

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> Young 4-6C4
<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      Coalbed Methane Well: NO		<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	<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> John R & Edra B West, Trustees		<b>14. SURFACE OWNER PHONE (if box 12 = 'fee')</b> 801-446-2824
<b>15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')</b> 1518 Homecoming Avenue, South Jordan, UT 84095		<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 checked="" type="checkbox"/> DIRECTIONAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/>

20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	850 FSL 1900 FWL	SESW	6	3.0 S	4.0 W	U
Top of Uppermost Producing Zone	850 FSL 1900 FWL	SESW	6	3.0 S	4.0 W	U
At Total Depth	850 FSL 1900 FWL	SESW	6	3.0 S	4.0 W	U

<b>21. COUNTY</b> DUCHESNE	<b>22. DISTANCE TO NEAREST LEASE LINE (Feet)</b> 850	<b>23. NUMBER OF ACRES IN DRILLING UNIT</b> 640
<b>25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)</b> 1700	<b>26. PROPOSED DEPTH</b> MD: 12500 TVD: 12500	
<b>27. ELEVATION - GROUND LEVEL</b> 5986	<b>28. BOND NUMBER</b> 400JU0708	<b>29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE</b> Duchesne City

Hole, Casing, and Cement Information										
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
Cond	20	13.375	0 - 600	54.5	J-55 LT&C	8.8	Class G	758	1.15	15.8
Surf	12.25	9.625	0 - 3400	40.0	N-80 LT&C	9.5	35/65 Poz	468	3.16	11.0
							Premium Lite High Strength	191	1.33	14.2
I1	8.75	7	0 - 9400	29.0	P-110 LT&C	11.0	Premium Lite High Strength	392	2.31	12.0
							Premium Lite High Strength	91	1.91	12.5
L1	6.125	4.5	9200 - 12500	13.5	P-110 LT&C	13.5	50/50 Poz	253	1.55	14.2

**ATTACHMENTS**

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES

<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN
<input checked="" type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)	<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER
<input type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)	<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP

<b>NAME</b> Maria S. Gomez	<b>TITLE</b> Principal Regulatory Analyst	<b>PHONE</b> 713 997-5038
<b>SIGNATURE</b>	<b>DATE</b> 03/09/2013	<b>EMAIL</b> maria.gomez@epenergy.com
<b>API NUMBER ASSIGNED</b> 43013520850000	<b>APPROVAL</b>   Permit Manager	

**Young 4-6C4  
Sec. 6, T3S, R4W  
DUCHESNE COUNTY, UT**

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

**DRILLING PROGRAM**

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

<u>Formation</u>	<u>Depth</u>
Green River (GRRV)	4,553'
Green River (GRTN1)	5,313'
Mahogany Bench	6,323'
L. Green River	7,623'
Wasatch	9,448'
T.D. (Permit)	12,500'

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

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
	Green River (GRRV)	4,553'
	Green River (GRTN1)	5,313'
	Mahogany Bench	6,323'
Oil	L. Green River	7,623'
Oil	Wasatch	9,448'

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

A 4.5" by 20.0" rotating head on structural pipe from surface to 600'. A 4.5" by 13 3/8" Smith Rotating Head and 5M Annular from 600' to 3,400' on Conductor. A 5M BOP stack, 5M Annular, and 5M kill lines and choke manifold used from 3,400' to 9,400'. A 10M BOE w/rotating head, 5M annular, blind rams & mud cross from 9,400' 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 600' – TD.
- B) Mud logger with gas monitor – 3,400' 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 – 11.0
Production	WBM	11.0 – 13.5

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: 3,400' - 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 12,500' TD equals approximately 8,775 psi. This is calculated based on a 0.702 psi/foot gradient (13.5 ppg mud density at TD).

Maximum anticipated surface pressure equals approximately 6,025 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/ft).

Maximum anticipated surface pressure based on frac gradient at 7" casing shoe is 0.8 psi/ft at 9,400' = 7,520 psi

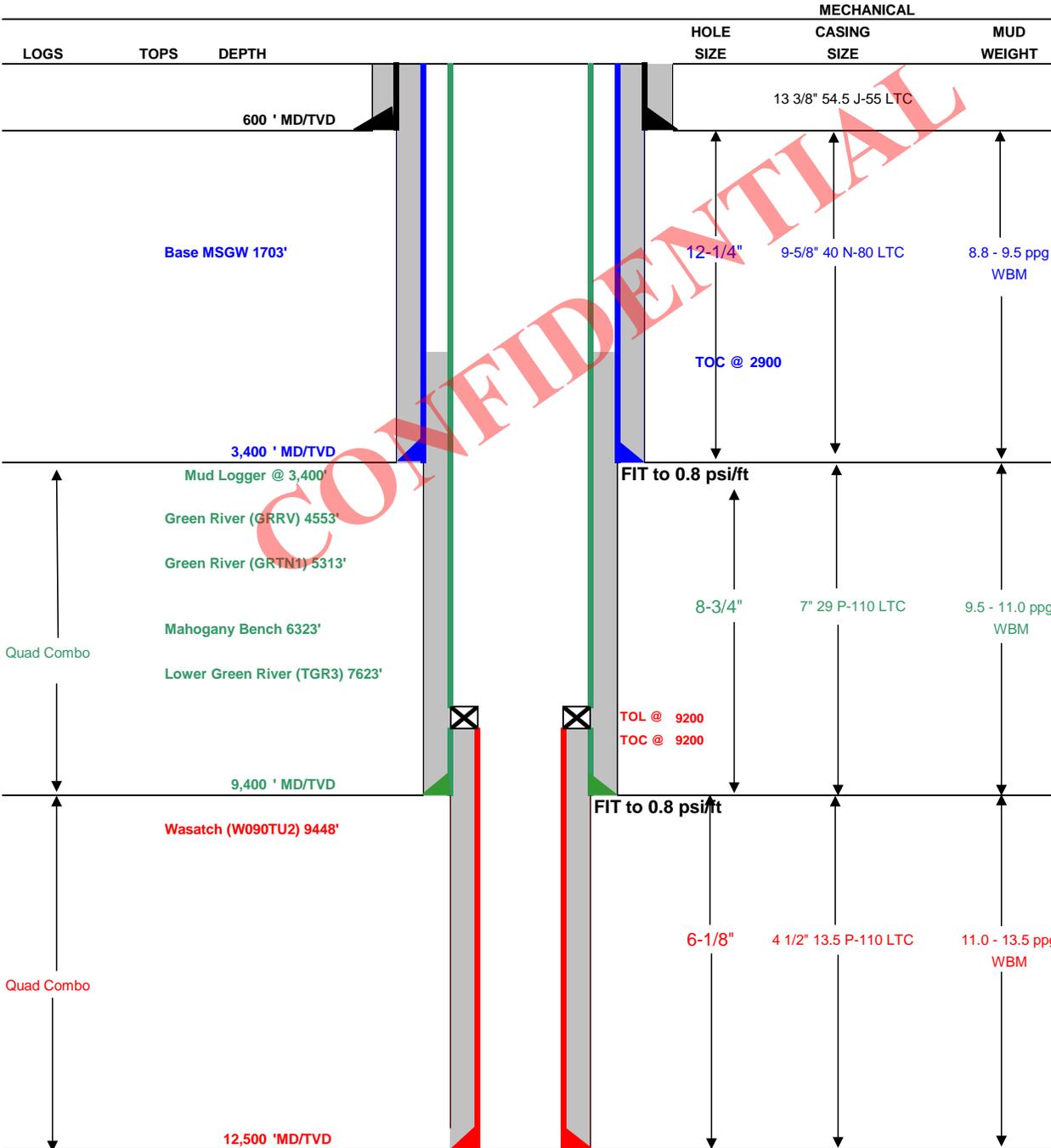
BOPE and casing design will be based on the lesser of the two MASPs which is 6,025 psi.

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



Drilling Schematic

<b>Company Name:</b> EP ENERGY	<b>Date:</b> March 7, 2013
<b>Well Name:</b> Young 4-6C4	<b>TD:</b> 12,500
<b>Field, County, State:</b> Altamont - Bluebell, Duchesne, Utah	<b>AFE #:</b>
<b>Surface Location:</b> Sec 6 T3S R4W 850' FSL 1900' FWL	<b>BHL:</b> Straight Hole
<b>Objective Zone(s):</b> Green River, Wasatch	<b>Elevation:</b> 5987
<b>Rig:</b> Precision 404	<b>Spud (est.):</b>
<b>BOPE Info:</b> 5.0 x 13 3/8 rotating head from 600' to 3,400' 11 5M BOP stack and 5M kill lines and choke manifold used from 3,400' to 9,400' 11 10M BOE w/rotating head, 5M annular, 3.5 rams, blind rams & mud cross from 9,400' to TD	



**DRILLING PROGRAM**

CASING PROGRAM	SIZE	INTERVAL		WT.	GR.	CPLG.	BURST	COLLAPSE	TENSION
CONDUCTOR	13 3/8"	0	600	54.5	J-55	LTC	2,730	1,140	1,399
SURFACE	9-5/8"	0	3400	40.00	N-80	LTC	3,090	5,750	820
INTERMEDIATE	7"	0	9400	29.00	P-110	LTC	11,220	8,530	797
PRODUCTION LINER	4 1/2"	9200	12500	13.50	P-110	LTC	12,410	10,680	338

CEMENT PROGRAM		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
CONDUCTOR		600	Class G + 3% CACL2	758	100%	15.8 ppg	1.15
SURFACE	Lead	2,900	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	468	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	5,500	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	392	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		3,300	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	253	25%	14.20	1.55

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.  
YOUNG 4-6C4  
SECTION 6, T3S, R4W, U.S.B.&M.

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

TURN RIGHT AND TRAVEL SOUTHEASTERLY 0.41 MILES ON A GRAVEL ROAD TO THE BEGINNING OF THE ACCESS ROAD;

TURN RIGHT AND FOLLOW ROAD FLAGS SOUTH AND WEST 0.18 MILES TO THE PROPOSED WELL LOCATION;

TOTAL DISTANCE FROM DUCHESNE, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 6.55 MILES.

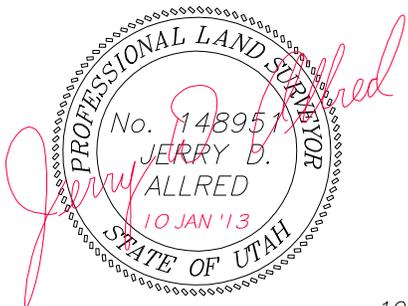
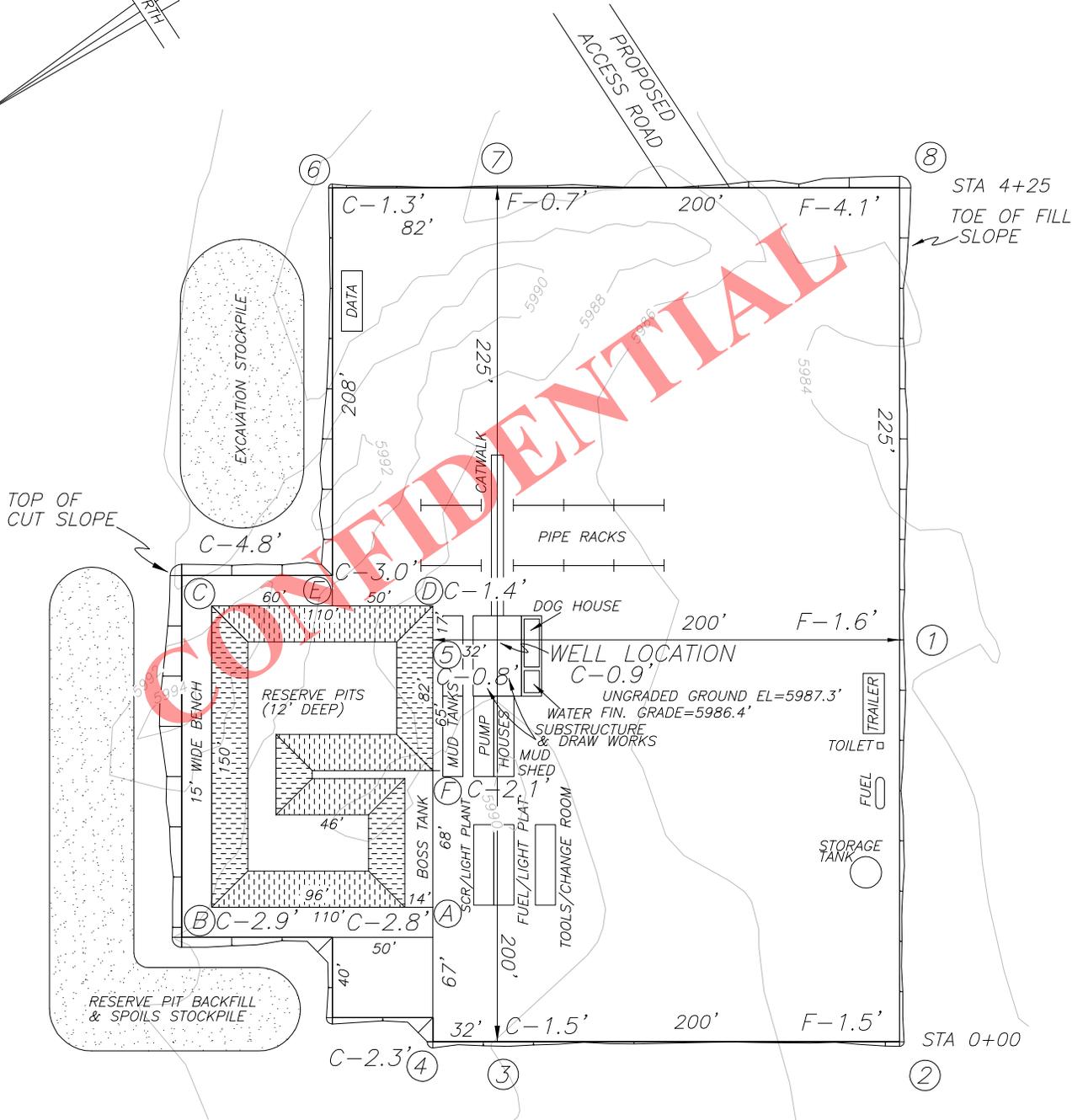
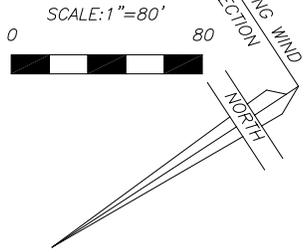
CONFIDENTIAL

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

FIGURE #1

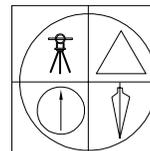
LOCATION LAYOUT FOR  
YOUNG 4-6C4

SECTION 6, T3S, R4W, U.S.B.&M.  
850' FSL, 1900' FWL



10 JAN 2013

01-128-356



JERRY D. ALLRED & ASSOCIATES  
SURVEYING CONSULTANTS

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

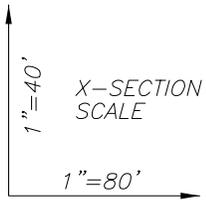
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# EP ENERGY E & P COMPANY, L.P.

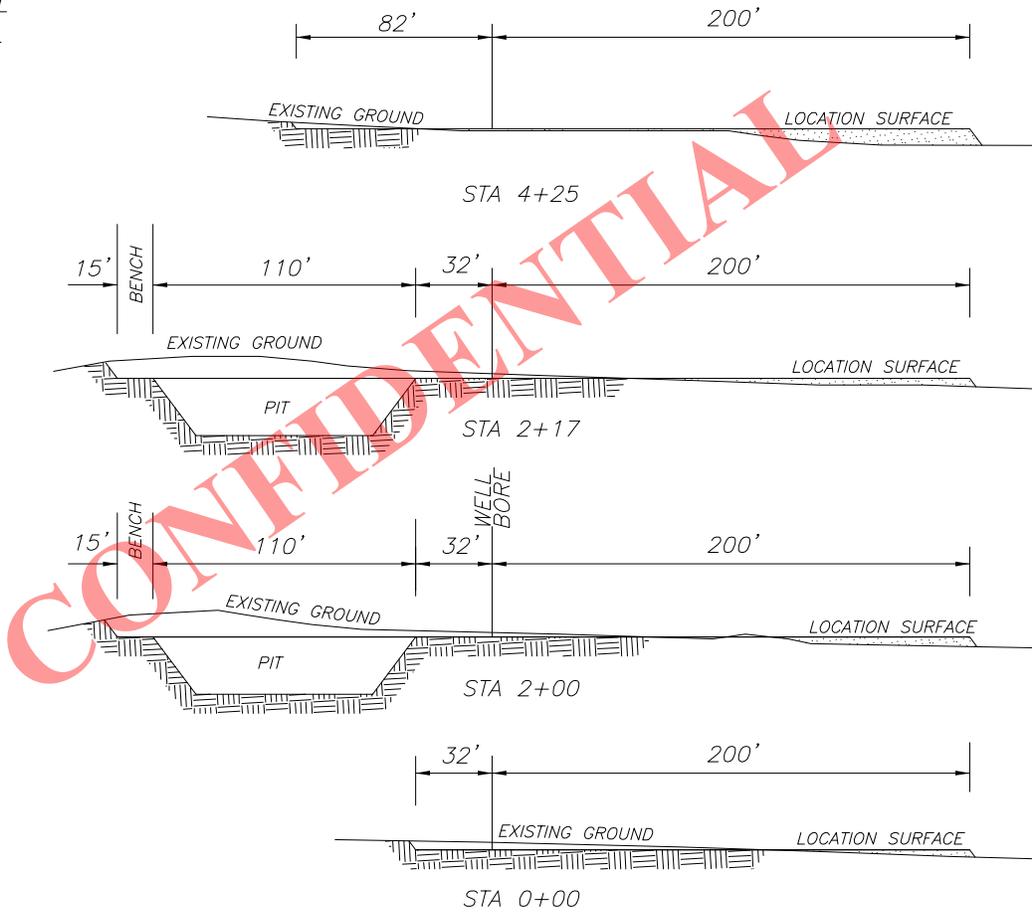
FIGURE #2

LOCATION LAYOUT FOR  
YOUNG 4-6C4

SECTION 6, T3S, R4W, U.S.B.&M.  
850' FSL, 1900' FWL



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



APPROXIMATE QUANTITIES

TOTAL CUT (INCLUDING PIT) = 11,711 CU. YDS.

PIT CUT = 4572 CU. YDS.

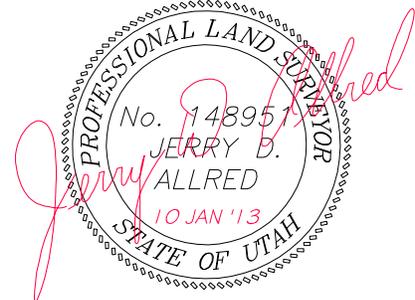
TOPSOIL STRIPPING: (6") = 2547 CU. YDS.

REMAINING LOCATION CUT = 4592 CU. YDS

TOTAL FILL = 3423 CU. YDS.

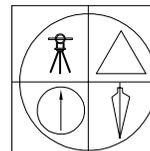
LOCATION SURFACE GRAVEL=1374 CU. YDS. (4" DEEP)

ACCESS ROAD GRAVEL=249 CU. YDS.



10 JAN 2013

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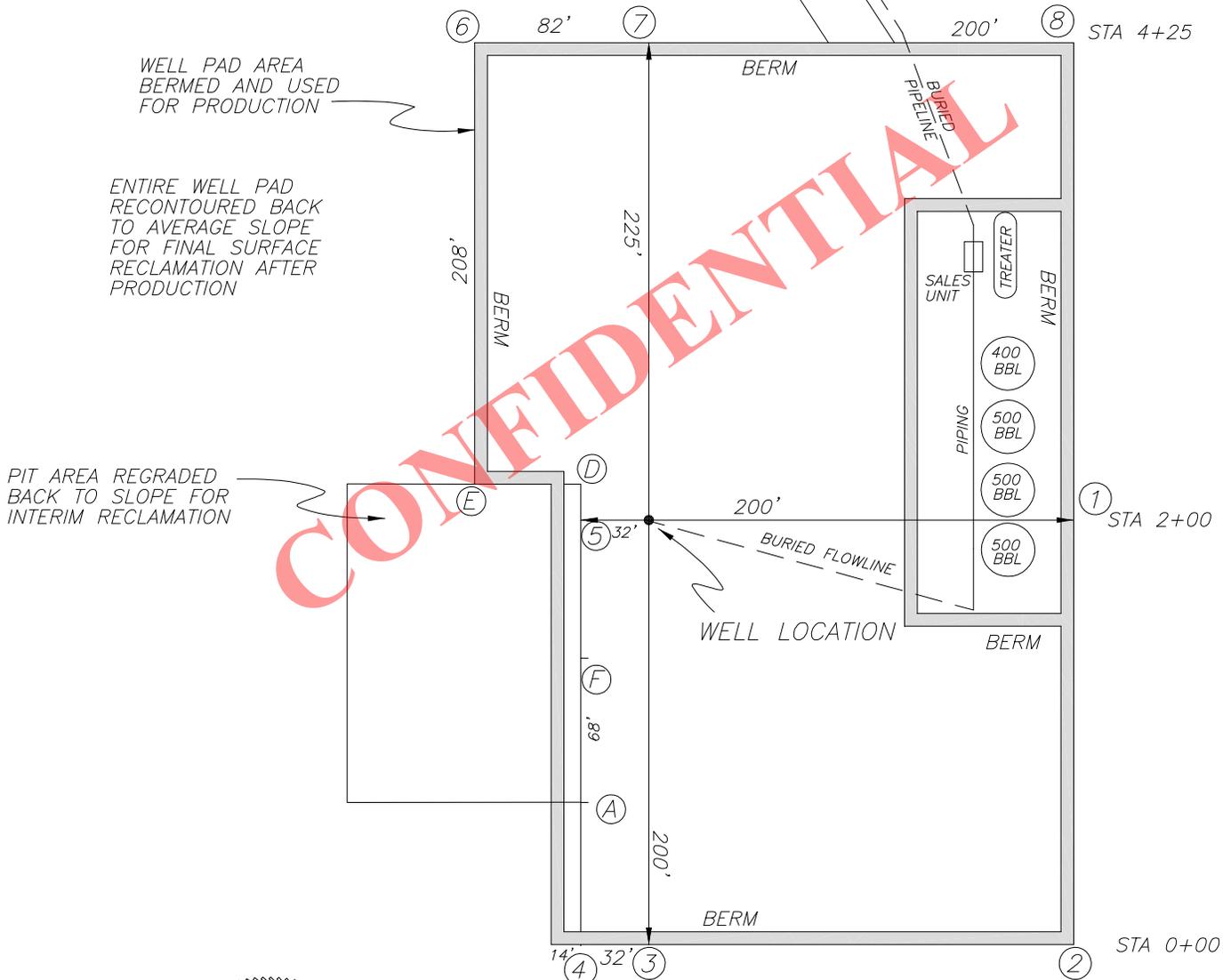
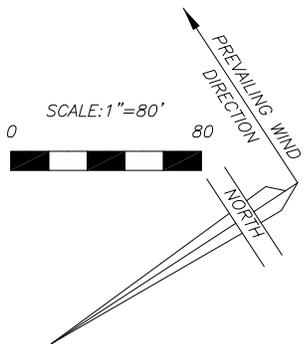
RECEIVED: March 09, 2013

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

FIGURE #3

LOCATION LAYOUT FOR  
YOUNG 4-6C4

SECTION 6, T3S, R4W, U.S.B.&M.  
850' FSL, 1900' FWL



WELL PAD AREA  
BERMED AND USED  
FOR PRODUCTION

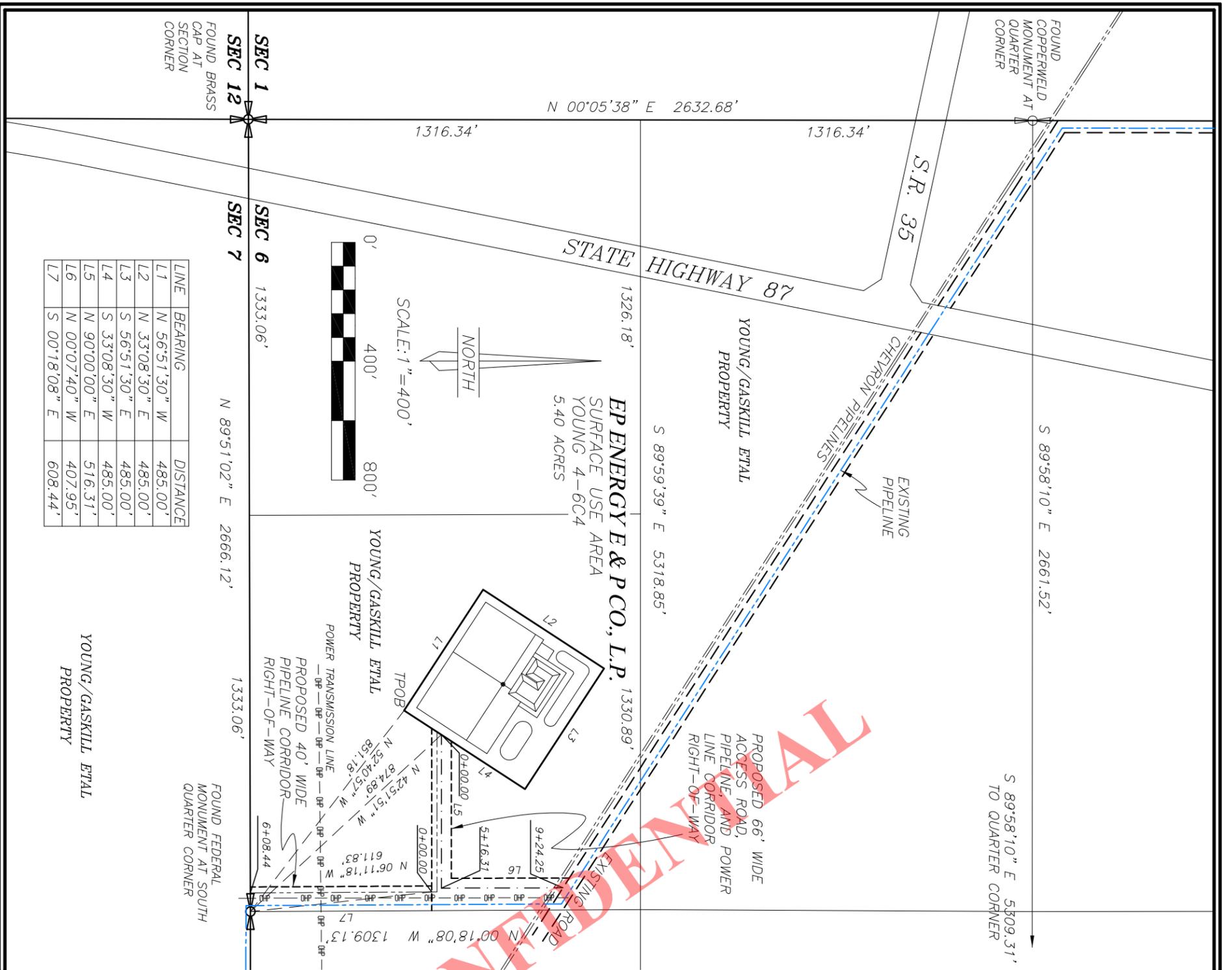
ENTIRE WELL PAD  
RECONTOURED BACK  
TO AVERAGE SLOPE  
FOR FINAL SURFACE  
RECLAMATION AFTER  
PRODUCTION

PIT AREA REGRADED  
BACK TO SLOPE FOR  
INTERIM RECLAMATION

CONFIDENTIAL

PROFESSIONAL LAND SURVEYOR  
No. 14895  
JERRY D. ALLRED  
10 JAN '13  
STATE OF UTAH

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



LOCATION USE AREA AND ACCESS ROAD, POWER LINE, AND PIPELINE CORRIDOR RIGHT-OF-WAY SURVEY FOR  
**EP ENERGY E&P COMPANY, L.P.**  
 YOUNG 4-6C4  
 SECTION 6, T3S, R4W, U.S.B.&M.  
 DUCHESSNE COUNTY, UTAH

**USE AREA BOUNDARY**  
 Commencing at the South Quarter Corner of Section 6, Township 3 South, Range 4 West of the Uintah Special Base and Meridian;  
 Thence North 52°40'57" West 851.18 feet to the TRUE POINT OF BEGINNING;  
 Thence North 56°51'30" West 485.00 feet;  
 Thence North 33°08'30" East 485.00 feet;  
 Thence South 56°51'30" East 485.00 feet;  
 Thence South 33°08'30" West 485.00 feet to the TRUE POINT OF BEGINNING, containing 5.40 acres.

**ACCESS ROAD, PIPELINE, AND POWER LINE CORRIDOR RIGHT-OF-WAY DESCRIPTION**  
 A 66 feet wide access road, pipeline, and power line right-of-way over portions of Section 6, Township 3 South, Range 4 West of the Uintah Special Base and Meridian, the centerline of which is further described as follows:  
 Commencing at the South Quarter Corner of said Section 6;  
 Thence North 42°51'51" West 874.89 feet to the TRUE POINT OF BEGINNING, said point being on the East line of the EP Energy L&P Co. Young 4-6C4 well location use boundary;  
 Thence South 90°00'00" East 516.31 feet;  
 Thence North 00°07'40" West 407.95 feet to an existing road. Said right-of-way being 924.25 feet in length with the sidelines being shortened or elongated to intersect said use area boundary and said road right-of-way lines.

**ADDITIONAL PIPELINE CORRIDOR RIGHT-OF-WAY**  
 A 40 feet wide pipeline right-of-way over portions of Section 6, Township 3 South, Range 4 West of the Uintah Special Base and Meridian, the centerline of which is further described as follows:  
 Commencing at the South Quarter Corner of said Section 6;  
 Thence North 06°11'18" West 611.83 feet to the TRUE POINT OF BEGINNING, said point being on the South line of a previously described access road, pipeline, and power line corridor right-of-way;  
 Thence South 00°18'08" East 608.44 feet. Said right-of-way being 608.44 feet in length with the sidelines being shortened or elongated to intersect said previously described right-of-way.

**SURVEYOR'S CERTIFICATE**  
 This is to certify that this plat was prepared from the field notes and electronic data collector files of an actual survey made by me, or under my personal supervision, of the use area and access road, power line, and pipeline corridor right-of-ways 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.

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



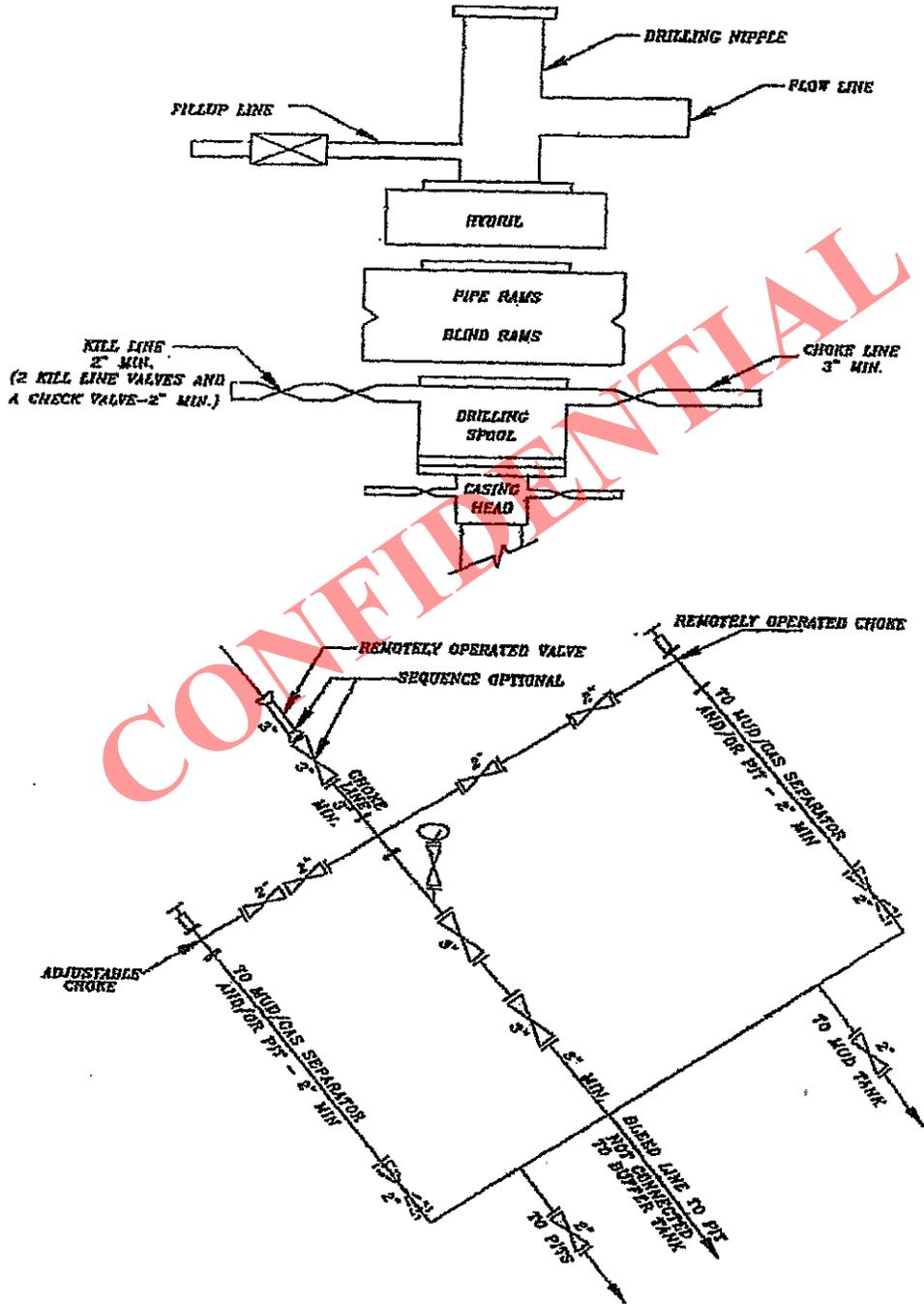
Jerry D. Alford, Professional Land Surveyor,  
 Certificate 148951 (Utah)

REV 10 JAN 2013  
 24 DEC 2012 01-128-356

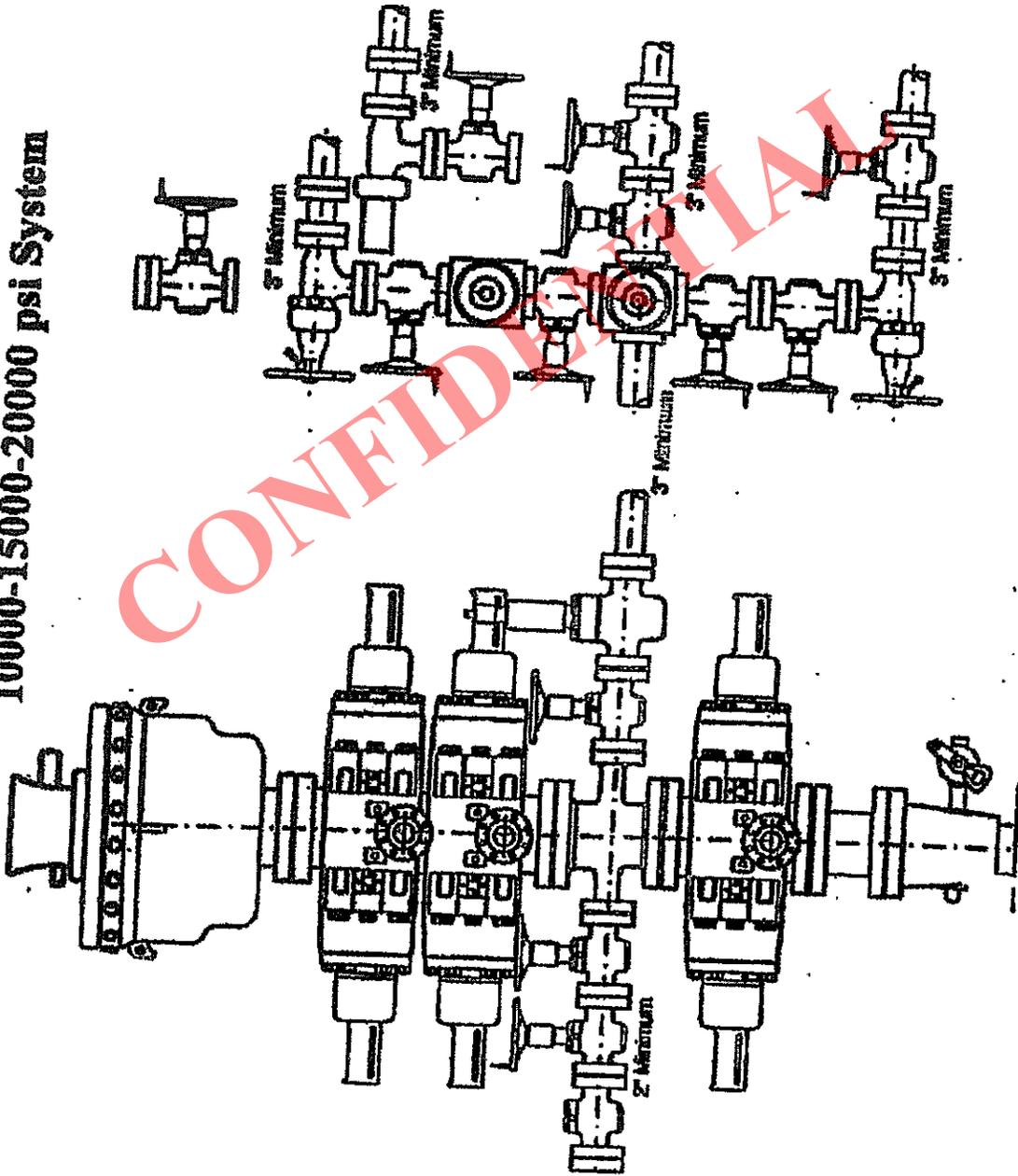
**JERRY D. ALLRED AND ASSOCIATES**  
 SURVEYING CONSULTANTS

1235 NORTH 700 EAST--P.O. BOX 975  
 DUCHESSNE, UTAH 84021  
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# 5M BOP STACK and CHOKE MANIFOLD SYSTEM



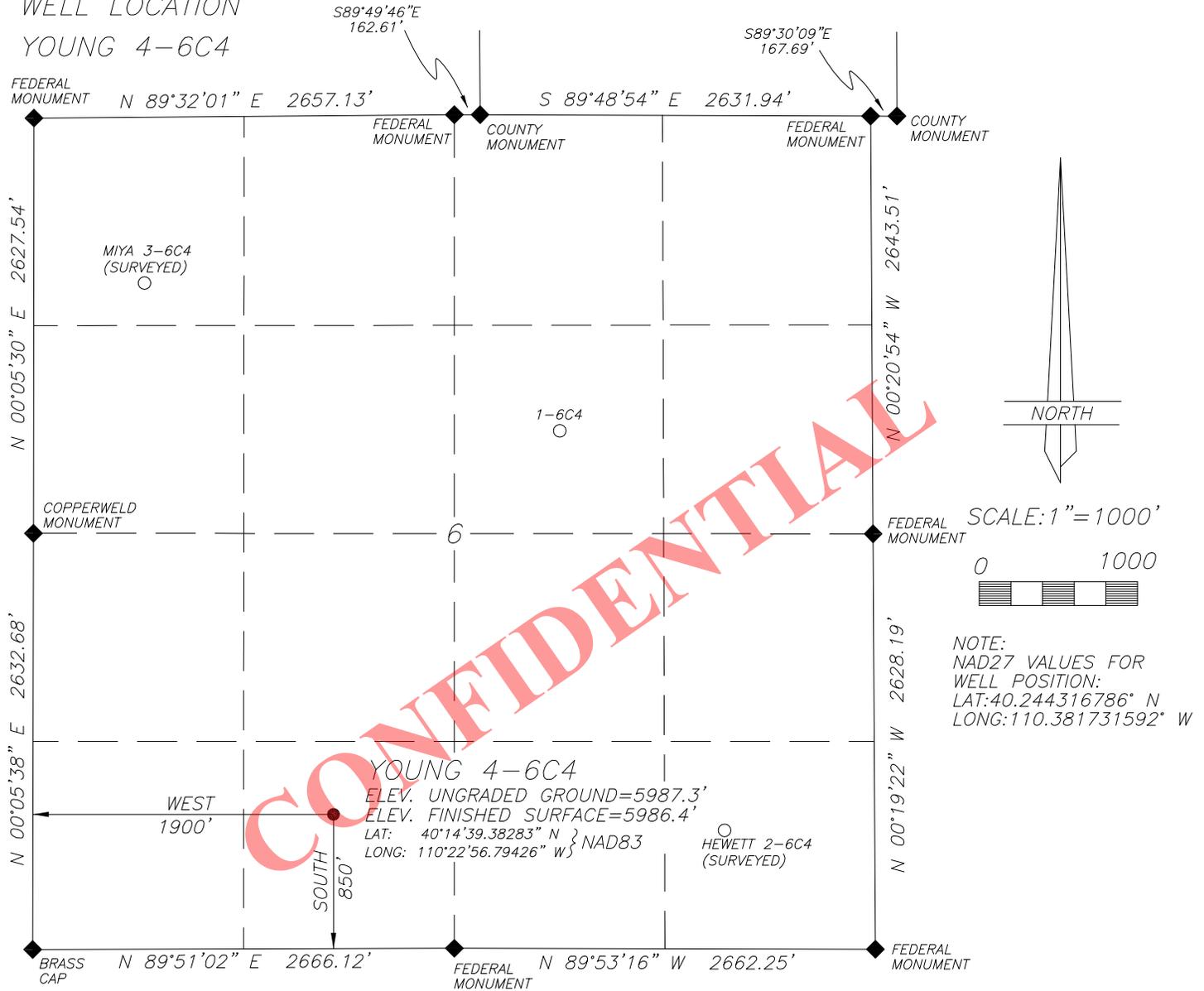
10000-15000-20000 psi System



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

WELL LOCATION  
YOUNG 4-6C4

LOCATED IN THE SE¼ OF THE SW¼ OF SECTION 6, T3S, R4W, U.S.B.&M. DUCHESNE COUNTY, UTAH



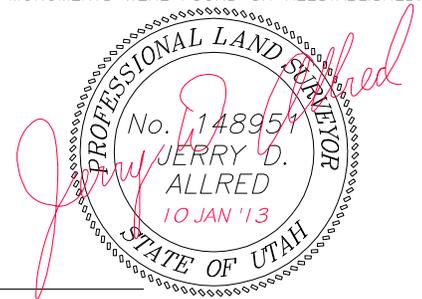
LEGEND AND NOTES

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

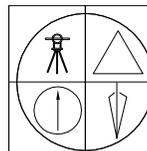
BASIS OF ELEVATIONS: NAVD 88 DATUM USING THE UTAH REFERENCE NETWORK CONTROL SYSTEM

SURVEYOR'S CERTIFICATE

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



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

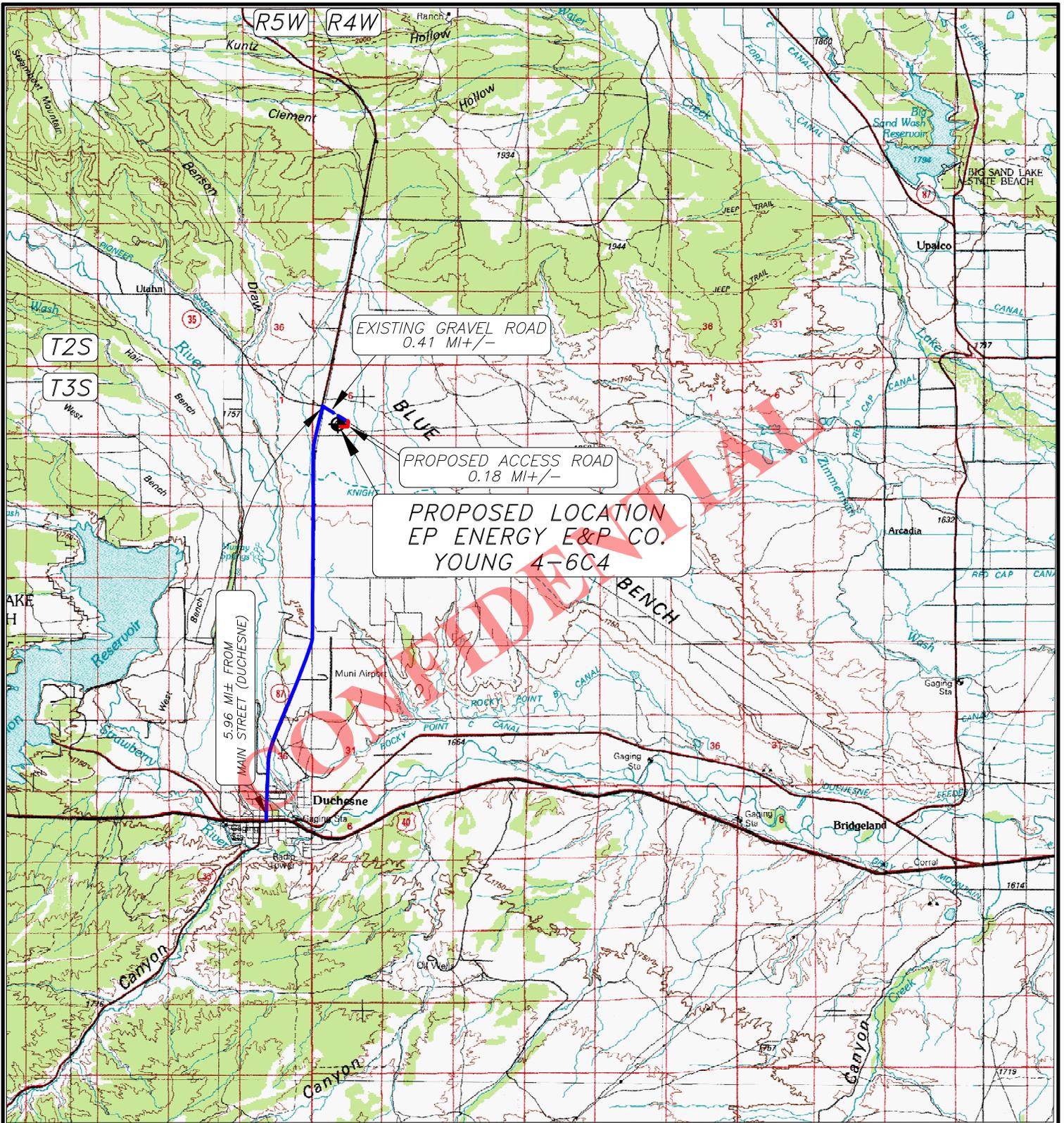


JERRY D. ALLRED & ASSOCIATES  
SURVEYING CONSULTANTS

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

10 JAN 2013 01-128-356

RECEIVED: March 09, 2013



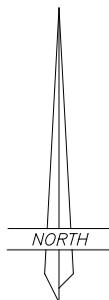
**LEGEND:**

 **PROPOSED WELL LOCATION**

01-128-356

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

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



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

YOUNG 4-6C4

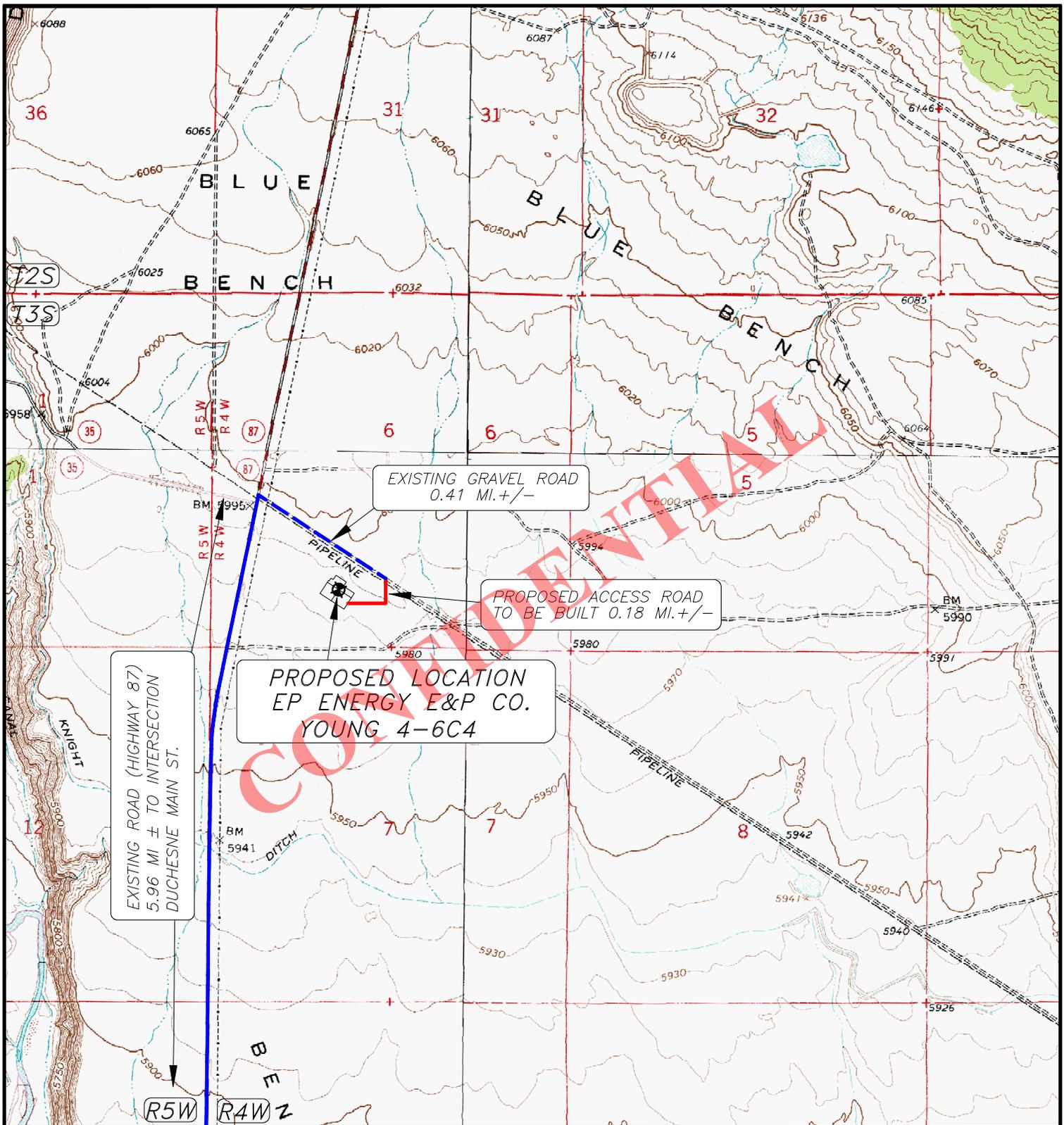
SECTION 6, T3S, R4W, U.S.B.&M.

850' FSL 1900' FWL

**TOPOGRAPHIC MAP "A"**

SCALE; 1"=10,000'

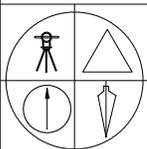
11 JAN 2013



**LEGEND:**

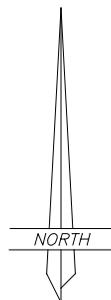
-  PROPOSED WELL LOCATION
-  PROPOSED ACCESS ROAD
-  EXISTING GRAVEL ROAD
-  EXISTING PAVED ROAD

01-128-356



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

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

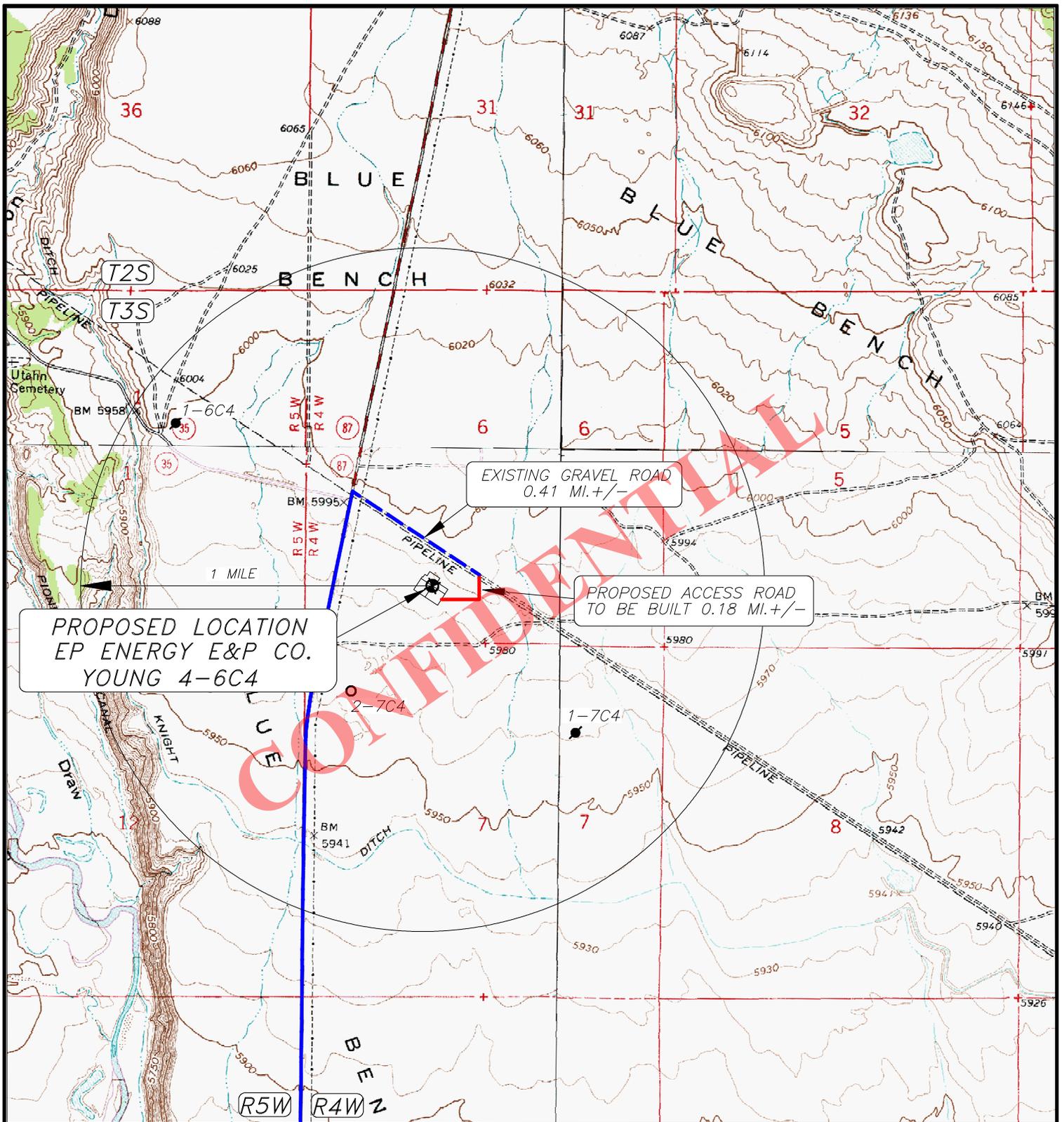


**EP ENERGY E & P COMPANY, L.P.**

YOUNG 4-6C4  
SECTION 6, T3S, R4W, U.S.B.&M.  
850' FSL 1900' FWL

**TOPOGRAPHIC MAP "B"**

SCALE; 1"=2000'  
11 JAN 2013



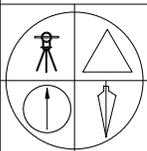
PROPOSED LOCATION  
EP ENERGY E&P CO.  
YOUNG 4-6C4

EXISTING GRAVEL ROAD  
0.41 MI. +/-

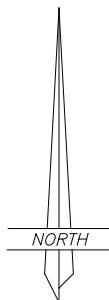
PROPOSED ACCESS ROAD  
TO BE BUILT 0.18 MI. +/-

**LEGEND:**

-  PROPOSED WELL LOCATION
  -  OTHER WELLS AS LOCATED FROM SUPPLIED MAP
- 01-128-356



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



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

YOUNG 4-6C4  
SECTION 6, T3S, R4W, U.S.B.&M.  
850' FSL 1900' FWL

**TOPOGRAPHIC MAP "C"**

SCALE; 1"=2000'  
11 JAN 2013

**AFFIDAVIT OF DAMAGE SETTLEMENT AND RELEASE**

Byron Moos personally appeared before me, and, being duly sworn, deposes and says:

1. My name is Byron Moos. I am over the age of 21 and am an Independent Oil and Gas Landman under contract with Transcontinent Oil Company acting as agent 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 Young 4-6C4 well ("the Well") to be located in the SE/4SW/4 of Section 6, Township 3 South, Range 4 West, USM, Duchesne County, Utah (the "Drill site Location"). The surface owners of the Drill site Location are:

John Russell West and Edra Butterfield West,  
Trustees of the John and Edra West Family Trust, dated April 27, 1988  
1518 Homecoming Avenue  
South Jordan, Utah 84095-4519  
(801) 446-2824

Nancy Stanek  
1934 253<sup>rd</sup> Street  
Lomita, CA 90717-1814  
(310) 326-2357 (310) 614-2531 cell

Melanie Hudnall  
24606 Cypress Street  
Lomita, CA 90717-1412  
(310) 326-3250

James Erwin Miller, Successor Trustee  
of the Dora Louise Miller Trust, dated September 3, 1993  
11940 Pineridge Road  
Sandy, Utah 84094-5629  
(801) 509-0927 cell

Harrison L. Young  
707 Saint Andrews Way  
Lompoc, CA 93436-8316  
(909) 754-7035

Grace M. Creer  
5805 North Rambo Road  
Spokane, WA 99224-9175  
(509) 244-2202

Christine Sayer  
5441 Cameo Road  
Carpinteria, CA 93013-1443  
(719) 337-7697 cell

Caroline S. Eckstrom  
P. O. Box 1512  
Palmer Lake, CO 80133-1512  
(719) 238-2576

Joyce Gaskill  
440 East 6990 South  
Midvale, UT 84047-1645  
(801) 255-0585

Earlene Ballinger  
255 Hobbs Street  
Lebanon, OR 97355-2303  
(541) 570-2929

Gloria Turner  
5607 Diane Circle  
Taylorsville, UT 84123-5370  
(801) 268-0693 (801) 598-5828 cell

Joanne P. Shurtleff  
6256 Gold Medal Drive Apt B111  
Salt Lake City, UT 84129-7035  
(801) 686-2274

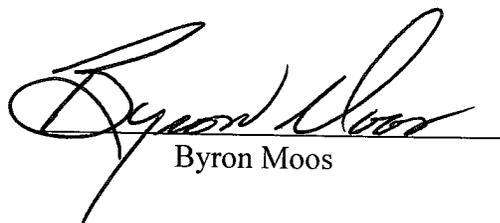
Tracy K. Pike  
9560 Brandy Springs Lane Apt 206  
Sandy, UT 84070-3612  
(801) 518-5380

Donald E. Rutledge & Bonnie P. Rutledge, J/T  
2109 West 7420 South  
West Jordan, UT 84084-3949  
(801) 567-0296 (813) 413-8646-cell

Linda P. Gwynn  
853 North 400 West  
Centerville, UT 84014-1347  
(801) 292-5023

3. EP Energy and the Surface Owners have entered into Damage Settlement and Release Agreements dated January 18, 2013 through February 8, 2013 to cover any and all injuries or damages of every character and description sustained by the Surface Owners or Surface Owner's property as a result of operations associated with the drilling, completion and producing the Well.

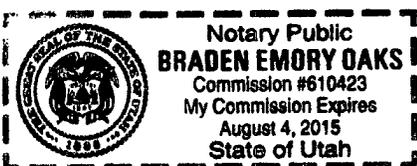
FURTHER AFFIANT SAYETH NOT.

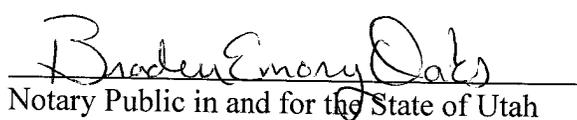
  
Byron Moos

**ACKNOWLEDGMENT**

STATE OF UTAH           §  
                                          §  
COUNTY OF DUCHESNE §

This instrument was acknowledged before me on this the 13<sup>th</sup> day of February, 2013 by Byron Moos as an Independent Landman acting as agent for EP ENERGY E&P COMPANY, L.P on behalf of said partnership and acknowledged to me that he executed the same as his own free and voluntary act and deed for the uses and purposes therein set forth.



  
Notary Public in and for the State of Utah

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 .18 miles in length and 66 feet wide.
- All equipment and vehicles will be confined to the access road, pad and area specified in the APD.

3. **Location Of Existing Wells:**

- Existing oil, gas wells within one (1) mile radius of proposed well are provided in EXHIBIT C.

4. **Location And Type Of Drilling Water Supply:**

- Drilling water: Duchesne City Water

5. **Existing/Proposed Facilities For Productive Well:**

- There are no existing facilities that will be utilized for this well.
- A pipeline corridor .18 miles will parallel the proposed access road. The corridor will contain one 4 inch gas line and one 2 inch gas line and one 2 inch Salt Water disposal line. Rehabilitation of unneeded, previously disturbed areas will consist of backfilling and contouring the reserve pit area; backsloping and contouring all cut and fill slopes. These areas will be reseeded. Refer to plans for reclamation of surface for details.
- Upgrade and maintain access roads and drainage control structures (e.g., culverts, drainage dips, ditching, etc.) as necessary to prevent soil erosion and accommodate safe, year-round traffic.

6. **Construction Materials:**

- Native soil from road and location will be used for construction materials along with gravel and/or scoria road base material. In the event that conditions should necessitate graveling of all or part of the access road and location, surfacing materials will be purchased from commercial suppliers in the marketing area.

7. **Methods For Handling Waste Disposal:**

- The reserve pit will be designed to prevent the collection of surface runoff and will be constructed with a minimum of ½ the total depth below the original ground surface on the lowest point with the pit. The pit will be lined with a 20-mil polyethylene to prevent leakage of fluids. The liner will be rolled into place and secured at the ends, i.e. buried on top of the pit berms. Prior to use, the reserve pit will be fenced on three sides; the fourth side will be fenced at the time the rig is removed. Drilling fluids, cuttings and produced water will be contained in the reserve pit (trash will be placed in the trash cage). Fluids in the reserve pit will be allowed to evaporate prior to pit burial.
- Garbage and other trash will be contained in the portable trash cage and hauled off the location to an authorized disposal site. Any trash on the pad will be cleaned up prior to the rig moving off location and hauled to an authorized disposal site.
- Sewage will be handled in Portable Toilets.
- Produced water will be placed in the reserve pit for a period not to exceed ninety days after initial production. Any hydrocarbons produced during completion work will be contained in test tanks and removed from the location at a later date.
- Water from the reserve pit may be used for drilling of additional wells. The water will be trucked along access roads as approved in pertinent APD's

8. **Ancillary Facilities:**

- There will be no ancillary facilities associated with this project.

**9. Surface Reclamation Plans:**

Backfilling of the pits will be done when dry. In the event of a dry hole, the location will be re-contoured, the topsoil will be distributed evenly over the entire location, and the seedbed prepared.

- Seed will be planted after September 15<sup>th</sup>, and prior to ground frost, or seed will be planted after the frost has left and before May 15<sup>th</sup>. Slopes to steep for machinery will be hand broadcast and raked with twice the specified amount of seed.
  1. The construction program and design are on the attached cut, fill and cross sectional diagrams.
  2. Prior to construction, all topsoil will be removed from the entire site and stockpiled. Topsoil for this site is the first 6 inches of soil materials.
  3. After the location has been reshaped and after redistributing the topsoil, the operator will rip and scarify the drilling platform and access road on the contour, to a depth of at least 12 inches.
- Rehabilitation will begin upon the completion of the drilling. Complete rehabilitation will depend on weather conditions and the amount of time required to dry the reserve pit.
  1. All rehabilitation work including seeding will be completed as soon as weather and the reserve pit conditions are appropriate.
  2. Landowner will be contacted for rehabilitation requirements.

**10. Surface Ownership:**

John Russel & Edra Butterfield West

Trustee of the John & Edra West Family Trust, dated 04/27/88

1518 Homecoming Avenue

South Jordan, UT 84095-4519

801-446-2824

Nancy Stanek

1934 253<sup>rd</sup> Street

Lomita, CA 90717-1412

310-326-2357

James Erwin Miller, Successor Trustee

Of the Dora Louise Miller Trust, dated 09/03/93

11940 Pineridge Road

Sandy, UT 84094-5629

801-509-0927

Melanie Hudnall

24606 Cypress Street

Lomita, CA 90717-1412

310-326-3250

Harrison L. Young

707 Saint Andrew Way

Lompoc, CA 93436-8316

909-754-7035

Grace M. Creer

5805 North Rambo Road

Spokane, WA 99224-9175

509-244-2202

Christine Sayer

5441 Cameo Road

Carpinteria, CA 93013-1443

719-337-7697

Caroline S. Eckstrom

P.O. Box 1512

Palmer Lake, CO 80133-1512

719-238-2576

Joyce Gaskill

440 East 6990 South

Midvale, UT 84047-1645

801-255-0585

Earlene Ballinger

255 Hobbs Street

Lebanon, OR 97355-2303

541-570-2929

Gloria Turner

5607 Diane Circle

Taylorville, UT 84123-5370

801-268-0693

Joanne P. Shurtleff

6256 Gold Medal Drive, Apt B111

Salt Lake City, UT 84129-7035

801-686-2274

Donald E. & Bonnie P. Rutledge, J/T

2109 West 7420 South

West Jordan, UT 84084-3949

801-567-0296

Tracy K. Pike

9560 Brandy Springs Lane, Apt 206

Sandy, UT 84070-3612

801-518-5380

Page 3  
Application for Permit to Drill – State DOGM  
Young 4-6C4  
Duchesne County, Utah

Linda P. Gwynn  
853 North West  
Centerville, UT 84014-1347  
801-292-5023

**Other Information:**

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

• **Operator and Contact Persons:**

**Construction and Reclamation:**

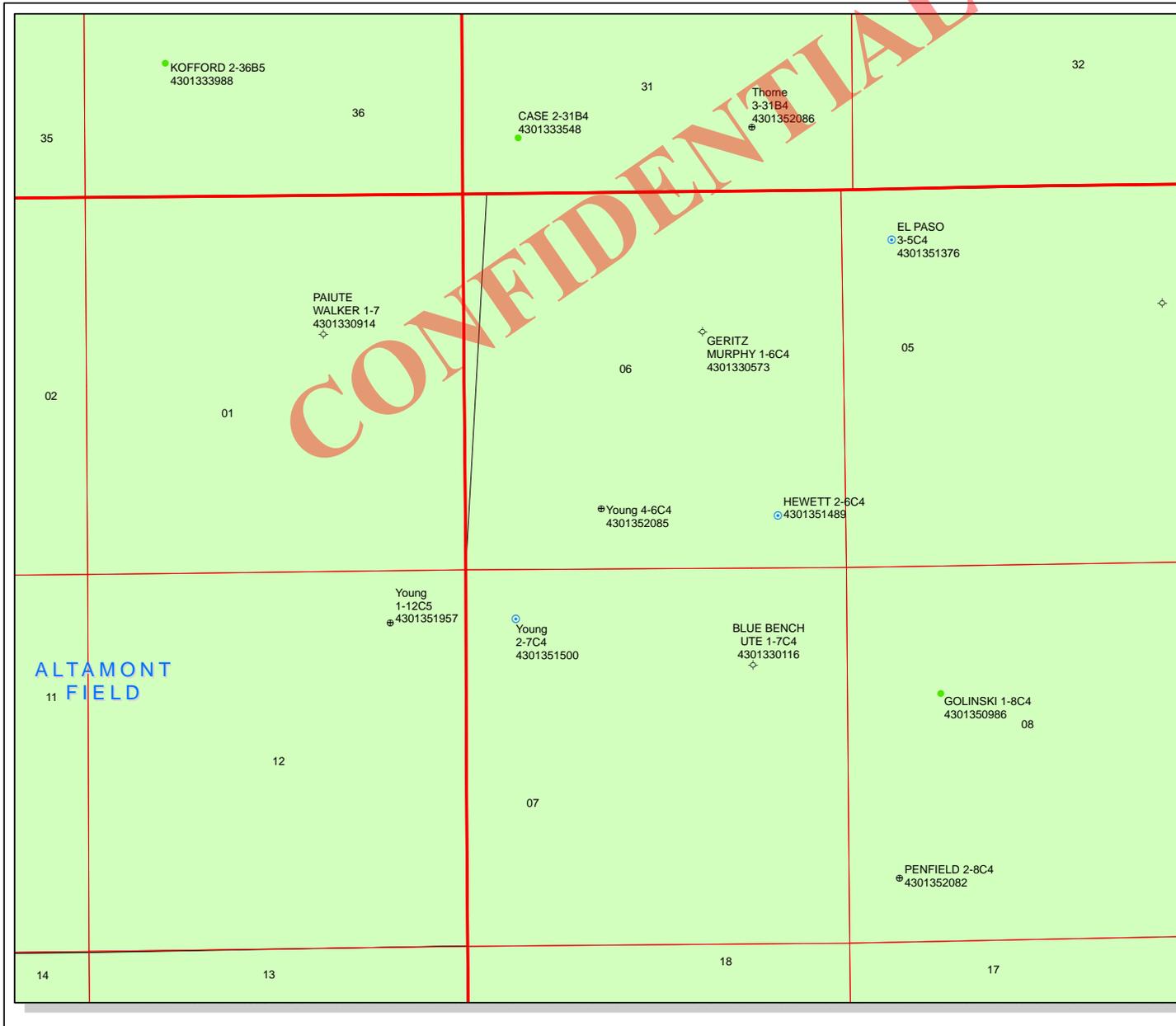
EP Energy E&P Company, L.P.  
Wayne Garner  
PO Box 410  
Altamont, Utah 84001  
435-454-3394 – Office  
435-823-1490 – Cell

**Regarding This APD**

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

**Drilling**

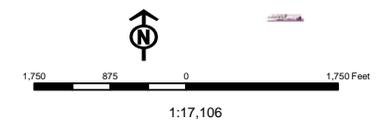
EP Energy E&P Company, L.P.  
Joe Cawthorn – Drilling Engineer  
1001 Louisiana, Rm 2523B  
Houston, Texas 77002  
713-997-5929 – office  
832-465-2882 – Cell



**API Number: 4301352085**  
**Well Name: Young 4-6C4**  
**Township T03.0S Range R04.0W Section 06**  
**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 GEOTHERML
  - PP OIL
  - SECONDARY
  - TERMINATED
- Fields**
- Unknown
  - ABANDONED
  - ACTIVE
  - COMBINED
  - INACTIVE
  - STORAGE
  - TERMINATED



Well Name	EP ENERGY E&P COMPANY, L.P. Young 4-6C4 43013520850000			
String	Cond	Surf	I1	L1
Casing Size(")	13.375	9.625	7.000	4.500
Setting Depth (TVD)	600	3400	9400	12500
Previous Shoe Setting Depth (TVD)	0	600	3400	9400
Max Mud Weight (ppg)	8.8	9.5	11.0	13.5
BOPE Proposed (psi)	1000	5000	5000	10000
Casing Internal Yield (psi)	2730	5750	11220	12410
Operators Max Anticipated Pressure (psi)	8775			13.5

Calculations	Cond String	13.375	"
Max BHP (psi)	.052*Setting Depth*MW=	275	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	203	YES <input type="checkbox"/> 4.5" by 20.0" rotating head
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	143	YES <input type="checkbox"/> OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	143	NO <input type="checkbox"/> OK <input type="checkbox"/>
Required Casing/BOPE Test Pressure=		600	psi
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi *Assumes 1psi/ft frac gradient

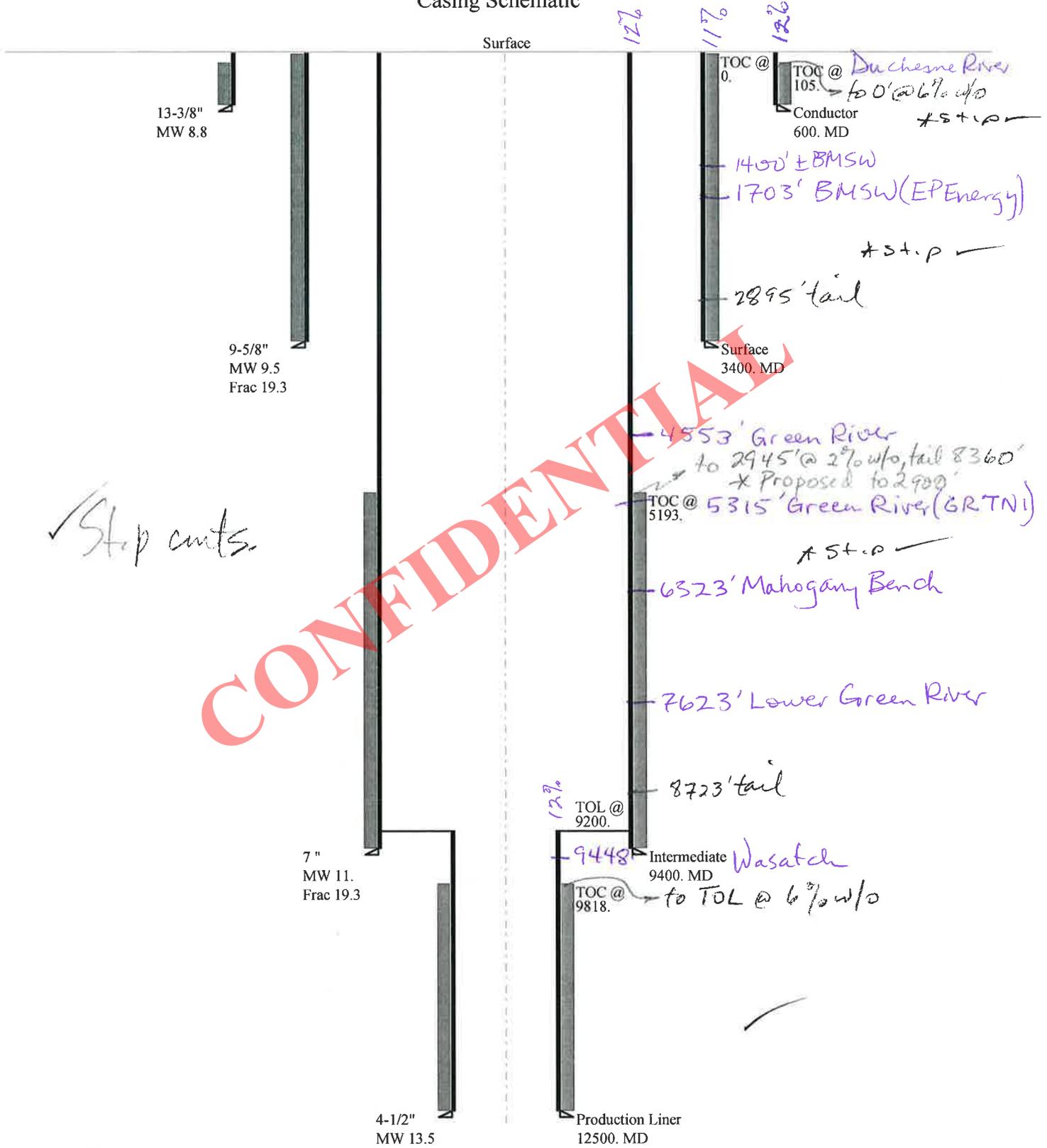
Calculations	Surf String	9.625	"
Max BHP (psi)	.052*Setting Depth*MW=	1680	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	1272	YES <input type="checkbox"/> 4.5 x 13 3/8
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	932	YES <input type="checkbox"/> OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	1064	NO <input type="checkbox"/> OK <input type="checkbox"/>
Required Casing/BOPE Test Pressure=		3400	psi
*Max Pressure Allowed @ Previous Casing Shoe=		600	psi *Assumes 1psi/ft frac gradient

Calculations	I1 String	7.000	"
Max BHP (psi)	.052*Setting Depth*MW=	5377	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	4249	YES <input type="checkbox"/> 5M BOP stack, 5M Annular, 5M kill lines,
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	3309	YES <input type="checkbox"/> choke manifold
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	4057	NO <input type="checkbox"/> OK <input type="checkbox"/>
Required Casing/BOPE Test Pressure=		7854	psi
*Max Pressure Allowed @ Previous Casing Shoe=		3400	psi *Assumes 1psi/ft frac gradient

Calculations	L1 String	4.500	"
Max BHP (psi)	.052*Setting Depth*MW=	8775	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	7275	YES <input type="checkbox"/> 10M BOE w/rotating head, 5M annular, blind
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	6025	YES <input type="checkbox"/> rams & mud cross
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	8093	YES <input type="checkbox"/> OK <input type="checkbox"/>
Required Casing/BOPE Test Pressure=		8687	psi
*Max Pressure Allowed @ Previous Casing Shoe=		9400	psi *Assumes 1psi/ft frac gradient

# 43013520850000 Young 4-6C4

## Casing Schematic



✓ Stop cuts.

CONFIDENTIAL

Well name:	<b>43013520850000 Young 4-6C4</b>		
Operator:	<b>EP ENERGY E&amp;P COMPANY, L.P.</b>		
String type:	Conductor	Project ID:	43-013-52085
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: 82 °F  
 Temperature gradient: 1.40 °F/100ft  
 Minimum section length: 1,000 ft

Cement top: 105 ft

**Burst**

Max anticipated surface pressure: 202 psi  
 Internal gradient: 0.120 psi/ft  
 Calculated BHP 274 psi

No backup mud specified.

**Tension:**

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

**Non-directional string.**

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

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	600	13.375	54.50	J-55	ST&C	600	600	12.49	7445
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	274	1130	4.120	274	2730	9.95	32.7	514	15.72 J

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

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

Date: April 24, 2013  
 Salt Lake City, Utah

**Remarks:**

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

Burst strength is not adjusted for tension.

Well name:	<b>43013520850000 Young 4-6C4</b>	
Operator:	<b>EP ENERGY E&amp;P COMPANY, L.P.</b>	
String type:	Surface	Project ID: 43-013-52085
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: 122 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 100 ft

Cement top: Surface

**Burst**

Max anticipated surface pressure: 2,652 psi  
Internal gradient: 0.220 psi/ft  
Calculated BHP 3,400 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: 2,920 ft

**Non-directional string.**

**Re subsequent strings:**

Next setting depth: 9,400 ft  
Next mud weight: 11.000 ppg  
Next setting BHP: 5,371 psi  
Fracture mud wt: 19.250 ppg  
Fracture depth: 3,400 ft  
Injection pressure: 3,400 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	3400	9.625	40.00	N-80	LT&C	3400	3400	8.75	43264
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	1678	3090	1.842	3400	5750	1.69	136	737	5.42 J

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

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

Date: April 24, 2013  
Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 3400 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.

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

Well name:	<b>43013520850000 Young 4-6C4</b>		
Operator:	<b>EP ENERGY E&amp;P COMPANY, L.P.</b>		
String type:	Intermediate	Project ID:	43-013-52085
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: 206 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 1,000 ft

Cement top: 5,193 ft

**Burst**

Max anticipated surface pressure: 6,016 psi  
Internal gradient: 0.220 psi/ft  
Calculated BHP 8,084 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: 7,835 ft

**Non-directional string.**

**Re subsequent strings:**

Next setting depth: 12,500 ft  
Next mud weight: 13.500 ppg  
Next setting BHP: 8,766 psi  
Fracture mud wt: 19.250 ppg  
Fracture depth: 9,400 ft  
Injection pressure: 9,400 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	9400	7	29.00	P-110	LT&C	9400	9400	6.059	106150
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	5371	8530	1.588	8084	11220	1.39	272.6	797	2.92 J

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

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

Date: April 24, 2013  
Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 9400 ft, a mud weight of 11 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

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

Well name:	<b>43013520850000 Young 4-6C4</b>	
Operator:	<b>EP ENERGY E&amp;P COMPANY, L.P.</b>	
String type:	Production Liner	Project ID: 43-013-52085
Location:	DUCHESNE COUNTY	

**Design parameters:**

**Collapse**

Mud weight: 13.500 ppg  
Design is based on evacuated pipe.

**Burst**

Max anticipated surface pressure: 6,016 psi  
Internal gradient: 0.220 psi/ft  
Calculated BHP: 8,766 psi

No backup mud specified.

**Minimum design factors:**

**Collapse:**

Design factor: 1.125

**Burst:**

Design factor: 1.00

**Tension:**

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

Tension is based on air weight.  
Neutral point: 11,842 ft

**Environment:**

H2S considered? No  
Surface temperature: 74 °F  
Bottom hole temperature: 249 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 1,000 ft

Cement top: 9,818 ft

Liner top: 9,200 ft

**Non-directional string.**

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	3300	4.5	13.50	P-110	LT&C	12500	12500	3.795	18491
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	8766	10680	1.218	8766	12410	1.42	44.5	338	7.59 J

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

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

Date: April 24, 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 12500 ft, a mud weight of 13.5 ppg. The Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

# ON-SITE PREDRILL EVALUATION

## Utah Division of Oil, Gas and Mining

**Operator** EP ENERGY E&P COMPANY, L.P.  
**Well Name** Young 4-6C4  
**API Number** 43013520850000      **APD No** 7786      **Field/Unit** ALTAMONT  
**Location: 1/4,1/4** SESW      **Sec** 6      **Tw** 3.0S      **Rng** 4.0W      850      **FSL** 1900      **FWL**  
**GPS Coord (UTM)**      **Surface Owner** John R & Edra B West, Trustees

### Participants

Donald Eugene Rutledge (landowner); Wayne Garner (E&P Energy); Dennis Ingram (DOG M)

### Regional/Local Setting & Topography

The Young 2-6C4 is proposed in northeastern Utah in the Uintah Basin approximately 5.96 miles north of Duchesne by driving north on U.S. Highway 87 on Blue Bench, then 0.41 miles southeast along a county road. Blue Bench is a broad, dry, sagebrush mesa that is mostly undeveloped and void of surface water or trees. The Duchesne River Drainage is located approximately two plus miles west of this well site and drains the Uinta Mountains southerly until it reaches the town of Duchesne, then turns east where it joins the Strawberry River and flows toward Myton Utah. Several miles north of this site the elevation rises into broken, shelf like sandstone benches that are commonly found throughout much of Utah's pinion juniper habitat between the farmlands and quaken aspen stands. The Blue Bench was historically utilized to grow alfalfa after the construction of an irrigation canal from Rock Creek, thus the name "Blue Bench."

### Surface Use Plan

#### **Current Surface Use**

Recreational  
Wildlfe Habitat

#### **New Road Miles**

0.18

#### **Well Pad**

**Width** 342      **Length** 425

#### **Src Const Material**

Onsite

#### **Surface Formation**

UNTA

**Ancillary Facilities** N

**Waste Management Plan Adequate?** Y

### Environmental Parameters

**Affected Floodplains and/or Wetlands** N

#### **Flora / Fauna**

Sagebrush, greasewood, Prickly Pear Cactus; potential winter range for mule deer, coyote, fox, rabbit and other smaller mammals, birds native to region, area void of perching or nesting potential unless man made.

#### **Soil Type and Characteristics**

Fine-grained, reddish in color, blow sand

#### **Erosion Issues** Y

On sloped area after removing vegetation covering

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

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

**Characteristics / Requirements**

Proposed on the north side of location in cut, measuring 150' long by 110' wide by 12' deep, and having prevailing winds from the west.

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

Landowner agreement in place, surface is a trust. Access road down the west side of pipeline right-of-way where a power line has been installed.

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
7786	43013520850000	LOCKED	OW	P	No
<b>Operator</b>	EP ENERGY E&P COMPANY, L.P.		<b>Surface Owner-APD</b>	John R & Edra B West, Trustees	
<b>Well Name</b>	Young 4-6C4		<b>Unit</b>		
<b>Field</b>	ALTAMONT		<b>Type of Work</b>	DRILL	
<b>Location</b>	SESW 6 3S 4W U 850 FSL 1900 FWL GPS Coord (UTM) 552527E 4455053N				

### Geologic Statement of Basis

EP proposes to set 600 feet of conductor and 3,400 feet of surface casing both of which will be cemented to surface. The surface and intermediate holes will be drilled utilizing fresh water mud. The estimated depth to the base of moderately saline ground water is 1,400 feet. A search of Division of Water Rights records indicates that there are 15 water wells within a 10,000 foot radius of the center of Section 6. Wells range between 52 and 540 feet in depth and are used for irrigation, stock watering, domestic, industrial and municipal. These wells probably produce from the Duchesne River Formation. The Duchesne River Formation is made up of sandstones with interbedded shales and is the most prominent fresh water aquifer in the area. The proposed casing and cement program should adequately protect ground water in this area.

Brad Hill  
APD Evaluator

4/11/2013  
Date / Time

### Surface Statement of Basis

A presite visit was scheduled for May 2, 2012 with the operator and two landowners to take input and address issues concerning the construction and drilling of the Young 4-6C4 well. The surface is under a trust ownership with nearly a dozen different family landowners, most of which were contacted and invited to the meeting. Donald Eugene Rutledge was the only landowner that was able to attend the presite. A landowner or surface use agreement is in place between the surface owners and E&P Energy, and there wasn't any issues mentioned at the presite meeting.

The surface area is nearly flat and void of trees, but has small sand hills along the northern portion of the proposed pit area. Some sand has been removed from most of this site, possibly by the state road department. There aren't any drainages issues. The reserve pit is in cut on the northeast side of the location, and has reddish blow sand at the surface with potential for underlying sandstone. Therefore, the operator needs to install a 20 mil synthetic liner in the reserve to prevent fluids from subbing away. The reserve pit shall be fenced to keep the public or wildlife from entering same. No other issues were noted.

Dennis Ingram  
Onsite Evaluator

4/3/2013  
Date / Time

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

Category	Condition
----------	-----------

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

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## WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 3/9/2013

API NO. ASSIGNED: 43013520850000

WELL NAME: Young 4-6C4

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

PHONE NUMBER: 713 997-5038

CONTACT: Maria S. Gomez

PROPOSED LOCATION: SESW 06 030S 040W

Permit Tech Review: 

SURFACE: 0850 FSL 1900 FWL

Engineering Review: 

BOTTOM: 0850 FSL 1900 FWL

Geology Review: 

COUNTY: DUCHESNE

LATITUDE: 40.24428

LONGITUDE: -110.38244

UTM SURF EASTINGS: 552527.00

NORTHINGS: 4455053.00

FIELD NAME: ALTAMONT

LEASE TYPE: 4 - Fee

LEASE NUMBER: Fee

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

SURFACE OWNER: 4 - Fee

COALBED METHANE: NO

## RECEIVED AND/OR REVIEWED:

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

Commingling Approved

## LOCATION AND SITING:

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

Comments: Presite Completed

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



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:** Young 4-6C4  
**API Well Number:** 43013520850000  
**Lease Number:** Fee  
**Surface Owner:** FEE (PRIVATE)  
**Approval Date:** 4/30/2013

### 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 139-90. The expected producing formation or pool is the GREEN RIVER(LWR)-WASATCH Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

### Duration:

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

### General:

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

### Conditions of Approval:

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

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

Cement volume for the 7" casing string shall be determined from actual hole diameter in order to place cement from the pipe setting depth back to 2900' MD as indicated in the submitted drilling plan.

### Additional Approvals:

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

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

**Notification Requirements:**

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

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

**Contact Information:**

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

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

**Reporting Requirements:**

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

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

Approved By:

**Approved by:**

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

For John Rogers  
Associate Director, Oil & Gas



SESU SOB TAZS ROYUW

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**24 Hr Notice of Run'g, Cmt'g of 9 5/8" Surface Csg. Will test 11" 5K BOPE 12 Hrs later.**

*Dry Hole Spud - 8-5-2013*

RLANDRIG008 <RLANDRIG008@epenergy.com>

Wed, Aug 7, 2013 at 6:36 AM

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

24 Hr Notice of Running and Cementing of 9 5/8" Surface Casing. Will test 11" 5K BOPE 12 Hrs later.

Well: Young 4-6C4

~~API # 43013520850000~~

County: Duchesne

Rig: Precision Drilling Rig #404

Best Regards

Steve Murphy

RLANDRIG008@ELPASO.COM

RIG PHONE 435-823-1726

HAND HELD 435-823-1725

PRECISION DRILLING RIG 404

RECEIVED

AUG 07 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.	5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
1. TYPE OF WELL Oil Well	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.	7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 1001 Louisiana , Houston, TX, 77002	8. WELL NAME and NUMBER: Young 4-6C4
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0850 FSL 1900 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESW Section: 06 Township: 03.0S Range: 04.0W Meridian: U	9. API NUMBER: 43013520850000
3. ADDRESS OF OPERATOR: 1001 Louisiana , Houston, TX, 77002	PHONE NUMBER: 713 997-5038 Ext
9. FIELD and POOL or WILDCAT: ALTAMONT	COUNTY: DUCHESNE
STATE: UTAH	STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <b>9/10/2013</b>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="Initial Completion"/>

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

**Approved by the Utah Division of Oil, Gas and Mining**  
**Date: September 09, 2013**  
**By: Derek Duff**

NAME (PLEASE PRINT) Maria S. Gomez	PHONE NUMBER 713 997-5038	TITLE Principal Regulatory Analyst
SIGNATURE N/A	DATE 9/9/2013	

**Young 4-6C4  
Initial Completion  
43-013-52085**

**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 ~12,014' – 11,662' 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 @ ~11,640'. Test CBP and casing to 8,500 psi. Perforations from ~11,300' – 11,630' with ~5,000 gallons of 15% HCL acid, ~3,000# of 100 mesh sand and ~145,000# PowerProp 20/40.
- Stage 3: RU WL unit with 10K lubricator and test to 10,000 psi with water. Set 10K CBP @ ~11,221'. Test CBP and casing to 8,500 psi. Perforations from ~10,905 – 11,211' with ~5,000 gallons of 15% HCL acid, ~3,000# of 100 mesh sand and ~150,000# PowerProp 20/40.
- Stage 4: RU 10K lubricator and test to 10,000 psi with water. Set 10K CBP @ ~10,899'. Test CBP and casing to 8,500 psi. Perforations from ~10,682' – 10,889' with ~5,000 gallons of 15% HCL acid, ~3,000# of 100 mesh sand and ~145,000# PowerProp 20/40.
- Stage 5: RU 10K lubricator and test to 10,000 psi with water. Set 10K CBP @ ~10,668'. Test CBP and casing to 8,500 psi. Perforations from ~10,465' – 10,658' with ~5,000 gallons of 15% HCL acid, ~3,000# of 100 mesh sand and ~140,000# PowerProp 20/40.
- Stage 6: RU 10K lubricator and test to 10,000 psi with water. Set 10K CBP @ ~10,430'. Test CBP and casing to 8,500 psi. Perforations from ~10,096' – 10,420' with ~5,000 gallons of 15% HCL acid, ~3,000# of 100 mesh sand and ~160,000# PowerProp 20/40.

Stage 7: RU 10K lubricator and test to 10,000 psi with water. Set 10K CBP @ ~10,090'. Test CBP and casing to 8,500 psi. Perforations from ~9,777' – 10,078' with ~5,000 gallons of 15% HCL acid, ~3,000# of 100 mesh sand and ~160,000# PowerProp 20/40.

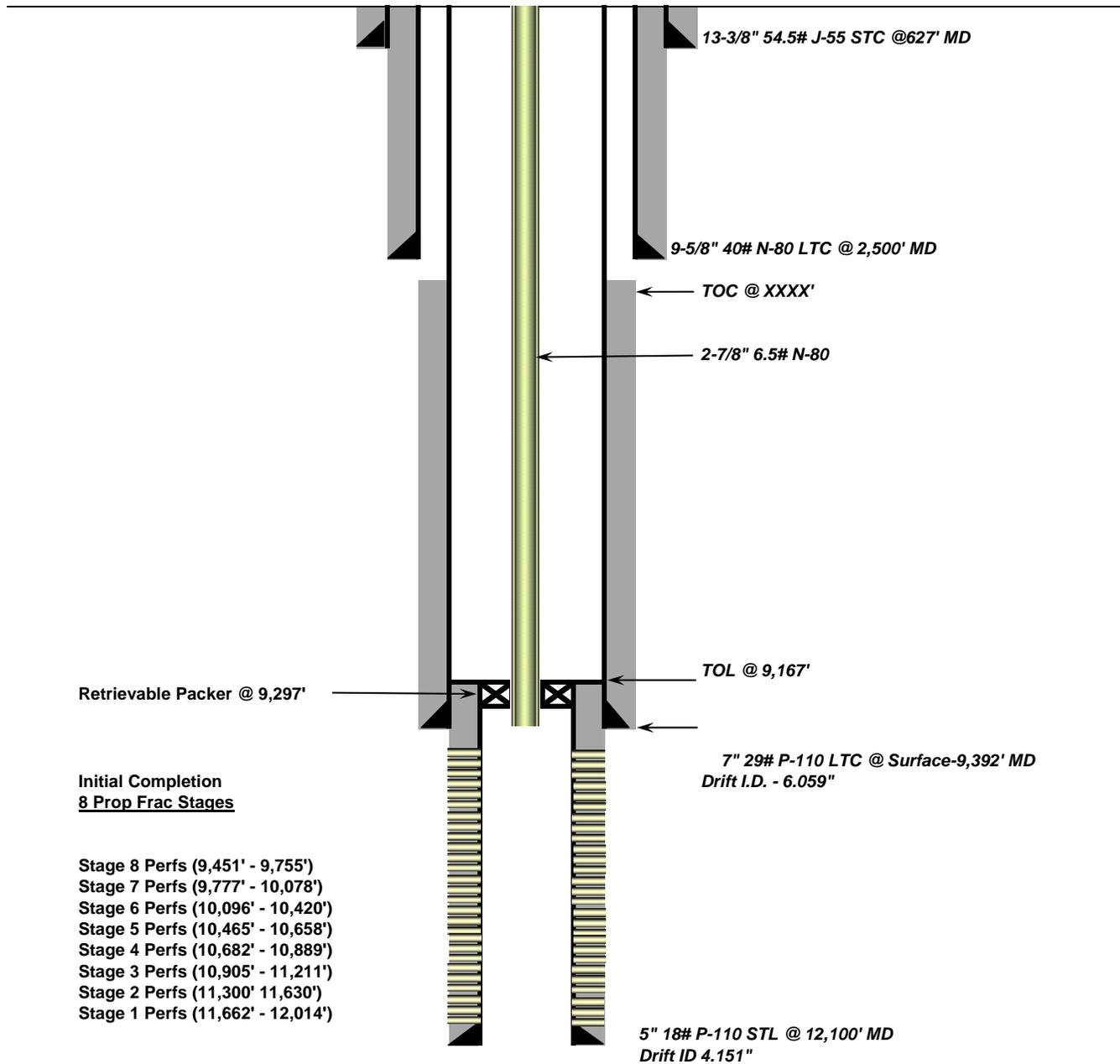
Stage 8: RU 10K lubricator and test to 10,000 psi with water. Set 10K CBP @ ~9,765'. Test CBP and casing to 8,500 psi. Perforations from ~9,451' – 9,755' with ~5,000 gallons of 15% HCL acid, ~3,000# of 100 mesh sand and ~160,000# PowerProp 20/40.



**Initial Completion Wellbore Schematic**

Company Name: EP Energy  
Well Name: Young 4-6C4  
Field, County, State: Altamont - Bluebell, Duchesne, Utah  
Surface Location: Lat: 40° 13' 39.382" N Long: 110° 22' 56.794" W  
Producing Zone(s): Wasatch

Last Updated: 8/23/2013  
By: Robert Fondren  
TD: 12,100'  
BHL: \_\_\_\_\_  
Elevation: \_\_\_\_\_





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**24 Hr Notice of Run'g, Cmt'g of 9 5/8" Surface Csg. Will test 11" 5K BOPE 12 Hrs later.**

*Dry Hole Spud - 8-5-2013*

RLANDRIG008 <RLANDRIG008@epenergy.com>

Wed, Aug 7, 2013 at 6:36 AM

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

24 Hr Notice of Running and Cementing of 9 5/8" Surface Casing. Will test 11" 5K BOPE 12 Hrs later.

Well: Young 4-6C4

~~API # 43013520850000~~

County: Duchesne

Rig: Precision Drilling Rig #404

Best Regards

Steve Murphy

RLANDRIG008@ELPASO.COM

RIG PHONE 435-823-1726

HAND HELD 435-823-1725

PRECISION DRILLING RIG 404

RECEIVED

AUG 07 2013

DIV. OF OIL, GAS & MINING



SESU 5-00 T 033 R 04W

CONFIDENTIAL

**24 Hr Notice of Running and cementing of 7" Intermediate Casing of the following well below.**

RLANDRIG008 <RLANDRIG008@epenergy.com>

Thu, Aug 15, 2013 at 7:00 AM

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

Aug. 14, 2013

Subject: 24 Hr Notice of Running and Cementing of 7" Intermediate Casing. Will test 11" 10K BOPE 12 Hrs later.

Well: Young 4-6C4

API # 43013520850000

County: Duchesne

Rig: Precision Drilling Rig #404

Best Regards

Steve Murphy

RECEIVED

AUG 15 2013

DIV. OF OIL, GAS & MINING

RLANDRIG008@ELPASO.COM

RIG PHONE 435-823-1726

HAND HELD 435-823-1725

PRECISION DRILLING RIG 404

THIS E-MAIL AND ANY MATERIALS TRANSMITTED WITH IT MAY CONTAIN CONFIDENTIAL OR PROPRIETARY MATERIAL FOR THE

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

AMENDED REPORT  FORM 8  
(highlight changes)

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

5. LEASE DESIGNATION AND SERIAL NUMBER:

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT or CA AGREEMENT NAME

8. WELL NAME and NUMBER:  
Young 4-6C4

9. API NUMBER:  
4301352085

10. FIELD AND POOL, OR WLD/CAT:  
Altamont

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:  
SESW 6 3S 4W U

12. COUNTY: Duchesne 13. STATE: UTAH

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  OTHER \_\_\_\_\_

b. TYPE OF WORK: NEW WELL  HORIZ. LATS.  DEEP-EN  RE-ENTRY  DIFF. RESVR.  OTHER \_\_\_\_\_

2. NAME OF OPERATOR:  
EP Energy E&P Company, L.P.

3. ADDRESS OF OPERATOR:  
1001 Louisiana CITY Houston STATE TX ZIP 77002

PHONE NUMBER:  
(713) 997-5038

4. LOCATION OF WELL (FOOTAGES)  
AT SURFACE: 850 FSL & 1900 FWL  
AT TOP PRODUCING INTERVAL REPORTED BELOW: 850 FSL & 1900 FWL  
AT TOTAL DEPTH: 850 FSL & 1900 FWL

14. DATE SPURRED: 8/2/2013 15. DATE T.D. REACHED: 8/24/2013 16. DATE COMPLETED: 9/14/2013

ABANDONED  READY TO PRODUCE

17. ELEVATIONS (DF, RKB, RT, GL): 5986

18. TOTAL DEPTH: MD 12.100 TVD 12.096 19. PLUG BACK T.D.: MD TVD 20. IF MULTIPLE COMPLETIONS, HOW MANY? \* 21. DEPTH BRIDGE PLUG SET: MD TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)  
Sonic, Gamma Ray, Resistivity & Neutron Density

23. WAS WELL CORED? NO  YES  (Submit analysis)  
WAS DST RUN? NO  YES  (Submit report)  
DIRECTIONAL SURVEY? NO  YES  (Submit copy)

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

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
17.5	13.375 J55	54.5	0	630		G 795	914	0	
12.25	9.625 N80	40	0	2,500		G 635	1,410	0	
8.75	7" P110	29	0	9,392		G 620	1,402	1063	
6.125	5 P110	18	9,168	12,098		A 185	272	9400	

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

26. PRODUCING INTERVALS 27. PERFORATION RECORD

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) Wasatch	9,464	12,012	9,462	12,008	11,663 12,012	.38	24	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(B)					11,300 11,630	.38	69	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(C)					10,905 11,211	.38	69	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(D)					10,684 10,887	.38	69	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>

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

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
11663-12012	5000 gal 15% HCL, 3000# 100 Mesh, 14990# 20/40 Power Prop
11300-11630	5000 gal 15% HCL, 3000# 100 Mesh, 145200# 20/40 Power Prop
10905-11211	5000 gal 15% HCL, 3000# 100 Mesh, 152500# 20/40 Power Prop

29. ENCLOSED ATTACHMENTS: All logs are submitted to UDOGM by vendor.

30. WELL STATUS: Producing

ELECTRICAL/MECHANICAL LOGS  GEOLOGIC REPORT  DST REPORT  DIRECTIONAL SURVEY  
 SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION  CORE ANALYSIS  OTHER: \_\_\_\_\_

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 9/15/2013	TEST DATE: 9/22/2013	HOURS TESTED: 24	TEST PRODUCTION RATES: →	OIL – BBL: 459	GAS – MCF: 529	WATER – BBL: 558	PROD. METHOD: Flowing			
CHOKE SIZE: 14	TBG. PRESS. 2,250	CSG. PRESS.	API GRAVITY 44.70	BTU – GAS 1	GAS/OIL RATIO 1	24 HR PRODUCTION RATES: →	OIL – BBL: 459	GAS – MCF: 529	WATER – BBL: 558	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	4,543
				Middle Green River	6,319
				Lower Green River	7,630
				Wasatch	9,464

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 12/20/13

This report must be submitted within 30 days of

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

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

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

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

**Attachment to Well Completion Report****Form 8 Dated December 18, 2013****Well Name: Young 4-6C4****Items #27 and #28 Continued****27. Perforation Record**

<b>Interval (Top/Bottom – MD)</b>	<b>Size</b>	<b>No. of Holes</b>	<b>Perf. Status</b>
<b>10465'-10658'</b>	<b>.38</b>	<b>69</b>	<b>Open</b>
<b>10096'-10420'</b>	<b>.38</b>	<b>69</b>	<b>Open</b>
<b>9777'-10078'</b>	<b>.38</b>	<b>69</b>	<b>Open</b>
<b>9451'-9755'</b>	<b>.38</b>	<b>69</b>	<b>Open</b>

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

<b>Depth Interval</b>	<b>Amount and Type of Material</b>
<b>10684'-10887'</b>	<b>5000 gal 15% HCL, 3000# 100 Mesh, 147224# 20/40 Power Prop</b>
<b>10465'-10658'</b>	<b>5000 gal 15% HCL, 3000# 100 Mesh, 138800# 20/40 Power Prop</b>
<b>10096'-10420'</b>	<b>5000 gal 15% HCL, 3000# 100 Mesh, 160380# 20/40 Power Prop</b>
<b>9777'-10078'</b>	<b>5000 gal 15% HCL, 3000# 100 Mesh, 159650# 20/40 Tempered LC</b>
<b>9451'-9755'</b>	<b>5000 gal 15% HCL, 3420# 100 Mesh, 160240# 20/40 Tempered LC</b>

## CENTRAL DIVISION

ALTAMONT FIELD  
YOUNG 4-6C4  
YOUNG 4-6C4  
YOUNG 4-6C4

### **Deviation 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	YOUNG 4-6C4	Wellbore No.	OH
Wellbore Legal Name	YOUNG 4-6C4	Common Wellbore Name	YOUNG 4-6C4
Project	ALTAMONT FIELD	Site	YOUNG 4-6C4
Vertical Section Azimuth		North Reference	True
Origin N/S		Origin E/W	
Spud Date/Time	8/5/2013	UWI	YOUNG 4-6C4
Active Datum	KB @6,003.4ft (above Mean Sea Level)		

**2 Survey Name****2.1 Survey Name: Gyro Surface**

Survey Name	Gyro Surface	Company	VAUGHN ENERGY SERVICES LLC (GYRO TECHNOLOGIES INC)
Started	8/6/2013	Ended	8/7/2013
Tool Name	GMS	Engineer	Jay Hinman

**2.1.1 Tie On Point**

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)
0.0	0.00	0.00	0.0	0.00	0.00

**2.1.2 Survey Stations**

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
8/6/2013	Tie On	0.0	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8/6/2013	NORMAL	100.0	0.19	295.06	100.0	0.07	-0.15	0.07	0.19	0.19	0.00	295.06
	NORMAL	200.0	0.29	328.10	200.0	0.36	-0.44	0.36	0.17	0.10	33.04	71.98
	NORMAL	300.0	0.27	108.67	300.0	0.50	-0.35	0.50	0.53	-0.02	140.57	161.01
	NORMAL	400.0	0.30	289.14	400.0	0.51	-0.37	0.51	0.57	0.03	-179.53	-179.75
	NORMAL	500.0	0.32	225.68	500.0	0.40	-0.82	0.40	0.32	0.01	-63.46	-119.47
	NORMAL	600.0	0.31	147.16	600.0	-0.01	-0.87	-0.01	0.39	-0.01	-78.52	-130.28
	NORMAL	700.0	0.20	280.67	700.0	-0.21	-0.90	-0.21	0.47	-0.10	133.51	161.84
	NORMAL	800.0	0.73	205.01	800.0	-0.75	-1.34	-0.75	0.71	0.53	-75.66	-91.63
	NORMAL	900.0	0.90	209.37	900.0	-2.01	-1.99	-2.01	0.18	0.17	4.36	21.85
	NORMAL	1,000.0	0.69	219.59	1,000.0	-3.16	-2.76	-3.16	0.26	-0.22	10.22	151.86
	NORMAL	1,100.0	0.93	201.96	1,100.0	-4.38	-3.45	-4.38	0.35	0.24	-17.63	-54.52
	NORMAL	1,200.0	1.00	198.84	1,200.0	-5.96	-4.03	-5.96	0.09	0.07	-3.12	-39.66
	NORMAL	1,300.0	0.69	203.85	1,299.9	-7.34	-4.56	-7.34	0.31	-0.30	5.01	168.86
	NORMAL	1,400.0	0.89	227.72	1,399.9	-8.42	-5.38	-8.42	0.38	0.20	23.86	71.58
	NORMAL	1,500.0	1.42	223.90	1,499.9	-9.83	-6.81	-9.83	0.53	0.53	-3.82	-10.18
	NORMAL	1,600.0	1.43	214.04	1,599.9	-11.76	-8.37	-11.76	0.24	0.01	-9.86	-92.60
	NORMAL	1,700.0	1.47	215.53	1,699.8	-13.83	-9.81	-13.83	0.06	0.04	1.49	42.60
	NORMAL	1,800.0	1.59	212.37	1,799.8	-16.05	-11.30	-16.05	0.15	0.12	-3.16	-36.08
	NORMAL	1,900.0	1.70	214.35	1,899.8	-18.45	-12.88	-18.45	0.12	0.10	1.99	29.97

2.1.2 Survey Stations (Continued)

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
8/6/2013	NORMAL	2,000.0	1.11	217.67	1,999.7	-20.44	-14.31	-20.44	0.59	-0.58	3.32	173.74
	NORMAL	2,100.0	1.30	203.78	2,099.7	-22.25	-15.36	-22.25	0.35	0.19	-13.88	-63.81
	NORMAL	2,200.0	1.39	205.40	2,199.7	-24.39	-16.34	-24.39	0.09	0.08	1.62	24.88
	NORMAL	2,300.0	1.42	199.75	2,299.7	-26.64	-17.28	-26.64	0.14	0.03	-5.65	-81.40
	NORMAL	2,400.0	1.60	211.03	2,399.6	-29.00	-18.42	-29.00	0.35	0.18	11.29	64.36
	NORMAL	2,500.0	1.58	201.79	2,499.6	-31.48	-19.65	-31.48	0.26	-0.01	-9.24	-97.96

2.2 Survey Name: Survey #1

Survey Name	Survey #1	Company	El Paso
Started	8/9/2013	Ended	
Tool Name		Engineer	El Paso

2.2.1 Tie On Point

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)
2,454.0	1.58	206.06	2,453.6	-30.32	-19.13

2.2.2 Survey Stations

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
8/9/2013	Tie On	2,454.0	1.58	206.06	2,453.6	-30.32	-19.13	-30.32	0.00	0.00	0.00	0.00
8/9/2013	NORMAL	2,588.0	1.58	211.02	2,587.6	-33.57	-20.90	-33.57	0.10	0.00	3.70	94.47
	NORMAL	2,682.0	1.80	210.58	2,681.5	-35.95	-22.32	-35.95	0.23	0.23	-0.47	-3.60
	NORMAL	2,775.0	2.02	209.31	2,774.5	-38.64	-23.86	-38.64	0.24	0.24	-1.37	-11.53
	NORMAL	2,868.0	2.02	218.09	2,867.4	-41.35	-25.68	-41.35	0.33	0.00	9.44	94.39
	NORMAL	2,961.0	2.11	222.88	2,960.3	-43.90	-27.85	-43.90	0.21	0.10	5.15	64.87
	NORMAL	3,055.0	2.11	224.20	3,054.3	-46.41	-30.24	-46.41	0.05	0.00	1.40	90.66
	NORMAL	3,148.0	1.41	219.28	3,147.2	-48.52	-32.16	-48.52	0.77	-0.75	-5.29	-170.27
	NORMAL	3,241.0	0.62	170.99	3,240.2	-49.90	-32.80	-49.90	1.18	-0.85	-51.92	-155.11
	NORMAL	3,334.0	1.19	116.01	3,333.2	-50.82	-31.85	-50.82	1.05	0.61	-59.12	-86.30
	NORMAL	3,427.0	1.41	52.82	3,426.2	-50.56	-30.07	-50.56	1.48	0.24	-67.95	-113.75
	NORMAL	3,521.0	0.62	52.60	3,520.2	-49.55	-28.75	-49.55	0.84	-0.84	-0.23	-179.83
8/10/2013	NORMAL	3,614.0	0.40	26.71	3,613.2	-48.95	-28.20	-48.95	0.34	-0.24	-27.84	-146.12
	NORMAL	3,707.0	0.22	46.49	3,706.2	-48.54	-27.93	-48.54	0.22	-0.19	21.27	158.90
	NORMAL	3,800.0	0.09	139.61	3,799.2	-48.47	-27.75	-48.47	0.26	-0.14	100.13	158.22
	NORMAL	3,893.0	0.22	188.30	3,892.2	-48.70	-27.73	-48.70	0.19	0.14	52.35	71.52
	NORMAL	3,986.0	0.79	198.58	3,985.2	-49.49	-27.96	-49.49	0.62	0.61	11.05	14.20
	NORMAL	4,079.0	0.88	188.91	4,078.2	-50.80	-28.27	-50.80	0.18	0.10	-10.40	-62.33
	NORMAL	4,172.0	0.70	155.90	4,171.2	-52.03	-28.15	-52.03	0.52	-0.19	-35.49	-127.53
	NORMAL	4,265.0	0.48	136.49	4,264.1	-52.83	-27.65	-52.83	0.32	-0.24	-20.87	-147.17
	NORMAL	4,358.0	1.01	32.91	4,357.1	-52.42	-26.94	-52.42	1.31	0.57	-111.38	-126.14
8/11/2013	NORMAL	4,451.0	1.01	18.41	4,450.1	-50.96	-26.24	-50.96	0.27	0.00	-15.59	-97.25
	NORMAL	4,544.0	1.10	26.58	4,543.1	-49.38	-25.58	-49.38	0.19	0.10	8.78	63.24
	NORMAL	4,637.0	1.32	60.20	4,636.1	-48.05	-24.25	-48.05	0.79	0.24	36.15	90.06
	NORMAL	4,731.0	1.71	42.18	4,730.1	-46.47	-22.37	-46.47	0.65	0.41	-19.17	-59.94
	NORMAL	4,824.0	1.01	59.98	4,823.0	-45.03	-20.73	-45.03	0.87	-0.75	19.14	157.58
	NORMAL	4,917.0	1.41	357.01	4,916.0	-43.48	-20.08	-43.48	1.41	0.43	-67.71	-106.37
	NORMAL	5,010.0	0.88	341.71	5,009.0	-41.66	-20.36	-41.66	0.65	-0.57	-16.45	-157.52
	NORMAL	5,103.0	0.40	266.21	5,102.0	-41.00	-20.91	-41.00	0.94	-0.52	-81.18	-153.59
	NORMAL	5,197.0	0.88	10.50	5,196.0	-40.32	-21.10	-40.32	1.12	0.51	110.95	125.89
	NORMAL	5,290.0	0.40	59.19	5,289.0	-39.45	-20.69	-39.45	0.74	-0.52	52.35	154.00
	NORMAL	5,383.0	1.58	19.51	5,382.0	-38.07	-19.99	-38.07	1.40	1.27	-42.67	-51.03
	NORMAL	5,476.0	0.79	14.50	5,475.0	-36.24	-19.40	-36.24	0.86	-0.85	-5.39	-175.03

2.2.2 Survey Stations (Continued)

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
8/11/2013	NORMAL	5,569.0	0.09	113.28	5,567.9	-35.65	-19.17	-35.65	0.87	-0.75	106.21	173.68
	NORMAL	5,662.0	0.79	49.61	5,660.9	-35.26	-18.62	-35.26	0.81	0.75	-68.46	-69.81
	NORMAL	5,755.0	0.22	88.72	5,753.9	-34.84	-17.95	-34.84	0.68	-0.61	42.05	167.37
	NORMAL	5,848.0	0.70	31.90	5,846.9	-34.36	-17.47	-34.36	0.65	0.52	-61.10	-74.44
8/12/2013	NORMAL	5,941.0	1.49	23.42	5,939.9	-32.77	-16.69	-32.77	0.86	0.85	-9.12	-15.85
	NORMAL	6,035.0	0.88	33.92	6,033.9	-31.05	-15.80	-31.05	0.69	-0.65	11.17	165.60
	NORMAL	6,128.0	1.80	13.31	6,126.9	-29.03	-15.07	-29.03	1.10	0.99	-22.16	-38.21
	NORMAL	6,221.0	1.58	23.90	6,219.8	-26.44	-14.21	-26.44	0.41	-0.24	11.39	130.38
	NORMAL	6,314.0	1.10	23.81	6,312.8	-24.45	-13.33	-24.45	0.52	-0.52	-0.10	-179.79
	NORMAL	6,407.0	0.62	23.50	6,405.8	-23.17	-12.77	-23.17	0.52	-0.52	-0.33	-179.60
	NORMAL	6,500.0	0.31	189.88	6,498.8	-22.96	-12.61	-22.96	0.99	-0.33	178.90	175.47
	NORMAL	6,594.0	0.79	177.01	6,592.8	-23.86	-12.62	-23.86	0.52	0.51	-13.69	-20.93
	NORMAL	6,687.0	0.31	21.31	6,685.8	-24.26	-12.50	-24.26	1.16	-0.52	-167.42	-173.22
	NORMAL	6,780.0	0.62	28.21	6,778.8	-23.58	-12.17	-23.58	0.34	0.33	7.42	13.70
	NORMAL	6,873.0	0.31	52.60	6,871.8	-22.99	-11.73	-22.99	0.39	-0.33	26.23	159.24
	NORMAL	6,966.0	0.31	202.10	6,964.8	-23.07	-11.62	-23.07	0.64	0.00	160.75	164.75
	NORMAL	7,059.0	0.62	198.01	7,057.8	-23.78	-11.87	-23.78	0.34	0.33	-4.40	-8.16
	NORMAL	7,153.0	0.70	176.61	7,151.8	-24.84	-12.00	-24.84	0.27	0.09	-22.77	-82.92
	NORMAL	7,245.0	0.79	183.99	7,243.8	-26.03	-12.01	-26.03	0.14	0.10	8.02	50.56
	NORMAL	7,338.0	0.40	151.69	7,336.8	-26.96	-11.90	-26.96	0.54	-0.42	-34.73	-154.69
	NORMAL	7,432.0	0.79	179.82	7,430.8	-27.89	-11.74	-27.89	0.51	0.41	29.93	51.46
8/13/2013	NORMAL	7,525.0	1.10	185.49	7,523.7	-29.42	-11.83	-29.42	0.35	0.33	6.10	19.63
	NORMAL	7,618.0	1.80	192.78	7,616.7	-31.73	-12.23	-31.73	0.78	0.75	7.84	18.43
	NORMAL	7,711.0	2.11	192.78	7,709.7	-34.83	-12.94	-34.83	0.33	0.33	0.00	0.00
	NORMAL	7,804.0	0.48	184.70	7,802.6	-36.89	-13.35	-36.89	1.76	-1.75	-8.69	-177.64
	NORMAL	7,897.0	0.40	1.49	7,895.6	-36.95	-13.37	-36.95	0.95	-0.09	190.10	178.54
	NORMAL	7,991.0	0.31	119.70	7,989.6	-36.75	-13.14	-36.75	0.65	-0.10	125.76	153.44
	NORMAL	8,084.0	0.70	159.91	8,082.6	-37.41	-12.73	-37.41	0.54	0.42	43.24	63.57
	NORMAL	8,177.0	1.01	192.08	8,175.6	-38.74	-12.70	-38.74	0.60	0.33	34.59	73.92
	NORMAL	8,270.0	0.79	158.59	8,268.6	-40.14	-12.64	-40.14	0.60	-0.24	-36.01	-128.85
8/14/2013	NORMAL	8,363.0	1.10	135.39	8,361.6	-41.37	-11.78	-41.37	0.52	0.33	-24.95	-62.97
	NORMAL	8,457.0	1.19	166.20	8,455.6	-42.96	-10.91	-42.96	0.65	0.10	32.78	97.28
	NORMAL	8,550.0	1.32	190.32	8,548.6	-44.95	-10.87	-44.95	0.58	0.14	25.94	88.43
	NORMAL	8,643.0	1.71	205.70	8,641.5	-47.26	-11.67	-47.26	0.60	0.42	16.54	54.06
	NORMAL	8,736.0	1.80	217.39	8,734.5	-49.67	-13.16	-49.67	0.40	0.10	12.57	81.78
	NORMAL	8,830.0	1.89	219.81	8,828.4	-52.03	-15.05	-52.03	0.13	0.10	2.57	42.10
	NORMAL	8,923.0	2.02	195.59	8,921.4	-54.79	-16.47	-54.79	0.89	0.14	-26.04	-93.29
	NORMAL	9,016.0	1.01	102.69	9,014.4	-56.55	-16.11	-56.55	2.48	-1.09	-99.89	-154.02

2.3 Survey Name: Survey #2

Survey Name	Survey #2	Company	RYAN ENERGY TECHNOLOGIES
Started	8/19/2013	Ended	
Tool Name	MWD	Engineer	CODY CHONG

2.3.1 Tie On Point

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)
9,350.0	0.79	153.49	9,348.3	-56.92	-13.44

2.3.2 Survey Stations

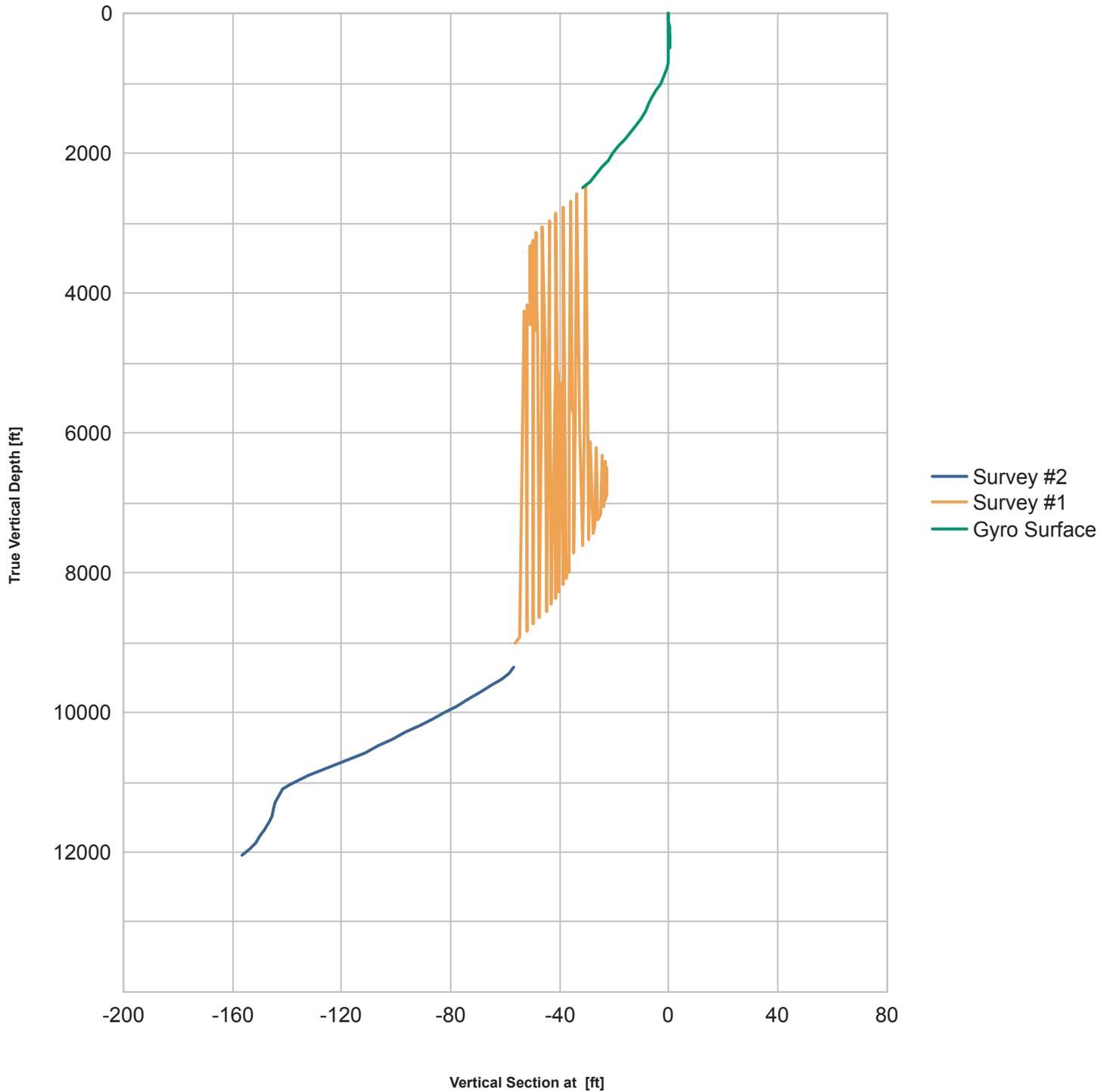
Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
8/19/2013	Tie On	9,350.0	0.79	153.49	9,348.3	-56.92	-13.44	-56.92	0.00	0.00	0.00	0.00

## 2.3.2 Survey Stations (Continued)

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
8/19/2013	NORMAL	9,435.0	1.70	148.30	9,433.3	-58.52	-12.52	-58.52	1.08	1.07	-6.11	-9.66
	NORMAL	9,530.0	2.20	165.10	9,528.3	-61.48	-11.31	-61.48	0.79	0.53	17.68	57.43
	NORMAL	9,625.0	2.60	165.90	9,623.2	-65.33	-10.31	-65.33	0.42	0.42	0.84	5.19
	NORMAL	9,720.0	2.50	170.80	9,718.1	-69.47	-9.46	-69.47	0.25	-0.11	5.16	117.08
	NORMAL	9,816.0	2.40	171.10	9,814.0	-73.52	-8.81	-73.52	0.11	-0.10	0.31	172.84
	NORMAL	9,910.0	2.80	169.60	9,907.9	-77.72	-8.09	-77.72	0.43	0.43	-1.60	-10.40
	NORMAL	10,004.0	2.80	169.50	10,001.8	-82.24	-7.26	-82.24	0.01	0.00	-0.11	-90.05
	NORMAL	10,102.0	2.90	169.70	10,099.7	-87.03	-6.38	-87.03	0.10	0.10	0.20	5.78
	NORMAL	10,196.0	2.90	175.80	10,193.5	-91.74	-5.78	-91.74	0.33	0.00	6.49	93.05
	NORMAL	10,289.0	2.80	175.20	10,286.4	-96.35	-5.42	-96.35	0.11	-0.11	-0.65	-163.69
	NORMAL	10,388.0	3.00	173.00	10,385.3	-101.33	-4.90	-101.33	0.23	0.20	-2.22	-30.20
	NORMAL	10,482.0	3.00	178.00	10,479.2	-106.23	-4.51	-106.23	0.28	0.00	5.32	92.50
	NORMAL	10,577.0	3.40	178.80	10,574.0	-111.53	-4.37	-111.53	0.42	0.42	0.84	6.77
8/21/2013	NORMAL	10,908.0	3.70	181.50	10,904.4	-132.02	-4.44	-132.02	0.10	0.09	0.82	30.48
8/22/2013	NORMAL	11,037.0	2.40	184.70	11,033.2	-138.87	-4.77	-138.87	1.02	-1.01	2.48	174.13
	NORMAL	11,105.0	1.90	191.60	11,101.2	-141.40	-5.12	-141.40	0.83	-0.74	10.15	156.05
8/23/2013	NORMAL	11,294.0	0.40	264.10	11,290.1	-144.53	-6.40	-144.53	0.96	-0.79	38.36	167.90
	NORMAL	11,389.0	0.80	241.50	11,385.1	-144.89	-7.32	-144.89	0.48	0.42	-23.79	-42.24
	NORMAL	11,484.0	0.80	230.30	11,480.1	-145.63	-8.41	-145.63	0.16	0.00	-11.79	-95.60
	NORMAL	11,578.0	0.90	219.50	11,574.1	-146.61	-9.38	-146.61	0.20	0.11	-11.49	-63.50
	NORMAL	11,674.0	1.10	205.60	11,670.1	-148.03	-10.26	-148.03	0.33	0.21	-14.48	-57.58
	NORMAL	11,770.0	1.00	200.90	11,766.1	-149.64	-10.96	-149.64	0.14	-0.10	-4.90	-141.60
8/24/2013	NORMAL	11,865.0	1.40	205.20	11,861.0	-151.47	-11.75	-151.47	0.43	0.42	4.53	14.84
	NORMAL	11,960.0	1.70	198.10	11,956.0	-153.85	-12.68	-153.85	0.37	0.32	-7.47	-36.21
	NORMAL	12,052.0	1.80	195.90	12,048.0	-156.54	-13.50	-156.54	0.13	0.11	-2.39	-35.00

### 3 Charts

#### 3.1 Vertical Section View



3.2 Plan View

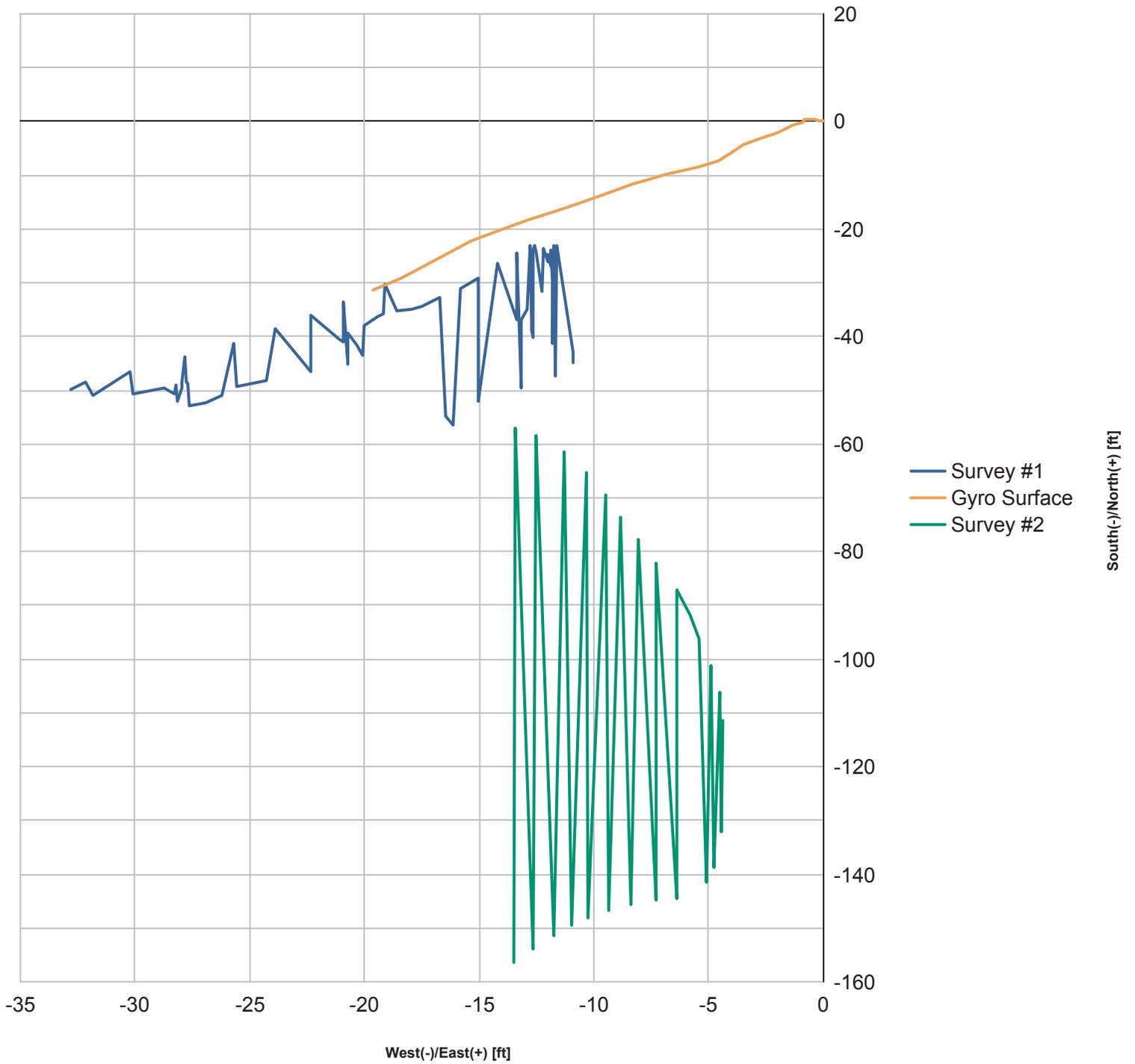


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2.3 Survey Name: Survey #2..... 3

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<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.	5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
1. TYPE OF WELL Oil Well	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.	7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 1001 Louisiana , Houston, TX, 77002	8. WELL NAME and NUMBER: Young 4-6C4
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0850 FSL 1900 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESW Section: 06 Township: 03.0S Range: 04.0W Meridian: U	9. API NUMBER: 43013520850000
PHONE NUMBER: 713 997-5038 Ext	9. FIELD and POOL or WILDCAT: ALTAMONT
	COUNTY: DUCHESNE
	STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <b>10/23/2015</b>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

EP plans to recomplete into LGR. See attached for details.

**Approved by the**  
**October 19, 2015**  
**Oil, Gas and Mining**

Date: \_\_\_\_\_

By: DeKQ

NAME (PLEASE PRINT) Maria S. Gomez	PHONE NUMBER 713 997-5038	TITLE Principal Regulatory Analyst
SIGNATURE N/A	DATE 10/19/2015	

## Young 4-6C4 Recom Summary Procedure

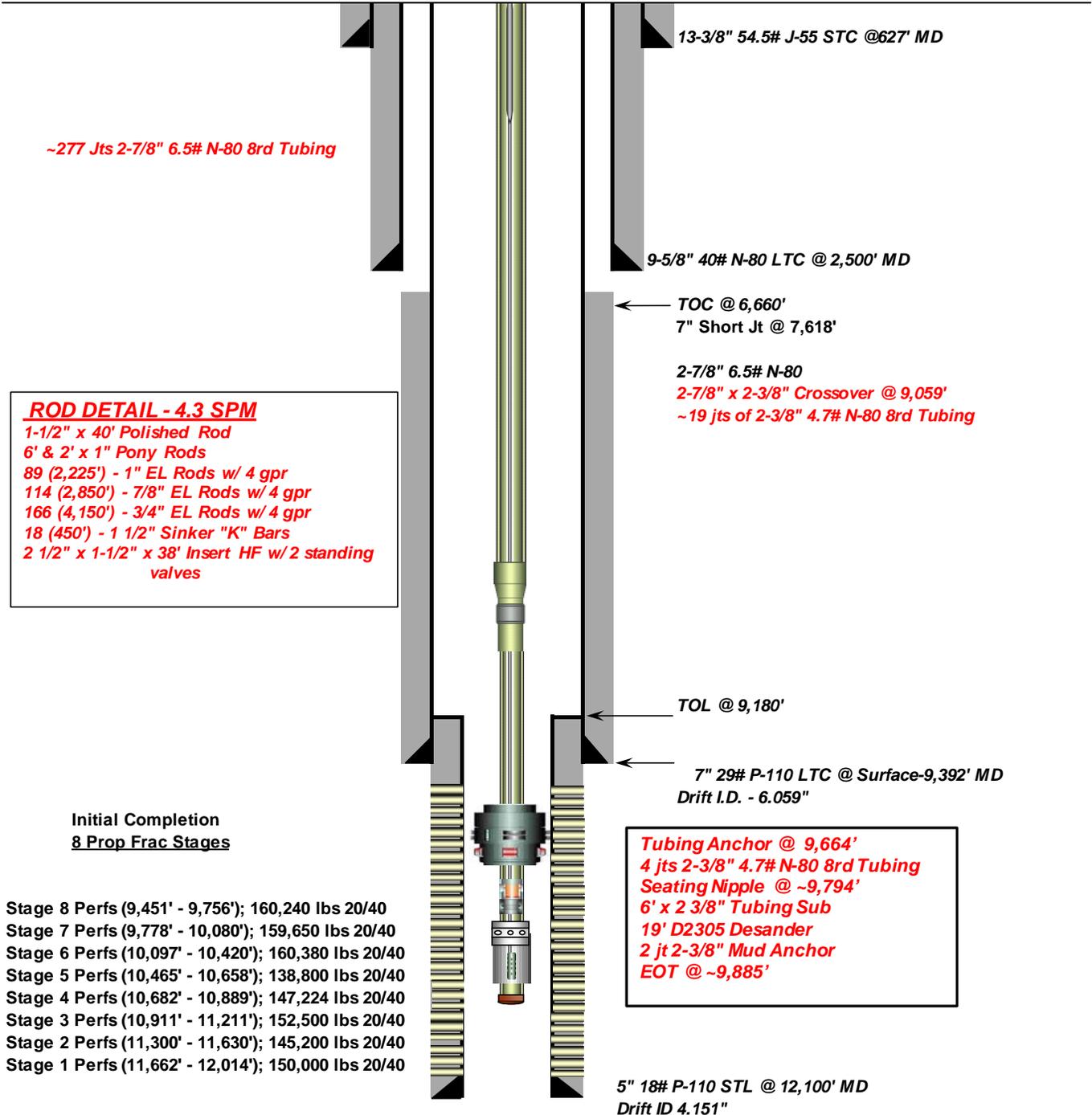
- POOH with rods, pump & tubing. Inspect/Repair/Re-furbish as needed. Replace any bad tubing and joints of rods.
- Set two CBPs for 5" 18# casing @ 9,440' & 9,410' to plug back currently producing zones (Top perf @ 9,451'). Dump bail 40' sand on top of plug @ 9,410'.
- Stage 1:
  - Perforate new LGR interval from **9,216' – 9,348'**.
  - Prop Frac Perforations with **50,000** lbs 30/50 prop (w/ **3,000** lbs 100 mesh & **15,000** gals 15% HCl acid) (Stage 1 Recom).
- Stage 2:
  - RIH with 7" CBP & set @ 9,161'.
  - Perforate new LGR interval from **8,857' – 9,146'**.
  - Prop Frac Perforations with **135,000** lbs 30/50 prop (w/ **3,000** lbs 100 mesh & **20,000** gals 15% HCl acid) (Stage 2 Recom).
- Stage 3:
  - RIH w/ 7" CBP & set @ 8,735'.
  - Perforate new LGR interval from **8,422' – 8,720'**.
  - Acidize perforations with w/ **27,000 Gals 15% HCl Acid** (STAGE 3 Recom)
- Clean out well drilling up (2) 7" CBP's, leaving 40' sand on top of 5" CBP @ 9,410'. Top perf BELOW plug @ 9,451'.
- RIH w/ production tubing and rods.
- Clean location and resume production.



**Current Pumping Schematic**

Company Name: EP Energy  
 Well Name: Young 4-6C4  
 Field, County, State: Altamont - Bluebell, Duchesne, Utah  
 Surface Location: Lat: 40° 13' 39.382" N Long: 110° 22' 56.794" W  
 Producing Zone(s): Wasatch

Last Updated: 9/14/2015  
 By: Krug  
 TD: 12,100'  
 BHL: \_\_\_\_\_  
 Elevation: \_\_\_\_\_

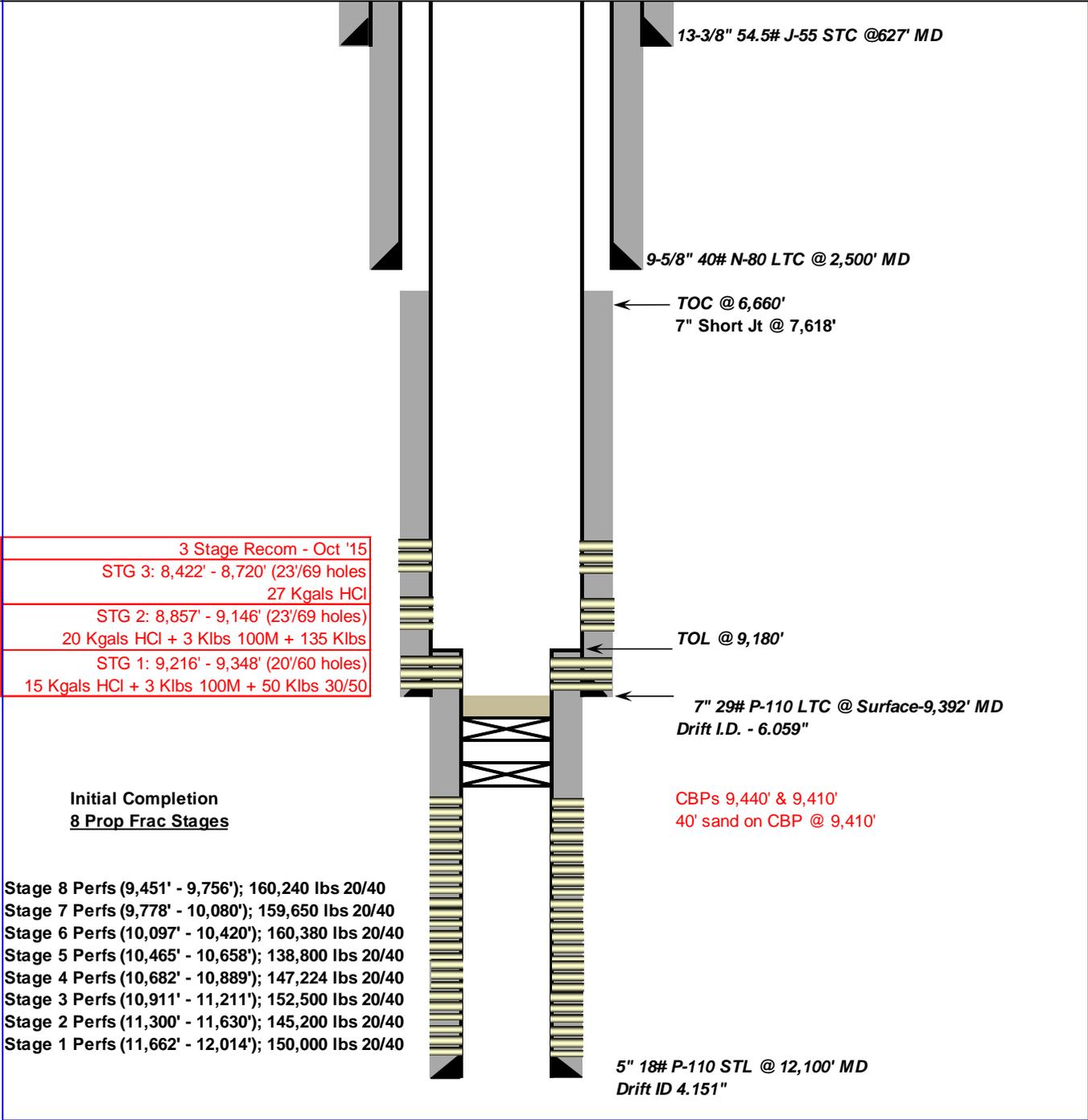




**Proposed Recom Schematic**

Company Name: EP Energy  
 Well Name: Young 4-6C4  
 Field, County, State: Altamont - Bluebell, Duchesne, Utah  
 Surface Location: Lat: 40° 13' 39.382" N Long: 110° 22' 56.794" W  
 Producing Zone(s): Wasatch

Last Updated: 10/9/2015  
 By: Krug  
 TD: 12,100'  
 BHL: \_\_\_\_\_  
 Elevation: \_\_\_\_\_



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

**RECOMPLETION**

AMENDED REPORT  FORM 8  
(highlight changes)

5. LEASE DESIGNATION AND SERIAL NUMBER:

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT or CA AGREEMENT NAME

8. WELL NAME and NUMBER:

9. API NUMBER:

10 FIELD AND POOL, OR WILDCAT

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

12. COUNTY

13. STATE

UTAH

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  OTHER \_\_\_\_\_

b. TYPE OF WORK: NEW WELL  HORIZ. LATS.  DEEP-EN  RE-ENTRY  DIFF. RESVR.  OTHER \_\_\_\_\_

2. NAME OF OPERATOR:

3. ADDRESS OF OPERATOR: CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_ PHONE NUMBER: \_\_\_\_\_

4. LOCATION OF WELL (FOOTAGES)  
AT SURFACE:  
  
AT TOP PRODUCING INTERVAL REPORTED BELOW:  
  
AT TOTAL DEPTH:

14. DATE SPUDDED: \_\_\_\_\_ 15. DATE T.D. REACHED: \_\_\_\_\_ 16. DATE COMPLETED: \_\_\_\_\_ ABANDONED  READY TO PRODUCE  17. ELEVATIONS (DF, RKB, RT, GL):

18. TOTAL DEPTH: MD \_\_\_\_\_ TVD \_\_\_\_\_ 19. PLUG BACK T.D.: MD \_\_\_\_\_ TVD \_\_\_\_\_ 20. IF MULTIPLE COMPLETIONS, HOW MANY? \* \_\_\_\_\_ 21. DEPTH BRIDGE PLUG SET: MD \_\_\_\_\_ TVD \_\_\_\_\_

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)

23. WAS WELL CORED? NO  YES  (Submit analysis)  
WAS DST RUN? NO  YES  (Submit report)  
DIRECTIONAL SURVEY? NO  YES  (Submit copy)

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

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

**25. TUBING RECORD**

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

**26. PRODUCING INTERVALS**

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

**27. PERFORATION RECORD**

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

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL

29. ENCLOSED ATTACHMENTS: **CBP's @ 9440 & 9410 with 50' sand on top**

ELECTRICAL/MECHANICAL LOGS       GEOLOGIC REPORT       DST REPORT       DIRECTIONAL SURVEY  
 SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION       CORE ANALYSIS       OTHER: \_\_\_\_\_

30. WELL STATUS:

**31. INITIAL PRODUCTION**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

This report must be submitted within 30 days of

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

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

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

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

## CENTRAL DIVISION

ALTAMONT FIELD

YOUNG 4-6C4

YOUNG 4-6C4

RECOMPLETE 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	YOUNG 4-6C4		
Project	ALTAMONT FIELD	Site	YOUNG 4-6C4
Rig Name/No.		Event	RECOMPLETE LAND
Start date	11/11/2015	End date	11/24/2015
Spud Date/Time	8/5/2013	UWI	YOUNG 4-6C4
Active datum	KB @6,003.4ft (above Mean Sea Level)		
Afe No./Description	165634/54984 / YOUNG 4-6C4		

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

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
11/12/2015	12:00 13:30	1.50	MIRU	01		P		ROAD RIG FROM 3-6B3, TO LOC, SLIDE P.U. BACK SPOT IN & RU RIG
	13:30 15:00	1.50	WOR	18		P		LD POLISH ROD, UNSEAT ROD PUMP, FLUSH RODS W/ 65 BBLS TREATED 2% KCL
	15:00 17:00	2.00	WOR	39		P		TOOH W/ 89-1", 114-7/8" RODS LAYING DWN 10 & LD 57 3/4" RODS, FLUSHING AS NEEDED, PU POLISH ROD SECURE WELL SDFN
11/13/2015	6:00 7:30	1.50	WOR	28		P		CT HOLD SAFETY MTG ON WEARING PROPPER PPE FOR JOB @ TASK, WRITE & REVIEW JSA'S
	7:30 8:30	1.00	WOR	39		P		LD POLISH ROD, CONT TOOH W/ 109-3/4" RODS, LD 18,1-1/2" WT BARS & PUMP
	8:30 10:00	1.50	WOR	16		P		X OVER TO TBG EQUIP, NDWH, UNLAND TBG LD B FLANGE, MU 6' SUB & TBG HANGER, TEMP LAND TBG, NUBOP, RU WORK FLOOR, RELEASE 5" TAC @ 9663', LD TBG HANGER & 6' SUB
	10:00 14:30	4.50	WOR	39		P		RU TBG SCANNERS, SCAN OUT OF HOLE W/ 277 JTS 2-7/8" EUE L-80 TBG, 273 YELLOW BAND, 3 JTS BLUE BAND & 1 JT RED BAND, RD SCANNERS, POOH & LD 2-7/8" X 2-3/8" EUE X OVER, 19 JTS 2-3/8", 5" TAC, 4 JTS 2-3/8", P.S.N., DESANDER, 2 JTS 2-3/8", & 2-3/8" SOLID BULL PLUG
	14:30 17:00	2.50	WLWORK	26		P		MIRU CUTTERS W.L., RIH W/ 7" GR/JB TO 5" LT @ 9167', & 5" GR/JB TO 9450', RIH SET 5" CBP @ 9440' POOH, CLOSE & LOCK BLIND RAMS, SHUT & NIGHT CAP CSG VALVES, SDFN
11/14/2015	6:00 7:30	1.50	WOR	28		P		CT HOLD SAFETY MTG ON WORKING W/ W.L., WRITE & REVIEW JSA'S
	7:30 8:30	1.00	WOR	06		P		FILL CSG W/ 265 BBLS TREATED 2% KCL, FLUID LEVEL @ 7142'
	8:30 12:00	3.50	WLWORK	26		P		RIH W/ 5" CBP, PRESSURE CSG UP TO 2200 PSI, SET CBP @ 9410', BLEED OFF PRESSURE, POOH W/ W.L., RIH & DUMP BALE 50' SAND ON CBP NEW PBTD @ 9410', RIG DWN W.L.

## 2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	12:00 16:30	4.50	WOR	16		P		RIG DWN WORK FLOOR, NDBOP, NU 7" MASTER FRAC VALVE & TEST CSG TO 8000 PSI GOOD TEST, NU 7" HCR VALVE, 7" GOAT HEAD, 7" HCR VALVE & W.L. FLANGE, TEST STACK TO 9,500 PSI GOOD TEST, SECURE WELL 7" MASTER CLOSED, BOTH 7" HCR VALVES CLOSED & LOCKED, CLOSE & NIGHT CAP CSG VALVES, SDFW
11/15/2015	6:00 6:00	24.00	WOR	18		P		NO ACTIVITY SDFW
11/16/2015	6:00 6:00	24.00	WOR	18		P		NO ACTIVITY SDFW
11/17/2015	6:00 7:30	1.50	WOR	28		P		CT HOLD SAFETY MTG ON RU WIRE LINE, WRITE & REVIEW JSA'S
	7:30 12:00	4.50	WLWORK	21		P		RU WIRE LINE, TEST LUBRICATOR, RIH & PERF STG 1 PERFS FROM 9348'-9216', USING 2-3/4" TAG-RTG 16 GM CHARGES 3SPF @ 120 DEG PHASING, ALL PERFS CORRELATED TO PERFORATORS CBL/GR/ CCL LOG DATED 9/5/2013, STARTING PRESSURE 1000 PSI, ENDING PRESSURE 500 PSI, POOH LD GUNS, SECURE WELL, CLOSE 7" MASTER VALVE, BOTH HCR VALVES & LOCK & NIGHT CAP WL FLANGE, CLOSE & NIGHT CAP CSG VALVES, RUN FLOW BACK LINES, SDFD
11/18/2015	8:00 9:30	1.50	MIRU	28		P		TRAVEL TO LOC W/ FRAC EQUIP HOLD SAFETY MTG ON RU FRAC EQUIP, WRITE & REVIEW JSA'S
	9:30 16:00	6.50	MIRU	01		P		RU WATER TRANSFER LINES, SPOT IN & RU HALLIBURTON FRAC EQUIP & OFF LOAD SAND, SDFN
11/19/2015	6:00 7:30	1.50	STG01	28		P		CREW TRAVEL TO LOC, HOLD SAFETY MTG ON FRAC OPERATIONS WRITE & REVIEW JSA'S
	7:30 9:30	2.00	STG01	18		P		CONT RU FRAC CREW, START & WARM UP FRAC EQUIP & SET POP-OFF & 8200 PSI
	9:30 11:00	1.50	STG01	35		P		PRESSURE TEST PUMP LINES TO 9120 PSI. OPEN WELL. SICP 0 PSI. FILL CSG W/ 14 BBLS, BREAK DOWN STAGE 1 PERFORATIONS @ 3830 PSI, PUMPING 12 BPM. BRING RATE UPTO 15 BPM. PUMP 105 TTL BBLS FLUID THEN PERFORM STEP RATE SHUT DOWN TEST. ISIP 2586 PSI. FG .71. 5 MIN 2418 PSI. 10 MIN 2366 PSI. TREAT STAGE 1 PERFORATIONS W/ 14,000 GALLONS 15% HCL ACID, 3000 LBS 100 MESH SAND IN 1/2 PPG STAGE & 56,100 LBS WHITE 30/50 SAND IN 1/2 PPG, 1 PPG, 2 PPG & 3 PPG STAGES. ISIP 2787 PSI. FG .73. AVG RATE 69 BPM. MAX RATE 72.7 BPM. AVG PSI 5437 PSI. MAX PSI 7081 PSI. SHUT IN WELL & TURN OVER TO WIRE LINE. 2662 BBLS FLUID TO RECOVER.
	11:00 13:30	2.50	STG02	21		P		PRESSURE TEST & EQUALIZE LUBRICATOR RIH & SET 7" CBP @ 9161'. PERFORATE STAGE 2 PERFORATIONS FROM 9146' TO 8857', USING 3-1/8" TAG-RTG GUNS, 22.7 GRAM CHARGES, 3 SPF, 120 DEGREE PHASING. ALL PERFS CORRELATED TO PERFORATORS CBL/GR/CCL RUN 1 LOG DATED 09/5/2013, STARTING PRESSURE 2500 PSI, ENDING 1900 PSI, POOH W/ W.L., SHUT WELL IN & TURN OVER TO FRAC CREW
	13:30 15:00	1.50	STG02	35		P		PRESSURE TEST PUMP LINES TO 9177 PSI. OPEN WELL. SICP 1590 PSI. BREAK DOWN STAGE 2 PERFORATIONS @ 2868 PSI, PUMPING 18 BPM. BRING RATE UPTO 18 BPM. PUMP 111 TTL BBLS FLUID THEN PERFORM STEP RATE SHUT DOWN TEST. ISIP 1502 PSI. FG .60. 5 MIN 1334 PSI. 10 MIN 1458 PSI. TREAT STAGE 2 PERFORATIONS W/ 16,000 GALLONS 15% HCL ACID, 3000 LBS 100 MESH SAND IN 1/2 PPG STAGE & 103,840 LBS WHITE 30/50 SAND IN 1/2 PPG, 1 PPG, 2 PPG & 3 PPG STAGES. ISIP 2096 PSI. FG .66. AVG RATE 74.4 BPM. MAX RATE 77.8 BPM. AVG PSI 3135 PSI. MAX PSI 4458 PSI. SHUT IN WELL & TURN OVER TO WIRE LINE. 3688 BBLS FLUID TO RECOVER.

## 2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	15:00 17:30	2.50	STG03	21		P		PRESSURE TEST & EQUALIZE LUBRICATOR RIH & SET 7" CBP @ 8735'. PERFORATE STAGE 3 PERFORATIONS FROM 8720' TO 8422', USING 3-1/8" TAG-RTG GUNS, 22.7 GRAM CHARGES, 3 SPF, 120 DEGREE PHASING. ALL PERFS CORRELATED TO PERFORATORS CBL/GR/CCL RUN 1 LOG DATED 09/5/2013, STARTING PRESSURE 1400 PSI, ENDING 1300 PSI, POOH W/ W.L., SECURE WELL, CLOSE 7" MASTER VALVE, CLOSE, GREASE & LOCK HCR VALVES, CLOSE & NIGHT CAP CSG VALVES, SDFN
11/20/2015	6:00 7:30	1.50	STG03	28		P		CREW TRAVEL TO LOC, HOLD SAFETY MTG ON WORKING W/ & AROUND ACID, WRITE & REVIEW JSA'S
	7:30 9:00	1.50	STG03	18		P		OFF LOAD & MIX ACID
	9:00 10:00	1.00	STG03	35		P		PRESSURE TEST PUMP LINES TO 9008 PSI, OPEN WELL CSG PRESSURE 1166 PSI, BRK DWN STG 3 PERFS @ 2386 PSI @ 10BPM, BRING RATE UP TO 25 BPM PUMP A TOTAL OF 130 BBLS, PERFORM 3 RATE STEP DWN TEST, ISIP 1415, 5 MIN 1045, 10 MIN 881 PSI & 15 MIN 807 PSI, F.G. .60. TREAT STG 3 PERFS W/ 26,000 GALS 15% HCL ACID DROPPING 95 BIO BALLS MID WAY THRU ACID, FLUSH ACID TO BTM PERF W/ 324 BBLS 2% KCL, ISIP 1541 PSI, 5 MIN 1319 PSI, 10 MIN 1222 PSI & 15 MIN 1146 PSI, F.G. .61. MAX RATE 55.5 BPM, AVG RATE 51 BPM, MAX PSI 7143 PSI, AVG PSI 2728 PSI, 1165 BBLS TO RECOVER, SWI, CLOSE 7" MASTER VALVE, CLOSE & LOCK BOTH 7" HCR VALVES
	10:00 13:30	3.50	RDMO	02		P		RIG DWN & MOVE OFF LOC W/ FRAC & W.L. EQUIPMENT
	13:30 15:00	1.50	FB	18		P		WAIT FOR 5 HR SHUT IN ON ACID TO SOAK
	15:00 6:00	15.00	FB	19		P		OPEN WELL ON 12/64 CHOKE @ 600 PSI, TO FLOW BACK TANK, OPEN CHOKE TO BLEED DWN WELL, CURRENT PRESSURE 100 PSI CHOKE 42/48 CHOKE FLOWED BACK 610 BBLS WATER
11/21/2015	6:00 7:30	1.50	WOR	19		P		HOLD SAFETY MTG ON GAUGING TANKS WRITE & REVIEW JSA'S, FLOWED 38 BBLS OIL, 707 BBLS WTR & 0 MCF, CURRENT PRESSURE IS 50 PSI ON 42/48 CHOKE
11/22/2015	6:00 7:30	1.50	WOR	28		P		CREW TRAVEL HOLD SAFETY MTG ON, ND FRAC STACK WRITE & REVIEW JSA'S
	7:30 12:00	4.50	WOR	16		P		50 PSI ON WELL SWI, ND GOAT HEAD & TOP HCR VALVE, PUMP 100 BBLS BRINE DWN CSG 0 PSI ON WELL, ND 2nd 7" HCR VALVE NU & TEST BOP GOOD TEST, RU WORK FLOOR & TBG TONGS
	12:00 13:00	1.00	WOR	15		P		WELL FLOWING, PUMP 100 BBLS BRINE DWN CSG TO KILL WELL
	13:00 16:00	3.00	WOR	39		P		MU & RIH W/ 6" ROCK BIT & BIT SUB, TALLY TBG RIH OUT OF DERRICK W/ 268 JTS 2-7/8" TBG TAG 7" CBP, LD 1 JT 2-7/8" TBG, RU POWER SWIVEL, SECURE WELL, CLOSE & LOCK PIPE RAMS, CLOSE & NIGHT CAP CSG & TIW VALVE, DRAIN PUMP & HARD LINE, SDFN
11/23/2015	6:00 7:30	1.50	WOR	28		P		CT HOLD SAFETY MTG ON MAKING CONNECTIONS W/ POWER SWIVEL WRITE & REVIEW JSA'S
	7:30 13:00	5.50	WOR	10		P		50 PSI ON WELL BLOW DWN WELL, MU 1 JT W/ POWER SWIVEL, BEGIN REV CIRCULATION, DRILL OUT 7" CBP @ 8735', CIRC TBG CLEAN, PUMP 20 BBL BRINE DWN TBG, SWIVEL DWN 13 JTS 2-7/8" TBG, TAG 7" CBP @ 9191', BEGIN REV CIRCULATION, DRILL OUT CBP & CHASE REMAINS TO LINER TOP @ 9180' & DRILL OUT REMAINS, CIRC TBG CLEAN, PUMP 20BBLS BRINE DWN TBG, RD POWER SWIVEL
	13:00 14:00	1.00	WOR	39		P		LD 9 JTS 2-7/8" TBG, POOH & STAND BACK IN DERRICK W/ 148 JTS 2-7/8" TBG, EOT @ 4050'

## 2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	14:00 15:00	1.00	WOR	15		P		CIRC WELL BORE W/ 140 BBLS BRINE WTR
	15:00 16:00	1.00	WOR	39		P		CONT TOO H W/ 124 JTS 2-7/8" TBG, BIT SUB & 6" ROCK BIT
	16:00 17:30	1.50	WOR	39		P		MU & TIH W/ 4-1/8" ROCK BIT, BIT SUB, 10 JTS 2-3/8" EUE WORK STRING, 2-7/8" X 2-3/8" EUE X OVER & 270 JTS 2-7/8" EUE L-80 TBG, EOT @ 9132', SECURE WELL, CLOSE & LOCK PIPE RAMS, CLOSE & NIGHT CAP CSG VALVES & TIW VALVE, DRAIN PUMP & HARD LINE, SDFN
11/24/2015	6:00 7:30	1.50	WOR	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON POWER SWIVEL SAFETY. FILL OUT & REVIEW JSA
	7:30 11:00	3.50	WOR	10		P		WORK 4-1/8" BIT THROUGH LINER TAG FILL @ 9340'. RU POWER SWIVEL & CLEAN OUT TO 9460' CIRCULATE CLEAN & KILL TBG.
	11:00 16:00	5.00	WOR	39		P		TOOH W/ 129 JTS 2-7/8"EUE TBG. CIRCULATE WELL DEAD W/ 195 BBLS 10 PPG BRINE WTR. TOO H W/ BIT LAYING DOWN 2-3/8" WORK STRING. TIH W/ 5-3/4" OD NO/GO, 2 JTS 2-7/8"EUE TBG, 5-1/2" OD PBGA, 2' X 2-7/8"EUE PUP JT, SEAT NIPPLE, 4' X 2-7/8"EUE PUP JT, 4 JTS 2-7/8"EUE TBG. TAC & 250 JTS 2-7/8"EUE TBG. SET TAC @ 8156' IN 25K TENSION. SN @ 8310'. EOT @ 8413'.
	16:00 17:30	1.50	WOR	16		P		ND BOP. LAND TBG. NU WELL HEAD & FLOWLINES. SDFN
11/25/2015	6:00 7:00	1.00	WOR	28		P		CREW TRAVEL TO LOCATION HSM WRITE AND REVIEW JSA TOPIC; TIH w RODS
	7:00 12:30	5.50	WOR	39		P		TSIP 0 PSI FLUSH TBG w 60 BBLS OF 2 7/8" TBG WELL STARTED FLOWING PUMP 50 BBLS OF BRINE P/U 2 1/2" X 1 3/4" X 38' HF PUMP TIH w 18-1 1/2" C BARS 109-3/4" RODS w/g 104-7/8" RODS w/g 101-1" SPACE OUT PUMP w 2', 6' PONY RODS FILL TBG w 2 BBLS OF 2% KCL WATER TEST AND STROKE TEST TO 1000 PSI GOOD TEST
	12:30 13:30	1.00	RDMO	02		P		RDMO SLIDE ROTO FLEX HANG OFF RODS TURN WELL OVER TO PRODUCTION

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<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.	5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
1. TYPE OF WELL Oil Well	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.	7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 1001 Louisiana , Houston, TX, 77002	8. WELL NAME and NUMBER: Young 4-6C4
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0850 FSL 1900 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESW Section: 06 Township: 03.0S Range: 04.0W Meridian: U	9. API NUMBER: 43013520850000
PHONE NUMBER: 713 997-5038 Ext	9. FIELD and POOL or WILDCAT: ALTAMONT
	COUNTY: DUCHESNE
	STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <b>3/18/2016</b>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="DO Plugs"/>

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

EP plans to drill out plugs @ 9440' & 9410'.

**Approved by the**  
**Feb 08, 2016**  
**Oil, Gas and Mining**

**Date:** \_\_\_\_\_

**By:** *Do K Duff*

NAME (PLEASE PRINT) Maria S. Gomez	PHONE NUMBER 713 997-5038	TITLE Principal Regulatory Analyst
SIGNATURE N/A	DATE 2/8/2016	