, R5W, U.S.B.&M. DUCHESNE COUNTY, UTAH

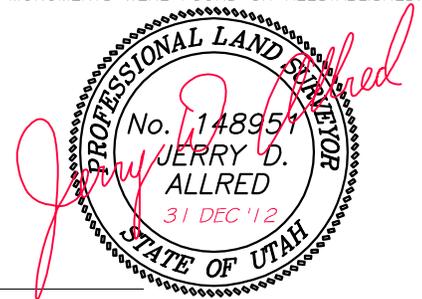


**LEGEND AND NOTES**

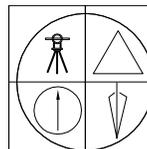
- ◆ CORNER MONUMENTS FOUND AND USED BY THIS SURVEY
- THE GENERAL LAND OFFICE (G.L.O.) PLAT WAS USED FOR REFERENCE AND CALCULATIONS AS WAS THE U.S.G.S. MAP
- THIS SURVEY WAS PERFORMED USING GLOBAL POSITIONING SYSTEM PROCEDURES AND EQUIPMENT
- THE BASIS OF BEARINGS IS GEODETIC NORTH DERIVED FROM G.P.S.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

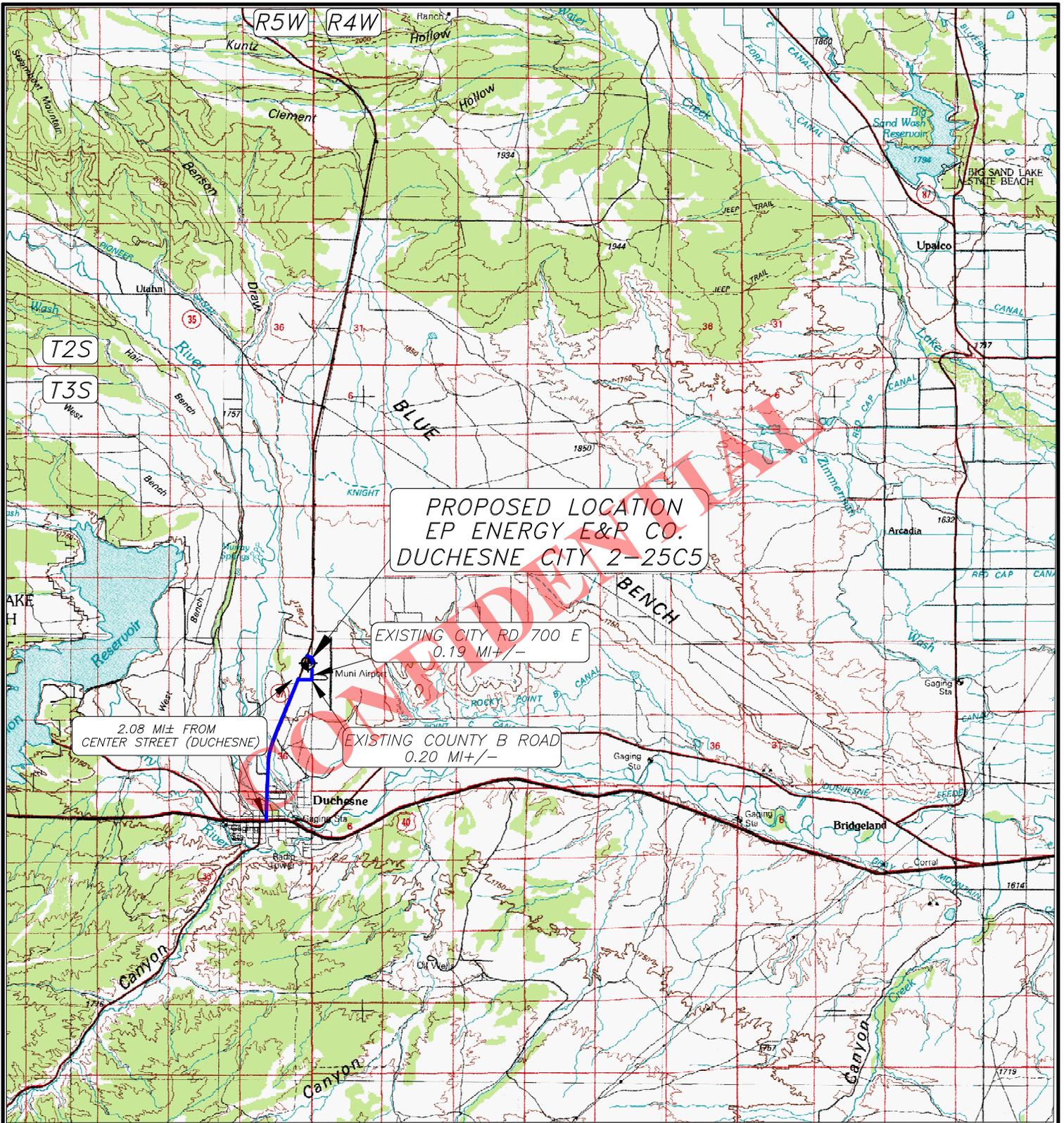


JERRY D. ALLRED, PROFESSIONAL LAND SURVEYOR, CERTIFICATE NO. 148951 (UTAH)



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

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PROPOSED LOCATION  
EP ENERGY E&P CO.  
DUCHEсне CITY 2-25C5

EXISTING CITY RD 700 E  
0.19 MI +/-

EXISTING COUNTY B ROAD  
0.20 MI +/-

2.08 MILE FROM  
CENTER STREET (DUCHEсне)

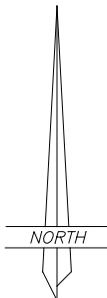
**LEGEND:**

 PROPOSED WELL LOCATION

01-128-355

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

DUCHEсне CITY 2-25C5

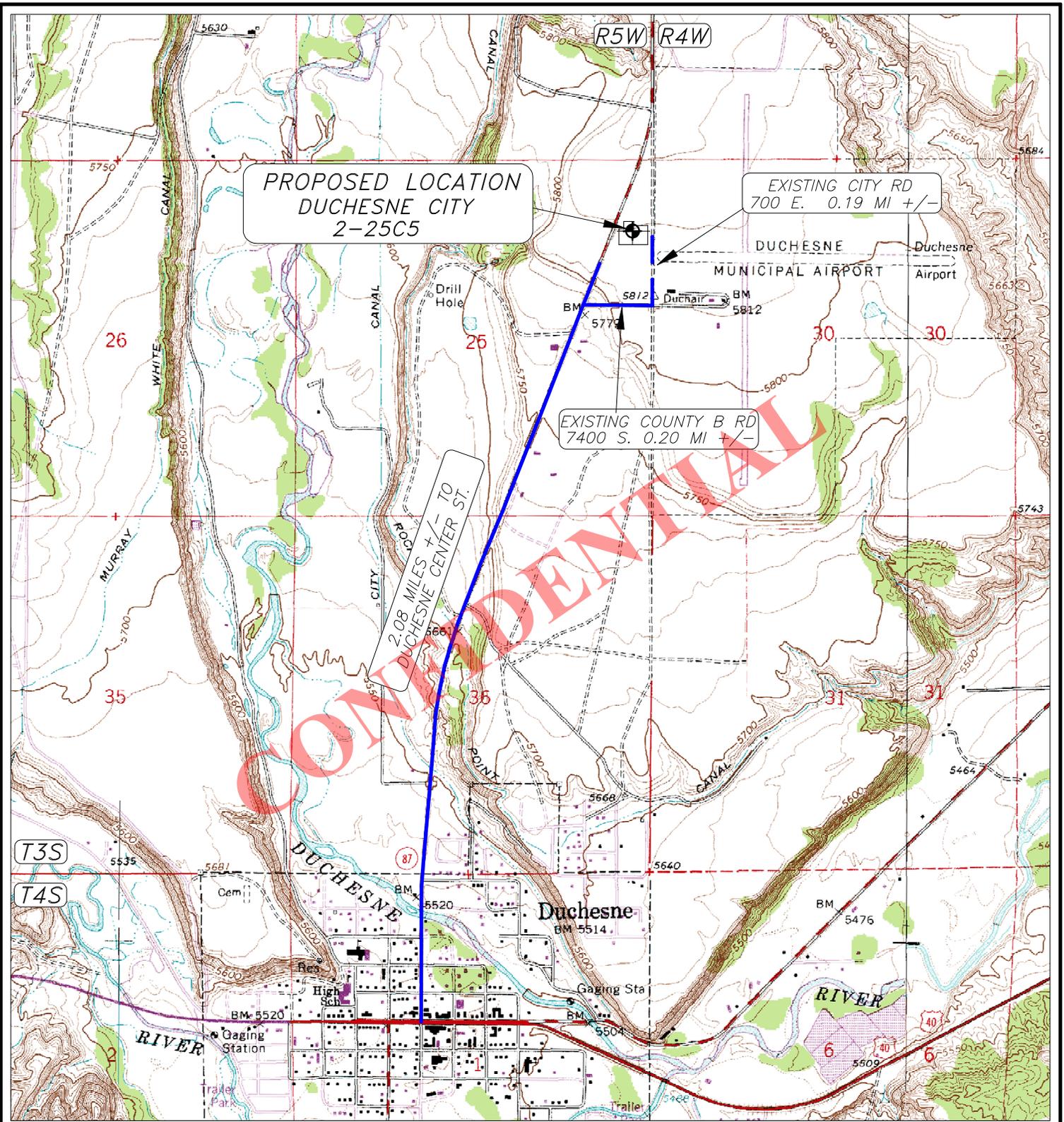
SECTION 25, T3S, R5W, U.S.B.&M.

1057' FNL 288' FEL

**TOPOGRAPHIC MAP "A"**

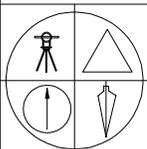
SCALE; 1"=10,000'

31 DEC 2012



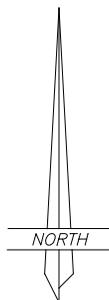
**LEGEND:**

-  PROPOSED WELL LOCATION
  -  PROPOSED ACCESS ROAD
  -  EXISTING GRAVEL ROAD
  -  EXISTING PAVED ROAD
- 01-128-355



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

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



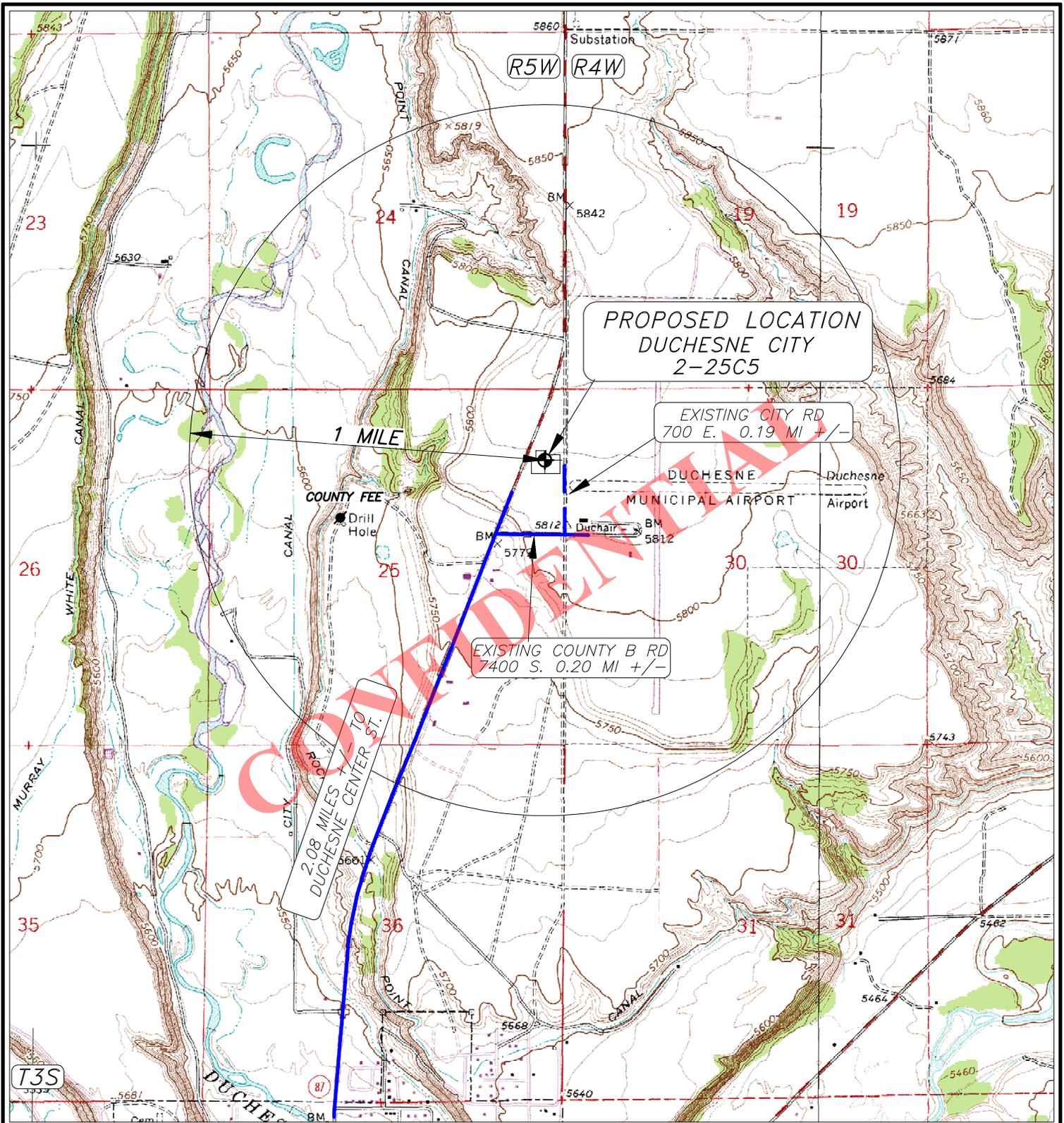
**EL PASO E & P COMPANY, L.P.**

DUCHEсне CITY 2-25C5  
SECTION 25, T3S, R5W, U.S.B.&M.

1057' FNL 288' FEL

**TOPOGRAPHIC MAP "B"**

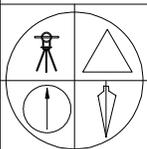
SCALE: 1"=2000'  
2 JAN 2013



**LEGEND:**

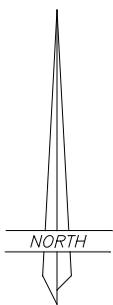
-  PROPOSED WELL LOCATION
-  OTHER WELLS AS LOCATED FROM SUPPLIED MAP

01-128-355



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

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



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

DUCHESNE CITY 2-25C5  
SECTION 25, T3S, R5W, U.S.B.&M.  
1057' FNL 288' FEL

**TOPOGRAPHIC MAP "C"**

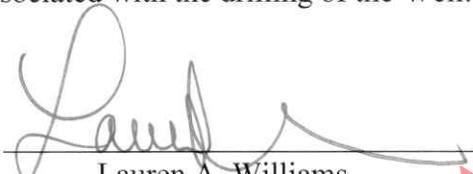
SCALE; 1"=2000'  
2 JAN 2013

**AFFIDAVIT OF DAMAGE SETTLEMENT AND RELEASE**

Lauren A. Williams personally appeared before me, and, being duly sworn, deposes and says:

1. My name is Lauren A. Williams. I am a 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 Duchesne City 2-25C5 well ("the Well") to be located in the NE/4 of the NE/4 of Section 25, Township 3 South, Range 5 West, USM, Duchesne County, Utah (the "Drillsite Location"). The surface owner of the Drillsite location is Duchesne City, whose address is 500 East Main Street, Duchesne, UT 84021 and whose telephone number is **435-738-0128** (the "Surface Owner").
3. EP Energy and the Surface Owner have entered into a Damage Settlement and Release dated January 15, 2013 for the Drillsite Location and to cover any and all injuries or damages of every character and description sustained by the Surface Owner or Surface Owner's property as a result of operations associated with the drilling of the Well.

FURTHER AFFIANT SAYETH NOT.

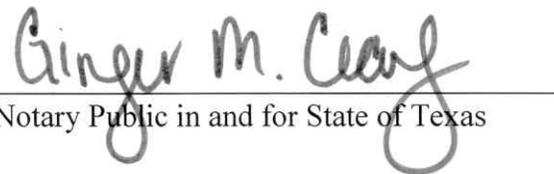
  
 Lauren A. Williams

**ACKNOWLEDGMENT**

STATE OF TEXAS           §  
   §  
 COUNTY OF HARRIS       §

This instrument was acknowledged before me on this the 25<sup>th</sup> day of January, 2013 by Lauren A. Williams as a Landman for EP ENERGY E&P COMPANY, L.P., a Delaware limited partnership, on behalf of said partnership and acknowledged to me that she executed the same as her own free and voluntary act and deed for the uses and purposes therein set forth.



  
 Notary Public in and for State of Texas

**CONFIDENTIAL**

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

**Related Surface Information**

**1. Current Surface Use:**

- Livestock Grazing and Oil and Gas Production.

**2. Proposed Surface Disturbance:**

- The road will be crown and ditch. Water wings will be constructed on the access road as needed.
- The topsoil will be windrowed and re-spread in the borrow area.
- New road to be constructed will be approximately 0 miles in length and 0 feet wide. Access is directly off of an existing county road.
- 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 107.69' (.02 miles) section of pipeline will be installed under the existing county road to tie into the proposed Kinder Morgan pipeline. 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:**

Duchesne City  
500 East Main Street  
Duchesne, UT 84021  
435-738-0128

**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.  
Lisa Morales  
1001 Louisiana Street, Rm 2628C  
Houston, Texas 77002  
713-997-3587 – Office

**Drilling**

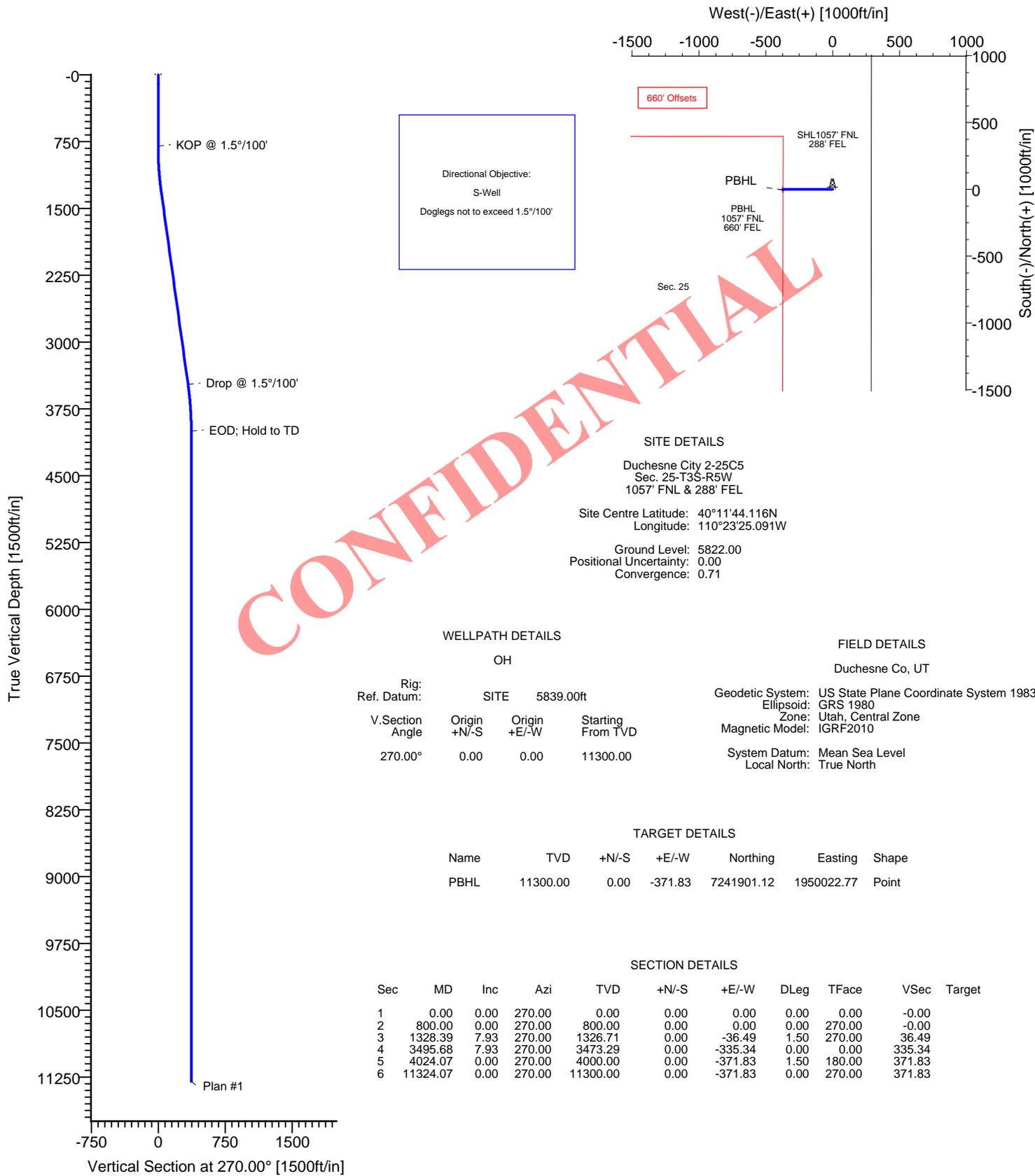
EP Energy E&P Company, L.P.  
Joe Cawthorn – Drilling Engineer  
1001 Louisiana, Rm 2523B  
Houston, Texas 77002  
713-997-5929 – office  
832-465-2882 – Cell



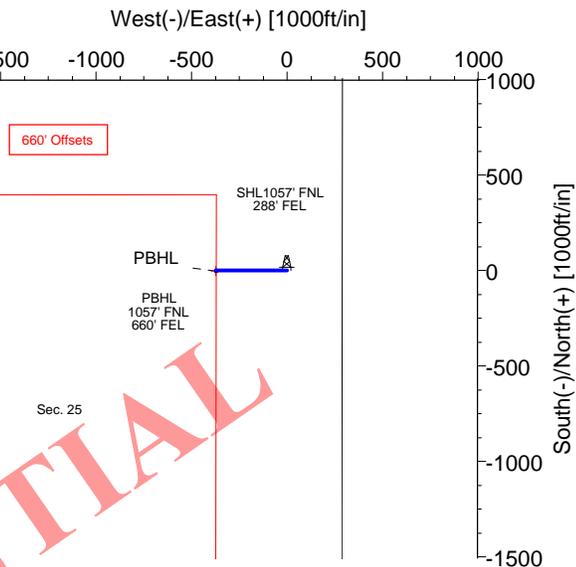
**EP Energy**  
 Field: Duchesne Co, UT  
 Site: Duchesne City 2-25C5  
 Well: 2-25C5  
 Wellpath: OH  
 Plan: Plan #1



Azimuths to True North  
 Magnetic North: 11.26°  
 Magnetic Field  
 Strength: 52.189nT  
 Dip Angle: 65.81°  
 Date: 1/30/2013  
 Model: IGRF2010



Directional Objective:  
 S-Well  
 Doglegs not to exceed 1.5°/100'



**SITE DETAILS**  
 Duchesne City 2-25C5  
 Sec. 25-T3S-R5W  
 1057' FNL & 288' FEL  
 Site Centre Latitude: 40°11'44.116N  
 Longitude: 110°23'25.091W  
 Ground Level: 5822.00  
 Positional Uncertainty: 0.00  
 Convergence: 0.71

WELLPATH DETAILS				FIELD DETAILS			
OH				Duchesne Co, UT			
Rig:	SITE 5839.00ft			Geodetic System: US State Plane Coordinate System 1983			
Ref. Datum:				Ellipsoid: GRS 1980			
V.Section Angle	Origin +N/-S	Origin +E/-W	Starting From TVD	Zone: Utah, Central Zone			
270.00°	0.00	0.00	11300.00	Magnetic Model: IGRF2010			
				System Datum: Mean Sea Level			
				Local North: True North			

**TARGET DETAILS**

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL	11300.00	0.00	-371.83	7241901.12	1950022.77	Point

**SECTION DETAILS**

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	270.00	0.00	0.00	0.00	0.00	0.00	-0.00	
2	800.00	0.00	270.00	800.00	0.00	0.00	0.00	270.00	-0.00	
3	1328.39	7.93	270.00	1326.71	0.00	-36.49	1.50	270.00	36.49	
4	3495.68	7.93	270.00	3473.29	0.00	-335.34	0.00	0.00	335.34	
5	4024.07	0.00	270.00	4000.00	0.00	-371.83	1.50	180.00	371.83	
6	11324.07	0.00	270.00	11300.00	0.00	-371.83	0.00	270.00	371.83	



# Ryan Directional Services Planning Report



<b>Company:</b> EP Energy	<b>Date:</b> 1/30/2013	<b>Time:</b> 11:31:38	<b>Page:</b> 1
<b>Field:</b> Duchesne Co, UT	<b>Co-ordinate(NE) Reference:</b> Site: Duchesne City 2-25C5, True North		
<b>Site:</b> Duchesne City 2-25C5	<b>Vertical (TVD) Reference:</b> SITE 5839.0		
<b>Well:</b> 2-25C5	<b>Section (VS) Reference:</b> Well (0.00N,0.00E,270.00Azi)		
<b>Wellpath:</b> OH	<b>Plan:</b> Plan #1		

**Field:** Duchesne Co, UT

**Map System:** US State Plane Coordinate System 1983  
**Geo Datum:** GRS 1980  
**Sys Datum:** Mean Sea Level

**Map Zone:** Utah, Central Zone  
**Coordinate System:** Site Centre  
**Geomagnetic Model:** IGRF2010

**Site:** Duchesne City 2-25C5  
 Sec. 25-T3S-R5W  
 1057' FNL & 288' FEL

<b>Site Position:</b>	<b>Northing:</b> 7241905.73 ft	<b>Latitude:</b> 40 11 44.116 N	
<b>From:</b> Geographic	<b>Easting:</b> 1950394.58 ft	<b>Longitude:</b> 110 23 25.091 W	
<b>Position Uncertainty:</b> 0.00 ft		<b>North Reference:</b> True	
<b>Ground Level:</b> 5822.00 ft		<b>Grid Convergence:</b> 0.71 deg	

**Well:** 2-25C5

**Slot Name:**

<b>Well Position:</b> +N/-S 0.00 ft	<b>Northing:</b> 7241905.73 ft	<b>Latitude:</b> 40 11 44.116 N	
+E/-W 0.00 ft	<b>Easting:</b> 1950394.58 ft	<b>Longitude:</b> 110 23 25.091 W	
<b>Position Uncertainty:</b> 0.00 ft			

**Wellpath:** OH

**Drilled From:** Surface  
**Tie-on Depth:** 0.00 ft  
**Above System Datum:** Mean Sea Level  
**Declination:** 11.26 deg  
**Mag Dip Angle:** 65.81 deg

**Current Datum:** SITE  
**Magnetic Data:** 1/30/2013  
**Field Strength:** 52189 nT  
**Vertical Section:** Depth From (TVD) ft

	<b>+N/-S</b> ft	<b>+E/-W</b> ft	<b>Direction</b> deg
11300.00	0.00	0.00	270.00

**Plan:** Plan #1

**Date Composed:** 1/30/2013  
**Version:** 1  
**Tied-to:** From Surface

**Principal:** Yes

**Plan Section Information**

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.00	0.00	270.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
800.00	0.00	270.00	800.00	0.00	0.00	0.00	0.00	0.00	270.00	
1328.39	7.93	270.00	1326.71	0.00	-36.49	1.50	1.50	0.00	270.00	
3495.68	7.93	270.00	3473.29	0.00	-335.34	0.00	0.00	0.00	0.00	
4024.07	0.00	270.00	4000.00	0.00	-371.83	1.50	-1.50	0.00	180.00	
11324.07	0.00	270.00	11300.00	0.00	-371.83	0.00	0.00	0.00	270.00	

**Survey**

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
0.00	0.00	270.00	0.00	0.00	0.00	-0.00	0.00	0.00	0.00	
100.00	0.00	270.00	100.00	0.00	0.00	-0.00	0.00	0.00	0.00	Ryan MWD
200.00	0.00	270.00	200.00	0.00	0.00	-0.00	0.00	0.00	0.00	Ryan MWD
300.00	0.00	270.00	300.00	0.00	0.00	-0.00	0.00	0.00	0.00	Ryan MWD
400.00	0.00	270.00	400.00	0.00	0.00	-0.00	0.00	0.00	0.00	Ryan MWD
500.00	0.00	270.00	500.00	0.00	0.00	-0.00	0.00	0.00	0.00	Ryan MWD
600.00	0.00	270.00	600.00	0.00	0.00	-0.00	0.00	0.00	0.00	Ryan MWD
700.00	0.00	270.00	700.00	0.00	0.00	-0.00	0.00	0.00	0.00	Ryan MWD
800.00	0.00	270.00	800.00	0.00	0.00	-0.00	0.00	0.00	0.00	KOP @ 1.5°/100'
900.00	1.50	270.00	899.99	0.00	-1.31	1.31	1.50	1.50	0.00	Ryan MWD
1000.00	3.00	270.00	999.91	0.00	-5.23	5.23	1.50	1.50	0.00	Ryan MWD
1100.00	4.50	270.00	1099.69	0.00	-11.77	11.77	1.50	1.50	0.00	Ryan MWD
1200.00	6.00	270.00	1199.27	0.00	-20.92	20.92	1.50	1.50	0.00	Ryan MWD
1300.00	7.50	270.00	1298.57	0.00	-32.68	32.68	1.50	1.50	0.00	Ryan MWD
1328.39	7.93	270.00	1326.71	0.00	-36.49	36.49	1.50	1.50	0.00	Ryan MWD



# Ryan Directional Services

## Planning Report



<b>Company:</b> EP Energy	<b>Date:</b> 1/30/2013	<b>Time:</b> 11:31:38	<b>Page:</b> 2
<b>Field:</b> Duchesne Co, UT	<b>Co-ordinate(NE) Reference:</b> Site: Duchesne City 2-25C5, True North		
<b>Site:</b> Duchesne City 2-25C5	<b>Vertical (TVD) Reference:</b> SITE 5839.0		
<b>Well:</b> 2-25C5	<b>Section (VS) Reference:</b> Well (0.00N,0.00E,270.00Azi)		
<b>Wellpath:</b> OH	<b>Plan:</b> Plan #1		

### Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
1400.00	7.93	270.00	1397.63	0.00	-46.36	46.36	0.00	0.00	0.00	Ryan MWD
1500.00	7.93	270.00	1496.68	0.00	-60.15	60.15	0.00	0.00	0.00	Ryan MWD
1600.00	7.93	270.00	1595.72	0.00	-73.94	73.94	0.00	0.00	0.00	Ryan MWD
1700.00	7.93	270.00	1694.77	0.00	-87.73	87.73	0.00	0.00	0.00	Ryan MWD
1800.00	7.93	270.00	1793.81	0.00	-101.52	101.52	0.00	0.00	0.00	Ryan MWD
1900.00	7.93	270.00	1892.86	0.00	-115.31	115.31	0.00	0.00	0.00	Ryan MWD
2000.00	7.93	270.00	1991.90	0.00	-129.10	129.10	0.00	0.00	0.00	Ryan MWD
2100.00	7.93	270.00	2090.95	0.00	-142.89	142.89	0.00	0.00	0.00	Ryan MWD
2200.00	7.93	270.00	2189.99	0.00	-156.68	156.68	0.00	0.00	0.00	Ryan MWD
2300.00	7.93	270.00	2289.03	0.00	-170.47	170.47	0.00	0.00	0.00	Ryan MWD
2400.00	7.93	270.00	2388.08	0.00	-184.26	184.26	0.00	0.00	0.00	Ryan MWD
2500.00	7.93	270.00	2487.12	0.00	-198.04	198.04	0.00	0.00	0.00	Ryan MWD
2600.00	7.93	270.00	2586.17	0.00	-211.83	211.83	0.00	0.00	0.00	Ryan MWD
2700.00	7.93	270.00	2685.21	0.00	-225.62	225.62	0.00	0.00	0.00	Ryan MWD
2800.00	7.93	270.00	2784.26	0.00	-239.41	239.41	0.00	0.00	0.00	Ryan MWD
2900.00	7.93	270.00	2883.30	0.00	-253.20	253.20	0.00	0.00	0.00	Ryan MWD
3000.00	7.93	270.00	2982.35	0.00	-266.99	266.99	0.00	0.00	0.00	Ryan MWD
3100.00	7.93	270.00	3081.39	0.00	-280.78	280.78	0.00	0.00	0.00	Ryan MWD
3200.00	7.93	270.00	3180.44	0.00	-294.57	294.57	0.00	0.00	0.00	Ryan MWD
3300.00	7.93	270.00	3279.48	0.00	-308.36	308.36	0.00	0.00	0.00	Ryan MWD
3400.00	7.93	270.00	3378.53	0.00	-322.15	322.15	0.00	0.00	0.00	Ryan MWD
3495.68	7.93	270.00	3473.29	0.00	-335.34	335.34	0.00	0.00	0.00	Drop @ 1.5°/100'
3500.00	7.86	270.00	3477.57	0.00	-335.93	335.93	1.50	-1.50	0.00	Ryan MWD
3600.00	6.36	270.00	3576.80	0.00	-348.31	348.31	1.50	-1.50	0.00	Ryan MWD
3700.00	4.86	270.00	3676.32	0.00	-358.09	358.09	1.50	-1.50	0.00	Ryan MWD
3800.00	3.36	270.00	3776.06	0.00	-365.26	365.26	1.50	-1.50	0.00	Ryan MWD
3900.00	1.86	270.00	3875.95	0.00	-369.82	369.82	1.50	-1.50	0.00	Ryan MWD
4000.00	0.36	270.00	3975.93	0.00	-371.75	371.75	1.50	-1.50	0.00	Ryan MWD
4024.07	0.00	270.00	4000.00	0.00	-371.83	371.83	1.50	-1.50	0.00	EOD; Hold to TD
4100.00	0.00	270.00	4075.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
4200.00	0.00	270.00	4175.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
4300.00	0.00	270.00	4275.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
4400.00	0.00	270.00	4375.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
4500.00	0.00	270.00	4475.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
4600.00	0.00	270.00	4575.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
4700.00	0.00	270.00	4675.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
4800.00	0.00	270.00	4775.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
4900.00	0.00	270.00	4875.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
5000.00	0.00	270.00	4975.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
5100.00	0.00	270.00	5075.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
5200.00	0.00	270.00	5175.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
5300.00	0.00	270.00	5275.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
5400.00	0.00	270.00	5375.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
5500.00	0.00	270.00	5475.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
5600.00	0.00	270.00	5575.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
5700.00	0.00	270.00	5675.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
5800.00	0.00	270.00	5775.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
5900.00	0.00	270.00	5875.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
6000.00	0.00	270.00	5975.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
6100.00	0.00	270.00	6075.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
6200.00	0.00	270.00	6175.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
6300.00	0.00	270.00	6275.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
6400.00	0.00	270.00	6375.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
6500.00	0.00	270.00	6475.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD

<b>Company:</b> EP Energy	<b>Date:</b> 1/30/2013	<b>Time:</b> 11:31:38	<b>Page:</b> 3
<b>Field:</b> Duchesne Co, UT	<b>Co-ordinate(NE) Reference:</b> Site: Duchesne City 2-25C5, True North		
<b>Site:</b> Duchesne City 2-25C5	<b>Vertical (TVD) Reference:</b> SITE 5839.0		
<b>Well:</b> 2-25C5	<b>Section (VS) Reference:</b> Well (0.00N,0.00E,270.00Azi)		
<b>Wellpath:</b> OH	<b>Plan:</b> Plan #1		

## Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
6600.00	0.00	270.00	6575.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
6700.00	0.00	270.00	6675.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
6800.00	0.00	270.00	6775.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
6900.00	0.00	270.00	6875.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
7000.00	0.00	270.00	6975.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
7100.00	0.00	270.00	7075.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
7200.00	0.00	270.00	7175.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
7300.00	0.00	270.00	7275.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
7400.00	0.00	270.00	7375.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
7500.00	0.00	270.00	7475.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
7600.00	0.00	270.00	7575.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
7700.00	0.00	270.00	7675.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
7800.00	0.00	270.00	7775.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
7900.00	0.00	270.00	7875.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
8000.00	0.00	270.00	7975.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
8100.00	0.00	270.00	8075.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
8200.00	0.00	270.00	8175.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
8300.00	0.00	270.00	8275.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
8400.00	0.00	270.00	8375.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
8500.00	0.00	270.00	8475.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
8600.00	0.00	270.00	8575.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
8700.00	0.00	270.00	8675.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
8800.00	0.00	270.00	8775.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
8900.00	0.00	270.00	8875.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
9000.00	0.00	270.00	8975.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
9100.00	0.00	270.00	9075.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
9200.00	0.00	270.00	9175.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
9300.00	0.00	270.00	9275.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
9400.00	0.00	270.00	9375.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
9500.00	0.00	270.00	9475.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
9600.00	0.00	270.00	9575.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
9700.00	0.00	270.00	9675.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
9800.00	0.00	270.00	9775.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
9900.00	0.00	270.00	9875.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
10000.00	0.00	270.00	9975.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
10100.00	0.00	270.00	10075.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
10200.00	0.00	270.00	10175.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
10300.00	0.00	270.00	10275.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
10400.00	0.00	270.00	10375.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
10500.00	0.00	270.00	10475.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
10600.00	0.00	270.00	10575.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
10700.00	0.00	270.00	10675.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
10800.00	0.00	270.00	10775.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
10900.00	0.00	270.00	10875.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
11000.00	0.00	270.00	10975.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
11100.00	0.00	270.00	11075.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
11200.00	0.00	270.00	11175.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
11300.00	0.00	270.00	11275.93	0.00	-371.83	371.83	0.00	0.00	0.00	Ryan MWD
11324.07	0.00	270.00	11300.00	0.00	-371.83	371.83	0.00	0.00	0.00	PBHL



# Ryan Directional Services Planning Report



<b>Company:</b> EP Energy	<b>Date:</b> 1/30/2013	<b>Time:</b> 11:31:38	<b>Page:</b> 4
<b>Field:</b> Duchesne Co, UT	<b>Co-ordinate(NE) Reference:</b> Site: Duchesne City 2-25C5, True North		
<b>Site:</b> Duchesne City 2-25C5	<b>Vertical (TVD) Reference:</b> SITE 5839.0		
<b>Well:</b> 2-25C5	<b>Section (VS) Reference:</b> Well (0.00N,0.00E,270.00Azi)		
<b>Wellpath:</b> OH	<b>Plan:</b> Plan #1		

**Targets**

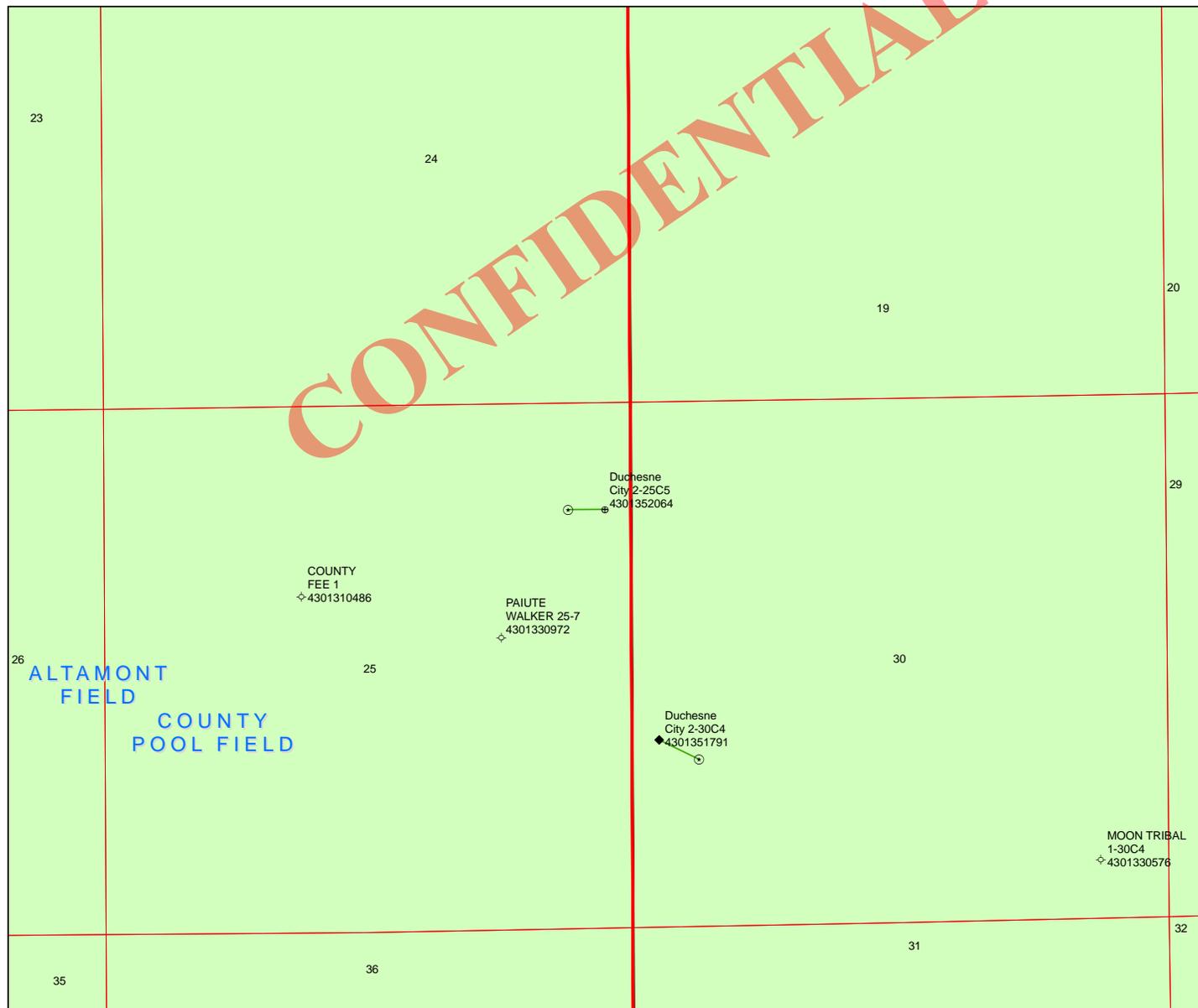
Name	Description Dip.	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<---- Latitude ----> Deg Min Sec	<--- Longitude ---> Deg Min Sec
PBHL -Plan hit target			11300.00	0.00	-371.83	7241901.12	1950022.77	40 11 44.116 N	110 23 29.883 W

**Annotation**

MD ft	TVD ft	
800.00	800.00	KOP @ 1.5°/100'
4024.07	4000.00	EOD; Hold to TD
3495.68	3473.29	Drop @ 1.5°/100'

CONFIDENTIAL

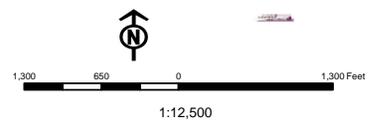
CONFIDENTIAL



**API Number: 4301352064**  
**Well Name: Duchesne City 2-25C5**  
**Township T03.0S Range R05.0W Section 25**  
**Meridian: UBM**  
 Operator: EP ENERGY E&P COMPANY, L.P.

Map Prepared:  
 Map Produced by Diana Mason

- Units**
- ACTIVE
  - EXPLORATORY
  - GAS STORAGE
  - NF PP OIL
  - NF SECONDARY
  - PI OIL
  - PP GAS
  - PP GEOTHERMAL
  - PP OIL
  - SECONDARY
  - TERMINATED
- Fields**
- Unknown
  - ABANDONED
  - ACTIVE
  - COMBINED
  - INACTIVE
  - STORAGE
  - TERMINATED



Well Name	EP ENERGY E&P COMPANY, L.P. Duchesne City 2-25C5 43013520640			
String	COND	SURF	I1	L1
Casing Size(")	13.375	9.625	7.000	4.500
Setting Depth (TVD)	700	4050	8300	11300
Previous Shoe Setting Depth (TVD)	0	700	4050	8300
Max Mud Weight (ppg)	8.8	9.5	10.0	11.0
BOPE Proposed (psi)	1000	5000	5000	10000
Casing Internal Yield (psi)	2730	5750	11220	12410
Operators Max Anticipated Pressure (psi)	6464			11.0

Calculations	COND String	13.375	"
Max BHP (psi)	.052*Setting Depth*MW=	320	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	236	YES 4.5" by 20.0" rotating head
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	166	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	166	NO
Required Casing/BOPE Test Pressure=		700	psi
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi *Assumes 1psi/ft frac gradient

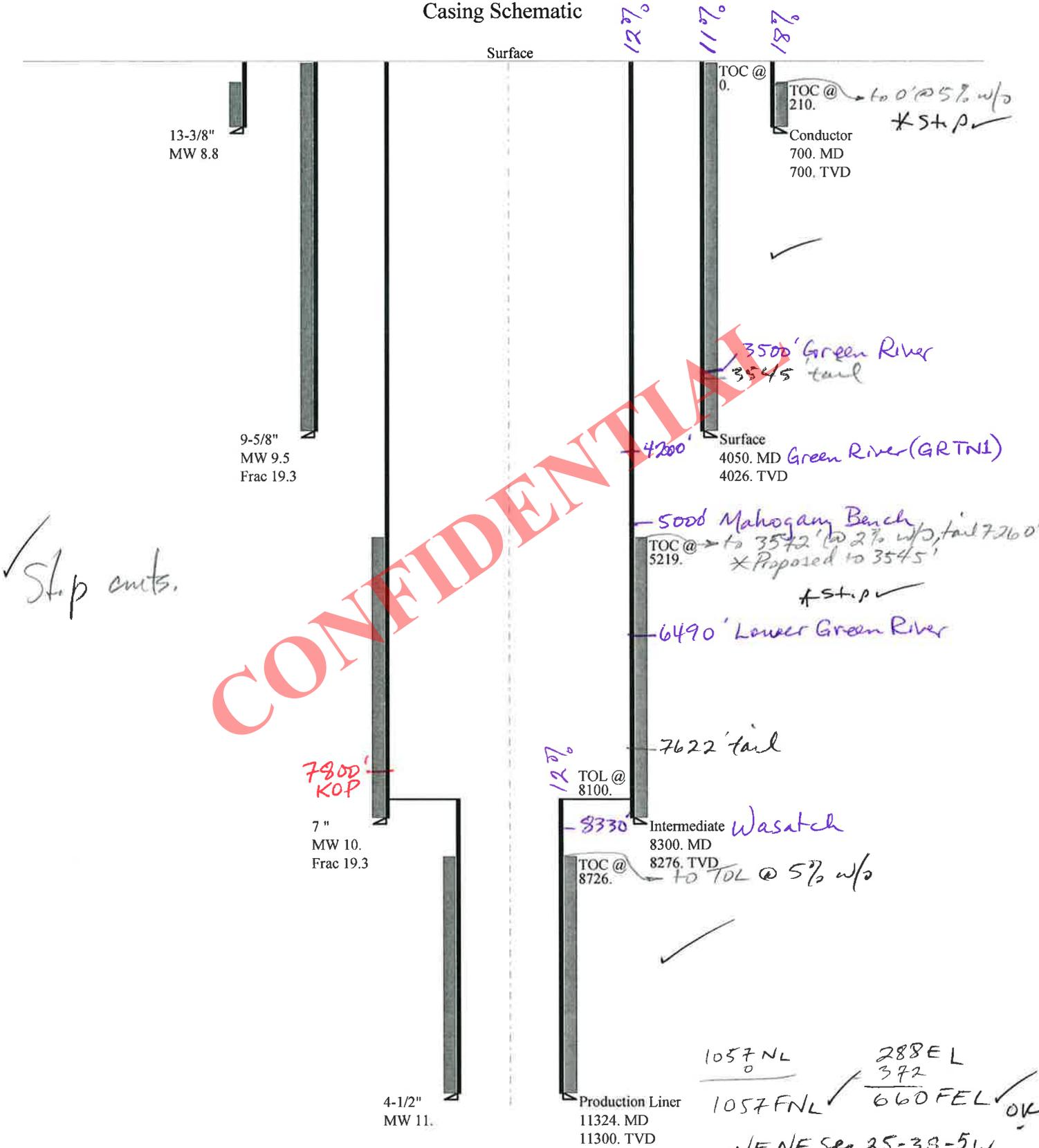
Calculations	SURF String	9.625	"
Max BHP (psi)	.052*Setting Depth*MW=	2001	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	1515	YES 4.5 x 13 3/8
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	1110	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	1264	NO OK
Required Casing/BOPE Test Pressure=		4025	psi
*Max Pressure Allowed @ Previous Casing Shoe=		700	psi *Assumes 1psi/ft frac gradient

Calculations	I1 String	7.000	"
Max BHP (psi)	.052*Setting Depth*MW=	4316	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	3320	YES 5M BOP stack, 5M Annular, 5M kill lines,
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	2490	YES choke manifold
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	3381	YES OK
Required Casing/BOPE Test Pressure=		7854	psi
*Max Pressure Allowed @ Previous Casing Shoe=		4050	psi *Assumes 1psi/ft frac gradient

Calculations	L1 String	4.500	"
Max BHP (psi)	.052*Setting Depth*MW=	6464	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	5108	YES 10M BOE w/rotating head, 5M annular, blind
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	3978	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)=	5804	YES OK
Required Casing/BOPE Test Pressure=		8687	psi
*Max Pressure Allowed @ Previous Casing Shoe=		8300	psi *Assumes 1psi/ft frac gradient

# 43013520640000 Duchesne City 2-25C5

## Casing Schematic



Well name:	<b>43013520640000 Duchesne City 2-25C5</b>	
Operator:	<b>EP ENERGY E&amp;P COMPANY, L.P.</b>	
String type:	Conductor	Project ID: 43-013-52064
Location:	DUCHESNE COUNTY	

**Design parameters:**

**Collapse**

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

**Minimum design factors:**

**Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
Surface temperature: 74 °F  
Bottom hole temperature: 84 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 1,000 ft  
Cement top: 210 ft

**Burst**

Max anticipated surface pressure: 236 psi  
Internal gradient: 0.120 psi/ft  
Calculated BHP 320 psi

No backup mud specified.

**Tension:**

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

Tension is based on air weight.  
Neutral point: 609 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	700	13.375	54.50	J-55	ST&C	700	700	12.49	8684
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	320	1130	3.532	320	2730	8.53	38.1	514	13.48 J

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

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

Date: May 28, 2013  
Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 700 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>43013520640000 Duchesne City 2-25C5</b>	
Operator:	<b>EP ENERGY E&amp;P COMPANY, L.P.</b>	
String type:	Surface	Project ID: 43-013-52064
Location:	DUCHESNE COUNTY	

**Design parameters:**

**Collapse**

Mud weight: 9.500 ppg  
Design is based on evacuated pipe.

**Minimum design factors:**

**Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
Surface temperature: 74 °F  
Bottom hole temperature: 130 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 100 ft

Cement top: Surface

**Burst**

Max anticipated surface pressure: 2,478 psi  
Internal gradient: 0.220 psi/ft  
Calculated BHP 3,364 psi

No backup mud specified.

**Tension:**

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

Tension is based on air weight.  
Neutral point: 3,479 ft

**Directional Info - Build & Drop**

Kick-off point 800 ft  
Departure at shoe: 372 ft  
Maximum dogleg: 1.5 °/100ft  
Inclination at shoe: 0 °

**Re subsequent strings:**

Next setting depth: 8,276 ft  
Next mud weight: 10.000 ppg  
Next setting BHP: 4,299 psi  
Fracture mud wt: 19.250 ppg  
Fracture depth: 4,026 ft  
Injection pressure: 4,026 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	4050	9.625	40.00	N-80	LT&C	4026	4050	8.75	51535
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	1987	3090	1.555	3364	5750	1.71	161	737	4.58 J

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

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

Date: May 28, 2013  
Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 4026 ft, a mud weight of 9.5 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.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Well name:	<b>43013520640000 Duchesne City 2-25C5</b>	
Operator:	<b>EP ENERGY E&amp;P COMPANY, L.P.</b>	
String type:	Intermediate	Project ID: 43-013-52064
Location:	DUCHESNE COUNTY	

**Design parameters:**

**Collapse**

Mud weight: 10.000 ppg  
Design is based on evacuated pipe.

**Minimum design factors:**

**Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

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

Cement top: 5,219 ft

**Burst**

Max anticipated surface pressure: 3,963 psi  
Internal gradient: 0.220 psi/ft  
Calculated BHP 5,783 psi

No backup mud specified.

**Tension:**

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

Tension is based on air weight.  
Neutral point: 7,047 ft

**Directional Info - Build & Drop**

Kick-off point 800 ft  
Departure at shoe: 372 ft  
Maximum dogleg: 1.5 °/100ft  
Inclination at shoe: 0 °

**Re subsequent strings:**

Next setting depth: 11,276 ft  
Next mud weight: 11.000 ppg  
Next setting BHP: 6,443 psi  
Fracture mud wt: 19.250 ppg  
Fracture depth: 8,276 ft  
Injection pressure: 8,276 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	8300	7	29.00	P-110	LT&C	8276	8300	6.059	93729
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	4299	8530	1.984	5783	11220	1.94	240	797	3.32 J

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

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

Date: May 28, 2013  
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 8276 ft, a mud weight of 10 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.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Well name:	<b>43013520640000 Duchesne City 2-25C5</b>	
Operator:	<b>EP ENERGY E&amp;P COMPANY, L.P.</b>	
String type:	Production Liner	Project ID: 43-013-52064
Location:	DUCHESNE COUNTY	

**Design parameters:**

**Collapse**

Mud weight: 11.000 ppg  
Design is based on evacuated pipe.

**Minimum design factors:**

**Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
Surface temperature: 74 °F  
Bottom hole temperature: 232 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 1,000 ft

Cement top: 8,726 ft

**Burst**

Max anticipated surface pressure: 3,971 psi  
Internal gradient: 0.220 psi/ft  
Calculated BHP 6,457 psi

No backup mud specified.

**Tension:**

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

Tension is based on air weight.  
Neutral point: 10,801 ft

Liner top: 8,100 ft

**Directional Info - Build & Drop**

Kick-off point 800 ft  
Departure at shoe: 372 ft  
Maximum dogleg: 0 °/100ft  
Inclination at shoe: 0 °

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	3224	4.5	13.50	P-110	LT&C	11300	11324	3.795	18065
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	6457	10680	1.654	6457	12410	1.92	43.5	338	7.77 J

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

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

Date: May 28, 2013  
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 11300 ft, a mud weight of 11 ppg. The Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

June 13, 2013

VIA FACSIMILE (801) 359-3940

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

RE: Directional Drilling  
Duchesne City 2-25C5 Well  
Surface Location: 288' FEL, 1057' FNL Section 25-3S-5W  
Bottom Hole: 660' FEL, 1057' FNL Section 25-3S-5W  
Duchesne County, Utah

Dear Mr. Hill,

With the Application for Permit to Drill the above referenced well EP Energy E&P Company, L.P. ("EPE") hereby submits this letter in accordance with Oil and Gas Conservation Rules R649-2, R649-3, R649-10 and R649-11, which pertain to the Location and Siting of Wells.

The well is being drilled in Section 25, Township 3 South, Range 5 West, Duchesne County, Utah, which is subject to that Order, Cause No. 139-85, dated March 11, 2010 ("Spacing Order") that extends Cause No. 139-8, which establishes 640 acre sectional drilling units for the Green River-Wasatch formations. The Spacing Order further provides drilling up to four (4) producing Lower Green River-Wasatch wells. The location and siting requirements set forth in order 139-84 and incorporated into the Spacing Order provide that permitted wells shall be no closer than 1,320 feet from an existing unit well drilled or completed in and producing from the Spaced Intervals and no closer than 660 feet from the drilling unit boundary.

EPE is permitting this well due to existing business and topography in the area. There is an active rock crushing operation on the east side of State Highway 87, and there are topographical challenges on the west side of Highway 87.

EPE certifies that unless first obtaining an exception to the locating and siting requirements of the Spacing Order it will not perforate any part of the wellbore of the referenced well that is closer than 660' from the east section line of Section 25-3S-5W, Duchesne County, Utah.

Best regards,



Jacquelyn Lynch  
Central Division – Altamont Business Area  
EP Energy E&P Company, L.P.



**Drainage Diversion Required? N****Berm Required? Y**

Berm location

**Erosion Sedimentation Control Required? N****Paleo Survey Run? N    Paleo Potential Observed? N    Cultural Survey Run? N    Cultural Resources? N****Reserve Pit****Site-Specific Factors****Site Ranking**

<b>Distance to Groundwater (feet)</b>	>200	0
<b>Distance to Surface Water (feet)</b>	>1000	0
<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>	Present	15
	<b>Final Score</b>	40

1 Sensitivity Level

**Characteristics / Requirements**

Proposed immediately off the northern side of location in cut, measuring 150' in length by 110' wide, by 12' deep, and being downwind of the wellbore.

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

Chain link fence around location to keep public out, close to town, highway 87 to west approximately seventy feet west of corner number 4, city road 700 East to the east, and airport southeast of proposed pad, E&P Energy was told to contact the Ogden State Road Department (801-227-8000 the permitting office) to see whether they have any issues with the distance this well pad is from Highway 87, might need to round corner number 4.

Dennis Ingram  
**Evaluator**

4/3/2013  
**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
7678	43013520640000	LOCKED	OW	P	No
<b>Operator</b>	EP ENERGY E&P COMPANY, L.P.		<b>Surface Owner-APD</b>	Duchesne City	
<b>Well Name</b>	Duchesne City 2-25C5		<b>Unit</b>		
<b>Field</b>	ALTAMONT		<b>Type of Work</b>	DRILL	
<b>Location</b>	NENE 25 3S 5W U 1057 FNL (UTM) 551904E 4449639N		288 FEL	GPS Coord	

**Geologic Statement of Basis**

El Paso proposes to set 700 feet of conductor and 4,050 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 700 feet. A search of Division of Water Rights records indicates that there are 21 water wells within a 10,000 foot radius of the center of Section 25. These wells probably produce water from the Uinta Formation and associated alluvium. Depths of the wells fall in the range of 29-500 feet. Depth is not listed for one well. The wells are listed as being used for irrigation, stock watering, municipal and domestic. The proposed drilling, casing and cement program should adequately protect the usable ground water in this area.

Brad Hill  
APD Evaluator

5/20/2013  
Date / Time

**Surface Statement of Basis**

A presite was scheduled and performed on Wednesday, April 3, 2013 to take input and address issues regarding the construction and drilling of the Duchesne City 2-25C5. Rogan Roley, the Mayor of Duchesne, was given as the contact number and therefore invited. Another city employee, Richard Ivie, was also in attendance for the onsite meeting. EP Energy and Duchesne City have a landowner agreement in place, and they explained interests in fencing, pipelines and security for the site. EP Energy promised to pay for paving the access road entrance onto 700 East Street to prevent damage to that road after it is paved next summer. The operator also stated they will install a chain link fence around the site for security. The reserve pit should also be fenced to keep public or animals from entering same.

E&P Energy was told to contact the Ogden State Road Department (801-227-8000 the permitting office) to see whether they have any issues with the distance this well pad is from Highway 87, might need to round corner number 4.

The proposed location surface slopes gently to the south and does not have any drainage issues. The reserve pit is planned along the northern border of the well pad. The soils are sandy loam with underlying cobbles and therefore the operator shall install a 20 mil synthetic liner in the reserve pit. The surface slopes south toward or into town, and therefore the operator shall construct berming around the tanks and location to prevent off site issues. Production facilities, such as tanks, treaters, etc. should be placed between corners one and eight or along the southeastern side of the location for safety issues related to Highway 87.

Dennis Ingram  
Onsite Evaluator

4/3/2013  
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 with a felt subliner shall be properly installed and maintained in the reserve pit.
Pits	The reserve pit should be located on the north side of the location.
Surface	The well site shall be bermed to prevent fluids from leaving the pad.
Surface	E&P agreed to install a chain link fence around wellsite for security.

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## WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 2/26/2013

API NO. ASSIGNED: 43013520640000

WELL NAME: Duchesne City 2-25C5

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

PHONE NUMBER: 713 997-5038

CONTACT: Maria S. Gomez

PROPOSED LOCATION: NENE 25 030S 050W

Permit Tech Review: 

SURFACE: 1057 FNL 0288 FEL

Engineering Review: 

BOTTOM: 1057 FNL 0660 FEL

Geology Review: 

COUNTY: DUCHESNE

LATITUDE: 40.19554

LONGITUDE: -110.39020

UTM SURF EASTINGS: 551904.00

NORTHINGS: 4449639.00

FIELD NAME: ALTAMONT

LEASE TYPE: 4 - Fee

LEASE NUMBER: Fee

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

SURFACE OWNER: 4 - Fee

COALBED METHANE: NO

## RECEIVED AND/OR REVIEWED:

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

Commingle Approved

## LOCATION AND SITING:

- R649-2-3.
- Unit:
- R649-3-2. General
- R649-3-3. Exception
- Drilling Unit
- Board Cause No: Cause 139-85
- Effective Date: 3/11/2010
- Siting: 4 Prod LGRRV-WSTC Wells
- R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations: 1 - Exception Location - bhill  
 5 - Statement of Basis - bhill  
 12 - Cement Volume (3) - hmacdonald  
 15 - Directional - dmason  
 25 - Surface Casing - hmacdonald



GARY R. HERBERT  
Governor

GREGORY S. BELL  
Lieutenant Governor

# State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

## Permit To Drill

\*\*\*\*\*

**Well Name:** Duchesne City 2-25C5  
**API Well Number:** 43013520640000  
**Lease Number:** Fee  
**Surface Owner:** FEE (PRIVATE)  
**Approval Date:** 7/1/2013

### 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 139-85. 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

### Exception Location:

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

### General:

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

### Conditions of Approval:

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

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

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 3545' MD as indicated in the submitted drilling plan.

Surface casing shall be cemented to the surface.

**Additional Approvals:**

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

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

**Notification Requirements:**

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

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

**Contact Information:**

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

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

**Reporting Requirements:**

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

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

**Approved by:**

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

For John Rogers  
Associate Director, Oil & Gas



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NE NE S-25 T03S R05W

**DUCHESNE CITY 2-25C5 API # 43013520640000 Post-24hr Spud & Casing Notice**

11/19/2013

LANDRIG007 (Patterson 307) <LANDRIG007@epenergy.com>

Tue, Oct 8, 2013 at 7:59 AM

To: "alexishuefner@utah.gov" <alexishuefner@utah.gov>, "caroldaniels@utah.gov" <caroldaniels@utah.gov>, "dennisingram@utah.gov" <dennisingram@utah.gov>, "Evans, Perry (Contractor)" <Perry.Evans@epenergy.com>, "Gaydos, Tommy L" <Tommy.Gaydos@epenergy.com>, "Gomez, Maria S" <Maria.Gomez@epenergy.com>, "MacAfee, Bradley D" <Brad.MacAfee@epenergy.com>, "Morales, Lisa" <Lisa.Morales@epenergy.com>

RE: EP ENERGY  
DUCHESNE CITY 2-25C5  
API # 43013520640000  
DUCHESNE CO., UTAH

Leon Ross Drilling spudded well yesterday, 10/07/2013 and plan to set >600' of 13 3/8" casing.

Regards,

Eugene Parker  
Wellsite Supervisor  
Patterson 307  
713-997-1255

RECEIVED  
OCT 08 2013

DIV. OF OIL, GAS & MINING

CONFIDENTIAL

EP ENERGY / SPUD SURFACE HOLE

EP ENERGY

DUCHESNE CITY 2-25C5

API # 43013520640000 *NE NE S-25 T 03S R 05W*

ALTAMONT FIELD

DUCHESNE COUNTY

We plan to spud well 12/14/2013. We will be setting 9 5/8" surface casing at 2,000'. We should be cementing casing on 12/15/2013 and testing BOPE on 12/16/2013.

RECEIVED

DEC 14 2013

DIV. OF OIL, GAS & MINING

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  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.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> Fee
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>1. TYPE OF WELL</b> Oil Well		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>2. NAME OF OPERATOR:</b> EP ENERGY E&P COMPANY, L.P.		<b>8. WELL NAME and NUMBER:</b> Duchesne City 2-25C5
<b>3. ADDRESS OF OPERATOR:</b> 1001 Louisiana , Houston, TX, 77002		<b>9. API NUMBER:</b> 43013520640000
<b>PHONE NUMBER:</b> 713 997-5038 Ext		<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1057 FNL 0288 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NENE Section: 25 Township: 03.0S Range: 05.0W Meridian: U		<b>COUNTY:</b> DUCHESNE
		<b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: <b>2/10/2014</b>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> 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"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> <b>DRILLING REPORT</b> 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 perform initial completion into the Wasatch utilizing 8 stages. Please see attached for details.

**Approved by the  
Utah Division of  
Oil, Gas and Mining**

**Date:** February 06, 2014

**By:** 

<b>NAME (PLEASE PRINT)</b> Maria S. Gomez	<b>PHONE NUMBER</b> 713 997-5038	<b>TITLE</b> Principal Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 2/6/2014	

**Duchesne City 2-25 C5**  
**Initial Completion**  
**API #: 43-013-520640000**

**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. Wellhead isolation tools will continue to be used to isolate the wellhead during the frac.
5. Monitor the surface casing during frac:
  - a. Lay a flowline to the flow back tank and keep the valve open.
  - b. This line will remain in place until a wire line set retrievable packer is in place isolating the 5" casing from the 7" after the frac.
6. 2 7/8" tubing will be run to isolate the 7" casing during the flow back of the well.
7. Well pressure and annulus pressure would be monitored during this time until the well is ready for pump.

**Completion Information (Wasatch Formation)**

- Stage 1: RU WL unit with 10K lubricator and test to 10,000 psi with water. Perforations from ~**10,604' – 10,872'** with ~5,000 gallons of 15% HCL acid, ~3,000# of 100 mesh sand and ~150,000# PowerProp 20/40.
- Stage 2: RU 10K lubricator and test to 10,000 psi with water. Set 10K CBP @ ~10,590'. Test CBP and casing to 8500 psi. Perforations from ~**10,294' – 10,580'** with ~5,000 gallons of 15% HCL acid, ~3,000# of 100 mesh sand and ~140,000# PowerProp 20/40.
- Stage 3: RU WL unit with 10K lubricator and test to 10,000 psi with water. Set 10K CBP @ ~10,275'. Test CBP and casing to 8500 psi. Perforations from ~**10,015' – 10,265'** with ~5,000 gallons of 15% HCL acid, ~3,000# of 100 mesh sand and ~150,000# TLC 20/40
- Stage 4: RU 10K lubricator and test to 10,000 psi with water. Set 10K CBP @ ~9,992'. Test CBP and casing to 8500 psi. Perforations from ~**9,743' – 9,982'** with ~5,000 gallons of 15% HCL acid, ~3,000# of 100 mesh sand and ~160,000# TLC 20/40.
- Stage 5: RU 10K lubricator and test to 10,000 psi with water. Set 10K CBP @ ~9,725'. Test CBP and casing to 8500 psi. Perforations from ~**9,467' – 9,715'** with ~5,000 gallons of 15% HCL acid, ~3,000# of 100 mesh sand and ~160,000# TLC 20/40.
- Stage 6: RU 10K lubricator and test to 10,000 psi with water. Set 10K CBP @ ~9,426'. Test CBP and casing to 8500 psi. Perforations from ~**9,133' – 9,416'** with ~5,000 gallons of 15% HCL acid, ~3,000# of 100 mesh sand and ~150,000# TLC 20/40.

Stage 7: RU 10K lubricator and test to 10,000 psi with water. Set 10K CBP @ ~9,117'. Test CBP and casing to 8500 psi. Perforations from ~**8,865'** – **9,107'** with ~5,000 gallons of 15% HCL acid, ~3,000# of 100 mesh sand and ~150,000# TLC 20/40.

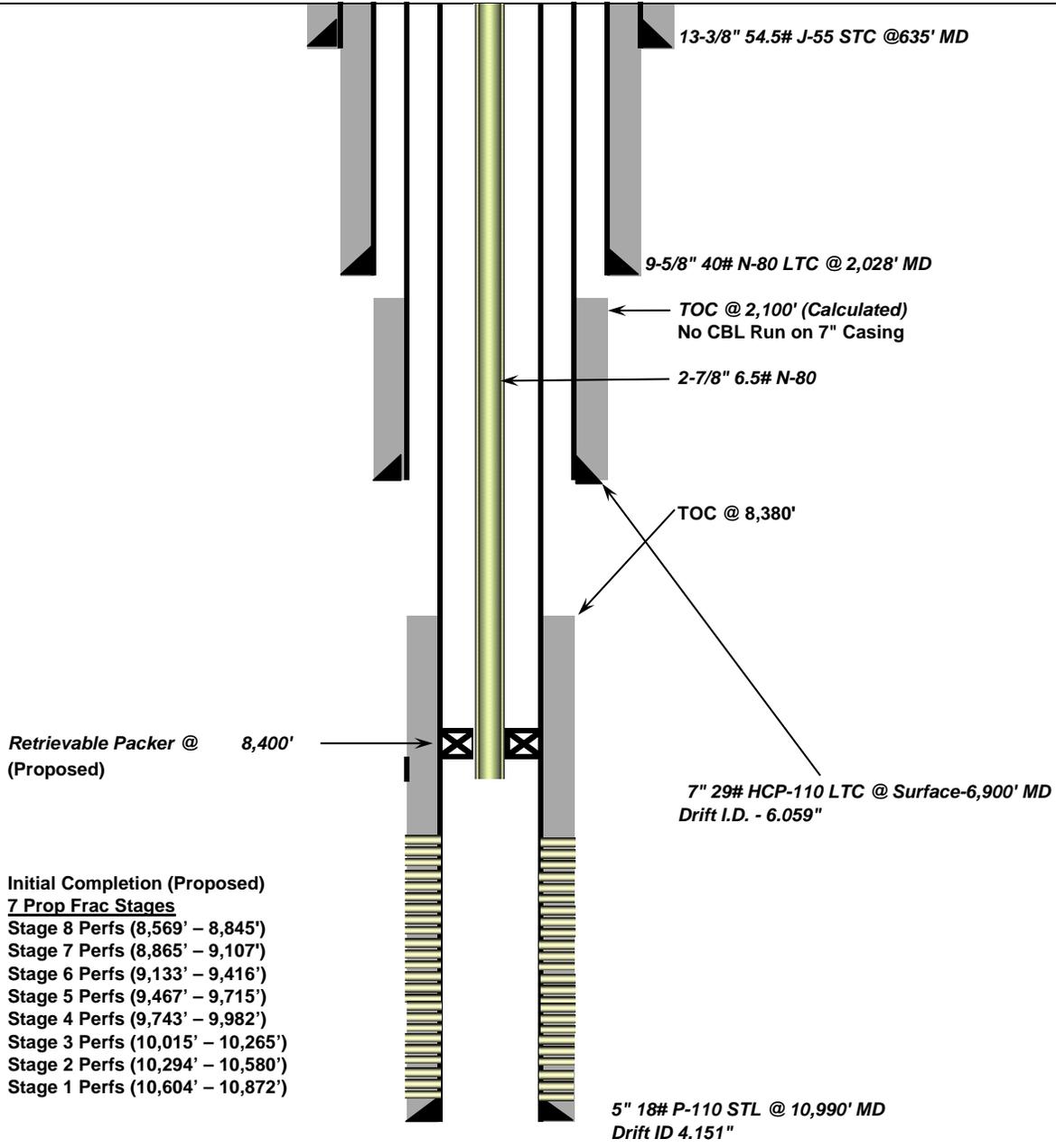
Stage 8: RU 10K lubricator and test to 10,000 psi with water. Set 10K CBP @ ~8,855'. Test CBP and casing to 8500 psi. Perforations from ~**8,569'** – **8,845'** with ~5,000 gallons of 15% HCL acid, ~3,000# of 100 mesh sand and ~150,000# TLC 20/40.



**Initial Completion Wellbore Schematic**

Company Name: EP Energy  
 Well Name: Duchesne City 2-25C5  
 Field, County, State: Altamont - Bluebell, Duchesne, Utah  
 Surface Location: Lat: 40°11'43.72066" N Long: 110°23'25.09085" W  
 Producing Zone(s): Green River, Wasatch

Last Updated: 1/7/2013  
 By: Mohammad Siddiqui  
 TD: 11,000'  
 BHL: \_\_\_\_\_  
 Elevation: \_\_\_\_\_



- Initial Completion (Proposed)**  
**7 Prop Frac Stages**  
 Stage 8 Perfs (8,569' – 8,845')  
 Stage 7 Perfs (8,865' – 9,107')  
 Stage 6 Perfs (9,133' – 9,416')  
 Stage 5 Perfs (9,467' – 9,715')  
 Stage 4 Perfs (9,743' – 9,982')  
 Stage 3 Perfs (10,015' – 10,265')  
 Stage 2 Perfs (10,294' – 10,580')  
 Stage 1 Perfs (10,604' – 10,872')

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

AMENDED REPORT  FORM 8  
(highlight changes)

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

1a. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER _____  b. TYPE OF WORK: NEW WELL <input checked="" type="checkbox"/> HORIZ. LATS. <input type="checkbox"/> DEEP-EN <input type="checkbox"/> RE-ENTRY <input type="checkbox"/> DIFF. RESVR <input type="checkbox"/> OTHER _____	5. LEASE DESIGNATION AND SERIAL NUMBER:  6. IF INDIAN, ALLOTTEE OR TRIBE NAME:  7. UNIT or CA AGREEMENT NAME:  8. WELL NAME and NUMBER:
--	---

2. NAME OF OPERATOR: <b>EP ENERGY E&amp;P COMPANY, L.P.</b>	9. API NUMBER: <b>43013520640000</b>
--	---

3. ADDRESS OF OPERATOR: <b>1001 LOUISIANA CITY HOUSTON STATE TX ZIP 77002</b>	PHONE NUMBER: <b>713-997-5038</b>
--	--------------------------------------

4. LOCATION OF WELL (FOOTAGES) AT SURFACE: <b>1057 FNL &amp; 288 FEL</b>  AT TOP PRODUCING INTERVAL REPORTED BELOW: <b>1057 FNL &amp; 660 FEL</b>  AT TOTAL DEPTH: <b>1057 FNL &amp; 660 FEL</b>	10 FIELD AND POOL, OR WILDCAT <b>Altamont</b>  11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>NENE 25,3S,5W</b>  12. COUNTY: <b>Duchesne</b> 13. STATE: <b>UTAH</b>
---	--

14. DATE SPURRED: <b>12/10/2013</b>	15. DATE T.D. REACHED: <b>12/31/2013</b>	16. DATE COMPLETED: <b>02/15/2014</b>	ABANDONED <input checked="" type="checkbox"/>	READY TO PRODUCE <input checked="" type="checkbox"/>	17. ELEVATIONS (DF, RKB, RT, GL): <b>5823</b>
--	---	--	---	--	--

18. TOTAL DEPTH: MD <b>11000/10974</b> 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) <b>Sonic, Gamma Ray, Resistivity &amp; Neutron Density</b>	23. WAS WELL CORED? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit analysis) WAS DST RUN? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit report) DIRECTIONAL SURVEY? NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> (Submit copy)
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**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
17 1/2	13 3/8 J55	54.5	0	600		G 675	776.25	0	
12 1/4	9 5/8 N80	40	0	2028		G 435	986.25	0	
8 3/4	7 HCP110	29	0	6900		Extend/Expand/410	1154.8	1500	
6 1/8	5 P110	18	0	10990		G 550	808.5	4200	

**25. TUBING RECORD**

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2.875	8413	8403						

**26. PRODUCING INTERVALS**

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS	
(A) <b>Wasatch</b>	8349	10872	8329	10846	10604-10872	.43	66	Open <input checked="" type="checkbox"/>	Squeezed <input type="checkbox"/>
(B)					10294-10580	.43	69	Open <input checked="" type="checkbox"/>	Squeezed <input type="checkbox"/>
(C)					10015-10265	.43	66	Open <input checked="" type="checkbox"/>	Squeezed <input type="checkbox"/>
(D)					9743-9982	.43	66	Open <input checked="" type="checkbox"/>	Squeezed <input type="checkbox"/>

**27. PERFORATION RECORD**

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
10604-10872	5000 gals 15% HCL acid, 3460# 100 Mesh, 150540# 20/40 PowerProp
10294-10580	5000 gals 15% HCL acid, 3000# 100 Mesh, 142040# 20/40 PowerProp
10015-10265	5000 gals 15% HCL acid, 3000# 100 Mesh, 150260# 20/40 TLC

**28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.**

29. ENCLOSED ATTACHMENTS: <b>Logs were submitted by vendor</b> <input checked="" type="checkbox"/> ELECTRICAL/MECHANICAL LOGS <input checked="" type="checkbox"/> GEOLOGIC REPORT <input checked="" type="checkbox"/> DST REPORT <input checked="" type="checkbox"/> DIRECTIONAL SURVEY <input checked="" type="checkbox"/> SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION <input checked="" type="checkbox"/> CORE ANALYSIS <input checked="" type="checkbox"/> OTHER: _____	30. WELL STATUS: <b>Producing</b>
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31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 02/14/2014		TEST DATE: 03/11/2014		HOURS TESTED: 24		TEST PRODUCTION RATES: →		OIL – BBL: 418	GAS – MCF: 434	WATER – BBL: 290	PROD. METHOD: Flowing
CHOKE SIZE: 16	TBG. PRESS. 1157	CSG. PRESS. 0	API GRAVITY 45	BTU – GAS	GAS/OIL RATIO 1.04	24 HR PRODUCTION RATES: →	OIL – BBL: 418	GAS – MCF: 434	WATER – BBL: 290	INTERVAL STATUS: Producing	

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.)

Sold

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)
				Upper Green River	3628
				Middle Green River	5168
				Lower Green River	6481
				Wasatch	8349

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) Maria S. Gomez TITLE Principal Regulatory Analyst  
 SIGNATURE *Maria S. Gomez* DATE 03/17/2014

This report must be submitted within 30 days of

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

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

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

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

**Attachment to Well Completion Report****Form 8 Dated March 17, 2014****Well Name: Duchesne City 2-25C5****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>
9467'-9715'	.43	69	Open
9133'-9467'	.43	69	Open
8865'-9107'	.43	69	Open
8569'-8845'	.43	69	Open

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

<b>Depth Interval</b>	<b>Amount and Type of Material</b>
9743'-9982'	5000 gal acid, 3000# 100 mesh, 160180# 20/40 TLC
9467'-9715'	5000 gal acid, 3000# 100 mesh, 160880# 20/40 TLC
9133'-9467'	5000 gal acid, 3000# 100 mesh, 150160# 20/40 TLC
8865'-9107'	5000 gal acid, 3000# 100 mesh, 150500# 20/40 TLC
8569'-8845'	5000 gal acid, 3000# 100 mesh, 150600# 20/40 TLC



**Company:** EP Energy      **Job Number:** \_\_\_\_\_  
**Well:** Duchesne City 2-25C5      **Mag Decl.:** \_\_\_\_\_  
**Location:** Duchesne, UT      **Dir Driller:** \_\_\_\_\_  
**Rig:** Precision 406      **MWD Eng:** \_\_\_\_\_  
**Calculation Method** Minimum Curvature  
**Proposed Azimuth** 0.00  
**Depth Reference** KB  
**Tie Into:** Gyro/MWD

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')	
							N/S (ft)	E/W (ft)	Distance (ft)	Direction Azimuth				
<b>Tie In</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>											
1	100.00	0.45	187.92	100.00	100.00	-0.38	0.38	S	0.05	W	0.39	187.92	0.45	187.92
2	200.00	0.62	184.22	100.00	199.99	-1.30	1.30	S	0.15	W	1.31	186.41	0.17	-3.70
3	300.00	0.58	175.11	100.00	299.99	-2.35	2.35	S	0.14	W	2.35	183.48	0.10	-0.03
4	400.00	0.79	176.48	100.00	399.98	-3.54	3.54	S	0.06	W	3.54	180.92	0.21	0.21
5	500.00	0.88	174.27	100.00	499.97	-4.99	4.99	S	0.06	E	4.99	179.29	0.09	0.09
6	600.00	0.72	185.79	100.00	599.96	-6.38	6.38	S	0.07	E	6.38	179.33	0.22	-0.15
7	700.00	0.69	189.97	100.00	699.95	-7.59	7.59	S	0.09	W	7.59	180.70	0.06	-0.04
8	800.00	0.96	198.72	100.00	799.94	-8.98	8.98	S	0.47	W	8.99	182.97	0.30	0.28
9	900.00	1.14	191.42	100.00	899.93	-10.75	10.75	S	0.93	W	10.79	184.96	0.22	0.18
10	1000.00	0.83	184.29	100.00	999.91	-12.44	12.44	S	1.18	W	12.50	185.43	0.34	-0.31
11	1100.00	0.98	194.02	100.00	1099.90	-13.99	13.99	S	1.44	W	14.07	185.90	0.22	0.16
12	1200.00	1.23	203.22	100.00	1199.88	-15.81	15.81	S	2.07	W	15.94	187.48	0.30	0.24
13	1300.00	1.26	187.76	100.00	1299.86	-17.88	17.88	S	2.64	W	18.08	188.41	0.34	0.04
14	1400.00	1.57	197.43	100.00	1399.83	-20.28	20.28	S	3.20	W	20.53	188.98	0.39	0.31
15	1500.00	1.82	191.26	100.00	1499.78	-23.15	23.15	S	3.93	W	23.48	189.62	0.31	0.25
16	1600.00	1.92	197.06	100.00	1599.73	-26.32	26.32	S	4.73	W	26.74	190.19	0.21	0.10
17	1700.00	2.25	192.10	100.00	1699.66	-29.85	29.85	S	5.63	W	30.37	190.69	0.38	0.33
18	1800.00	2.79	192.96	100.00	1799.57	-34.14	34.14	S	6.59	W	34.77	190.93	0.54	0.54
19	1900.00	3.07	197.06	100.00	1899.43	-39.07	39.07	S	7.92	W	39.86	191.46	0.35	0.28
20	1964.00	3.27	191.56	64.00	1963.34	-42.49	42.49	S	8.79	W	43.39	191.69	0.57	0.31
21	2061.00	3.38	200.64	97.00	2060.17	-47.88	47.88	S	10.35	W	48.98	192.20	0.55	0.12
22	2126.00	3.23	208.91	65.00	2125.07	-51.27	51.27	S	11.91	W	52.64	193.08	0.77	-0.23
23	2222.00	4.31	244.28	96.00	2220.87	-55.20	55.20	S	16.47	W	57.61	196.61	2.61	1.13
24	2318.00	5.00	258.74	96.00	2316.56	-57.59	57.59	S	23.82	W	62.32	202.48	1.41	0.72
25	2415.00	5.79	269.37	97.00	2413.13	-58.47	58.47	S	32.86	W	67.07	209.34	1.31	0.81
26	2511.00	5.52	262.69	96.00	2508.66	-59.11	59.11	S	42.28	W	72.68	215.58	0.74	-0.28
27	2607.00	6.46	266.37	96.00	2604.14	-60.04	60.04	S	52.25	W	79.59	221.04	1.06	0.98
28	2704.00	6.08	260.45	97.00	2700.56	-61.23	61.23	S	62.77	W	87.69	225.71	0.77	-0.39
29	2800.00	5.53	269.83	96.00	2796.07	-62.09	62.09	S	72.41	W	95.38	229.39	1.14	-0.57
30	2897.00	5.05	283.68	97.00	2892.66	-61.10	61.10	S	81.23	W	101.64	233.05	1.40	-0.49
31	2993.00	4.52	278.99	96.00	2988.32	-59.51	59.51	S	89.07	W	107.12	236.25	0.69	-0.55
32	3090.00	4.56	284.24	97.00	3085.02	-57.96	57.96	S	96.58	W	112.64	239.03	0.43	0.04
33	3186.00	5.87	288.79	96.00	3180.62	-55.44	55.44	S	104.93	W	118.67	242.15	1.43	1.36
34	3282.00	4.94	277.90	96.00	3276.20	-53.29	53.29	S	113.67	W	125.54	244.88	1.44	-0.97
35	3379.00	5.05	282.77	97.00	3372.83	-51.77	51.77	S	121.97	W	132.50	247.00	0.45	0.11



Company:  
Well: Dukesne City 2-25C5  
Location: Dukesne, UT  
Rig: Precision 406

EP Energy  
Job Number:  
Mag Decl.:  
Dir Driller:  
MWD Eng:

Calculation Method  
Proposed Azimuth  
Depth Reference  
Tie Into:

Minimum Curvature  
0.00  
KB  
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	3475.00	5.48	292.72	96.00	3468.42	-49.07	S	49.07	S	130.32	W	139.25	249.37	1.05	0.45	10.36
37	3572.00	4.98	288.30	97.00	3565.02	-45.96	S	45.96	S	138.59	W	146.01	251.65	0.66	-0.52	-4.56
38	3668.00	4.34	281.68	96.00	3660.70	-43.91	S	43.91	S	146.10	W	152.56	253.27	0.87	-0.67	-6.90
39	3765.00	4.93	294.61	97.00	3757.39	-41.43	S	41.43	S	153.49	W	158.98	254.89	1.23	0.61	13.33
40	3861.00	3.84	279.32	96.00	3853.11	-39.20	S	39.20	S	160.41	W	165.13	256.27	1.66	-1.14	-15.93
41	3958.00	4.76	286.87	97.00	3949.84	-37.50	S	37.50	S	167.47	W	171.61	257.38	1.11	0.95	7.78
42	4054.00	5.33	290.91	96.00	4045.46	-34.75	S	34.75	S	175.44	W	178.85	258.79	0.70	0.59	4.21
43	4151.00	4.44	277.39	97.00	4142.11	-32.66	S	32.66	S	183.38	W	186.26	259.90	1.49	-0.92	-13.94
44	4247.00	5.33	290.90	96.00	4237.77	-30.60	S	30.60	S	191.23	W	193.66	260.91	1.51	0.93	14.07
45	4344.00	4.55	281.02	97.00	4334.41	-28.25	S	28.25	S	199.21	W	201.21	261.93	1.19	-0.80	-10.19
46	4440.00	5.32	291.03	96.00	4430.05	-25.93	S	25.93	S	207.10	W	208.72	262.86	1.20	0.80	10.43
47	4537.00	5.94	298.71	97.00	4526.59	-21.90	S	21.90	S	215.70	W	216.81	264.20	1.00	0.64	7.92
48	4633.00	5.16	288.80	96.00	4622.14	-18.13	S	18.13	S	224.15	W	224.88	265.38	1.28	-0.81	-10.32
49	4729.00	5.47	291.49	96.00	4717.72	-15.06	S	15.06	S	232.49	W	232.98	266.29	0.41	0.32	2.80
50	4825.00	4.47	276.82	96.00	4813.37	-12.94	S	12.94	S	240.47	W	240.81	266.92	1.68	-1.04	-15.28
51	4922.00	4.58	287.67	97.00	4910.07	-11.31	S	11.31	S	247.91	W	248.17	267.39	0.89	0.11	11.19
52	5018.00	5.33	299.22	96.00	5005.71	-7.97	S	7.97	S	255.45	W	255.58	268.21	1.30	0.78	12.03
53	5115.00	4.54	287.71	97.00	5102.35	-4.61	S	4.61	S	263.04	W	263.08	269.00	1.30	-0.81	-11.87
54	5212.00	5.34	291.33	97.00	5198.99	-1.80	S	1.80	S	270.90	W	270.91	269.62	0.88	0.82	3.73
55	5309.00	5.68	292.93	97.00	5295.54	1.72	N	1.72	N	279.53	W	279.53	270.35	0.38	0.35	1.65
56	5405.00	4.81	280.12	96.00	5391.14	4.27	N	4.27	N	287.87	W	287.90	270.85	1.51	-0.91	-13.34
57	5501.00	4.99	282.02	96.00	5486.79	5.85	N	5.85	N	295.91	W	295.97	271.13	0.25	0.19	1.98
58	5597.00	5.93	295.72	96.00	5582.36	8.87	N	8.87	N	304.46	W	304.59	271.67	1.67	0.98	14.27
59	5693.00	6.97	297.85	96.00	5677.75	13.75	N	13.75	N	314.08	W	314.38	272.51	1.11	1.08	2.22
60	5789.00	6.53	291.54	96.00	5773.09	18.47	N	18.47	N	324.31	W	324.84	273.26	0.90	-0.46	-6.57
61	5886.00	6.06	286.62	97.00	5869.50	21.96	N	21.96	N	334.35	W	335.07	273.76	0.74	-0.48	-5.07
62	5981.00	5.39	277.59	95.00	5964.03	23.99	N	23.99	N	343.58	W	344.41	273.99	1.18	-0.71	-9.51
63	6078.00	4.61	270.41	97.00	6060.66	24.61	N	24.61	N	351.99	W	352.85	274.00	1.03	-0.80	-7.40
64	6174.00	4.89	272.75	96.00	6156.33	24.84	N	24.84	N	359.93	W	360.79	273.95	0.35	0.29	2.44
65	6271.00	4.41	263.49	97.00	6253.01	24.61	N	24.61	N	367.77	W	368.59	273.83	0.92	-0.49	-9.55
66	6367.00	3.91	254.24	96.00	6348.76	23.31	N	23.31	N	374.59	W	375.31	273.56	0.87	-0.52	-9.64
67	6464.00	3.01	247.82	97.00	6445.58	21.45	N	21.45	N	380.13	W	380.73	273.23	1.01	-0.93	-6.62
68	6560.00	2.21	241.25	96.00	6541.48	19.61	N	19.61	N	384.08	W	384.58	272.92	0.89	-0.83	-6.84
69	6657.00	1.85	245.71	97.00	6638.42	18.06	N	18.06	N	387.15	W	387.57	272.67	0.41	-0.37	4.60
70	6753.00	1.45	277.06	96.00	6734.38	17.57	N	17.57	N	389.77	W	390.17	272.58	1.01	-0.42	32.66
71	6849.00	1.24	256.41	96.00	6830.36	17.48	N	17.48	N	391.98	W	392.37	272.55	0.55	-0.22	-21.51
72	6946.00	1.50	228.04	97.00	6927.33	16.38	N	16.38	N	393.95	W	394.29	272.38	0.74	0.27	-29.25



Company:

EP Energy

Job Number:

Calculation Method Minimum Curvature

Well:

Duchesne City 2-25C5

Mag Decl.:

0.00

Location:

Duchesne, UT

Dir Driller:

KB

Rig:

Precision 406

MWD Eng:

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	7042.00	1.89	211.30	96.00	7023.29	14.19	N	395.71	W	395.96	272.05	0.65	0.41	-17.44
74	7138.00	2.20	203.24	96.00	7119.23	11.14	N	397.25	W	397.41	271.61	0.44	0.32	-8.40
75	7235.00	1.91	213.70	97.00	7216.17	8.09	N	398.89	W	398.97	271.16	0.49	-0.30	10.78
76	7331.00	2.24	215.54	96.00	7312.10	5.23	N	400.86	W	400.90	270.75	0.35	0.34	1.92
77	7428.00	1.63	261.82	97.00	7409.05	3.49	N	403.33	W	403.35	270.50	1.67	-0.63	47.71
78	7524.00	1.77	235.67	96.00	7505.01	2.46	N	405.91	W	405.92	270.35	0.81	0.15	-27.24
79	7621.00	2.16	230.18	97.00	7601.95	0.45	N	408.55	W	408.55	270.06	0.45	0.40	-5.66
80	7717.00	2.56	218.40	96.00	7697.87	-2.39	S	411.27	W	411.28	269.67	0.65	0.42	-12.27
81	7814.00	2.75	205.93	97.00	7794.77	-6.18	S	413.63	W	413.68	269.14	0.63	0.20	-12.86
82	7910.00	2.92	196.00	96.00	7890.65	-10.60	S	415.31	W	415.45	268.54	0.54	0.18	-10.34
83	8006.00	1.59	231.64	96.00	7986.58	-13.78	S	417.03	W	417.26	268.11	1.95	-1.39	37.13
84	8102.00	1.63	224.73	96.00	8082.54	-15.58	S	419.04	W	419.33	267.87	0.21	0.04	-7.20
85	8199.00	2.24	211.84	97.00	8179.49	-18.17	S	421.01	W	421.40	267.53	0.77	0.63	-13.29
86	8295.00	2.44	209.17	96.00	8275.41	-21.55	S	422.99	W	423.54	267.08	0.24	0.21	-2.78
87	8375.00	2.67	197.42	80.00	8355.33	-24.81	S	424.38	W	425.11	266.65	0.71	0.29	-14.69
88	8438.00	2.50	224.00	63.00	8418.27	-27.20	S	425.78	W	426.64	266.34	1.90	-0.27	42.19
89	8533.00	2.70	205.00	95.00	8513.17	-30.72	S	428.16	W	429.26	265.90	0.93	0.21	-20.00
90	8660.00	2.70	182.10	127.00	8640.03	-36.42	S	429.54	W	431.08	265.15	0.84	0.00	-18.03
91	8721.00	2.90	185.10	61.00	8700.96	-39.39	S	429.73	W	431.53	264.76	0.41	0.33	4.92
92	8847.00	2.80	182.10	126.00	8826.80	-45.64	S	430.12	W	432.54	263.94	0.14	-0.08	-2.38
93	8932.00	3.50	187.10	85.00	8911.68	-50.29	S	430.52	W	433.45	263.34	0.88	0.82	5.88
94	9027.00	3.00	191.10	95.00	9006.52	-55.61	S	431.36	W	434.92	262.65	0.58	-0.53	4.21
95	9121.00	3.30	199.10	94.00	9100.38	-60.58	S	432.71	W	436.93	262.03	0.57	0.32	8.51
96	9217.00	3.10	194.10	96.00	9196.23	-65.71	S	434.25	W	439.19	261.40	0.36	-0.21	-5.21
97	9419.00	4.10	196.10	202.00	9397.83	-77.94	S	437.58	W	444.47	259.90	0.50	0.50	0.99
98	9513.00	4.60	184.10	94.00	9491.56	-84.93	S	438.79	W	446.93	259.05	1.10	0.53	-12.77
99	9702.00	5.30	187.10	189.00	9679.86	-101.15	S	440.41	W	451.87	257.06	0.39	0.37	1.59
100	9797.00	4.40	195.10	95.00	9774.52	-109.03	S	441.90	W	455.15	256.14	1.18	-0.95	8.42
101	9889.00	4.70	197.10	92.00	9866.23	-116.04	S	443.93	W	458.84	255.35	0.37	0.33	2.17
102	9984.00	5.00	185.10	95.00	9960.89	-123.88	S	445.44	W	462.34	254.46	1.11	0.32	-12.63
103	10080.00	4.60	181.10	96.00	10056.55	-131.90	S	445.88	W	464.98	253.52	0.54	-0.42	-4.17
104	10174.00	4.80	182.10	94.00	10150.23	-139.59	S	446.10	W	467.43	252.62	0.23	0.21	1.06
105	10268.00	3.90	196.00	94.00	10243.97	-146.60	S	447.13	W	470.54	251.85	1.47	-0.96	14.79
106	10365.00	4.50	190.00	97.00	10340.70	-153.52	S	448.70	W	474.23	251.11	0.77	0.62	-6.19
107	10462.00	3.60	194.10	97.00	10437.46	-160.22	S	450.10	W	477.76	250.41	0.97	-0.93	4.23
108	10557.00	3.70	200.10	95.00	10532.27	-165.99	S	451.88	W	481.40	249.83	0.42	0.11	6.32
109	10652.00	4.20	197.10	95.00	10627.04	-172.19	S	453.95	W	485.51	249.23	0.57	0.53	-3.16



**Company:** EP Energy      **Job Number:** \_\_\_\_\_  
**Well:** Duchesne City 2-25C5      **Mag Decl.:** \_\_\_\_\_  
**Location:** Duchesne, UT      **Dir Driller:** \_\_\_\_\_  
**Rig:** Precision 406      **MWD Eng:** \_\_\_\_\_  
**Calculation Method** Minimum Curvature  
**Proposed Azimuth** 0.00  
**Depth Reference** KB  
**Tie Into:** Gyro/MWD

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')		
							N/S (ft)	E/W (ft)	Distance (ft)	Direction Azimuth					
110	10747.00	3.60	188.10	95.00	10721.82	-178.47	178.47	S	455.40	W	489.12	248.60	0.90	-0.63	-9.47
111	10843.00	3.40	188.10	96.00	10817.64	-184.27	184.27	S	456.22	W	492.03	248.01	0.21	-0.21	0.00
112	10936.00	4.50	177.10	93.00	10910.42	-190.65	190.65	S	456.43	W	494.64	247.33	1.43	1.18	-11.83
113	11000.00	4.50	177.10	64.00	10974.23	-195.66	195.66	S	456.17	W	496.36	246.78	0.00	0.00	0.00

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9	
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  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.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> Fee	
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>	
<b>1. TYPE OF WELL</b> Oil Well		<b>7. UNIT or CA AGREEMENT NAME:</b>	
<b>2. NAME OF OPERATOR:</b> EP ENERGY E&P COMPANY, L.P.		<b>8. WELL NAME and NUMBER:</b> Duchesne City 2-25C5	
<b>3. ADDRESS OF OPERATOR:</b> 1001 Louisiana, Houston, TX, 77002		<b>9. API NUMBER:</b> 43013520640000	
<b>PHONE NUMBER:</b> 713 997-5038 Ext		<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT	
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1057 FNL 0288 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NENE Section: 25 Township: 03.0S Range: 05.0W Meridian: U		<b>COUNTY:</b> DUCHESNE	
		<b>STATE:</b> UTAH	
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:  <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 3/10/2015  <input type="checkbox"/> SPUD REPORT Date of Spud:  <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input checked="" type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION  OTHER: <input type="text" value="See below"/>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.			
Converted to corod. See attached for details.			
<b>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY May 26, 2015</b>			
<b>NAME (PLEASE PRINT)</b> Maria S. Gomez	<b>PHONE NUMBER</b> 713 997-5038	<b>TITLE</b> Principal Regulatory Analyst	
<b>SIGNATURE</b> N/A		<b>DATE</b> 5/25/2015	

## CENTRAL DIVISION

ALTAMONT FIELD  
DUCHESNE CITY 2-25C5  
DUCHESNE CITY 2-25C5  
WORKOVER LAND

### **Operation Summary Report**

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

**1 General****1.1 Customer Information**

Company	CENTRAL DIVISION
Representative	
Address	

**1.2 Well Information**

Well	DUCHESNE CITY 2-25C5		
Project	ALTAMONT FIELD	Site	DUCHESNE CITY 2-25C5
Rig Name/No.	NABORS DRILLING/1446	Event	WORKOVER LAND
Start date	2/27/2015	End date	3/11/2015
Spud Date/Time	12/15/2013	UWI	DUCHESNE CITY 2-25C5
Active datum	KB @5,822.5ft (above Mean Sea Level)		
Afe No./Description	164498/53699 / DUCHESNE CITY 2-25C5		

**2 Summary****2.1 Operation Summary**

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
2/28/2015	13:00 15:30	2.50	PRDHEQ	18		P		ROAD RIG FROM 4-9C4 TO 2-25C5, MIRU WHILE PUMPING 60 BBLS HOT 2% KCL DOWN CSG, BLEED OFF TBG
	15:30 17:30	2.00	PRDHEQ	42		P		L/D POLISH ROD & SUBS, POOH W/ 92-1", 61-7/8, ELEVATORS WERE FULL OF WAX AND DROPPED 7/8" RODS DOWN THE HOLE, STEAM OFF ROD EQUIPMENT.
	17:30 19:00	1.50	PRDHEQ	42		P		RIH W/ 2 1/2" O' BANNON BARREL W/ 13/16" O.S. , 63-7/8" & 92-1" RODS, FISH 7/8" RODS, SOOH W/ RODS, SECURE WELL, SDFN.
3/1/2015	6:00 7:00	1.00	PRDHEQ	46		P		CREW TRAVEL HSM WRITE & REVIEW JSA ( TOPIC ) TUBING JOBS & HANDLE TUBING
	7:00 9:00	2.00	PRDHEQ	42		P		L/D POLISH ROD, POOH W/ 92-1", 85-7/8", PIN HAD PULLED OUT OF WORN BOX @ 4425', BOX WAS WORN IN HALF
	9:00 11:00	2.00	PRDHEQ	18		P		X-O TO TBG EQUIPMENT, N/D B-FLANGE, N/U 10K X 5K SPOOL & 5K BOPE, R/U WORK FLOOR & TONGS, RELEASE 5" TAC @ 8428'
	11:00 12:30	1.50	ELINE	21		P		R/U WIRELINERS, RIH PERFORATE TBG @ 4470' W/ 4 SHOTS, POOH, R/D WIRELINE TRUCK
	12:30 13:00	0.50	PMPNG	24		P		FLUSH TBG W/ 50 BBLS HOT 2% KCL
	13:00 16:30	3.50	PRDHEQ	18		P		R/U PRS, POOH SCANNING TBG W/ 145 JTS 2 7/8" TO 7/8" RODS, R/D PRS, HAD 103 YELLOW, 14 BLUE, 28 RED, ALL BLUES & REDS WERE ROD CUT
	16:30 18:00	1.50	PRDHEQ	42		P		BACK OFF RODS, POOH L/D 17-7/8" & 68-3/4" RODS FOR CORROSION & WEAR, SECURE WELL, SDFW
3/2/2015	6:00 6:00	24.00	PRDHEQ	18		P		NO ACTIVITY, SHUT DOWN FOR WEEKEND
3/3/2015	6:00 7:00	1.00	PRDHEQ	46		P		CREW TRAVEL HSM WRITE & REVIEW JSA ( TOPIC ) SCANNING TUBING
	7:00 14:30	7.50	PRDHEQ	42		P		BLEED OFF WELL, R/U PRS, CONTINUE POOH SCANNING TBG & STRIPPING RODS W/ 124 JTS 2 7/8", 54-3/4" RODS & 18 K-BARS, R/D PRS, TOTAL SCANNED 268 JTS HAD 150 YELLOW, 36 BLUE ( 4 FOR PITTING & 32 FOR WEAR ), 82 RED ( 1 PITTING & 81 FOR WEAR ),. THERE WAS BAD ROD WEAR FROM 3514' TO 6220'

## 2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	14:30 15:30	1.00	PRDHEQ	18		P		L/D BHA, # 11 SPIRAL DE-SANDER, 5" WALS TAC, DRAIN 2 3/8" MUD JTS. P/U BHA, 2 3/8" BULL PLUG, 2 JTS 2 3/8", 5" WALS TAC, 4' X 2 3/8" SUB, 2 3/8" X 2 7/8" X-O, 2' X 2 7/8" SUB, 2 7/8" PSN, 2 7/8" EUE X 2 7/8" NTS-8 HYDRILL X-O, RIH W/ BHA
	15:30 18:30	3.00	PRDHEQ	18		P		R/U HYDRO TESTER, RIH TESTING TBG TO 8500 PSI W/ 150 JTS 2 7/8" YELLOW BAND, EOT @ 5100', R/D TESTER, SECURE WELL, SDFN
3/4/2015	6:00 7:00	1.00	PRDHEQ	46		P		CREW TRAVEL HSM WRITE & REVIEW JSA ( TOPIC ) CONFINED SPACES
	7:00 13:00	6.00	PRDHEQ	18		P		BLEED OFF WELL, PICK UP 118 NEW 2 7/8" HYDRILL P-110 BTS-8, SET 5" TAC, N/D BOPE, R/D TONGS & WORK FLOOR, TAKE OUT 6' SUB, TAC SLID UP HOLE, RELEASE TAC, L/D 1 JT, TRY SET TAC, IT WOULDN'T RE-SET.
	13:00 18:30	5.50	PRDHEQ	18		P		N/U 5K BOPE, R/U WORK FLOOR & TONGS, POOH W/ 268 JTS 2 7/8" HYDRILL, X-O TO 8rd, 4' X 2 3/8" SUB, PSN, DESANDER, 4' X 2 3/8" SUB, L/D TAC, P/U NEW TAC, RIH W/ 212 JTS 2 7/8", EOT @ 6610', SECURE WELL, SDFN
3/5/2015	6:00 6:00	24.00	PRDHEQ	46		P		SHUT DOWN FOR QUARTERLY SAFETY MEETING
3/6/2015	7:00 8:00	1.00	PRDHEQ	46		P		CREW TRAVEL HSM WRITE & REVIEW JSA ( TOPIC ) HOT OILER OPERATIONS
	8:00 10:30	2.50	PRDHEQ	18		P		CONTINUE RIH W/ 57 JTS 2 7/8" HYDRILL P-110 BTS-8, SET 5" WALS TAC, R/D TONGS & WORK FLOOR, N/D 5K BOPE & 5K X 10K SPOOL, LAND TBG IN 25K TENSION, N/U B-FLANGE W/ 70' OF 3/8" CAP TUBE, R/U FLOW LINES, X-O TO ROD EQUIP.
	10:30 12:00	1.50	PRDHEQ	42		P		RIH W/ 48-3/4", 91-7/8" & 92-1" RODS
	12:00 13:00	1.00	PMPNG	24		P		R/U HOT OIL TRUCK, FLUSH TBG W/ 60 BBLs 2% KCL
	13:00 15:00	2.00	PRDHEQ	42		P		POOH, L/D 92-1", 91-7/8" & 48-3/4"
	15:00 16:00	1.00	PRDHEQ	18		P		R/D RIG, CLEAN LOCATION, MOVE OFF
	16:00 18:00	2.00	PRDHEQ	18		P		ROAD RIG FROM 2-25C5 TO 3-2A2, SDFN
3/9/2015	6:00 6:30	0.50	PRDHEQ	46		P		TGSM & JSA ( CO ROD OPERATIONS )
	6:30 7:30	1.00	PMPNG	24		P		FLUSH TBG W/ 60 BBLs W/ ALL INHIBITORS. CALL PREVIOUS CONSULTANT AND ASK HIM FOR A ROD STAR AND HE WAS TOLD WEATHERFORD HAD NUMBERS. CREW DID NOT HAVE NUMBERS BUT TOTALS WERE ON SPOOLS SO WE COULD MEASURE AS WE RUN IN.
	7:30 10:30	3.00	PRDHEQ	41		P		RIH W/ 2 1/2" X 1 3/4" X 38' WALS RHBC, 1303' SE 6, 3150' SE 4, 1286' SE 5 2ND REAL SHOWED UP MAKE WELD ADDED SHIPPING PAPERS TOGETHER ADDED UP TO 9500' OF CO-ROD EARLIER WHEN TALKED TO CONSULTANT HE SAID PSN WAS @ 8377' CALLED ANDY JONES.
	10:30 12:00	1.50	PRDHEQ	41		N		POOH W/ CO ROD LAY DOWN PUMP SWI. RD MOVE CO ROD EQUIPMENT TO SIDE . WATER LOSS FOR DAY 80 BBLs KCL
3/10/2015	6:00 7:30	1.50	PRDHEQ	46		P		TRAVEL TO LOCATION, HSM, RIG MOVE
	7:30 10:00	2.50	PRDHEQ	18		P		MOVE FROM 3-27B4 TO LOCATION, INSTALL BEACON ON RIG CROWN, SPOT & RIG UP, X/O TO TBG EQUIP. 100# SITP & FCP HOT OILER KILL TBG W/ 60 BBLs 2% KCL, BLEED CSG OFF

## 2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	10:00 14:30	4.50	PRDHEQ	18		P		N/D WH, UNLAND TBG, REMOVE B-FLANGE, INSTALL 6' TBG SUB & 10K HANGER, RELAND TBG ON HANGER, N/U BOPS, R/U FLOOR, RELEASE TAC, L/D HANGER & SUB, TALLY & RIH W/ 35 JTS 2 7/8" BTS TBG, INSTALL HANGER & SUB, RESET TAC, LAND ON HANGER, R/D FLOOR, N/D BOPS, UNLAND TBG REMOVE HANGER & TBG SUB, INSTALL B-FLANGE, RELAND TBG, N/U WH. 5" TAC @ 9537' W/ 20K TENSION, 2 7/8" SN @ 9506', EOT @ 9603' RDMO, CLEAN LOCATION, MOVE TO 2-26B5
	14:30 15:30	1.00	PRDHEQ	18		P		WAIT ON COROD RIG, MIRU CO ROD RIG
	15:30 18:30	3.00	PRDHEQ	42		P		P/U & RIH W/ WALS 2 1/2" X 1 3/4" X 38' RHBC PUMP W/ 60 RING PA PLUNGER, 3'-7/8" STABILZER SUB 1303'-16/16 SE COROD 3150'-14/16 SE COROD 1286'-15/16 SE COROD 1403'-16/16 SE COROD 1091'-17/16 SE COROD EOR @ 8250' SECURE WELL, TBG SHUT IN, BAG CLOSED ON RODS, CSG TO SALES, SDFN.  2% KCL PUMPED = 150 BBLS DIESEL USED = 72 GAL PROPANE USED = 125 GAL
3/11/2015	6:00 7:30	1.50	PRDHEQ	46		P		TRAVEL TO LOCATION, HSM, R/D COROD RIG 100# SITP & FCP, BLEED CSG OFF
	7:30 9:30	2.00	PRDHEQ	42		P		EOR @ 8250', RIH W/ 1214' 18/16 SE COROD, SEAT PUMP, SPACE, WELD ON TOP PIN, P/U 1-2', 1-4', 1-6', 1-8', PONY RODS & 1 1/2" X 40' POLISH ROD, RESEAT PUMP, HANG OFF.
	9:30 10:00	0.50	PMPNG	15		P		HOT OILER FILL TBG W/ 15 BBLS 2% KCL, PSI TEST TO 500#, STROKE TEST TO 1000# ( GOODTEST ), PSI TEST CV TO 1000# , GOOD, PUMP 15 BBLS 2% KCL @ 200 DEG ACROSS FLOWLINE
	10:00 11:00	1.00	PRDHEQ	18		P		RDMO COROD RIG, SLIDE ROTAFLEX IN, CHECK PUMP, TWOTO.  2% KCL PUMPED = 100 BBLS DIESEL USED = 30 GAL PROPANE USED = 75 GAL