

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

FORM 3

AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL						1. WELL NAME and NUMBER White 3-14C5								
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT ALTAMONT								
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME								
6. NAME OF OPERATOR EP ENERGY E&P COMPANY, L.P.						7. OPERATOR PHONE 713 997-5038								
8. ADDRESS OF OPERATOR 1001 Louisiana, Houston, TX, 77002						9. OPERATOR E-MAIL maria.gomez@epenergy.com								
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) Fee			11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>								
13. NAME OF SURFACE OWNER (if box 12 = 'fee') Duchesne City Corporation						14. SURFACE OWNER PHONE (if box 12 = 'fee') 435-738-2464								
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee') 500 East Main St, Duchesne, UT 84021						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')								
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			19. SLANT VERTICAL <input checked="" type="checkbox"/> DIRECTIONAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/>								
20. LOCATION OF WELL		FOOTAGES		QTR-QTR		SECTION		TOWNSHIP		RANGE		MERIDIAN		
LOCATION AT SURFACE		1401 FSL 1415 FEL		NWSE		14		3.0 S		5.0 W		U		
Top of Uppermost Producing Zone		1401 FSL 1415 FEL		NWSE		14		3.0 S		5.0 W		U		
At Total Depth		1401 FSL 1415 FEL		NWSE		14		3.0 S		5.0 W		U		
21. COUNTY DUCESNE			22. DISTANCE TO NEAREST LEASE LINE (Feet) 1401			23. NUMBER OF ACRES IN DRILLING UNIT 80								
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 2200			26. PROPOSED DEPTH MD: 11900 TVD: 11900								
27. ELEVATION - GROUND LEVEL 5798			28. BOND NUMBER 400JU0708			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE Duchesne City								
Hole, Casing, and Cement Information														
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight				
COND	17.5	13.375	0 - 600	54.5	J-55 ST&C	0.0	Class G	758	1.15	15.8				
SURF	12.25	9.625	0 - 2200	40.0	N-80 LT&C	0.0	Type V	384	2.36	12.0				
							Class G	195	1.3	14.3				
I1	8.75	7	0 - 8820	29.0	HCP-110 LT&C	10.3	Class G	625	1.91	12.5				
							Class G	298	1.64	13.0				
L1	6.125	5	8670 - 11900	18.0	HCP-110 LT&C	11.5	Class G	193	1.52	14.2				
ATTACHMENTS														
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES														
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER						<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN								
<input checked="" type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)						<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER								
<input type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)						<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP								
NAME Maria S. Gomez				TITLE Principal Regulatory Analyst				PHONE 713 997-5038						
SIGNATURE				DATE 02/16/2015				EMAIL maria.gomez@epenergy.com						
API NUMBER ASSIGNED 43013532720000				APPROVAL  Permit Manager										

**White 3-14C5
Sec. 14, T3S, R5W
DUCHESNE COUNTY, UT**

EP ENERGY E&P COMPANY, L.P.

DRILLING PROGRAM

1. Estimated Tops of Important Geologic Markers

<u>Formation</u>	<u>Depth</u>
Green River (GRRV)	3,905' TVD
Green River (GRTN1)	4,658' TVD
Mahogany Bench	5,526' TVD
L. Green River	6,890' TVD
Wasatch	8,740' TVD
T.D. (Permit)	11,900' TVD

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

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
Water	Base MSGW	830' MD / TVD
	Green River (GRRV)	3,905' MD / TVD
	Green River (GRTN1)	4,658' MD / TVD
	Mahogany Bench	5,526' MD / TVD
Oil	L. Green River	6,890' MD / TVD
Oil	Wasatch	8,740' MD / TVD

3. Pressure Control Equipment: (Schematic Attached)

A Diverter System on structural pipe from surface to 600' MD/TVD. A Diverter System w/ rotating head from 600' MD/TVD to 2,200' MD/TVD on Conductor. A 10M BOP stack w/ rotating head, spacer spool, 5M annular, flex rams, blind rams & single w/ flex rams used from 2,200' MD/TVD to 8,820' MD/TVD. A 10M BOP stack w/ rotating head, spacer spool, 5M annular, flex rams, blind rams & single w/ flex rams from 8,820' MD/TVD to TD (11,900' MD /TVD).

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

We have pre-set numerous wells around the proposed location and have had no issues.

There are 25 water wells within 10,000' of the proposed location. Due the MSGW being so shallow, I will pre-set 13-3/8" at 600' & 9-5/8" at 2,200'.

There is 1 SWD well within 2.5 miles of the proposed location but none of them are within 1 mile. No pressure communication is expected to be seen, however it is important to be aware of them.

The Blue Bench 1-13C5 SWD is 6,525' or 1.24 miles to the North East of the proposed location. It is owned by Intercept Energy & is an active SWD well. It is injecting into the Upper/Middle Green River & Upper-most Lower Green River. The injection interval is from 4106'-7528'. The injection rate is now ~500 bbls/day @ 500-600 psi (I just got off the phone with Keith who is with Intercept Energy). The pressure dissipates to 300 psi while down on maintenance. Using 300 psi, the EMW @ 4106' is 10.01 ppg. We should not see any pressure from this well since it is Due South of the proposed location. We have drilled as close as 0.98 miles to this SWD & **on fracture orientation** and have not seen any pressure while drilling. **If any pressure communication is seen, we can easily weight up to 10.1 ppg MW to control the wellbore. Our intermediate cement design will be 12.5 ppg lead & 13 ppg tail. We will also pump a weighted spacer.**

OPERATORS MINIMUM SPECIFICATIONS FOR BOPE:

The surface casing will be equipped with a flanged casing head of 5M psi working pressure. An 11" 5M x 11" 10M spool, 11" x 10M psi BOP and 5M psi annular will be nipped up on the surface casing and tested to 250 psi low test / 3,000 psi high test for 10 minutes each prior to drilling out. The surface casing will be tested to 1,000 psi for 30 mins. Intermediate casing will be tested to the greater of 1,500 psi or 0.22 psi/ft. The choke manifold equipment, upper Kelly cock and floor safety valves will be tested to 5M psi. The annular preventer will be tested to 250 psi low test / 4,000 psi high test. The 10M BOP will be installed with rotating head, spacer spool, 5M annular, flex rams, blind rams & single w/ flex rams from surface shoe to TD. The BOPE will be hydraulically operated.

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

Statement on Accumulator System and Location of Hydraulic Controls:

Precision 406 is expected to be used to drill the proposed well. Operations will commence after approval of this application. Manual and/or hydraulic controls will be in compliance with 5M and 10M psi systems.

Auxiliary Equipment:

- A) Pason Gas Monitoring 2,200' - TD
- B) Mud logger with gas monitor – 2,200' to TD (11,900' MD/TVD)
- C) Choke manifold with one manual and one hydraulic operated choke
- D) Full opening floor valve with drill pipe thread
- E) Upper and lower Kelly cock
- F) Shaker, de-sander and centrifuge

4. Proposed Casing & Cementing Program:

Please refer to the attached Wellbore Diagram.

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

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

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

5. Drilling Fluids Program:

Proposed Mud Program:

Interval	Type	Mud Weight
Surface	Air	Air
Intermediate	WBM	9.3 – 10.3
Production	WBM	10.5 – 11.5

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: 2,200' MD/TVD – TD (11,900' MD/TVD)

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

7. Abnormal Conditions:

Maximum anticipated bottomhole pressure calculated at 11,900' TVD equals approximately 7,116 psi. This is calculated based on a 0.598 psi/ft gradient (11.5 ppg mud density at TD).

Maximum anticipated surface pressure equals approximately 4,498 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/ft).

Maximum anticipated surface pressure based on frac gradient at 7" casing shoe is 0.8 psi/ft at 8,820' TVD = 7,056 psi

BOPE and casing design will be based on the lesser of the two MASPs which is 4,498 psi.

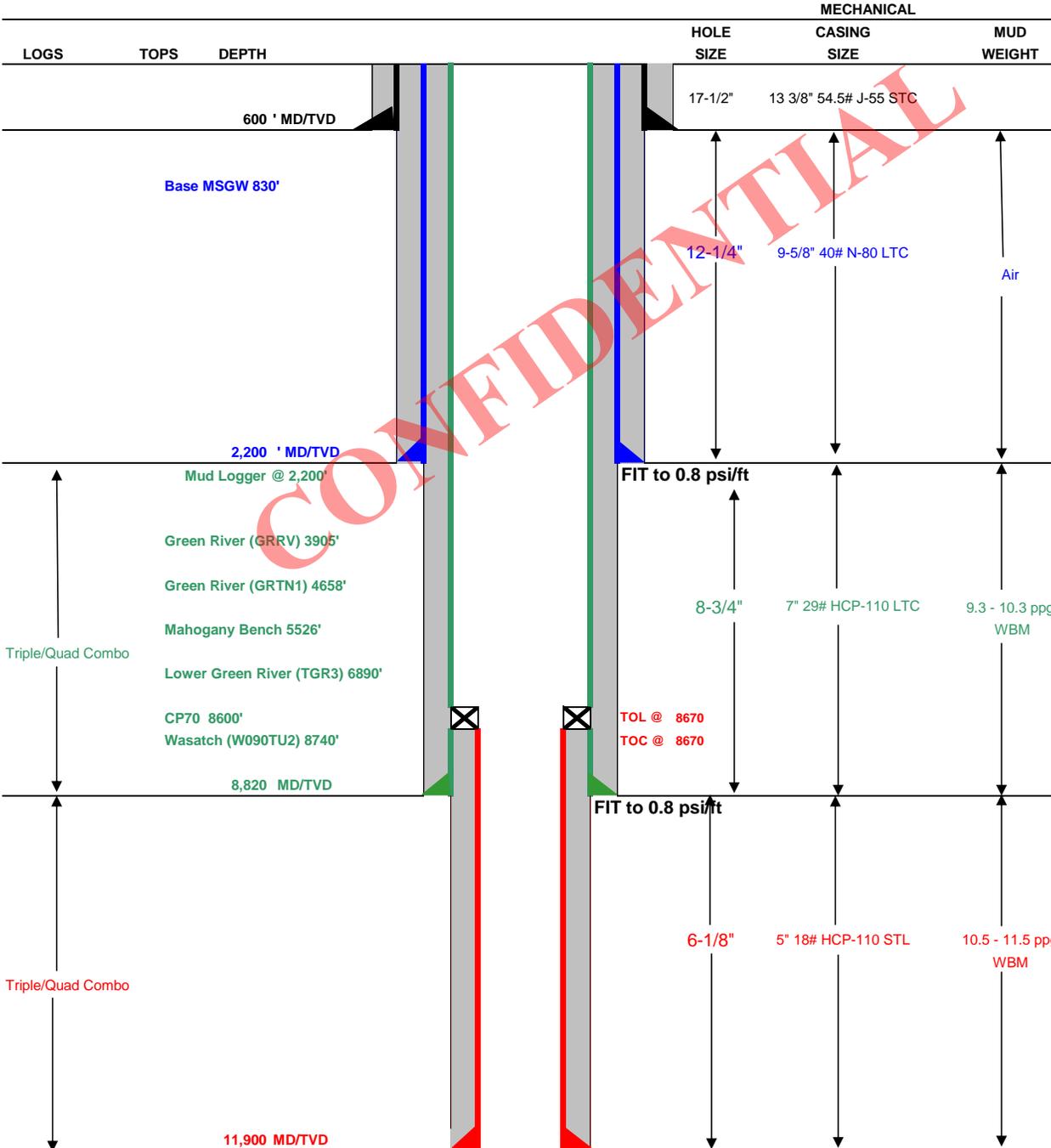
8. **OPERATOR REQUESTS THAT THE PROPOSED WELL BE PLACED ON CONFIDENTIAL STATUS.**

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Drilling Schematic

Company Name: EP ENERGY	Date: April 13, 2015
Well Name: White 3-14C5	TD: 11,900
Field, County, State: Altamont, Duchesne, Utah	AFE #: TBD
Surface Location: Sec 14 T3S R5W 1822' FSL 1721' FEL	BHL: Straight Hole
Objective Zone(s): Green River, Wasatch	Elevation: 5812.8
Rig: Precision 406	Spud (est.): TBD
BOPE Info: Diverter System w/ rotating head on structural pipe from 600' to 2,200' . 11 10M BOPE w/ rotating head & 5M annular from 2,200' to 8,820' . 11 10M BOPE w/ rotating head, spacer spool, 5M annular, flex rams, blind rams, single w/ flex rams from 8,820' to TD	



DRILLING PROGRAM

CASING PROGRAM	SIZE	INTERVAL	WT.	GR.	CPLG.	BURST	COLLAPSE	TENSION
CONDUCTOR	13 3/8"	0 600	54.5	J-55	STC	2,740	1,130	514
SURFACE	9-5/8"	0 2200	40.00	N-80	LTC	5,750	3,090	737
INTERMEDIATE	7"	0 8820	29.00	HCP-110	LTC	11,220	9,750	797
PRODUCTION LINER	5"	8670 11900	18.00	HCP-110	STL	13,940	15,450	341

CEMENT PROGRAM	FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
CONDUCTOR	600	Class G + 3% CACL2	758	100%	15.8 ppg	1.15
SURFACE	Lead 1,700	EXTENDACEM SYSTEM: Type V Cement + 2% Cal-Seal + 0.35% Versaset + 0.3% D-Air 5000 + 6% Salt + 2% Econolite + 0.125 Poly-E-Flake	384	100%	12.0 ppg	2.36
	Tail 500	HALCEM SYSTEM: Class G Cement + 3 lbm/sk Silicalite Compacted + 1% Salt + 0.3% Econolite + 0.25 lbm/sk Poly-E-Flake + 0.25 lbm/sk Kwik Seal + 0.3% D-AIR 5000	195	50%	14.3 ppg	1.30
INTERMEDIATE	Lead 6,370	EXTENDACEM SYSTEM: Class G Cement + 6% Bentonite + 0.2% Econolite + 0.3% Versaset + 0.75% HR-5 + 0.3% Super CBL + 0.2% Halad-322 + 0.125 lb/sk Poly-E-Flake	625	35%	12.5 ppg	1.91
	Tail 2,450	EXPANDACEM SYSTEM: Class G Cement + 4% Bentonite + 0.25 Poly-E-Flake + 0.1% Halad-413 + 5 lb/sk Silicalite Compacted + 0.15% SA-1015 + 0.3% HR-5	298	30%	13.0 ppg	1.64
PRODUCTION LINER	3,230	EXTENDACEM SYSTEM: Class G Cement + 0.2% Super CBL + 0.3% Halad 344 + 0.3% Halad 413 + 5 lb/sk Silicalite + 20% SSA-1 + 2% Bentonite + 0.7% HR-5	193	30%	14.2 ppg	1.52

FLOAT EQUIPMENT & CENTRALIZERS	
CONDUCTOR	PDC drillable float shoe, 1 joint, PDC drillable float collar. Thread lock all float equipment. Install bow spring centralizers on the bottom 3 joints of casing.
SURFACE	PDC drillable float shoe, 1 joint casing, PDC drillable float collar. Thread lock all float equipment. Install bow spring centralizers on the bottom 3 joints of casing & every 3rd joint thereafter.
INTERMEDIATE	Halliburton's PDC drillable 10M, P-110 float shoe, 1 joint, PDC drillable 10M, P-110 float collar. Thread lock all float equipment. Maker joint at +/- 6,850'.
LINER	Float shoe, 1 joint, float collar, 1 joint, landing collar. Thread lock all FE. Maker joints every 1000'.

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

MANAGER: Bob Dodd

EP ENERGY E&P COMPANY, L.P.
WHITE 3-14C5
SECTION 14, T3S, R5W, U.S.B.&M.

BEGIN AT THE INTERSECTION OF 700 WEST STREET AND US 40 IN DUCHESNE, UTAH AND PROCEED NORTH ON GRAVEL COUNTY B ROAD APPROXIMATELY 3.54 MILES TO THE WHITE 2-23C5 WELL LOCATION;

CONTINUE ON SAID GRAVEL ROAD 1.18 MILES TO THE BEGINNING OF THE ACCESS ROAD;

TURN RIGHT AND FOLLOW FLAGS ON PROPOSED ACCESS ROAD SOUTHEASTERLY 0.81 TO THE PROPOSED WELL;

TOTAL DISTANCE FROM DUCHESNE, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 5.53 MILES.

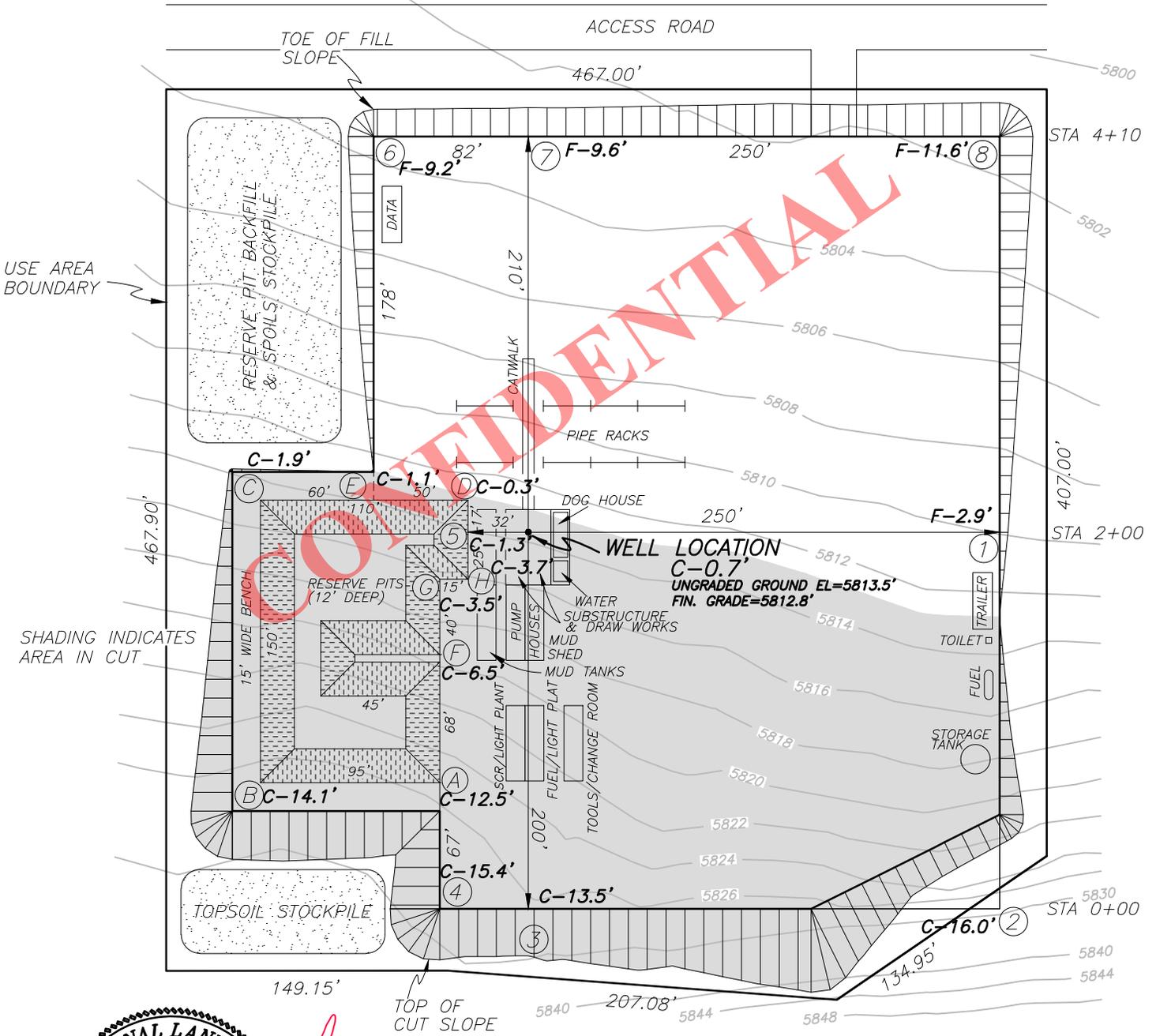
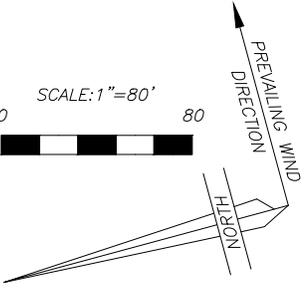
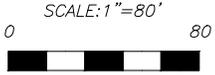
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FIGURE #1

LOCATION LAYOUT FOR WHITE 3-14C5

SECTION 14, T3S, R5W, U.S.B.&M. 1822' FSL, 1721' FEL



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REV 23 MAR 2015
REV 24 FEB 2015
5 APR 2013

01-128-385

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

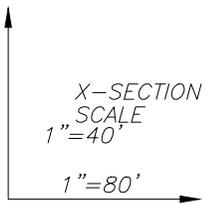
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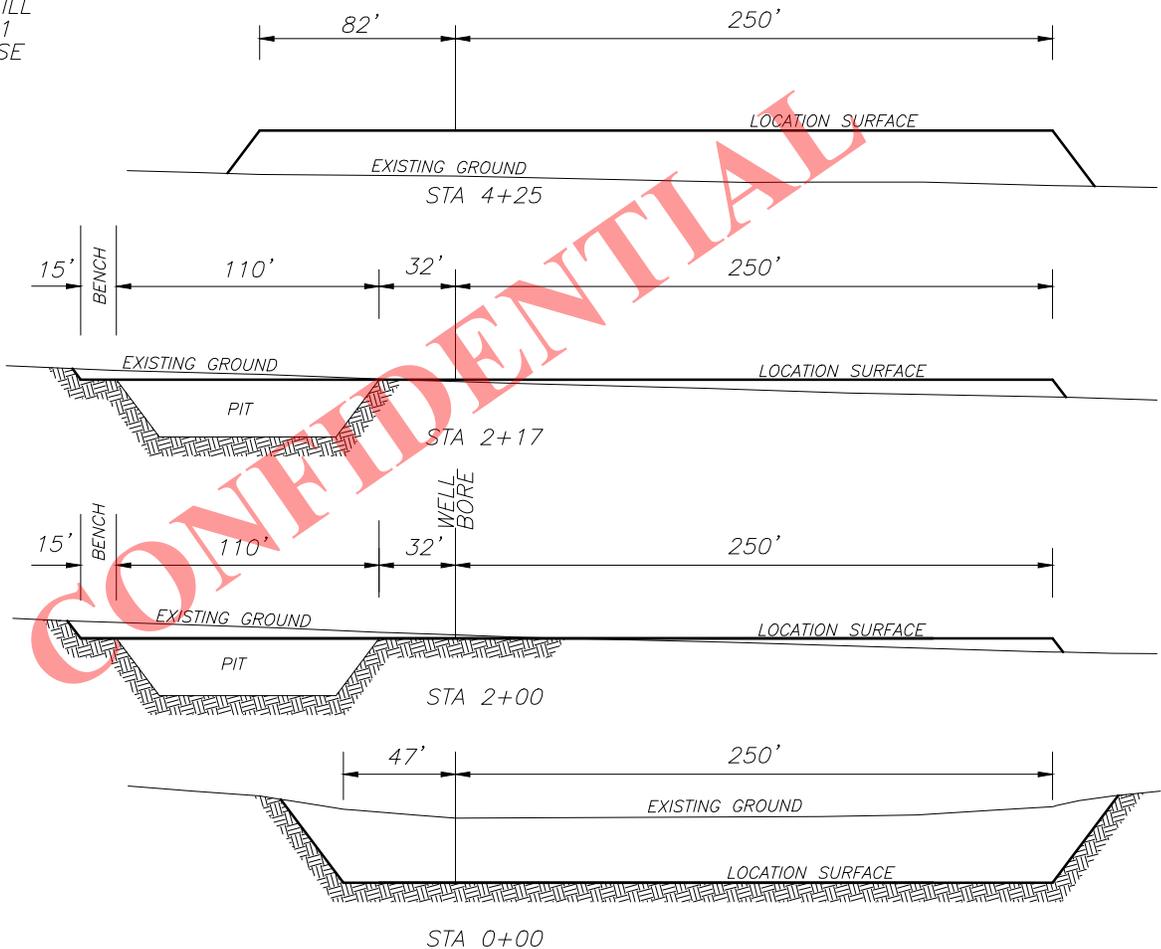
FIGURE #2

LOCATION LAYOUT FOR WHITE 3-14C5

SECTION 14, T3S, R5W, U.S.B.&M.
1822' FSL, 1721' FEL



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



APPROXIMATE QUANTITIES

TOTAL CUT (INCLUDING PIT) = 27,338 CU. YDS.

PIT CUT = 4288 CU. YDS.
TOPSOIL STRIPPING: (6") = 3174 CU. YDS.
REMAINING LOCATION CUT = 19,876 CU. YDS

TOTAL FILL = 18,991 CU. YDS.

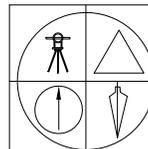
LOCATION SURFACE GRAVEL=1533 CU. YDS. (4" DEEP)

ACCESS ROAD GRAVEL=1155 CU. YDS.



REV 23 MAR 2015
REV 24 FEB 2015
5 APR 2013

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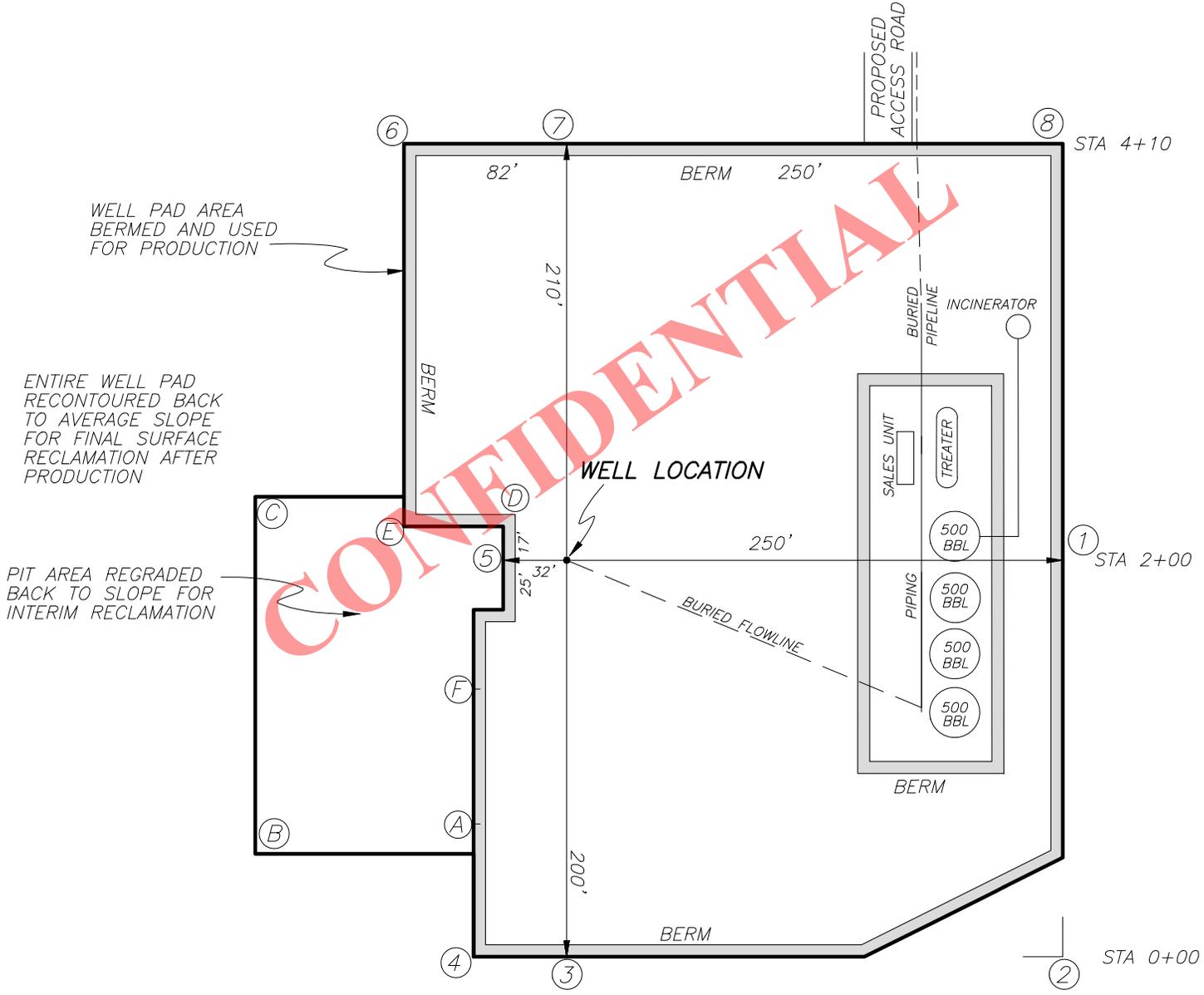
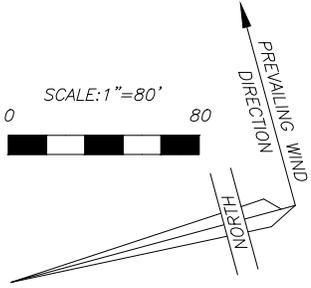
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EP ENERGY E&P COMPANY, L.P.

FIGURE #3

LOCATION LAYOUT FOR WHITE 3-14C5

SECTION 14, T3S, R5W, U.S.B.&M.
1822' FSL, 1721' FEL



WELL PAD AREA
BERMED AND USED
FOR PRODUCTION

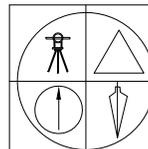
ENTIRE WELL PAD
RECONTOURED BACK
TO AVERAGE SLOPE
FOR FINAL SURFACE
RECLAMATION AFTER
PRODUCTION

PIT AREA REGRADED
BACK TO SLOPE FOR
INTERIM RECLAMATION



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5 APR 2013

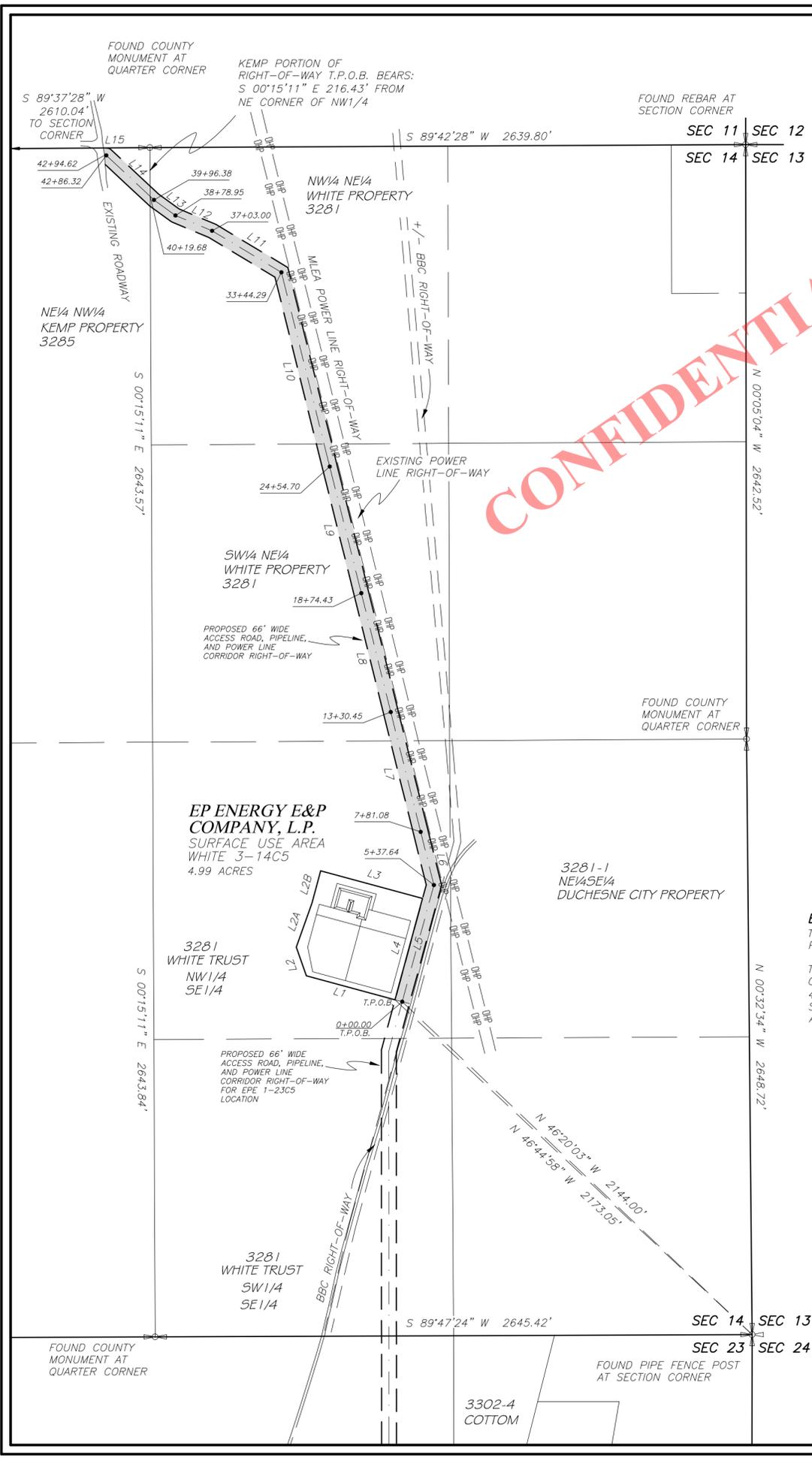
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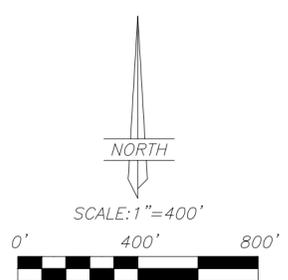
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LINE TABLE

LINE	BEARING	DISTANCE
L1	N 74°51'03" W	407.00'
L2	N 19°15'09" W	134.95'
L2A	N 19°25'43" E	207.08'
L2B	N 15°06'23" E	149.15'
L3	S 74°51'03" E	467.90'
L4	S 15°08'57" W	467.00'
L5	N 15°08'57" E	537.64'
L6	N 13°56'30" W	243.45'
L7	N 13°59'21" W	549.37'
L8	N 13°50'36" W	543.82'
L9	N 13°58'57" W	580.19'
L10	N 13°54'35" W	889.58'
L11	N 59°00'50" W	358.71'
L12	N 67°11'56" W	175.95'
L13	N 53°58'26" W	117.42'
L14	N 46°54'32" W	289.94'
L15	S 89°37'37" W	8.30'

BASIS OF BEARINGS
 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

LOCATION USE AREA AND ACCESS ROAD, POWER LINE, AND PIPELINE CORRIDOR RIGHT-OF-WAY SURVEY FOR
EP ENERGY E&P COMPANY, L.P.
WHITE 3-14C5
 SECTION 14, T3S, R5W, U.S.B.&M.
 DUCHESNE COUNTY, UTAH

USE AREA BOUNDARY DESCRIPTION
 Commencing at the Southeast Corner of Section 14, Township 3 South, Range 5 West of the Uintah Special Base and Meridian;
 Thence North 46°44'58" West 2173.05 feet to the TRUE POINT OF BEGINNING;
 Thence North 74°51'03" West 407.00 feet;
 Thence North 19°15'09" West 134.95 feet;
 Thence North 19°25'43" East 207.08 feet;
 Thence North 15°06'23" East 149.15 feet;
 Thence South 74°51'03" East 467.90 feet;
 Thence South 15°08'57" West 467.00 feet to the TRUE POINT OF BEGINNING, containing 4.99 acres.

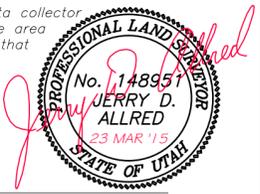
ACCESS ROAD, PIPELINE, AND POWER LINE CORRIDOR RIGHT-OF-WAY DESCRIPTION
 Commencing at the Southeast Corner of Section 14, Township 3 South Range 5 West of the Uintah Special Base and Meridian;
 Thence North 46°20'03" West 2144.00 feet to the TRUE POINT OF BEGINNING;
 Thence North 15°08'57" East 537.64 feet;
 Thence North 13°58'28" West 792.81 feet;
 Thence North 13°50'36" West 543.98 feet;
 Thence North 13°58'57" West 580.19 feet;
 Thence North 13°54'35" West 889.66 feet;
 Thence North 59°00'50" West 358.71 feet;
 Thence North 67°11'56" West 175.95 feet;
 Thence North 53°58'26" West 117.42 feet;
 Thence North 46°54'57" West 129.98 feet;
 Thence North 46°54'11" West 159.96 feet;
 Thence South 89°37'41" West 8.30 feet to the edge of an existing road. Said right-of-way being 4294.62 feet in length with the sidelines being shortened or elongated to intersect said roadway.

RIGHT-OF-WAY DESCRIPTION (WHITE)
 A 66 feet wide access road, pipeline, and power line corridor right-of-way over portions of Section 14, Township 3 South, Range 5 West of the Uintah Special Base and Meridian, the centerline of which is further described as follows;
 Commencing at the SE Corner of said Section 14;
 Thence North 46°20'03" West 2144.00 feet to the TRUE POINT OF BEGINNING,
 Thence North 15°08'57" East 537.64 feet;
 Thence North 13°58'28" West 792.81 feet;
 Thence North 13°50'36" West 543.98 feet;
 Thence North 13°58'57" West 580.19 feet;
 Thence North 13°54'35" West 889.66 feet;
 Thence North 59°00'50" West 358.71 feet;
 Thence North 67°11'56" West 175.95 feet;
 Thence North 53°58'26" West 117.42 feet;
 Thence North 46°54'57" West 23.30 feet;
 to the West line of the NW1/4 of the NE1/4 of said Section 14. Said right-of-way being 4019.68 feet in length or 243.62 rods, with the sidelines being shortened or elongated to intersect said aliquot part line.

RIGHT-OF-WAY DESCRIPTION (KEMP)
 Commencing at the Northeast Corner of the NW1/4 of Section 14, Township 3 South, Range 5 West of the Uintah Special Base and Meridian;
 Thence South 00°15'11" East 216.43 feet along the East line of said NW1/4 of said Section 14 to the TRUE POINT OF BEGINNING;
 Thence North 46°54'37" West 266.64 feet;
 Thence South 89°37'28" West 8.29 feet to the EAST line of an existing road. Said right-of-way being 274.94 feet in length or 16.66 rods, with the sidelines being shortened or elongated to intersect said aliquot part line and said road-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-way shown hereon, and that the monuments indicated were found or set during said survey, and that this plat accurately represents said survey to the best of my knowledge.



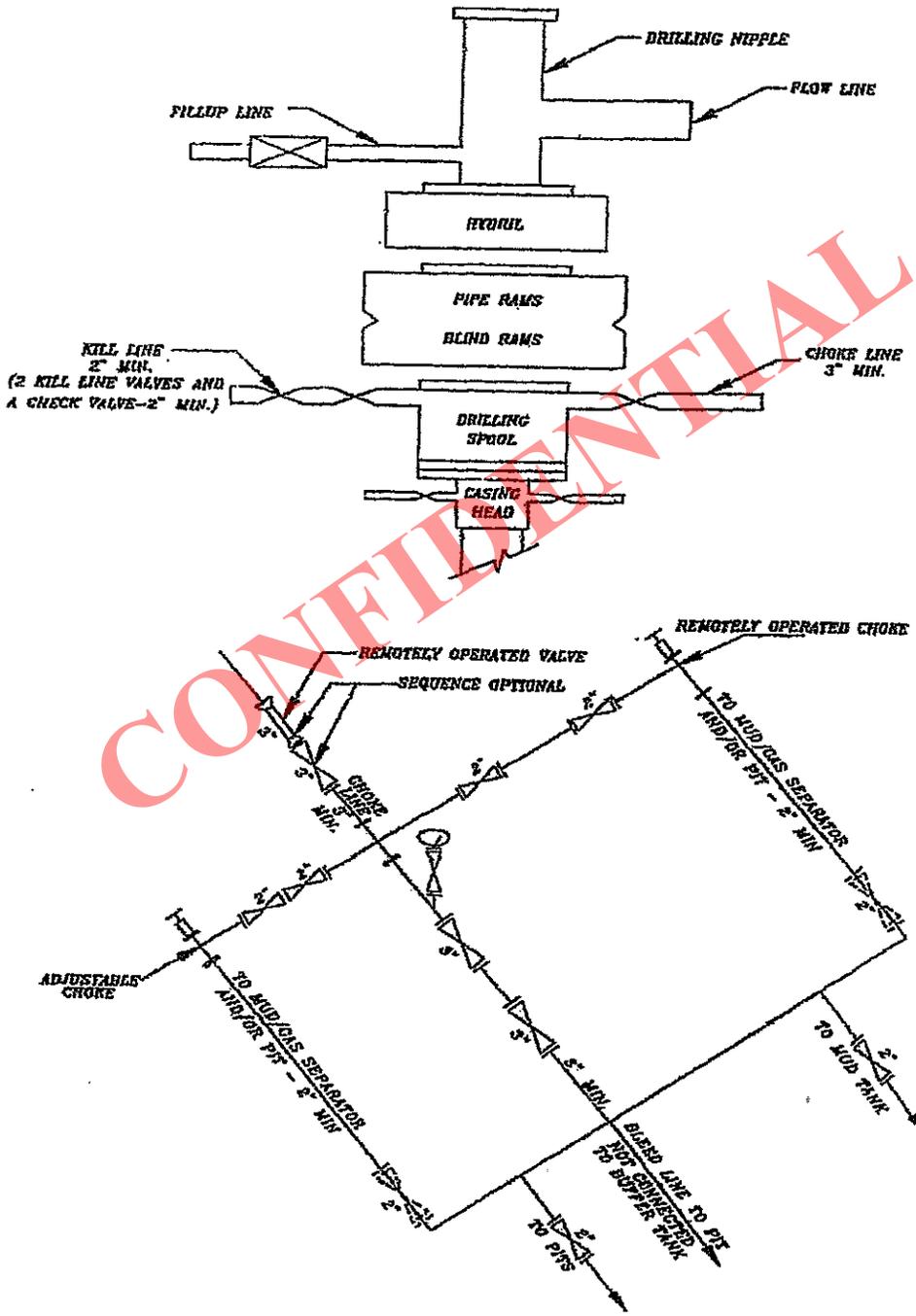
JERRY D. ALLRED, PROFESSIONAL LAND SURVEYOR,
 CERTIFICATE NO. 148951 (UTAH)

COUNTY SURVEYOR FILE NO.

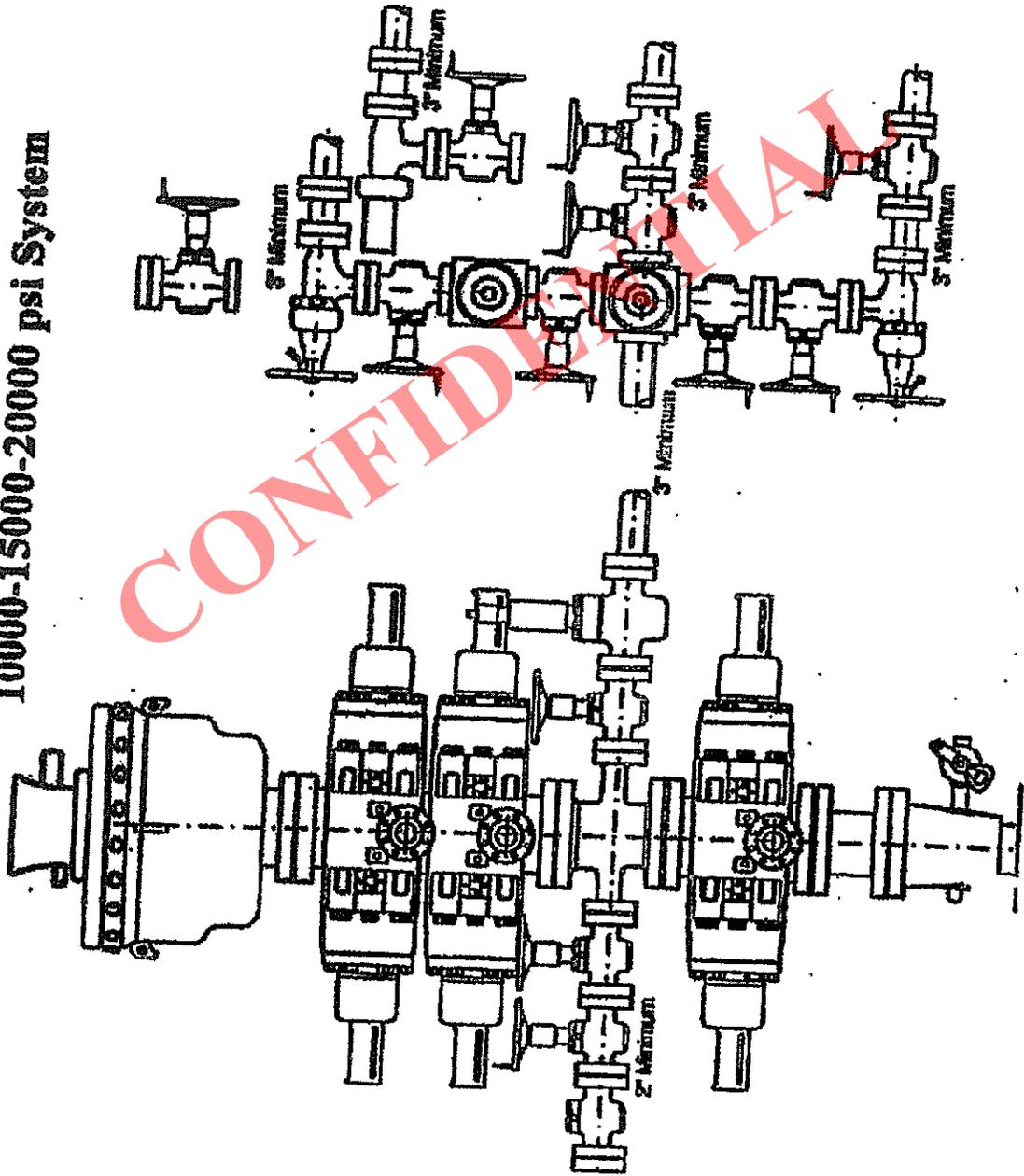
JERRY D. ALLRED & ASSOCIATES
 SURVEYING CONSULTANTS
 1235 NORTH 700 EAST--P.O. BOX 975
 DUCHESNE, UTAH 84021
 (435) 738-5352

REV 23 MAR 2015
 REV 23 FEB 2015
 REV 18 SEP 2013
 5 APR 2013 01-128-385

5M BOP STACK and CHOKE MANIFOLD SYSTEM



10000-15000-20000 psi System

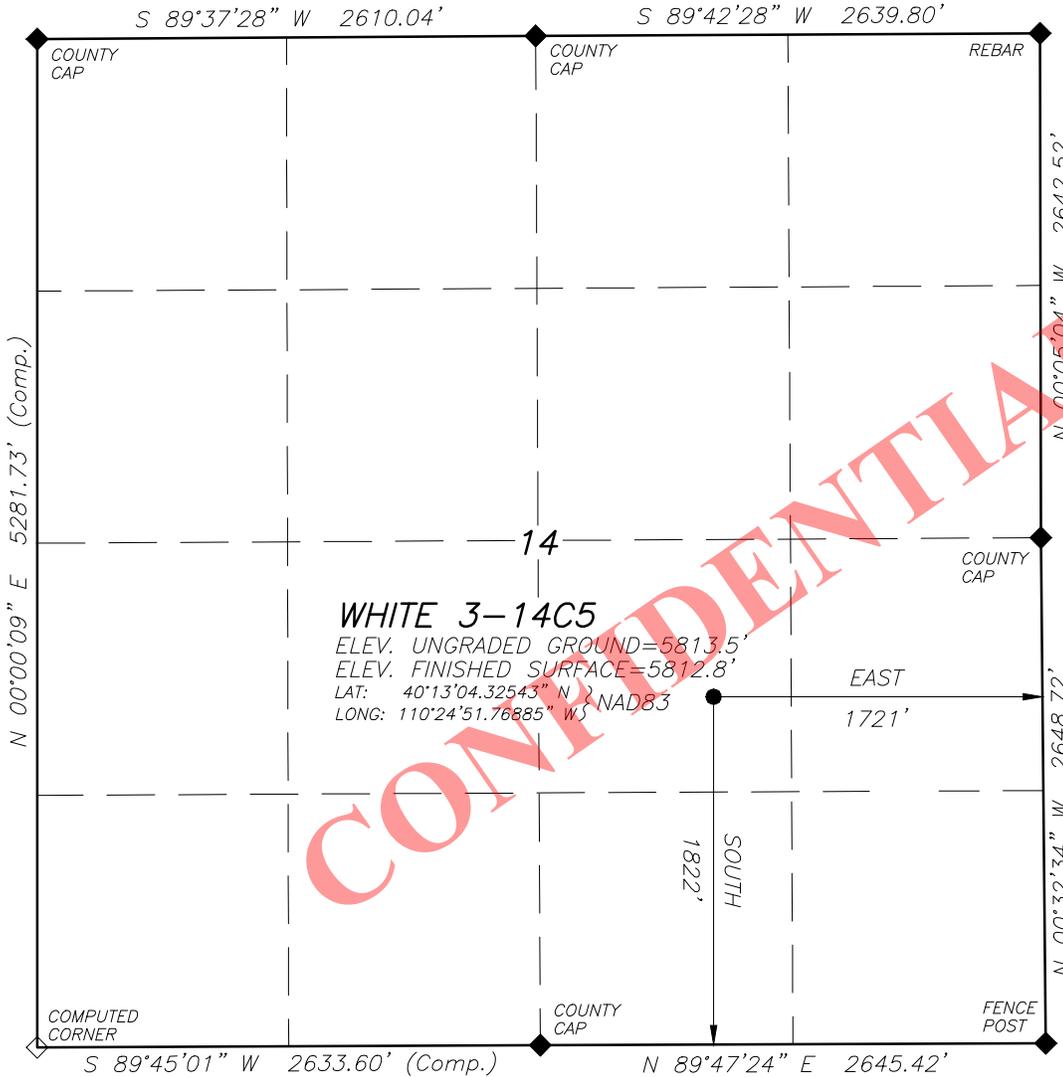


EP ENERGY E&P COMPANY, L.P.

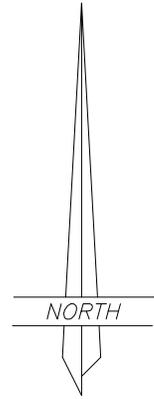
WELL LOCATION

WHITE 3-14C5

LOCATED IN THE NW¼ OF THE SE¼ OF SECTION 14, T3S, R5W, U.S.B.&M. DUCHESNE COUNTY, UTAH



CONFIDENTIAL



SCALE: 1" = 1000'



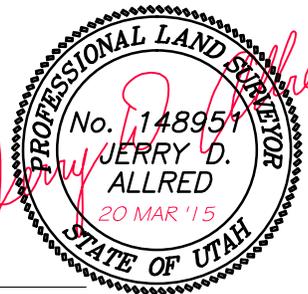
NOTE:
NAD27 VALUES FOR WELL POSITION:
LAT: 40.21791158° N
LONG: 110.41366891° W

LEGEND AND NOTES

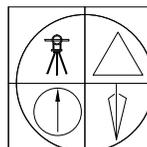
- ◆ CORNER MONUMENTS FOUND AND USED BY THIS SURVEY
- THE GENERAL LAND OFFICE (G.L.O.) PLAT WAS USED FOR REFERENCE AND CALCULATIONS AS WAS THE U.S.G.S. MAP
- THIS SURVEY WAS PERFORMED USING GLOBAL POSITIONING SYSTEM PROCEDURES AND EQUIPMENT
- THE BASIS OF BEARINGS IS GEODETIC NORTH DERIVED FROM G.P.S.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

SURVEYOR'S CERTIFICATE

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



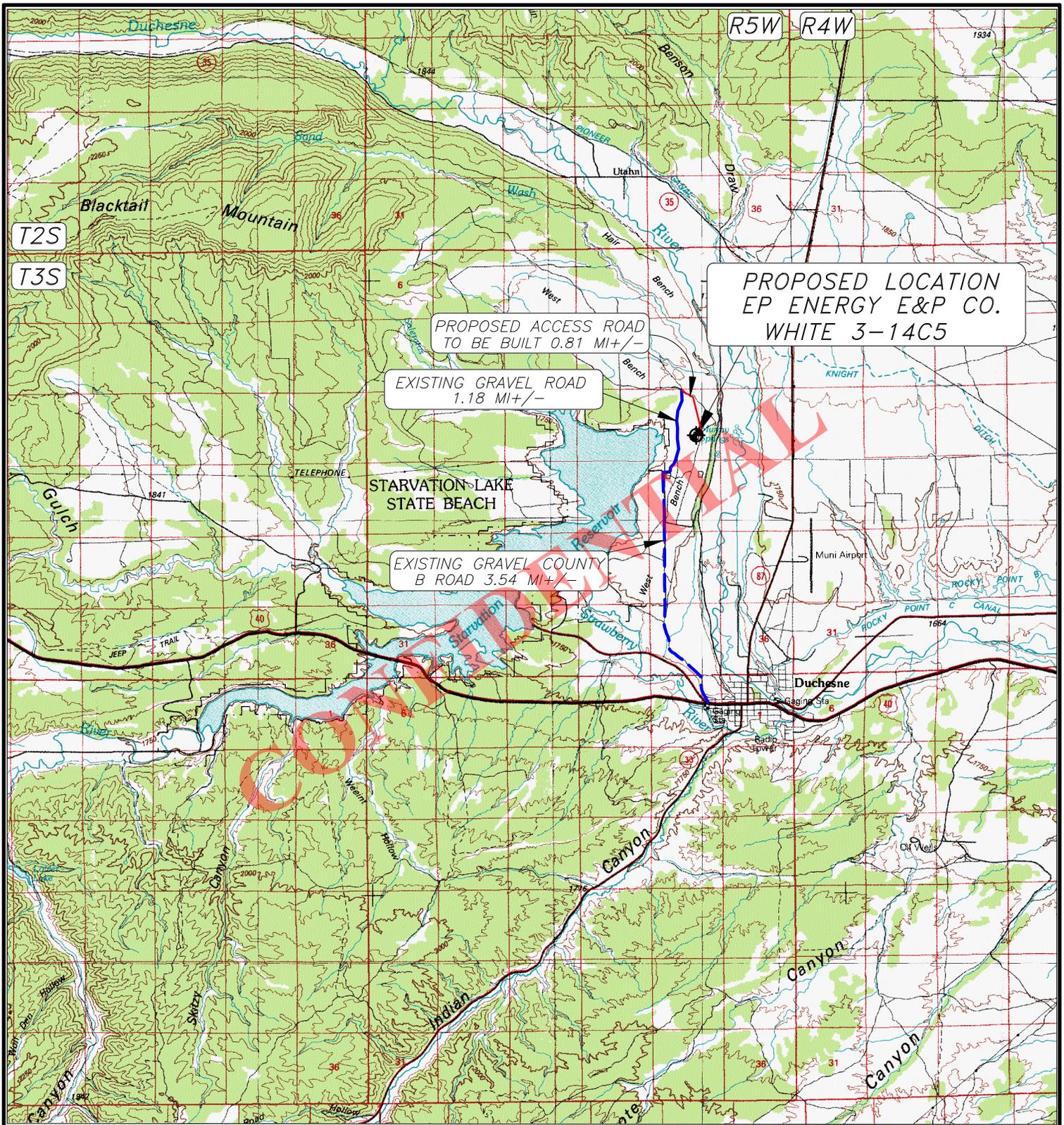
JERRY D. ALLRED, PROFESSIONAL LAND SURVEYOR, CERTIFICATE NO. 148951 (UTAH)



JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS

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

REV 20 MAR 2015
5 APR 2013 01-128-385



PROPOSED LOCATION
EP ENERGY E&P CO.
WHITE 3-14C5

PROPOSED ACCESS ROAD
TO BE BUILT 0.81 MI +/-

EXISTING GRAVEL ROAD
1.18 MI +/-

EXISTING GRAVEL COUNTY
B ROAD 3.54 MI +/-

STARVATION LAKE
STATE BEACH

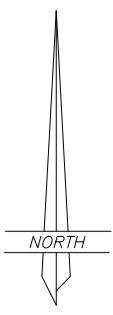
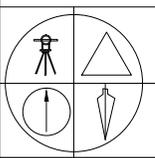
LEGEND:

 PROPOSED WELL LOCATION

01-128-385

JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS

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



EP ENERGY E&P COMPANY, L.P.

WHITE 3-14C5

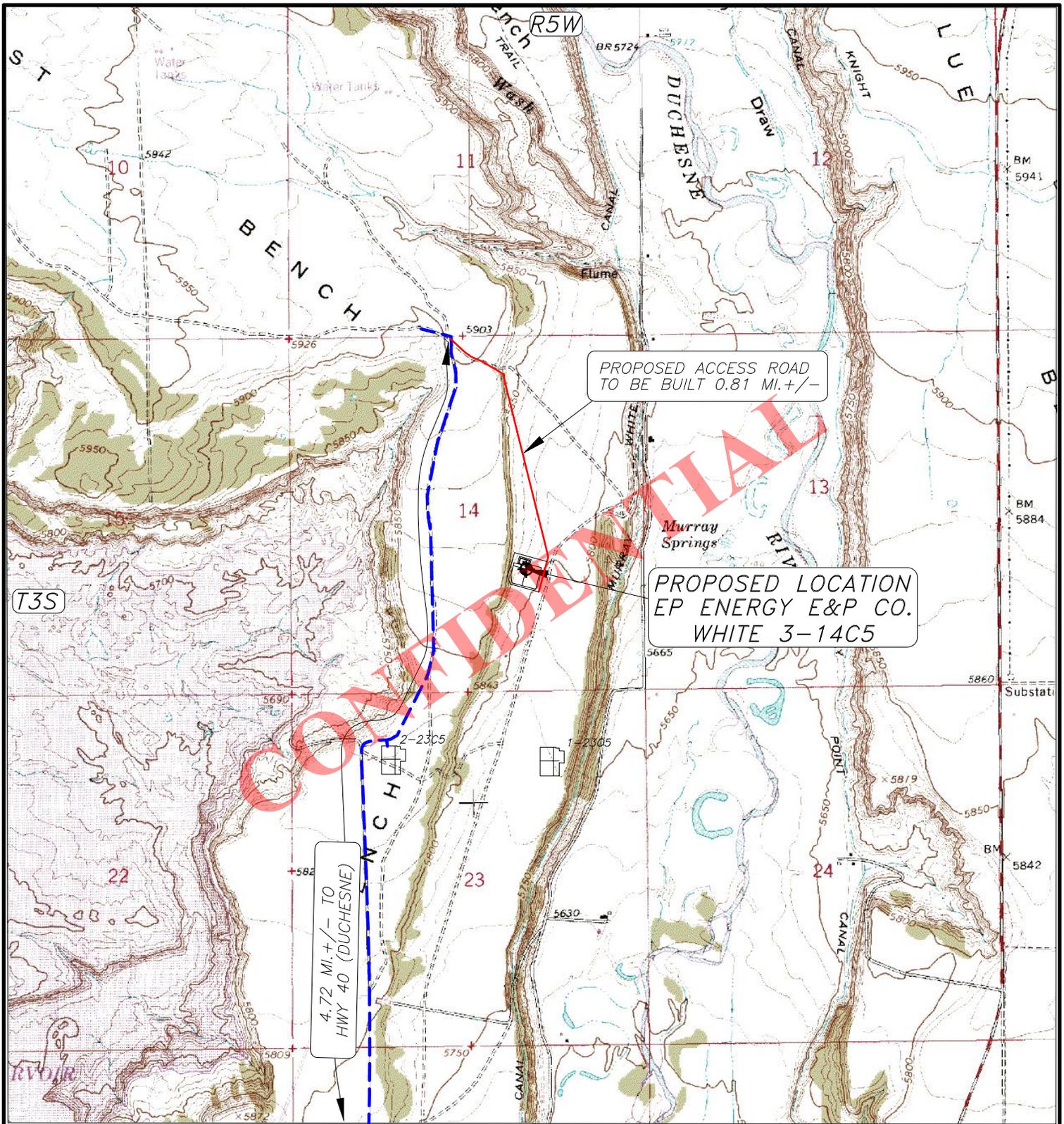
SECTION 14, T3S, R5W, U.S.B.&M.

1822' FSL 1721' FEL

TOPOGRAPHIC MAP "A"

SCALE; 1"=10,000'

REV 23 MAR 2015



PROPOSED ACCESS ROAD
TO BE BUILT 0.81 MI. +/-

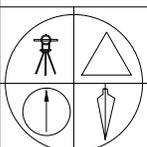
PROPOSED LOCATION
EP ENERGY E&P CO.
WHITE 3-14C5

4.72 MI +/- TO
HWY 40 (DUCHESSNE)

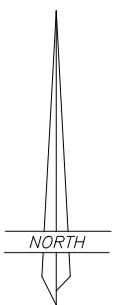
LEGEND:

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

01-128-385



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



EP ENERGY E&P COMPANY, L.P.

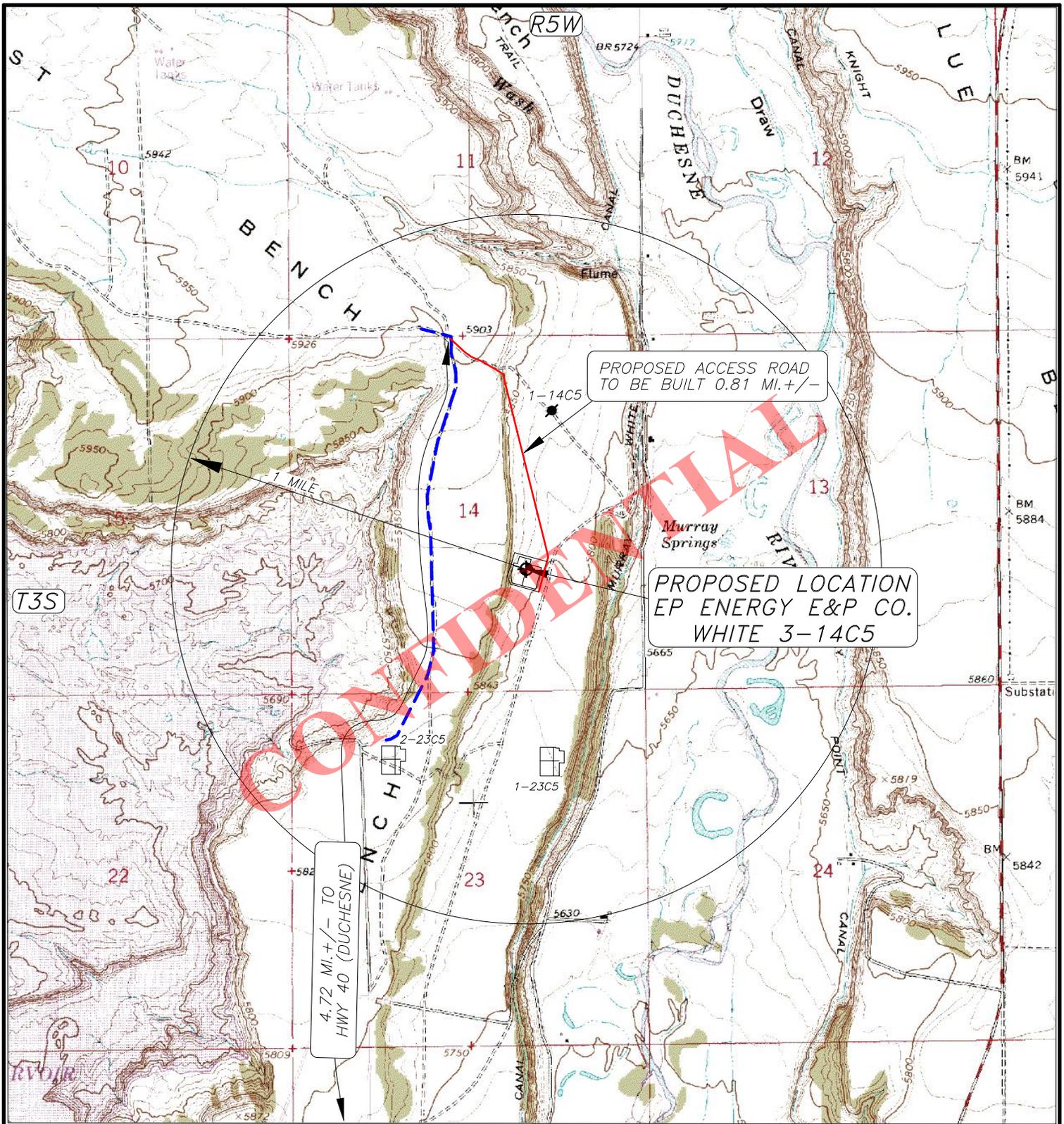
WHITE 3-14C5

SECTION 14, T3S, R5W, U.S.B.&M.

1822' FSL 1721' FEL

TOPOGRAPHIC MAP "B"

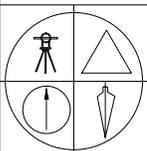
SCALE; 1"=2000'
REV 23 MAR 2015



LEGEND:

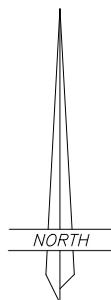
- PROPOSED WELL LOCATION
- OTHER WELLS AS LOCATED FROM SUPPLIED MAP

01-128-385



JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS

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



EP ENERGY E&P COMPANY, L.P.

WHITE 3-14C5

SECTION 14, T3S, R5W, U.S.B.&M.

1822' FSL 1721' FEL

TOPOGRAPHIC MAP "C"

SCALE; 1"=2000'
REV 23 MAR 2015

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 .40 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 .40 miles will parallel the proposed access road. The corridor will contain one 4 inch gas line and one 2 inch gas line and one 2 inch Salt Water disposal line. Rehabilitation of unneeded, previously disturbed areas will consist of backfilling and contouring the reserve pit area; backsloping and contouring all cut and fill slopes. These areas will be reseeded. Refer to plans for reclamation of surface for details.
 - Upgrade and maintain access roads and drainage control structures (e.g., culverts, drainage dips, ditching, etc.) as necessary to prevent soil erosion and accommodate safe, year-round traffic.
6. **Construction Materials:**
 - Native soil from road and location will be used for construction materials along with gravel and/or scoria road base material. In the event that conditions should necessitate graveling of all or part of the access road and location, surfacing materials will be purchased from commercial suppliers in the marketing area.
7. **Methods For Handling Waste Disposal:**
 - The reserve pit will be designed to prevent the collection of surface runoff and will be constructed with a minimum of ½ the total depth below the original ground surface on the lowest point with the pit. The pit will be lined with a 20-mil polyethylene to prevent leakage of fluids. The liner will be rolled into place and secured at the ends, i.e. buried on top of the pit berms. Prior to use, the reserve pit will be fenced on three sides; the fourth side will be fenced at the time the rig is removed. Drilling fluids, cuttings and produced water will be contained in the reserve pit (trash will be placed in the trash cage). Fluids in the reserve pit will be allowed to evaporate prior to pit burial.
 - Garbage and other trash will be contained in the portable trash cage and hauled off the location to an authorized disposal site. Any trash on the pad will be cleaned up prior to the rig moving off location and hauled to an authorized disposal site.
 - Sewage will be handled in Portable Toilets.
 - Produced water will be placed in the reserve pit for a period not to exceed ninety days after initial production. Any hydrocarbons produced during completion work will be contained in test tanks and removed from the location at a later date.
 - Water from the reserve pit may be used for drilling of additional wells. The water will be trucked along access roads as approved in pertinent APD's
8. **Ancillary Facilities:**
 - There will be no ancillary facilities associated with this project.

9. Surface Reclamation Plans:

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

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

10. Surface Ownership:

SEE ATTACHED.

Other Information:

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

• **Operator and Contact Persons:**

Construction and Reclamation:

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

Regarding This APD

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

Drilling

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

SURFACE OWNERS

Alan B. White and JaniceK. White. Trustees of the Alan B. White Trust
1020 Sage Creek Ct
Heber City. UT 84032
Phone:(208)484-7671

Larry M. White
13500 Central Avenue SW
Albuquerque. NM 87121
Phone: (505) 206-8377

Thomas L. White
19360 S. W. Cappoen Road
Sherwood. Oregon 97140
Phone:(503)625-5030

Penny L. Smith
12627 South 1565 East
Draper. Utah 84020
Phone: (801) 598-3939

Gloria W. Jensen and Ray A. Jensen. Trustees of the Gloria W. Jensen Family Trust,
dated July 7. 2011
889 North 340 East
American Fork. UT 84003
Phone: (801) 756-5433

Amber L. Dial
3403 Terrace Heights Drive
Yakima. WA 98901
Phone: (509) 307-9053

Kenneth Dean Mitchell
1902 Ekelman Rd. Yakima, WA 98901
Phone: (509) 248-0058

Michel Mitchell
9566 Everett Ct.
Broomfield, CO 80021-4360
Phone: (509) 248-0058

CONFIDENTIAL



API Number: 4301353272

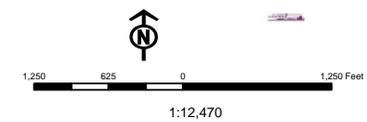
Well Name: White 3-14C5

Township: T03.0S Range: R05.0W Section: 14 Meridian: U

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

Map Prepared: 2/19/2015
Map Produced by Diana Mason

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



Well Name	EP ENERGY E&P COMPANY, L.P. White 3-14C5 43013532720000			
String	Cond	Surf	I1	L1
Casing Size(")	13.375	9.625	7.000	5.000
Setting Depth (TVD)	600	2000	8950	11900
Previous Shoe Setting Depth (TVD)	0	600	2000	8950
Max Mud Weight (ppg)	8.3	8.3	10.3	11.5
BOPE Proposed (psi)	500	500	10000	10000
Casing Internal Yield (psi)	2730	5750	11220	13940
Operators Max Anticipated Pressure (psi)	7116			11.5

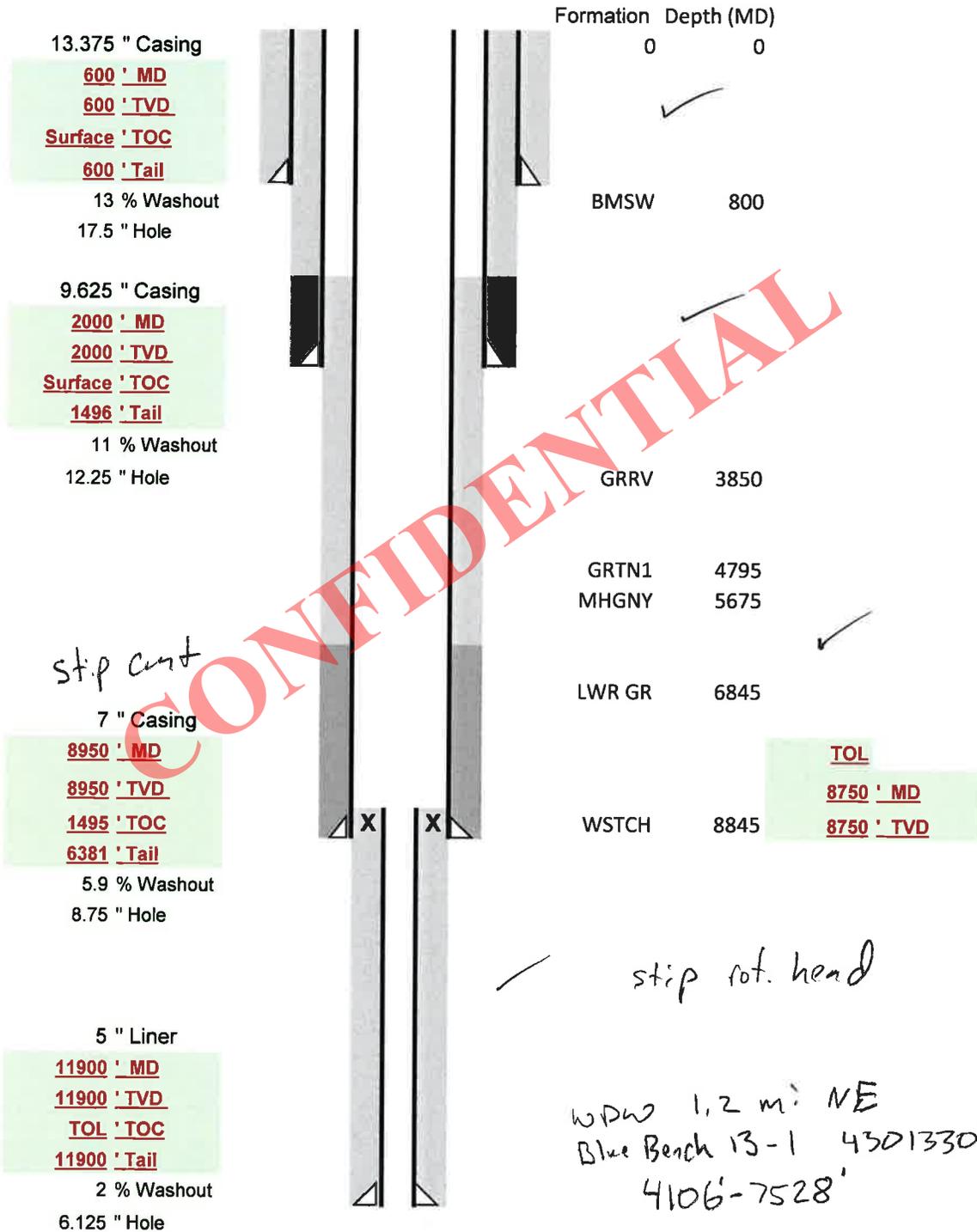
Calculations	Cond String	13.375	"
Max BHP (psi)	.052*Setting Depth*MW=	259	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	187	YES <input type="checkbox"/> diverter system
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	127	YES <input type="checkbox"/> OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	127	NO <input type="checkbox"/> OK <input type="checkbox"/>
Required Casing/BOPE Test Pressure=		500	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=	863	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	623	NO <input type="checkbox"/> diverter, air drilling
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	423	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)=	555	YES <input type="checkbox"/> OK <input type="checkbox"/>
Required Casing/BOPE Test Pressure=		2000	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=	4794	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	3720	YES <input type="checkbox"/> 10M BOP stack, 5M annular
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	2825	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)=	3265	NO <input type="checkbox"/> OK <input type="checkbox"/>
Required Casing/BOPE Test Pressure=		7854	psi
*Max Pressure Allowed @ Previous Casing Shoe=		2000	psi *Assumes 1psi/ft frac gradient

Calculations	L1 String	5.000	"
Max BHP (psi)	.052*Setting Depth*MW=	7116	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	5688	YES <input type="checkbox"/> 10M BOP stack, 5M annular
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	4498	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)=	6467	YES <input type="checkbox"/>
Required Casing/BOPE Test Pressure=		9758	psi
*Max Pressure Allowed @ Previous Casing Shoe=		8950	psi *Assumes 1psi/ft frac gradient

EP ENERGY E&P COMPANY, L.P.
White 3-14C5
43013532720000



EP ENERGY E&P COMPANY, L.P.
White 3-14C5
43013532720000

1.125											1.8													
MAASP	Collapse Strength (psi)	Collapse Load (psi)	Collapse DF	Burst Strength (psi)	Burst Load (psi)	Burst DF	Tension Strength (kips)	Tension DF	Neutral Point (ft)	Tension Air (kips)	Tension Buoyed (kips)	MAASP	Collapse Strength (psi)	Collapse Load (psi)	Collapse DF	Burst Strength (psi)	Burst Load (psi)	Burst DF	Tension Strength (kips)	Tension DF	Neutral Point (ft)	Tension Air (kips)	Tension Buoyed (kips)	
-72	1130	0	#DIV/0!	2730	554	4.92	514	15.72	600	32.7	32.7													
MW (ppg)	Internal Grad. (psi)	Backup Mud (ppg)	Internal Mud (ppg)	Max Shoe Pressure (psi)*	CSG Wt (lbs/ft)	CSG Grade	CSG Collar	Cement Lead (sx)	Lead Yield	Cement Tail (sx)	Tail Yield													
0.0	0.12	0.0	0.0	554	55	J-55	STC	758	1.15	0	0.00													
MAASP	Collapse Strength (psi)	Collapse Load (psi)	Collapse DF	Burst Strength (psi)	Burst Load (psi)	Burst DF	Tension Strength (kips)	Tension DF	Neutral Point (ft)	Tension Air (kips)	Tension Buoyed (kips)													
422	3090	862	3.58	5750	2000	2.88	737	9.21	1746	80.0	70.1													
MW (ppg)	Internal Grad. (psi)	Backup Mud (ppg)	Internal Mud (ppg)	Max Shoe Pressure (psi)*	CSG Wt (lbs/ft)	CSG Grade	CSG Collar	Cement Lead (sx)	Lead Yield	Cement Tail (sx)	Tail Yield													
8.3	0.22	0.0	0.0	3260	40.0	N-80	LTC	331	2.36	195	1.30													
MAASP	Collapse Strength (psi)	Collapse Load (psi)	Collapse DF	Burst Strength (psi)	Burst Load (psi)	Burst DF	Tension Strength (kips)	Tension DF	Neutral Point (ft)	Tension Air (kips)	Tension Buoyed (kips)													
4491	9200	4789	1.92	11220	6460	1.74	797	3.64	7540	259.6	219.1													
MW (ppg)	Internal Grad. (psi)	Backup Mud (ppg)	Internal Mud (ppg)	Max Shoe Pressure (psi)*	CSG Wt (lbs/ft)	CSG Grade	CSG Collar	Cement Lead (sx)	Lead Yield	Cement Tail (sx)	Tail Yield													
10.3	0.22	0.0	0.0	6460	29.0	HCP-110	LTC	503.0	1.91	315.0	1.64													
MAASP	Collapse Strength (psi)	Collapse Load (psi)	Collapse DF	Burst Strength (psi)	Burst Load (psi)	Burst DF	Tension Strength (kips)	Tension DF	Neutral Point (ft)	Tension Air (kips)	Tension Buoyed (kips)													
4491	13418	7109	1.89	13940	7109	1.96	495	10.58	11346	56.7	46.8													
MW (ppg)	Internal Grad. (psi)	Backup Mud (ppg)	Internal Mud (ppg)	Max Shoe Pressure (psi)*	CSG Wt (lbs/ft)	CSG Grade	CSG Collar	Cement Lead (sx)	Lead Yield	Cement Tail (sx)	Tail Yield													
11.5	0.22	0.0	0.0	8750	18.0	HCP-110	LTC	188.0	1.52	0.0	0.00													

13.375 " Casing

9.625 " Casing

7 " Casing

5 " Casing

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator EP ENERGY E&P COMPANY, L.P.
Well Name White 3-14C5
API Number 43013532720000 **APD No** 11072 **Field/Unit** ALTAMONT
Location: 1/4,1/4 NWSE **Sec** 14 **Tw** 3.0S **Rng** 5.0W 1401 FSL 1415 FEL
GPS Coord (UTM) 549829 4452108 **Surface Owner** Duchesne City Corporation

Participants

Rojean Rowley (Duchesne City landowner); Alan White (Surface owner for White Trust); Randy Frederick (EP Energy); Kelsey Carter (EP Energy); Dennis Ingram (UDOGM); second presite Kelsey Carter (EP Energy); Dennis Ingram (UDOGM)

Regional/Local Setting & Topography

The White 3-14C5 well is proposed in northeastern Utah approximately 4.0 plus miles north of Duchesne and US Highway 40, leaving west of the Gateway Service Station along a county road for 4.5 miles, then southeast along a new access road that was re-staked and will be submitted to DOGM as a change in the coming days. The surface is relatively flat at the proposed location pad and slopes to the southeast, and is on an open, sagebrush bench that runs north to south. Approximately 600 feet to the east the elevation drops into the Duchesne River corridor. The Murray White Canal runs south along the western side of drainage. West of this well site the elevation rises then drops into westerly draining canyons that carry runoff and storm water toward Starvation Reservoir.

Surface Use Plan

Current Surface Use

Wildlife Habitat
 Residential

New Road Miles

Well Pad

Width 357 Length 425

Src Const Material

Onsite

Surface Formation

UNTA

Ancillary Facilities N

Landowner hopes to sub-divide area for housing. Original plate shows access road from the south and west and was moved to the northwest. The operator needs to submit a change or update for the access road, and is why the "New Road Miles" is not filled

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

Sagebrush, pinion/juniper, bunch grass, prickly pear cactus;

Potential over winter elk, mule deer, mountain lion, coyote, fox, rabbit, raccoon, and other smaller mammals native to region.

Soil Type and Characteristics

Reddish-tan, fine grained sandy loam with some clays and underlying cobbles.

Erosion Issues N

Sedimentation Issues N

Site Stability Issues N

Drainage Diversion Required? N

Berm Required? Y

Location and tanks

Erosion Sedimentation Control Required? N

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

Reserve Pit

Site-Specific Factors

Site Ranking

Distance to Groundwater (feet)	>200	0
Distance to Surface Water (feet)	300 to 1000	2
Dist. Nearest Municipal Well (ft)	1320 to 5280	5
Distance to Other Wells (feet)	>1320	0
Native Soil Type	High permeability	20
Fluid Type	Fresh Water	5
Drill Cuttings	Normal Rock	0
Annual Precipitation (inches)		0
Affected Populations	10 to 30	10 to 30
Presence Nearby Utility Conduits	Present	15
	Final Score	53
		1 Sensitivity Level

Characteristics / Requirements

A reserve pit is staked off the northwest side of the location in cut, measuring 110' wide by 150' long by 12' deep.

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

Other Observations / Comments

Access road staked from northwest, Application to Drill shows access road from the south, need to make changes on permit and submit to DOGM. Existing power line east of well pad, if permit needed from Moon Lake the operator needs to do that. Property fence running north/south divides White Trust with Duchesne City property to the east. This fence will need routed around location until pit is closed then put back to original location.

A second presite was done on May 14, 2015 after well pad staking was moved to the west to avoid a buried Bill Barrett pipeline not found on original discovery. Well pad is now on White Trust property only, reserve pit was on east side of location and is now staked off the north side; topsoil storage on northwest side.

Dennis Ingram
Evaluator

3/4/2015
Date / Time

CONFIDENTIAL

**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
11072	43013532720000	LOCKED	OW	P	No
Operator	EP ENERGY E&P COMPANY, L.P.		Surface Owner-APD	Duchesne City Corporation	
Well Name	White 3-14C5		Unit		
Field	ALTAMONT		Type of Work	DRILL	
Location	NWSE 14 3S 5W U 1401 FSL (UTM) 549923E 4451975N		1415 FEL	GPS Coord	

Geologic Statement of Basis

EP proposes to set 600 feet of conductor and 2,000 feet of surface casing both of which will be cemented to surface. The surface hole will be drilled utilizing fresh water mud. The estimated depth to the base of moderately saline ground water is 800 feet. A search of Division of Water Rights records indicates that there are 22 water wells within a 10,000 foot radius of the center of Section 14. These wells range in depth from 35-400 feet. The wells are listed as being used for irrigation, stock watering, municipal, oil exploration and domestic. The wells in this area probably produce water from the Duchesne River Formation and near surface alluvium. The proposed casing and cement should adequately protect ground water in this area.

Brad Hill
APD Evaluator

3/10/2015
Date / Time

Surface Statement of Basis

Surface of proposed location slopes south, southeast and might have drainage issues along the north and west side of locaiton requiring a diversion ditch down those sides. An existing power line runs north/south just east of this reserve pit and the operator is responsible for any permits or notification to Moon Lake regarding this project or well. A second cut and fill sheet was reviewed after this location was moved west approximatgely 100+ feet to avoid an existing Bill Barrett gas line. Also the operator needs to submit access road changes to DOGM showing their proposed northern route rather than the southern originally proposed.

A reserve pit is proposed off the north side of this location in cut, and shall be fenced drilling the drilling program and until it is closed to keep wildlife from entering same. That pit will require a 20 mil synthetic liner and a felt underlayment to help contain drilling fluids.

A presite to permit the White 3-14C5 well was scheduled and done on March 4, 2015 to address issues regarding the drilling and construction of this well. This location crosses two different landowners who were both invited and did attend the presite. A landowner agreement was not in place when this permit was submitted to DOGM for review; however, the operator claims they are "actively working to finalize the Surface Use and Right-of-Agreements" and will submit appropriate notification when they gain it.

Dennis Ingram
Onsite Evaluator

3/4/2015
Date / Time

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 20 mils with a felt sub liner shall be properly installed and maintained in the reserve pit.
Pits	The reserve pit should be located on the northwest side of the location in cut.
Surface	The well site shall be bermed to prevent fluids from entering or leaving the pad.
Surface	Topsoil storage not shown on cut and fill sheet; therefore topsoil storage or pile shall be stored west of corners number 1 & 2 and north of 2 if necessary.

CONFIDENTIAL

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 2/16/2015

API NO. ASSIGNED: 43013532720000

WELL NAME: White 3-14C5

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

PHONE NUMBER: 713 997-5038

CONTACT: Maria S. Gomez

PROPOSED LOCATION: NWSE 14 030S 050W

Permit Tech Review:

SURFACE: 1401 FSL 1415 FEL

Engineering Review:

BOTTOM: 1401 FSL 1415 FEL

Geology Review:

COUNTY: DUCHESNE

LATITUDE: 40.21670

LONGITUDE: -110.41329

UTM SURF EASTINGS: 549923.00

NORTHINGS: 4451975.00

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 139-124
- Effective Date: 11/6/2014
- Siting: 8 WELLS PER SECTION
- R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations: 5 - Statement of Basis - bhll
12 - Cement Volume (3) - daynedoucet
27 - Other - daynedoucet



GARY R. HERBERT
Governor

SPENCER J. COX
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: White 3-14C5
API Well Number: 43013532720000
Lease Number: Fee
Surface Owner: FEE (PRIVATE)
Approval Date: 6/11/2015

Issued to:

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

Authority:

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

Duration:

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

General:

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

Conditions of Approval:

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

Cement volume for the 7" casing shall be determined from actual hole diameter in order to place tail cement from the pipe setting depth back to 6350' MD as indicated in the submitted drilling plan.

A properly lubricated rotating head shall be used while air drilling.

Additional Approvals:

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

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

- Plug and abandonment of the well - contact Dustin Doucet

Notification Requirements:

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

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

Contact Information:

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

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

Reporting Requirements:

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

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

Approved By:



For John Rogers
Associate Director, Oil & Gas

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS	5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: White 3-14C5
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.	9. API NUMBER: 43013532720000
3. ADDRESS OF OPERATOR: 1001 Louisiana , Houston, TX, 77002	9. FIELD and POOL or WILDCAT: ALTAMONT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1822 FSL 1721 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 14 Township: 03.0S Range: 05.0W Meridian: U	COUNTY: DUCHESNE
	STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 6/10/2015	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input checked="" 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 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.

The surface location moved to 1822 FSL & 1721 FEL. The change was made to APD and the attachments were attached but for some reason the attachments were correct but the calls were not on the form and the Statement of Basis also has old location. I have attached the drilling info, plat, topos and surface plan.

Approved by the
June 11, 2015
Oil, Gas and Mining

Date: _____
 By: 

NAME (PLEASE PRINT) Maria S. Gomez	PHONE NUMBER 713 997-5038	TITLE Principal Regulatory Analyst
SIGNATURE N/A	DATE 6/11/2015	

**White 3-14C5
Sec. 14, T3S, R5W
DUCHESNE COUNTY, UT**

EP ENERGY E&P COMPANY, L.P.

DRILLING PROGRAM

1. Estimated Tops of Important Geologic Markers

<u>Formation</u>	<u>Depth</u>
Green River (GRRV)	3,905' TVD
Green River (GRTN1)	4,658' TVD
Mahogany Bench	5,526' TVD
L. Green River	6,890' TVD
Wasatch	8,740' TVD
T.D. (Permit)	11,900' TVD

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

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
Water	Base MSGW	830' MD / TVD
	Green River (GRRV)	3,905' MD / TVD
	Green River (GRTN1)	4,658' MD / TVD
	Mahogany Bench	5,526' MD / TVD
	L. Green River	6,890' MD / TVD
Oil	Wasatch	8,740' MD / TVD

3. Pressure Control Equipment: (Schematic Attached)

A Diverter System on structural pipe from surface to 600' MD/TVD. A Diverter System w/ rotating head from 600' MD/TVD to 2,200' MD/TVD on Conductor. A 10M BOP stack w/ rotating head, spacer spool, 5M annular, flex rams, blind rams & single w/ flex rams used from 2,200' MD/TVD to 8,820' MD/TVD. A 10M BOP stack w/ rotating head, spacer spool, 5M annular, flex rams, blind rams & single w/ flex rams from 8,820' MD/TVD to TD (11,900' MD /TVD).

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

We have pre-set numerous wells around the proposed location and have had no issues.

There are 25 water wells within 10,000' of the proposed location. Due the MSGW being so shallow, I will pre-set 13-3/8" at 600' & 9-5/8" at 2,200'.

There is 1 SWD well within 2.5 miles of the proposed location but none of them are within 1 mile. No pressure communication is expected to be seen, however it is important to be aware of them.

The Blue Bench 1-13C5 SWD is 6,525' or 1.24 miles to the North East of the proposed location. It is owned by Intercept Energy & is an active SWD well. It is injecting into the Upper/Middle Green River & Upper-most Lower Green River. The injection interval is from 4106'-7528'. The injection rate is now ~500 bbls/day @ 500-600 psi (I just got off the phone with Keith who is with Intercept Energy). The pressure dissipates to 300 psi while down on maintenance. Using 300 psi, the EMW @ 4106' is 10.01 ppg. We should not see any pressure from this well since it is Due South of the proposed location. We have drilled as close as 0.98 miles to this SWD & **on fracture orientation** and have not seen any pressure while drilling. **If any pressure communication is seen, we can easily weight up to 10.1 ppg MW to control the wellbore. Our intermediate cement design will be 12.5 ppg lead & 13 ppg tail. We will also pump a weighted spacer.**

OPERATORS MINIMUM SPECIFICATIONS FOR BOPE:

The surface casing will be equipped with a flanged casing head of 5M psi working pressure. An 11" 5M x 11" 10M spool, 11" x 10M psi BOP and 5M psi annular will be nipped up on the surface casing and tested to 250 psi low test / 3,000 psi high test for 10 minutes each prior to drilling out. The surface casing will be tested to 1,000 psi. for 30 mins. Intermediate casing will be tested to the greater of 1,500 psi or 0.22 psi/ft. The choke manifold equipment, upper Kelly cock and floor safety valves will be tested to 5M psi. The annular preventer will be tested to 250 psi low test / 4,000 psi high test. The 10M BOP will be installed with rotating head, spacer spool, 5M annular, flex rams, blind rams & single w/ flex rams from surface shoe to TD. The BOPE will be hydraulically operated.

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

Statement on Accumulator System and Location of Hydraulic Controls:

Precision 406 is expected to be used to drill the proposed well. Operations will commence after approval of this application. Manual and/or hydraulic controls will be in compliance with 5M and 10M psi systems.

Auxiliary Equipment:

- A) Pason Gas Monitoring 2,200' - TD
- B) Mud logger with gas monitor – 2,200' to TD (11,900' MD/TVD)
- C) Choke manifold with one manual and one hydraulic operated choke
- D) Full opening floor valve with drill pipe thread
- E) Upper and lower Kelly cock
- F) Shaker, de-sander and centrifuge

4. Proposed Casing & Cementing Program:

Please refer to the attached Wellbore Diagram.

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

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

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

5. Drilling Fluids Program:

Proposed Mud Program:

Interval	Type	Mud Weight
Surface	Air	Air
Intermediate	WBM	9.3 – 10.3
Production	WBM	10.5 – 11.5

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: 2,200' MD/TVD – TD (11,900' MD/TVD)

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

7. Abnormal Conditions:

Maximum anticipated bottomhole pressure calculated at 11,900' TVD equals approximately 7,116 psi. This is calculated based on a 0.598 psi/ft gradient (11.5 ppg mud density at TD).

Maximum anticipated surface pressure equals approximately 4,498 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/ft).

Maximum anticipated surface pressure based on frac gradient at 7" casing shoe is 0.8 psi/ft at 8,820' TVD = 7,056 psi

BOPE and casing design will be based on the lesser of the two MASPs which is 4,498 psi.

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

DRILLING PROGRAM

CASING PROGRAM	SIZE	INTERVAL		WT.	GR.	CPLG.	BURST	COLLAPSE	TENSION
CONDUCTOR	13 3/8"	0	600	54.5	J-55	STC	2,740	1,130	514
SURFACE	9-5/8"	0	2200	40.00	N-80	LTC	5,750	3,090	737
INTERMEDIATE	7"	0	8820	29.00	HCP-110	LTC	11,220	9,750	797
PRODUCTION LINER	5"	8670	11900	18.00	HCP-110	STL	13,940	15,450	341

CEMENT PROGRAM		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
CONDUCTOR		600	Class G + 3% CACL2	758	100%	15.8 ppg	1.15
SURFACE	Lead	1,700	EXTENDACEM SYSTEM: Type V Cement + 2% Cal-Seal + 0.35% Versaset + 0.3% D-Air 5000 + 6% Salt + 2% Econolite + 0.125 Poly-E-Flake	384	100%	12.0 ppg	2.36
	Tail	500	HALCEM SYSTEM: Class G Cement + 3 lbm/sk Silicalite Compacted + 1% Salt + 0.3% Econolite + 0.25 lbm/sk Poly-E-Flake + 0.25 lbm/sk Kwik Seal + 0.3% D-AIR 5000	195	50%	14.3 ppg	1.30
INTERMEDIATE	Lead	6,370	EXTENDACEM SYSTEM: Class G Cement + 6% Bentonite + 0.2% Econolite + 0.3% Versaset + 0.75% HR-5 + 0.3% Super CBL + 0.2% Halad-322 + 0.125 lb/sk Poly-E-Flake	625	35%	12.5 ppg	1.91
	Tail	2,450	EXPANDACEM SYSTEM: Class G Cement + 4% Bentonite + 0.25 Poly-E-Flake + 0.1% Halad-413 + 5 lb/sk Silicalite Compacted + 0.15% SA-1015 + 0.3% HR-5	298	30%	13.0 ppg	1.64
PRODUCTION LINER		3,230	EXTENDACEM SYSTEM: Class G Cement + 0.2% Super CBL + 0.3% Halad 344 + 0.3% Halad 413 + 5 lb/sk Silicalite + 20% SSA-1 + 2% Bentonite + 0.7% HR-5	193	30%	14.2 ppg	1.52

FLOAT EQUIPMENT & CENTRALIZERS	
CONDUCTOR	PDC drillable float shoe, 1 joint, PDC drillable float collar. Thread lock all float equipment. Install bow spring centralizers on the bottom 3 joints of casing.
SURFACE	PDC drillable float shoe, 1 joint casing, PDC drillable float collar. Thread lock all float equipment. Install bow spring centralizers on the bottom 3 joints of casing & every 3rd joint thereafter.
INTERMEDIATE	Halliburton's PDC drillable 10M, P-110 float shoe, 1 joint, PDC drillable 10M, P-110 float collar. Thread lock all float equipment. Maker joint at +/- 6,850'.
LINER	Float shoe, 1 joint, float collar, 1 joint, landing collar. Thread lock all FE. Maker joints every 1000'.

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

MANAGER: Bob Dodd

EP ENERGY E&P COMPANY, L.P.
WHITE 3-14C5
SECTION 14, T3S, R5W, U.S.B.&M.

BEGIN AT THE INTERSECTION OF 700 WEST STREET AND US 40 IN DUCHESNE, UTAH AND PROCEED NORTH ON GRAVEL COUNTY B ROAD APPROXIMATELY 3.54 MILES TO THE WHITE 2-23C5 WELL LOCATION;

CONTINUE ON SAID GRAVEL ROAD 1.18 MILES TO THE BEGINNING OF THE ACCESS ROAD;

TURN RIGHT AND FOLLOW FLAGS ON PROPOSED ACCESS ROAD SOUTHEASTERLY 0.81 TO THE PROPOSED WELL;

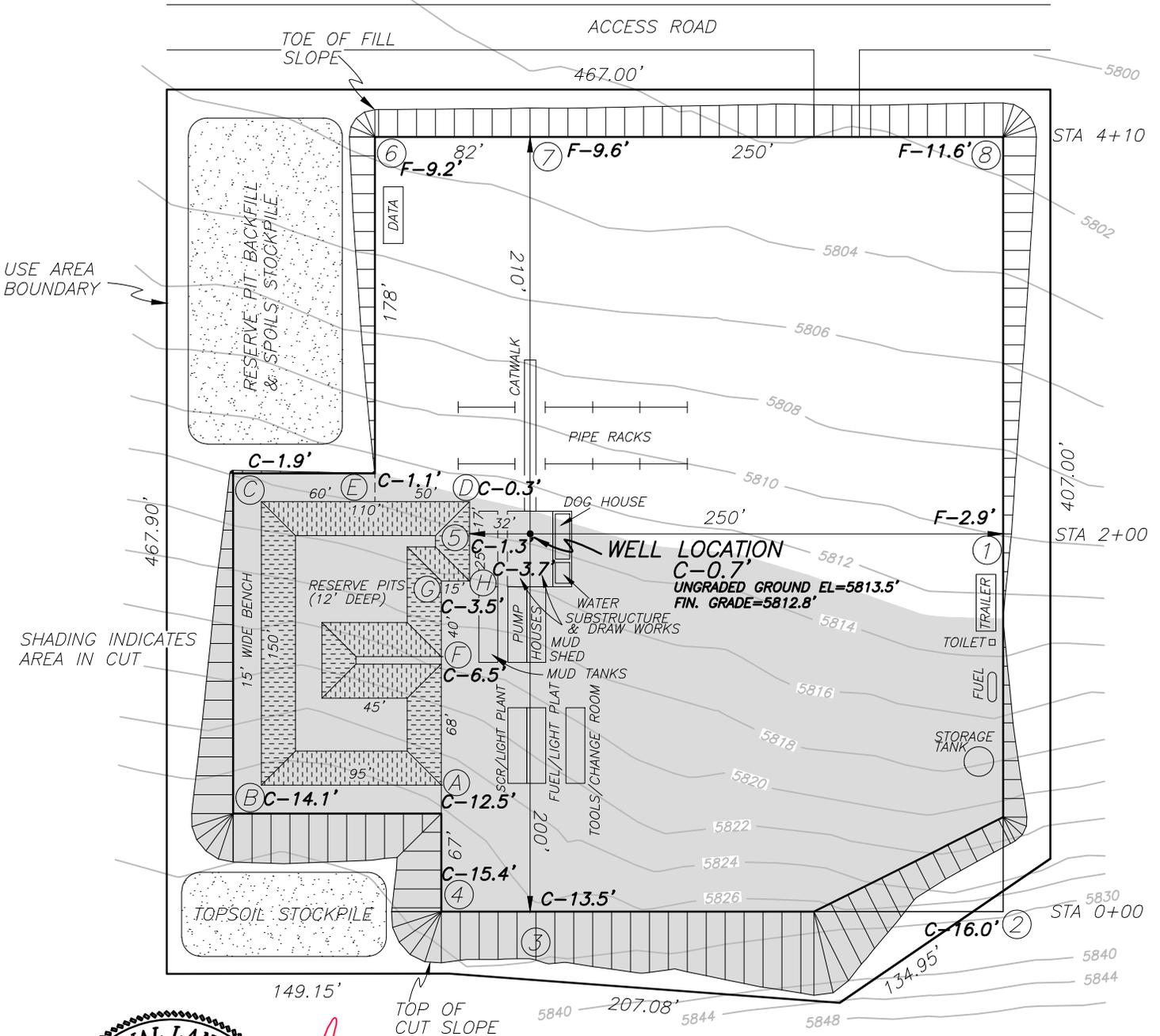
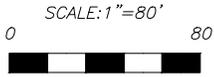
TOTAL DISTANCE FROM DUCHESNE, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 5.53 MILES.

EP ENERGY E&P COMPANY, L.P.

FIGURE #1

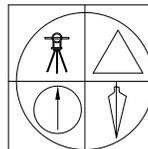
LOCATION LAYOUT FOR WHITE 3-14C5

SECTION 14, T3S, R5W, U.S.B.&M.
1822' FSL, 1721' FEL



REV 23 MAR 2015
REV 24 FEB 2015
5 APR 2013

01-128-385



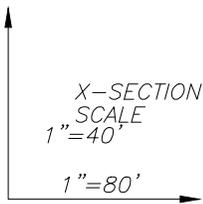
JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS
1235 NORTH 700 EAST--P.O. BOX 975
DUCHESNE, UTAH 84021
(435) 738-5352

EP ENERGY E&P COMPANY, L.P.

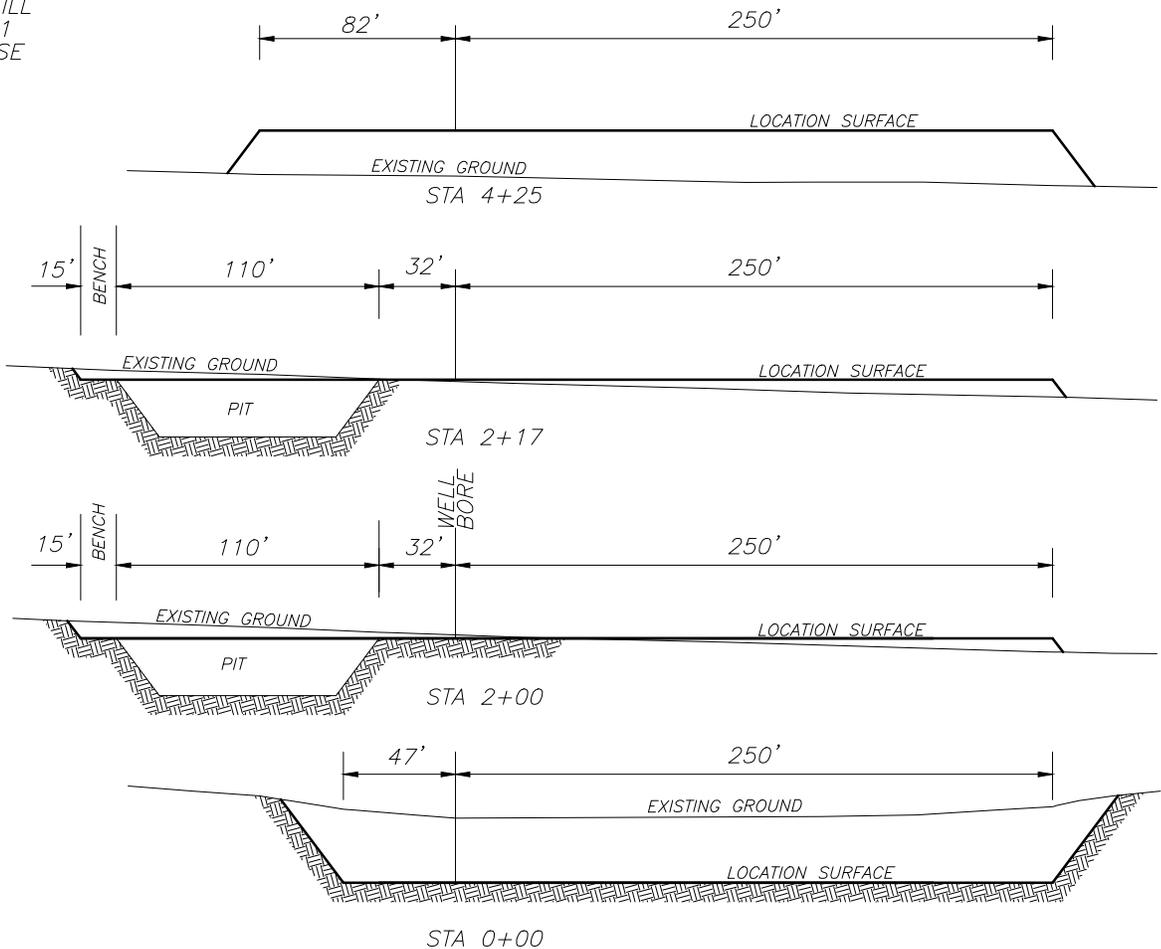
FIGURE #2

LOCATION LAYOUT FOR WHITE 3-14C5

SECTION 14, T3S, R5W, U.S.B.&M.
1822' FSL, 1721' FEL



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



APPROXIMATE QUANTITIES

TOTAL CUT (INCLUDING PIT) = 27,338 CU. YDS.

PIT CUT = 4288 CU. YDS.
TOPSOIL STRIPPING: (6") = 3174 CU. YDS.
REMAINING LOCATION CUT = 19,876 CU. YDS

TOTAL FILL = 18,991 CU. YDS.

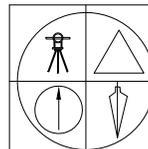
LOCATION SURFACE GRAVEL=1533 CU. YDS. (4" DEEP)

ACCESS ROAD GRAVEL=1155 CU. YDS.



REV 23 MAR 2015
REV 24 FEB 2015
5 APR 2013

01-128-385



JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS

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

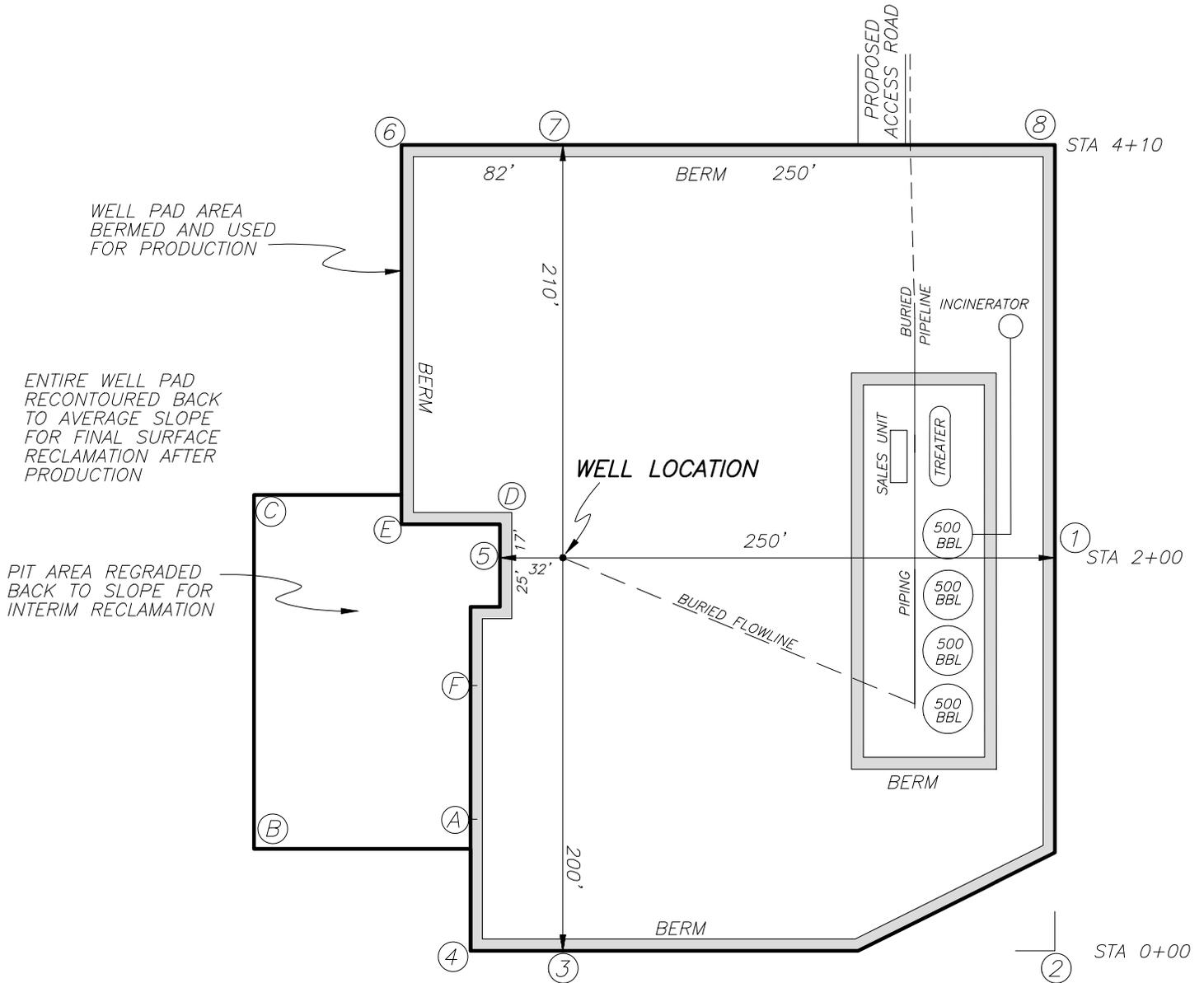
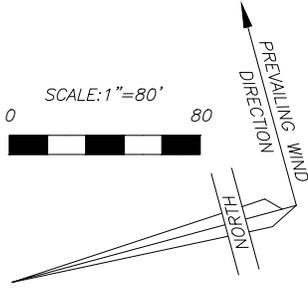
RECEIVED: Jun. 11, 2015

EP ENERGY E&P COMPANY, L.P.

FIGURE #3

LOCATION LAYOUT FOR
WHITE 3-14C5

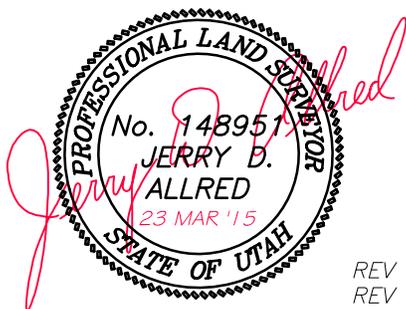
SECTION 14, T3S, R5W, U.S.B.&M.
1822' FSL, 1721' FEL



WELL PAD AREA
BERMED AND USED
FOR PRODUCTION

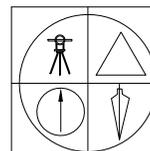
ENTIRE WELL PAD
RECONTOURED BACK
TO AVERAGE SLOPE
FOR FINAL SURFACE
RECLAMATION AFTER
PRODUCTION

PIT AREA REGRADED
BACK TO SLOPE FOR
INTERIM RECLAMATION



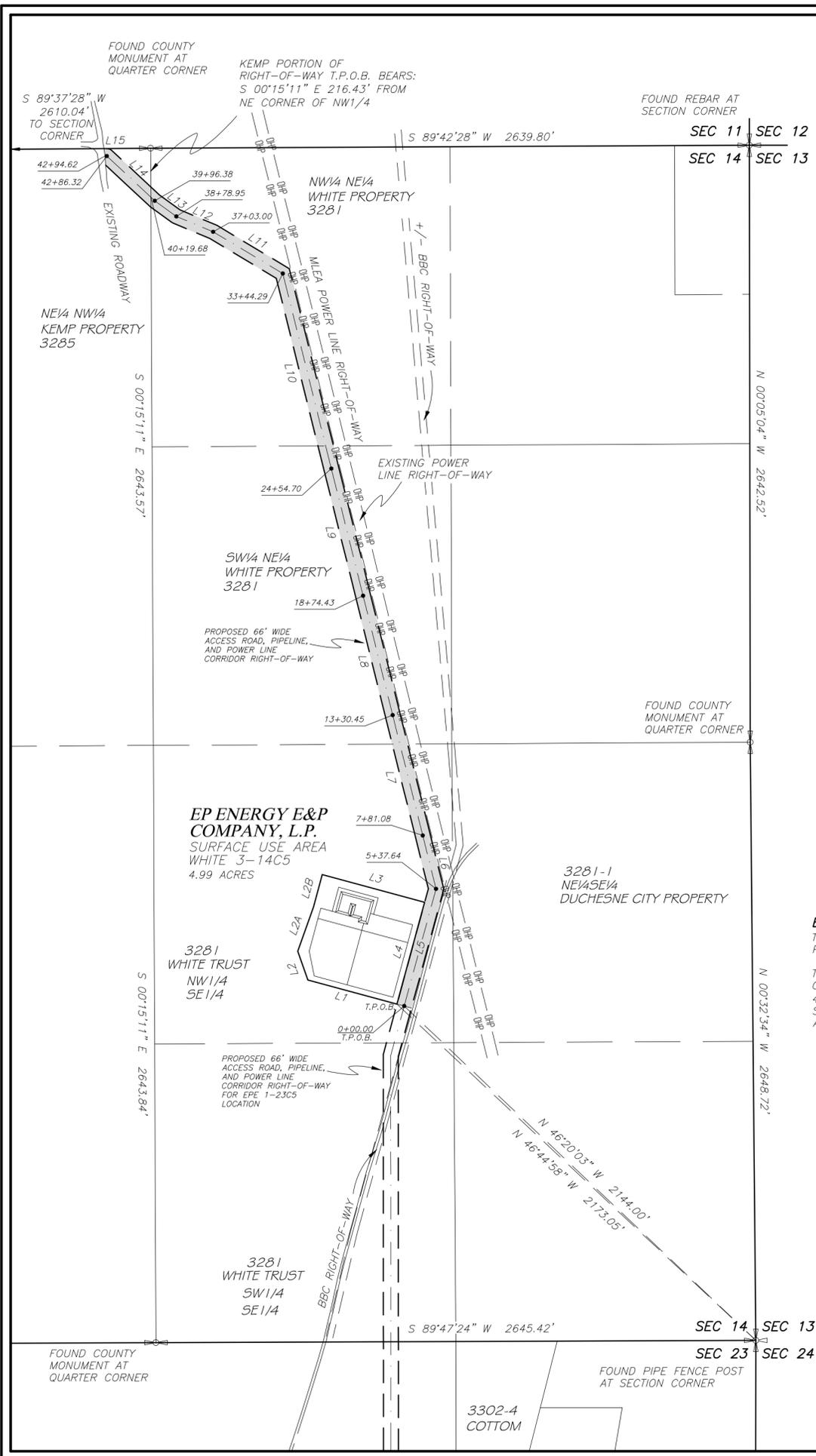
REV 23 MAR 2015
REV 24 FEB 2015
5 APR 2013

01-128-385

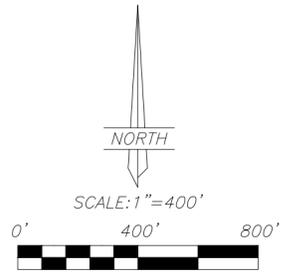


JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS

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.
WHITE 3-14C5
SECTION 14, T3S, R5W, U.S.B.&M.
DUCESNE COUNTY, UTAH



USE AREA BOUNDARY DESCRIPTION
Commencing at the Southeast Corner of Section 14, Township 3 South, Range 5 West of the Uintah Special Base and Meridian;
Thence North 46°44'58" West 2173.05 feet to the TRUE POINT OF BEGINNING;
Thence North 74°51'03" West 407.00 feet;
Thence North 19°15'09" West 134.95 feet;
Thence North 19°25'43" East 207.08 feet;
Thence North 15°06'23" East 149.15 feet;
Thence South 74°51'03" East 467.90 feet;
Thence South 15°08'57" West 467.00 feet to the TRUE POINT OF BEGINNING, containing 4.99 acres.

ACCESS ROAD, PIPELINE, AND POWER LINE CORRIDOR RIGHT-OF-WAY DESCRIPTION
Commencing at the Southeast Corner of Section 14, Township 3 South Range 5 West of the Uintah Special Base and Meridian;
Thence North 46°20'03" West 2144.00 feet to the TRUE POINT OF BEGINNING;
Thence North 15°08'57" East 537.64 feet;
Thence North 13°58'28" West 792.81 feet;
Thence North 13°50'36" West 543.98 feet;
Thence North 13°58'57" West 580.19 feet;
Thence North 13°54'35" West 889.66 feet;
Thence North 59°00'50" West 358.71 feet;
Thence North 67°11'56" West 175.95 feet;
Thence North 53°58'26" West 117.42 feet;
Thence North 46°54'57" West 129.98 feet;
Thence North 46°54'11" West 159.96 feet;
Thence South 89°37'41" West 8.30 feet to the edge of an existing road. Said right-of-way being 4294.62 feet in length with the sidelines being shortened or elongated to intersect said roadway.

LINE TABLE

LINE	BEARING	DISTANCE
L1	N 74°51'03" W	407.00'
L2	N 19°15'09" W	134.95'
L2A	N 19°25'43" E	207.08'
L2B	N 15°06'23" E	149.15'
L3	S 74°51'03" E	467.90'
L4	S 15°08'57" W	467.00'
L5	N 15°08'57" E	537.64'
L6	N 13°56'30" W	243.45'
L7	N 13°59'21" W	549.37'
L8	N 13°50'36" W	543.82'
L9	N 13°58'57" W	580.19'
L10	N 13°54'35" W	889.58'
L11	N 59°00'50" W	358.71'
L12	N 67°11'56" W	175.95'
L13	N 53°58'26" W	117.42'
L14	N 46°54'32" W	289.94'
L15	S 89°37'37" W	8.30'

RIGHT-OF-WAY DESCRIPTION (WHITE)
A 66 feet wide access road, pipeline, and power line corridor right-of-way over portions of Section 14, Township 3 South, Range 5 West of the Uintah Special Base and Meridian, the centerline of which is further described as follows;
Commencing at the SE Corner of said Section 14;
Thence North 46°20'03" West 2144.00 feet to the TRUE POINT OF BEGINNING,
Thence North 15°08'57" East 537.64 feet;
Thence North 13°58'28" West 792.81 feet;
Thence North 13°50'36" West 543.98 feet;
Thence North 13°58'57" West 580.19 feet;
Thence North 13°54'35" West 889.66 feet;
Thence North 59°00'50" West 358.71 feet;
Thence North 67°11'56" West 175.95 feet;
Thence North 53°58'26" West 117.42 feet;
Thence North 46°54'57" West 23.30 feet;
to the West line of the NW1/4 of the NE1/4 of said Section 14. Said right-of-way being 4019.68 feet in length or 243.62 rods, with the sidelines being shortened or elongated to intersect said aliquot part line.

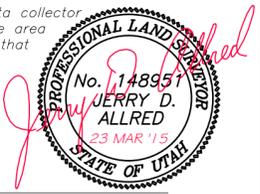
BASIS OF BEARINGS
THIS SURVEY WAS PERFORMED USING GLOBAL POSITIONING SYSTEM PROCEDURES AND EQUIPMENT

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

RIGHT-OF-WAY DESCRIPTION (KEMP)
Commencing at the Northeast Corner of the NW1/4 of Section 14, Township 3 South, Range 5 West of the Uintah Special Base and Meridian;
Thence South 00°15'11" East 216.43 feet along the East line of said NW1/4 of said Section 14 to the TRUE POINT OF BEGINNING;
Thence North 46°54'37" West 266.64 feet;
Thence South 89°37'28" West 8.29 feet to the EAST line of an existing road. Said right-of-way being 274.94 feet in length or 16.66 rods, with the sidelines being shortened or elongated to intersect said aliquot part line and said road-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-way shown hereon, and that the monuments indicated were found or set during said survey, and that this plat accurately represents said survey to the best of my knowledge.



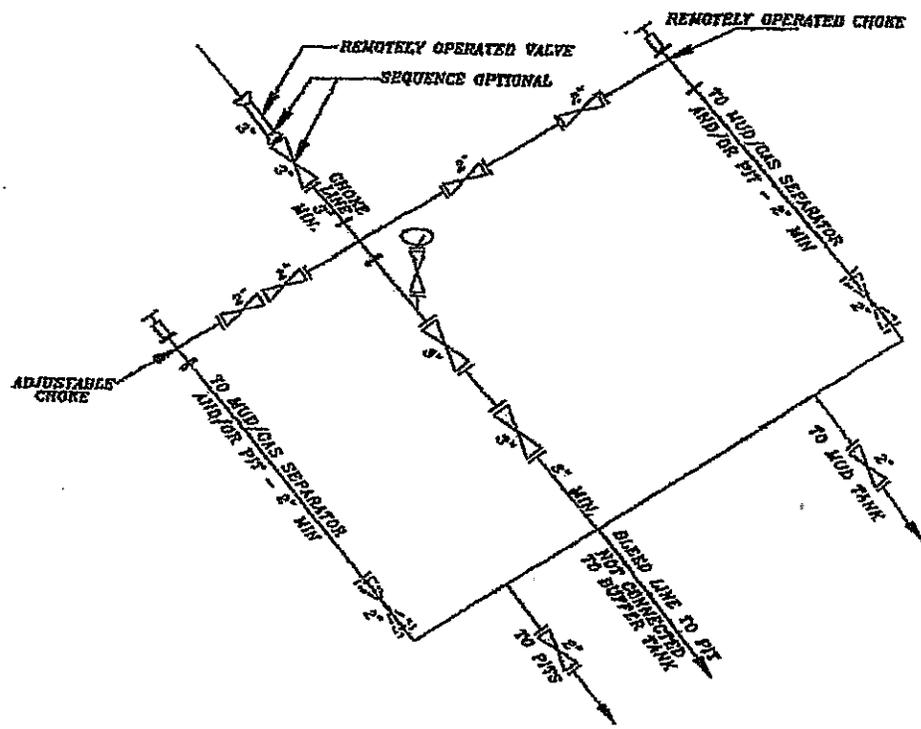
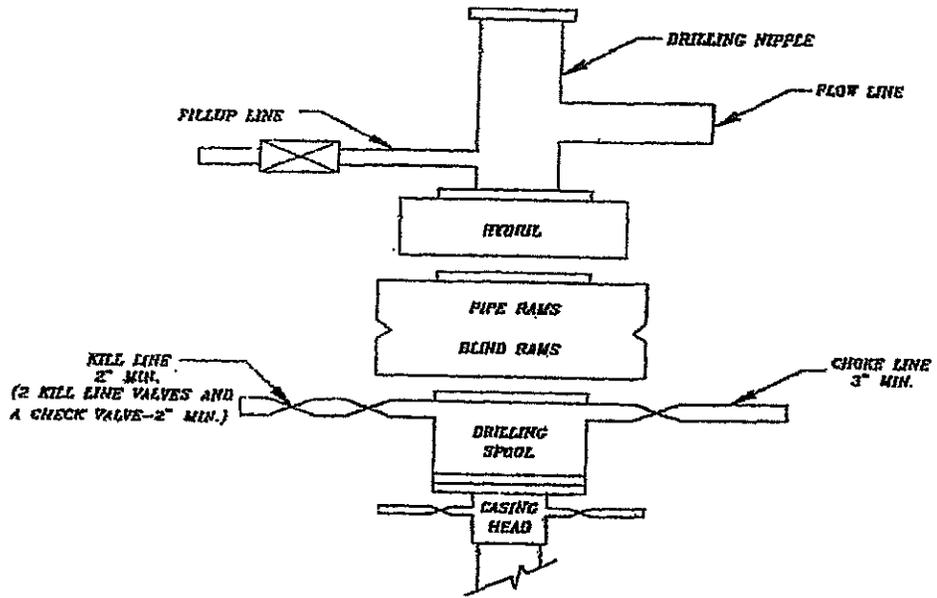
JERRY D. ALLRED, PROFESSIONAL LAND SURVEYOR,
CERTIFICATE NO. 148951 (UTAH)

COUNTY SURVEYOR FILE NO.

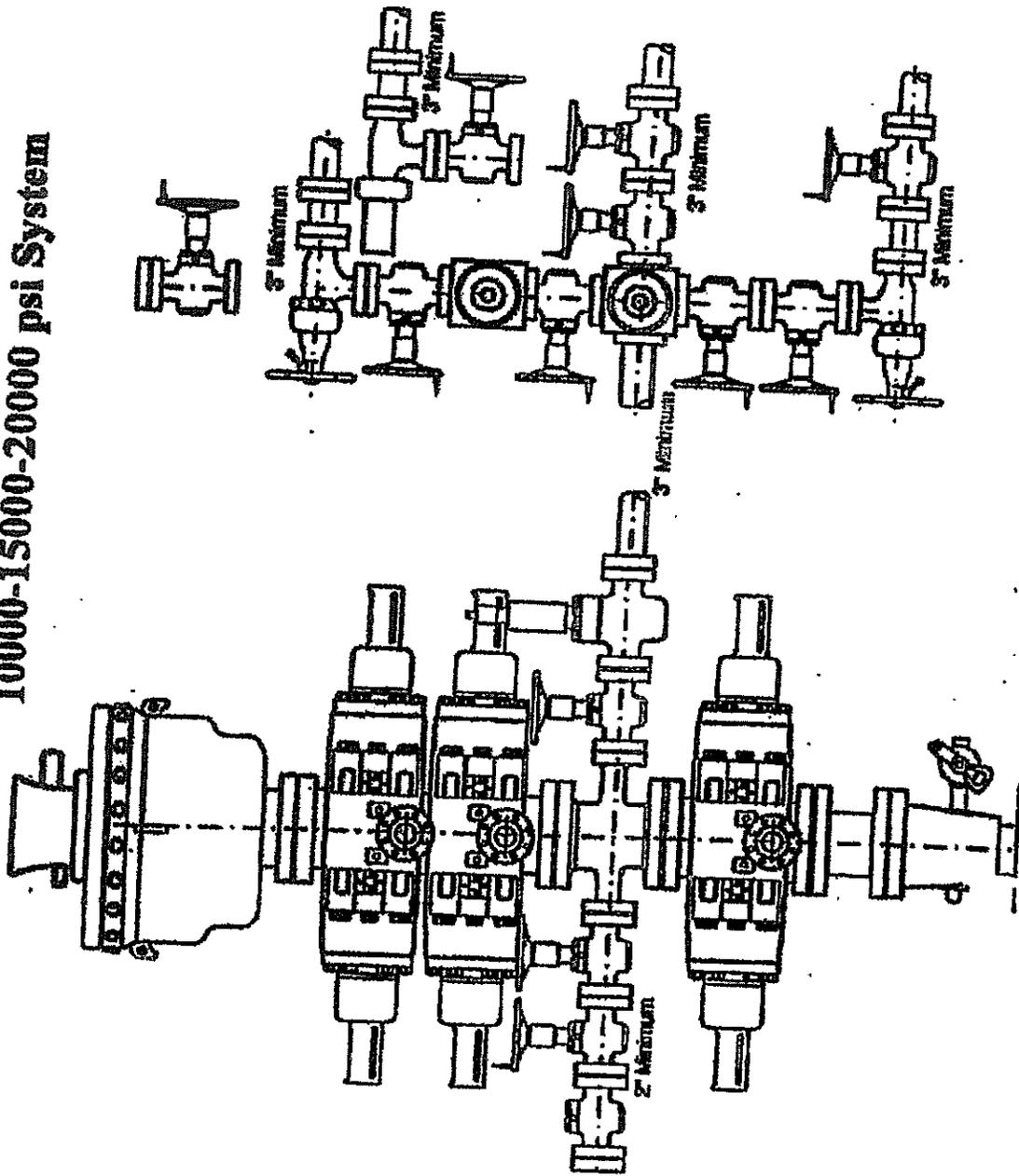
JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS
1235 NORTH 700 EAST--P.O. BOX 975
DUCESNE, UTAH 84021
(435) 738-5352

REV 23 MAR 2015
REV 23 FEB 2015
REV 18 SEP 2013
5 APR 2013 01-128-385

5M BOP STACK and CHOKE MANIFOLD SYSTEM



10000-15000-20000 psi System

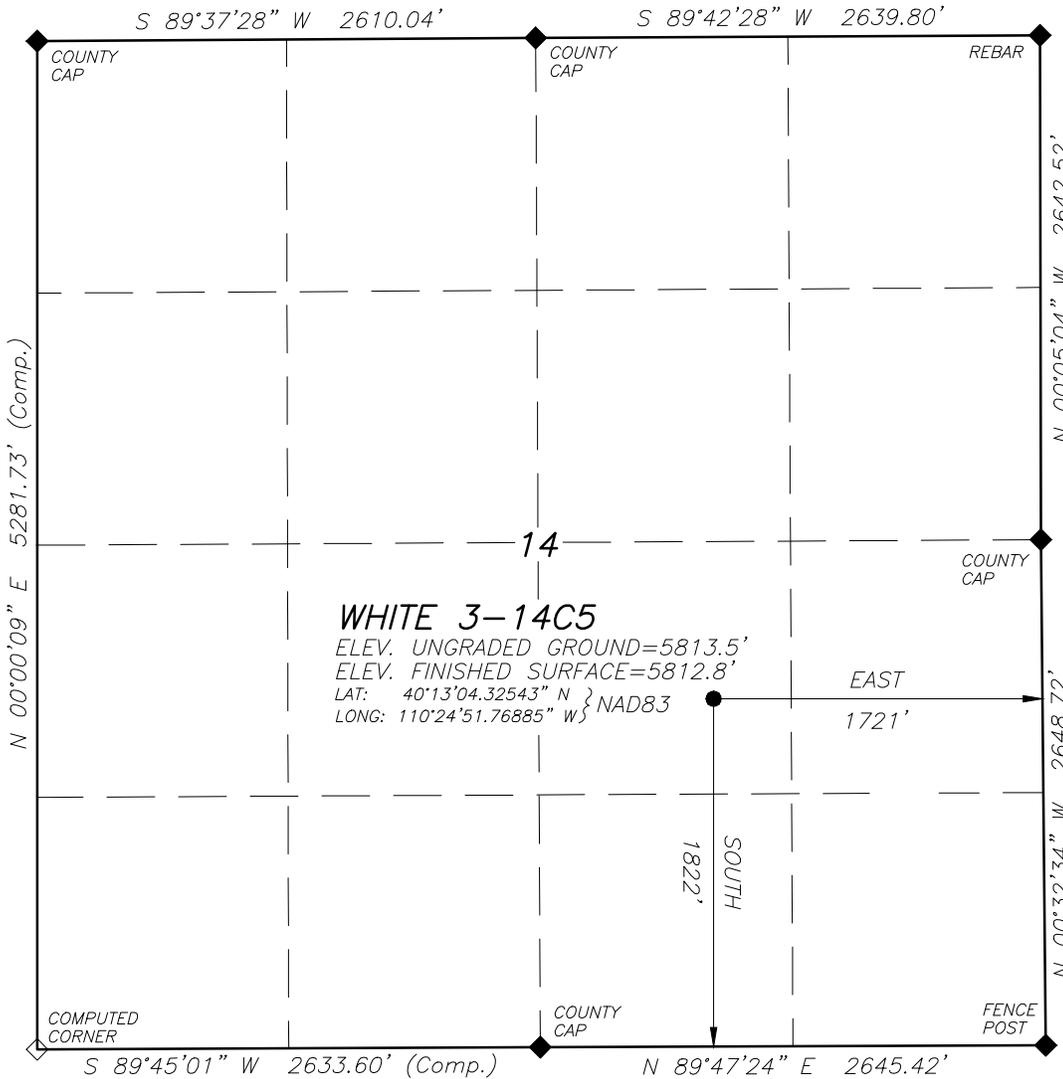


EP ENERGY E&P COMPANY, L.P.

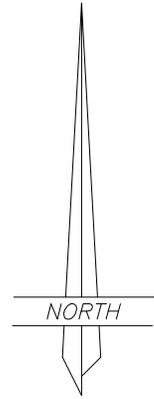
WELL LOCATION

WHITE 3-14C5

LOCATED IN THE NW¼ OF THE SE¼ OF SECTION 14, T3S, R5W, U.S.B.&M. DUCHESNE COUNTY, UTAH



WHITE 3-14C5
 ELEV. UNGRADED GROUND=5813.5'
 ELEV. FINISHED SURFACE=5812.8'
 LAT: 40°13'04.32543" N } NAD83
 LONG: 110°24'51.76885" W }



SCALE: 1" = 1000'



NOTE:
 NAD27 VALUES FOR WELL POSITION:
 LAT: 40.21791158° N
 LONG: 110.41366891° W

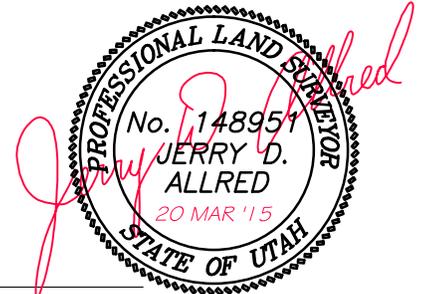
LEGEND AND NOTES

- ◆ 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

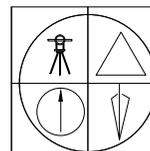
SURVEYOR'S CERTIFICATE

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.



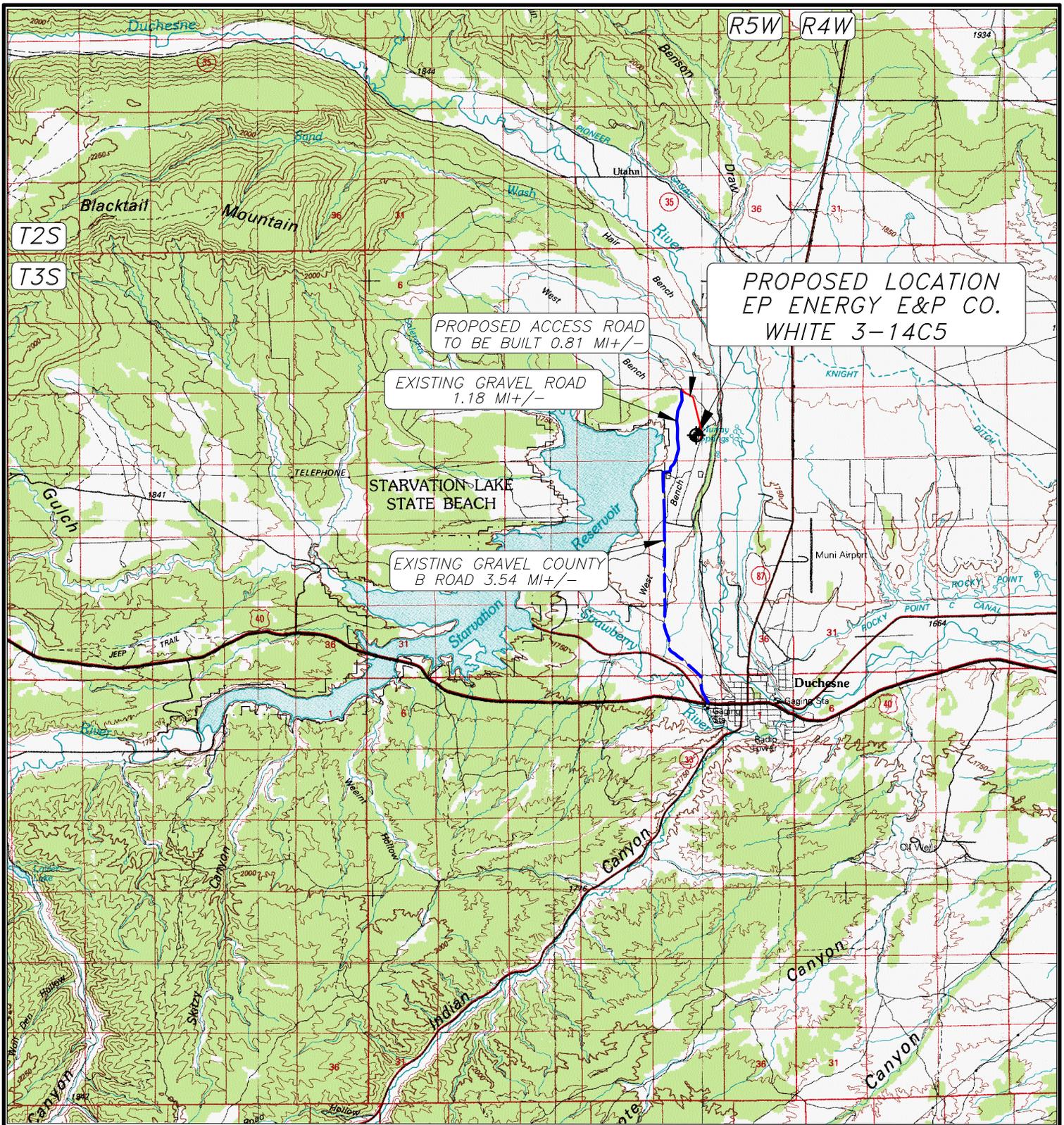
JERRY D. ALLRED, PROFESSIONAL LAND SURVEYOR, CERTIFICATE NO. 148951 (UTAH)

REV 20 MAR 2015
 5 APR 2013 01-128-385



JERRY D. ALLRED & ASSOCIATES
 SURVEYING CONSULTANTS

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



**PROPOSED LOCATION
EP ENERGY E&P CO.
WHITE 3-14C5**

**PROPOSED ACCESS ROAD
TO BE BUILT 0.81 MI +/-**

**EXISTING GRAVEL ROAD
1.18 MI +/-**

**EXISTING GRAVEL COUNTY
B ROAD 3.54 MI +/-**

**STARVATION LAKE
STATE BEACH**

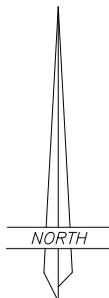
LEGEND:

 **PROPOSED WELL LOCATION**

01-128-385

JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS

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



EP ENERGY E&P COMPANY, L.P.

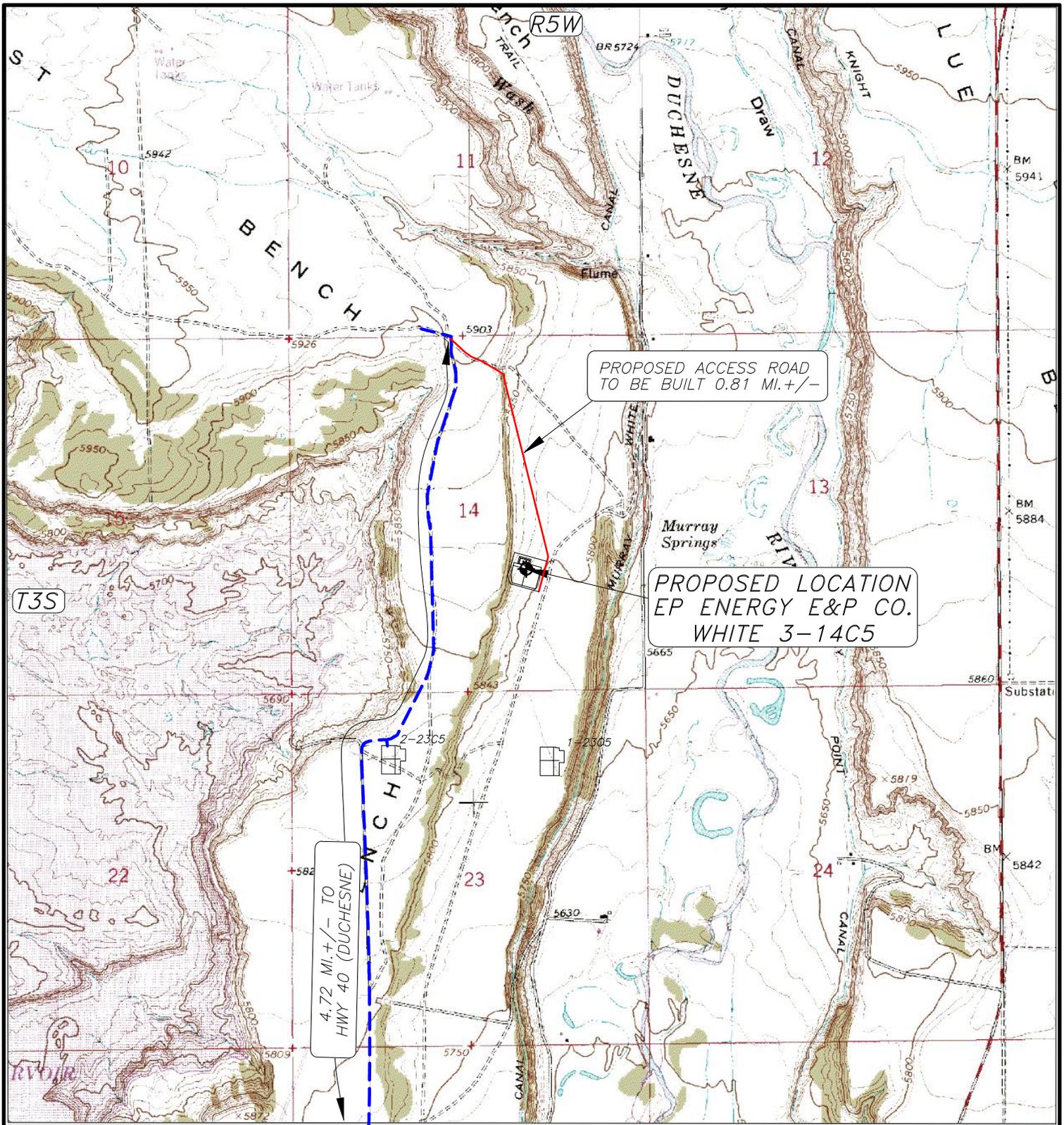
WHITE 3-14C5

SECTION 14, T3S, R5W, U.S.B.&M.

1822' FSL 1721' FEL

TOPOGRAPHIC MAP "A"

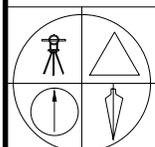
SCALE; 1"=10,000'
REV 23 MAR 2015



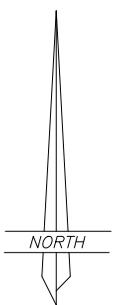
LEGEND:

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

01-128-385



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

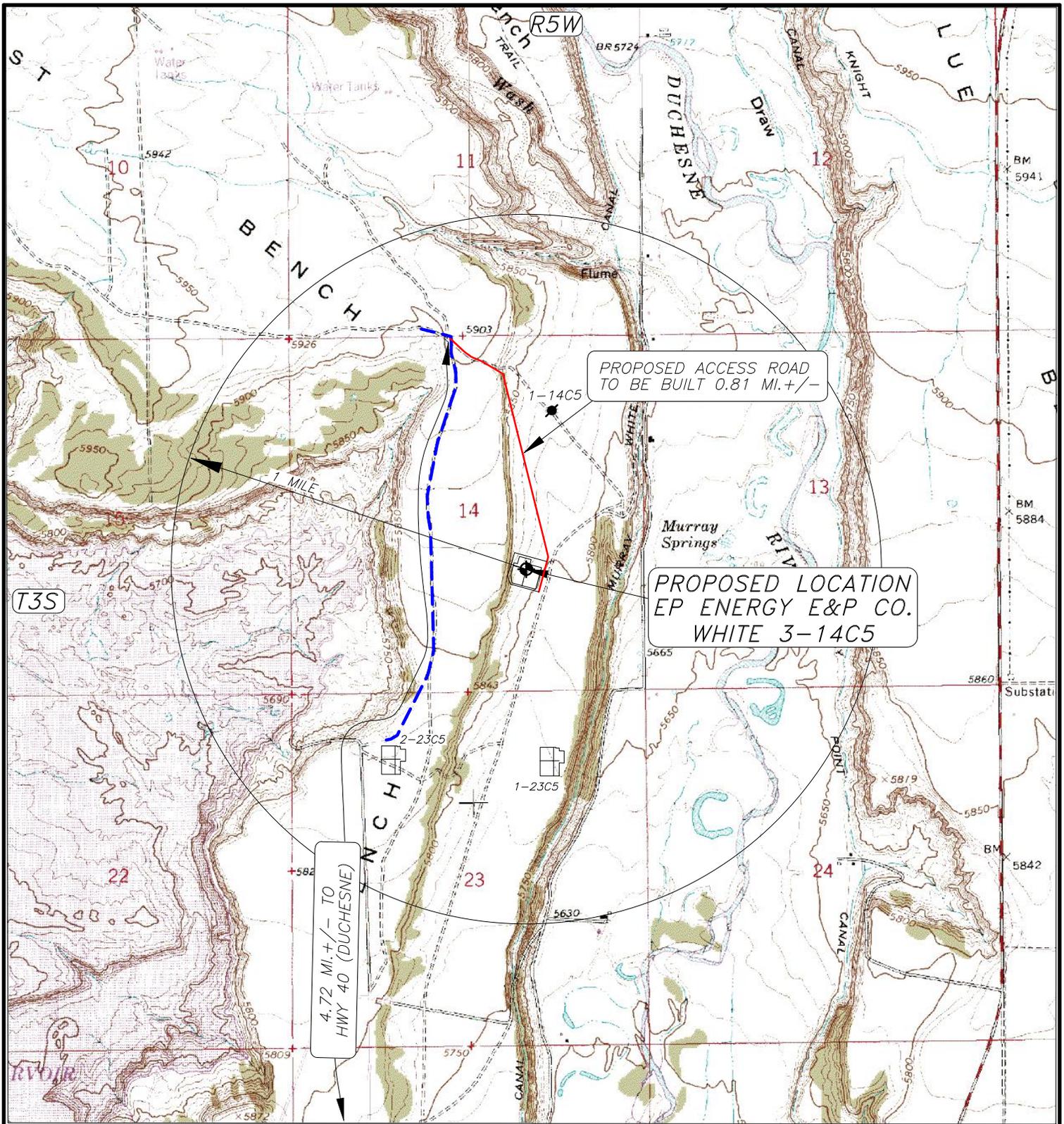


EP ENERGY E&P COMPANY, L.P.

WHITE 3-14C5
 SECTION 14, T3S, R5W, U.S.B.&M.
 1822' FSL 1721' FEL

TOPOGRAPHIC MAP "B"

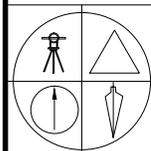
SCALE: 1"=2000'
 REV 23 MAR 2015



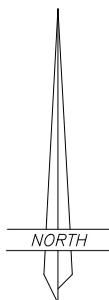
LEGEND:

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

01-128-385



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



EP ENERGY E&P COMPANY, L.P.

WHITE 3-14C5

SECTION 14, T3S, R5W, U.S.B.&M.

1822' FSL 1721' FEL

TOPOGRAPHIC MAP "C"

SCALE; 1"=2000'
 REV 23 MAR 2015

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 .40 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 .40 miles will parallel the proposed access road. The corridor will contain one 4 inch gas line and one 2 inch gas line and one 2 inch Salt Water disposal line. Rehabilitation of unneeded, previously disturbed areas will consist of backfilling and contouring the reserve pit area; backsloping and contouring all cut and fill slopes. These areas will be reseeded. Refer to plans for reclamation of surface for details.
- Upgrade and maintain access roads and drainage control structures (e.g., culverts, drainage dips, ditching, etc.) as necessary to prevent soil erosion and accommodate safe, year-round traffic.

6. **Construction Materials:**

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

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

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

8. **Ancillary Facilities:**

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

9. Surface Reclamation Plans:

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

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

10. Surface Ownership:

SEE ATTACHED.

Other Information:

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

• **Operator and Contact Persons:**

Construction and Reclamation:

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

Regarding This APD

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

Drilling

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

Alan B. White and JaniceK. White. Trustees of the Alan B. White Trust
1020 Sage Creek Ct
Heber City. UT 84032
Phone:(208)484-7671

Larry M. White
13500 Central Avenue SW
Albuquerque. NM 87121
Phone: (505) 206-8377

Thomas L. White
19360 S. W. Cappaen Road
Sherwood. Oregon 97140
Phone:(503)625-5030

Penny L. Smith
12627 South 1565 East
Draper. Utah 84020
Phone: (801) 598-3939

Gloria W. Jensen and Ray A. Jensen. Trustees of the Gloria W. Jensen Family Trust,
dated July 7. 2011
889 North 340 East
American Fork. UT 84003
Phone: (801) 756-5433

Amber L. Dial
3403 Terrace Heights Drive
Yakima. WA 98901
Phone: (509) 307-9053

Kenneth Dean Mitchell
1902 Ekelman Rd. Yakima, WA 98901
Phone: (509) 248-0058

Michel Mitchell
9566 Everett Ct.
Broomfield, CO 80021-4360
Phone: (509) 248-0058

CONFIDENTIAL



Carol Daniels <caroldaniels@utah.gov>

NW-SE SEC 14 T03S R05 W FEE LEASE

24hr Notice Run & Cement Casing

1 message

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

Sat, Jul 4, 2015 at 8:29 PM

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

RE: EP ENERGY

WHITE 3-14C5

API # 43013532720000

ALTAMONT FIELD

DUCHESNE COUNTY

Leon Ross Drilling commenced drilling 17½" hole section @ 19:00hrs on 7/4/2015. We plan on running and cementing 13-3/8" 54.5# J-55 STC Conductor Casing to +/- 600' within 24hrs.

Regards,

Tony Wilkerson / Bill Owen

EP Energy LLC

PD Rig 406

Rig: 713-997-1220

Cell: 435-823-1764

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



Alexis Huefner <alexishuefner@utah.gov>

24hr Notice Spud & Casing White 3-14C5 API# 43013532720000

1 message

LANDRIG009 (Precision 406) <LANDRIG009@epenergy.com> Wed, Jul 1, 2015 at 8:10 PM

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

RE: EP ENERGY

WHITE 3-14C5

API # 43013532720000

ALTAMONT FIELD

DUCHESNE COUNTY

1822 FSL 1721 FEL
NWSE 14 35 SW

CONFIDENTIAL

Leon Ross Drilling spudded the well @ 10:00hrs on 7/1/2015. We plan on running and cementing 20" Conductor Casing to +/- 40' within 24hrs.

Regards,

Tony Wilkerson / Bill Owen

EP Energy LLC

PD Rig 406

Rig: 713-997-1220

Cell: 435-823-1764

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

Stimulation Summary

STG	Top Perf	Btm. Perf	Gross Interval	Plug Depth	Net Perf Length	Total Shots	Perf Intervals	Type of Prop	Lbs of Prop	Lbs/ft	Lbs of 100 Mesh	Gals of HCL (15%)	BBLs of Clean H2O	BBLs of Slurry
Stage #1	11,118	11,406	288	NA	23	69	17	THS 30/50	150,000	521	3,000	5,000	3,680	4,093
Stage #2	10,704	11,016	312	11,031	23	69	17	THS 30/50	150,000	481	3,000	5,000	3,673	4,085
Stage #3	10,397	10,621	224	10,636	23	69	17	TLC 30/50	150,000	670	3,000	5,000	3,668	4,068
Stage #4	10,091	10,343	252	10,358	23	69	17	TLC 30/50	150,000	595	3,000	5,000	3,662	4,063
Stage #5	9,792	10,052	260	10,067	23	69	17	TLC 30/50	150,000	577	3,000	5,000	3,657	4,057
Stage #6	9,525	9,760	235	9,775	23	69	17	TLC 30/50	150,000	638	3,000	5,000	3,652	4,053
Stage #7	9,227	9,492	265	9,507	23	69	17	TLC 30/50	150,000	566	3,000	5,000	3,647	4,047
Stage #8	8,943	9,187	244	9,202	23	69	17	TLC 30/50	150,000	615	3,000	5,000	3,642	4,042
Average per Stage			260		23	69	17		150,000	583	3,000	5,000	3,660	4,064
Totals per Well			2,080		184	552	136		1,200,000		24,000	40,000	29,281	32,509

Top Perf: 8,943
 Bottom Perf: 11,406

Number of Stages **8**

Tops	Depth
Liner Top:	8,331
	-
Stage #8 Plug	9,202
Stage #7 Plug	9,507
Stage #6 Plug	9,775
Stage #5 Plug	10,067
Stage #4 Plug	10,358
Stage #3 Plug	10,636
Stage #2 Plug	11,031
Stage #1 Plug	NA
Landing Collar	11,471
Float Collar	11,515
Float Collar	11,515
Packer	8,431

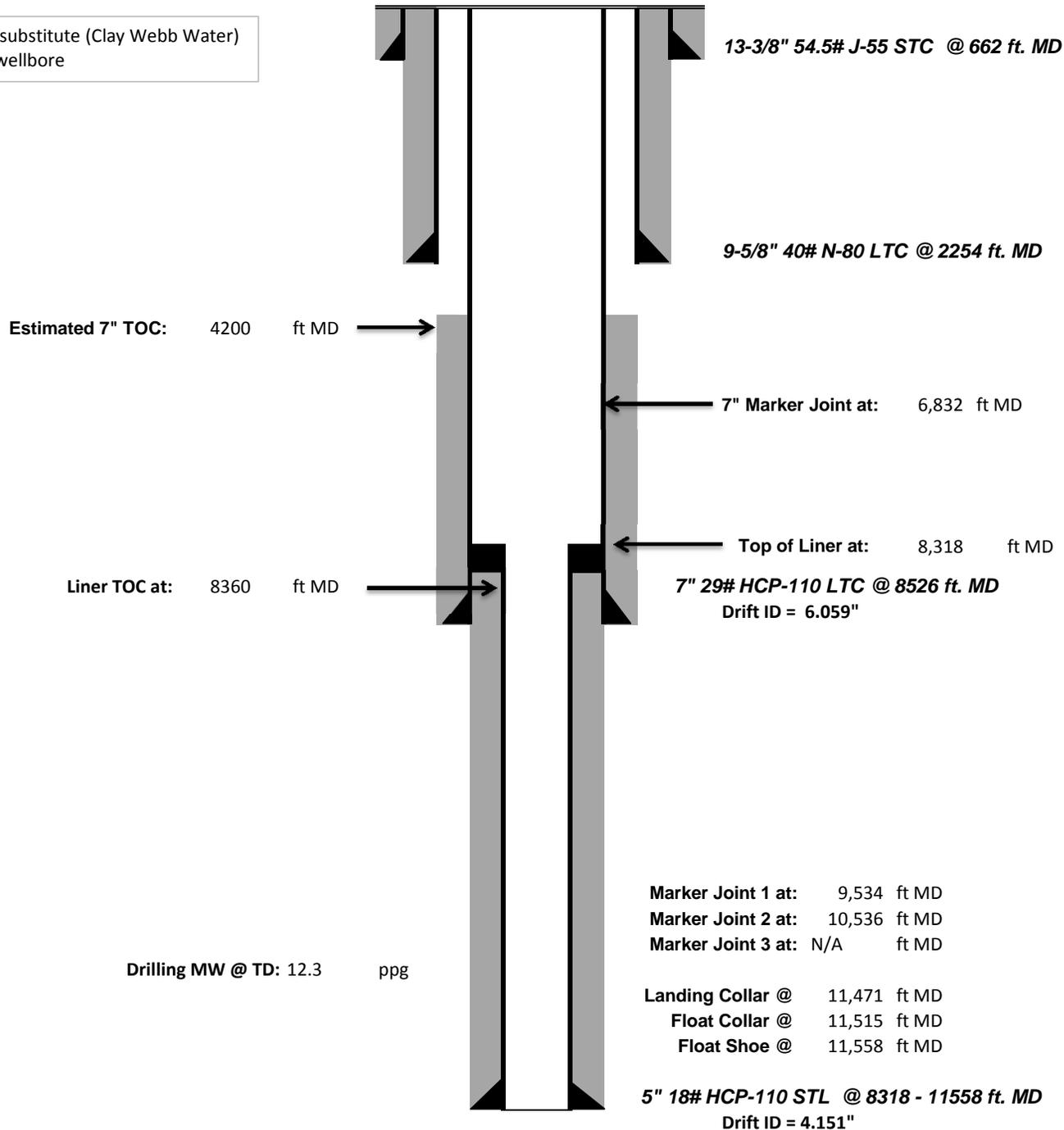


Pre-Completion Wellbore Schematic

Well Name: **White 3-14C5**
 Company Name: **EP Energy E&P Company, L.P.**
 Field, County, State: **Altamont, Duchesne, Utah**
 Surface Location: **Lat: 40°13'04.325N Long: 110°24'51.768W**
 Producing Zone(s): **Wasatch**

Last Updated: **7/28/2015**
 By: **Lauren Pratt**
 TD: **11,558**
 API: **4301353272**
 AFE: **160705**

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



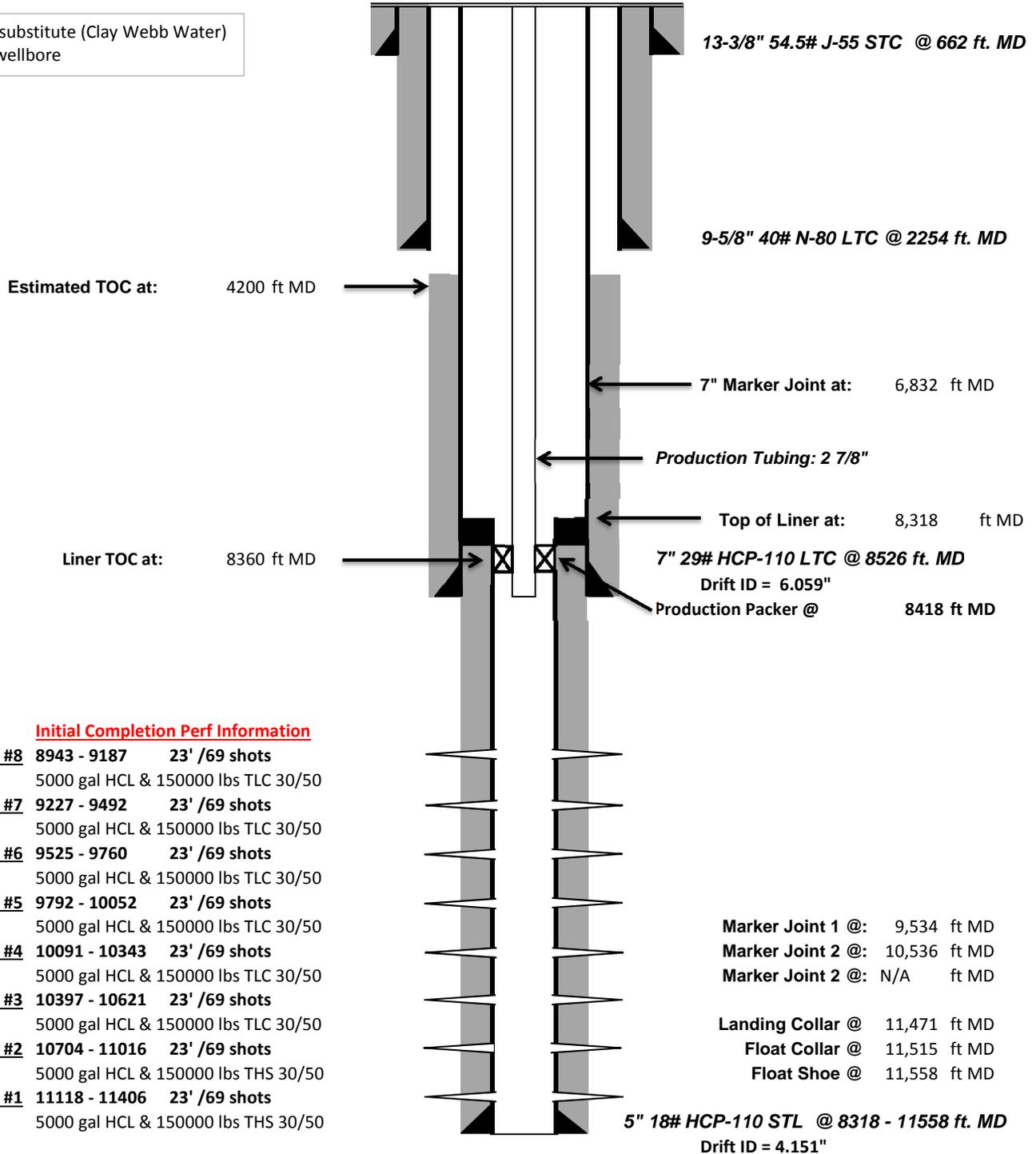


Post-Completion Wellbore Schematic

Well Name: **White 3-14C5**
 Company Name: **EP Energy E&P Company, L.P.**
 Field, County, State: **Altamont, Duchesne, Utah**
 Surface Location: **Lat: 40°13'04.325N Long: 110°24'51.768W**
 Producing Zone(s): **Wasatch**

Last Updated: **7/28/2015**
 By: **Lauren Pratt**
 TD: **11,558**
 API: **4301353272**
 AFE: **160705**

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



Initial Completion Perf Information

Stage #	Depth Range (ft)	Shots	Fluid
Stage #8	8943 - 9187	23' /69 shots	5000 gal HCL & 150000 lbs TLC 30/50
Stage #7	9227 - 9492	23' /69 shots	5000 gal HCL & 150000 lbs TLC 30/50
Stage #6	9525 - 9760	23' /69 shots	5000 gal HCL & 150000 lbs TLC 30/50
Stage #5	9792 - 10052	23' /69 shots	5000 gal HCL & 150000 lbs TLC 30/50
Stage #4	10091 - 10343	23' /69 shots	5000 gal HCL & 150000 lbs TLC 30/50
Stage #3	10397 - 10621	23' /69 shots	5000 gal HCL & 150000 lbs TLC 30/50
Stage #2	10704 - 11016	23' /69 shots	5000 gal HCL & 150000 lbs THS 30/50
Stage #1	11118 - 11406	23' /69 shots	5000 gal HCL & 150000 lbs THS 30/50

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

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 MD PLUG SET: 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)
(A)				
(B)				
(C)				
(D)				

27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

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

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL

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

- 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

Attachment to Well Completion Report**Form 8 Dated September 4, 2015****Well Name: White 3-14C5****Items #27 and #28 Continued****27. Perforation Record**

Interval (Top/Bottom – MD)	Size	No. of Holes	Perf. Status
9785'-10048'	.38	69	Open
9517'-9755'	.38	69	Open
9216'-9484'	.38	69	Open
8933'-9178'	.38	69	Open

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

Depth Interval	Amount and Type of Material
10087'-10341'	5000 gal acid, 3000# 100 mesh, 151000# 30/50 TLC
9785'-10048'	5000 gal acid, 3000# 100 mesh, 151300# 30/50 TLC
9517'-9755'	5000 gal acid, 3000# 100 mesh, 150600# 30/50 TLC
9216'-9484'	5000 gal acid, 3000# 100 mesh, 150000# 30/50 TLC
8933'-9178'	5000 gal acid, 2900# 100 mesh, 144600# 30/50 TLC



Company: EP Energy
Well: White 3-14C5
Location: Duchesne, UT
Rig: Precision 406

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

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

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')		
							N/S (ft)	E/W (ft)	Distance (ft)	Direction Azimuth					
Tie In	0.00	0.00	0.00												
1	100.00	0.50	23.36	100.00	100.00	0.40	0.40	N	0.17	E	0.43	23.36	0.50	0.50	23.36
2	200.00	0.71	4.49	100.00	199.99	1.41	1.41	N	0.39	E	1.46	15.50	0.29	0.21	-18.88
3	300.00	0.50	41.80	100.00	299.99	2.35	2.35	N	0.73	E	2.47	17.28	0.43	-0.21	37.32
4	400.00	0.61	164.84	100.00	399.99	2.17	2.17	N	1.16	E	2.46	28.22	0.98	0.10	123.03
5	500.00	0.14	262.70	100.00	499.98	1.64	1.64	N	1.18	E	2.02	35.70	0.64	-0.47	97.86
6	600.00	0.58	179.71	100.00	599.98	1.12	1.12	N	1.06	E	1.54	43.48	0.58	0.44	-82.99
7	700.00	0.64	202.01	100.00	699.98	0.09	0.09	N	0.85	E	0.86	83.83	0.24	0.06	22.31
8	800.00	0.63	214.22	100.00	799.97	-0.88	0.88	S	0.34	E	0.94	158.94	0.14	-0.01	12.21
9	900.00	0.80	216.57	100.00	899.96	-1.89	1.89	S	0.39	W	1.93	191.54	0.18	0.17	2.34
10	1000.00	0.87	208.35	100.00	999.95	-3.11	3.11	S	1.16	W	3.32	200.43	0.14	0.06	-8.21
11	1100.00	0.98	228.69	100.00	1099.94	-4.34	4.34	S	2.16	W	4.85	206.45	0.34	0.11	20.34
12	1200.00	0.98	236.42	100.00	1199.92	-5.38	5.38	S	3.51	W	6.42	213.15	0.13	0.00	7.72
13	1300.00	1.27	207.78	100.00	1299.91	-6.83	6.83	S	4.74	W	8.32	214.75	0.63	0.30	-28.64
14	1400.00	1.41	223.22	100.00	1399.88	-8.71	8.71	S	6.10	W	10.63	215.00	0.38	0.13	15.45
15	1500.00	1.37	237.82	100.00	1499.85	-10.24	10.24	S	7.95	W	12.97	217.83	0.35	-0.03	14.60
16	1600.00	1.43	231.51	100.00	1599.82	-11.66	11.66	S	9.94	W	15.32	220.46	0.16	0.06	-6.32
17	1700.00	1.42	246.89	100.00	1699.79	-12.92	12.92	S	12.06	W	17.67	223.03	0.38	-0.01	15.38
18	1800.00	1.14	250.64	100.00	1799.76	-13.74	13.74	S	14.14	W	19.71	225.82	0.29	-0.28	3.75
19	1900.00	1.09	250.63	100.00	1899.75	-14.38	14.38	S	15.97	W	21.49	228.00	0.05	-0.05	0.00
20	2000.00	0.72	232.77	100.00	1999.73	-15.08	15.08	S	17.37	W	23.00	229.04	0.46	-0.37	-17.86
21	2100.00	0.39	206.85	100.00	2099.73	-15.76	15.76	S	18.02	W	23.94	228.83	0.41	-0.33	-25.92
22	2158.00	0.69	210.39	58.00	2157.73	-16.24	16.24	S	18.29	W	24.46	228.40	0.53	0.52	6.10
23	2307.00	0.80	167.30	149.00	2306.71	-18.03	18.03	S	18.51	W	25.84	225.76	0.37	0.07	-28.92
24	2403.00	0.30	74.00	96.00	2402.71	-18.61	18.61	S	18.13	W	25.98	224.24	0.91	-0.52	-97.19
25	2498.00	0.80	23.40	95.00	2497.71	-17.93	17.93	S	17.62	W	25.14	224.50	0.69	0.53	-53.26
26	2594.00	1.60	22.70	96.00	2593.68	-16.08	16.08	S	16.84	W	23.29	226.32	0.83	0.83	-0.73
27	2690.00	2.50	7.90	96.00	2689.62	-12.77	12.77	S	16.04	W	20.50	231.46	1.08	0.94	-15.42
28	2786.00	3.00	5.50	96.00	2785.51	-8.20	8.20	S	15.51	W	17.54	242.13	0.53	0.52	-2.50
29	2882.00	3.00	0.90	96.00	2881.38	-3.19	3.19	S	15.23	W	15.56	258.18	0.25	0.00	-4.79
30	2977.00	2.50	355.10	95.00	2976.27	1.36	1.36	N	15.36	W	15.42	275.07	0.60	-0.53	372.84
31	3073.00	2.60	356.80	96.00	3072.18	5.62	5.62	N	15.66	W	16.64	289.75	0.13	0.10	1.77
32	3169.00	3.40	9.50	96.00	3168.04	10.61	10.61	N	15.32	W	18.63	304.70	1.08	0.83	-361.77
33	3265.00	3.30	4.50	96.00	3263.88	16.17	16.17	N	14.63	W	21.80	317.86	0.32	-0.10	-5.21
34	3361.00	2.80	356.20	96.00	3359.74	21.26	21.26	N	14.57	W	25.77	325.58	0.69	-0.52	366.35
35	3457.00	3.10	13.60	96.00	3455.62	26.13	26.13	N	14.11	W	29.69	331.62	0.98	0.31	-356.88



Company: EP Energy
Well: White 3-14C5
Location: Duchesne, UT
Rig: Precision 406

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

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

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates			Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')	
							N/S (ft)	E/W (ft)		Distance (ft)	Direction Azimuth				
36	3553.00	2.60	11.50	96.00	3551.50	30.78	30.78	N	13.07	W	33.44	337.00	0.53	-0.52	-2.19
37	3649.00	1.80	7.50	96.00	3647.43	34.41	34.41	N	12.44	W	36.59	340.13	0.85	-0.83	-4.17
38	3744.00	2.90	15.60	95.00	3742.35	38.20	38.20	N	11.60	W	39.93	343.11	1.21	1.16	8.53
39	3841.00	1.90	8.40	97.00	3839.26	42.16	42.16	N	10.70	W	43.50	345.76	1.07	-1.03	-7.42
40	3936.00	2.70	25.50	95.00	3934.19	45.74	45.74	N	9.51	W	46.71	348.26	1.10	0.84	18.00
41	4032.00	3.60	29.10	96.00	4030.04	50.41	50.41	N	7.07	W	50.90	352.02	0.96	0.94	3.75
42	4128.00	3.20	25.10	96.00	4125.87	55.47	55.47	N	4.47	W	55.65	355.40	0.48	-0.42	-4.17
43	4224.00	2.50	31.70	96.00	4221.75	59.68	59.68	N	2.23	W	59.72	357.86	0.80	-0.73	6.88
44	4319.00	2.60	30.60	95.00	4316.66	63.30	63.30	N	0.04	W	63.30	359.96	0.12	0.11	-1.16
45	4415.00	3.30	24.00	96.00	4412.53	67.69	67.69	N	2.19	E	67.73	1.85	0.81	0.73	-6.88
46	4511.00	2.50	17.50	96.00	4508.41	72.22	72.22	N	3.94	E	72.32	3.12	0.90	-0.83	-6.77
47	4607.00	3.30	16.10	96.00	4604.28	76.87	76.87	N	5.34	E	77.05	3.97	0.84	0.83	-1.46
48	4703.00	2.50	1.60	96.00	4700.16	81.62	81.62	N	6.16	E	81.85	4.32	1.12	-0.83	-15.10
49	4799.00	3.20	10.10	96.00	4796.04	86.35	86.35	N	6.69	E	86.60	4.43	0.85	0.73	8.85
50	4895.00	2.40	357.90	96.00	4891.93	90.99	90.99	N	7.09	E	91.27	4.45	1.03	-0.83	362.29
51	4991.00	2.90	8.20	96.00	4987.82	95.41	95.41	N	7.36	E	95.69	4.41	0.72	0.52	-364.27
52	5088.00	3.80	12.20	97.00	5084.66	100.98	100.98	N	8.39	E	101.32	4.75	0.96	0.93	4.12
53	5184.00	3.30	10.00	96.00	5180.47	106.81	106.81	N	9.54	E	107.23	5.10	0.54	-0.52	-2.29
54	5280.00	2.50	360.00	96.00	5276.35	111.62	111.62	N	10.02	E	112.07	5.13	0.98	-0.83	364.58
55	5377.00	1.60	353.00	97.00	5373.29	115.08	115.08	N	9.86	E	115.50	4.89	0.96	-0.93	-7.22
56	5473.00	1.10	331.10	96.00	5469.26	117.22	117.22	N	9.25	E	117.58	4.51	0.74	-0.52	-22.81
57	5569.00	1.10	312.90	96.00	5565.24	118.65	118.65	N	8.13	E	118.93	3.92	0.36	0.00	-18.96
58	5665.00	0.70	308.90	96.00	5661.23	119.65	119.65	N	6.99	E	119.85	3.35	0.42	-0.42	-4.17
59	5762.00	1.00	269.40	97.00	5758.22	120.01	120.01	N	5.69	E	120.14	2.71	0.66	0.31	-40.72
60	5858.00	1.00	240.80	96.00	5854.21	119.59	119.59	N	4.12	E	119.66	1.97	0.51	0.00	-29.79
61	5954.00	1.20	233.10	96.00	5950.19	118.58	118.58	N	2.58	E	118.61	1.25	0.26	0.21	-8.02
62	6050.00	1.40	212.70	96.00	6046.17	116.99	116.99	N	1.15	E	117.00	0.56	0.52	0.21	-21.25
63	6146.00	0.40	232.90	96.00	6142.15	115.80	115.80	N	0.24	E	115.80	0.12	1.08	-1.04	21.04
64	6242.00	0.40	235.90	96.00	6238.15	115.41	115.41	N	0.30	W	115.41	359.85	0.02	0.00	3.13
65	6338.00	0.80	214.00	96.00	6334.14	114.67	114.67	N	0.95	W	114.67	359.52	0.47	0.42	-22.81
66	6434.00	1.10	209.00	96.00	6430.13	113.31	113.31	N	1.77	W	113.32	359.10	0.32	0.31	-5.21
67	6531.00	1.40	204.80	97.00	6527.11	111.42	111.42	N	2.72	W	111.45	358.60	0.32	0.31	-4.33
68	6627.00	1.60	207.00	96.00	6623.08	109.16	109.16	N	3.82	W	109.22	357.99	0.22	0.21	2.29
69	6723.00	0.80	162.90	96.00	6719.05	107.32	107.32	N	4.23	W	107.41	357.74	1.22	-0.83	-45.94
70	6819.00	1.10	182.10	96.00	6815.04	105.76	105.76	N	4.07	W	105.84	357.80	0.45	0.31	20.00
71	6915.00	1.60	187.30	96.00	6911.01	103.51	103.51	N	4.27	W	103.60	357.64	0.54	0.52	5.42
72	7011.00	1.90	190.40	96.00	7006.97	100.62	100.62	N	4.73	W	100.73	357.31	0.33	0.31	3.23



Company: EP Energy
Well: White 3-14C5
Location: Duchesne, UT
Rig: Precision 406

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

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

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates				Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
							N/S (ft)	E/W (ft)	Distance (ft)	Direction Azimuth					
73	7107.00	2.40	190.10	96.00	7102.90	97.07	97.07	N	5.37	W	97.22	356.83	0.52	0.52	-0.31
74	7203.00	2.60	191.60	96.00	7198.81	92.96	92.96	N	6.16	W	93.16	356.21	0.22	0.21	1.56
75	7299.00	2.30	191.00	96.00	7294.72	88.94	88.94	N	6.97	W	89.21	355.52	0.31	-0.31	-0.62
76	7396.00	2.90	189.80	97.00	7391.62	84.61	84.61	N	7.76	W	84.96	354.76	0.62	0.62	-1.24
77	7492.00	3.00	186.20	96.00	7487.50	79.72	79.72	N	8.44	W	80.16	353.96	0.22	0.10	-3.75
78	7589.00	3.30	187.50	97.00	7584.35	74.43	74.43	N	9.08	W	74.98	353.04	0.32	0.31	1.34
79	7685.00	3.00	188.70	96.00	7680.20	69.20	69.20	N	9.82	W	69.90	351.92	0.32	-0.31	1.25
80	7781.00	2.90	189.20	96.00	7776.08	64.32	64.32	N	10.59	W	65.19	350.65	0.11	-0.10	0.52
81	7877.00	3.10	192.00	96.00	7871.94	59.39	59.39	N	11.52	W	60.49	349.02	0.26	0.21	2.92
82	7973.00	3.30	190.20	96.00	7967.79	54.13	54.13	N	12.55	W	55.56	346.95	0.23	0.21	-1.88
83	8069.00	3.60	192.90	96.00	8063.62	48.47	48.47	N	13.71	W	50.37	344.21	0.36	0.31	2.81
84	8166.00	3.70	194.50	97.00	8160.42	42.47	42.47	N	15.17	W	45.10	340.34	0.15	0.10	1.65
85	8262.00	3.20	185.40	96.00	8256.25	36.81	36.81	N	16.20	W	40.21	336.24	0.77	-0.52	-9.48
86	8359.00	2.40	172.80	97.00	8353.13	32.10	32.10	N	16.20	W	35.95	333.22	1.04	-0.82	-12.99
87	8455.00	1.10	167.60	96.00	8449.09	29.20	29.20	N	15.75	W	33.18	331.66	1.36	-1.35	-5.42
88	8479.00	1.20	156.10	24.00	8473.08	28.75	28.75	N	15.60	W	32.71	331.51	1.05	0.42	-47.92
89	8600.00	1.67	166.17	121.00	8594.04	25.88	25.88	N	14.66	W	29.74	330.46	0.44	0.39	8.32
90	8700.00	2.07	194.63	100.00	8693.99	22.71	22.71	N	14.77	W	27.09	326.96	1.00	0.40	28.46
91	8800.00	2.33	213.07	100.00	8793.92	19.26	19.26	N	16.34	W	25.26	319.69	0.75	0.26	18.45
92	8900.00	2.73	211.58	100.00	8893.82	15.52	15.52	N	18.70	W	24.30	309.70	0.40	0.40	-1.49
93	9000.00	2.46	209.95	100.00	8993.72	11.63	11.63	N	21.02	W	24.02	298.97	0.28	-0.27	-1.64
94	9100.00	2.39	204.25	100.00	9093.63	7.87	7.87	N	22.95	W	24.26	288.92	0.25	-0.07	-5.69
95	9200.00	2.25	194.74	100.00	9193.55	4.07	4.07	N	24.30	W	24.64	279.50	0.41	-0.15	-9.51
96	9300.00	2.15	193.87	100.00	9293.48	0.35	0.35	N	25.25	W	25.25	270.80	0.10	-0.10	-0.87
97	9400.00	2.39	190.45	100.00	9393.40	-3.52	3.52	S	26.08	W	26.32	262.32	0.27	0.24	-3.42
98	9500.00	2.34	193.51	100.00	9493.31	-7.55	7.55	S	26.93	W	27.97	254.34	0.14	-0.05	3.06
99	9600.00	2.50	185.68	100.00	9593.22	-11.70	11.70	S	27.63	W	30.00	247.05	0.37	0.16	-7.83
100	9700.00	2.14	180.11	100.00	9693.14	-15.73	15.73	S	27.84	W	31.98	240.53	0.43	-0.36	-5.58
101	9800.00	2.25	180.65	100.00	9793.07	-19.56	19.56	S	27.87	W	34.05	234.94	0.11	0.11	0.54
102	9900.00	2.45	180.22	100.00	9892.98	-23.65	23.65	S	27.90	W	36.58	229.71	0.20	0.20	-0.43
103	10000.00	2.63	183.68	100.00	9992.89	-28.08	28.08	S	28.06	W	39.70	224.98	0.24	0.18	3.46
104	10100.00	2.85	192.69	100.00	10092.77	-32.80	32.80	S	28.75	W	43.62	221.24	0.48	0.22	9.01
105	10200.00	3.06	184.87	100.00	10192.64	-37.89	37.89	S	29.52	W	48.03	217.93	0.45	0.21	-7.82
106	10300.00	2.72	189.44	100.00	10292.51	-42.89	42.89	S	30.14	W	52.42	215.10	0.41	-0.34	4.57
107	10400.00	3.08	183.65	100.00	10392.38	-47.91	47.91	S	30.70	W	56.91	212.65	0.46	0.36	-5.79
108	10500.00	3.05	195.15	100.00	10492.24	-53.16	53.16	S	31.57	W	61.83	210.70	0.61	-0.03	11.50
109	10600.00	3.26	191.42	100.00	10592.09	-58.52	58.52	S	32.83	W	67.10	209.29	0.30	0.21	-3.73



Company: EP Energy **Job Number:** _____
Well: White 3-14C5 **Mag Decl.:** _____
Location: Duchesne, UT **Dir Driller:** _____
Rig: Precision 406 **MWD Eng:** _____

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

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')		
							N/S (ft)	E/W (ft)	Distance (ft)	Direction Azimuth					
110	10700.00	3.14	187.69	100.00	10691.93	-64.02	64.02	S	33.76	W	72.38	207.80	0.24	-0.13	-3.73
111	10800.00	3.21	187.64	100.00	10791.78	-69.50	69.50	S	34.49	W	77.59	206.39	0.07	0.07	-0.06
112	10900.00	3.18	190.69	100.00	10891.62	-75.01	75.01	S	35.38	W	82.93	205.25	0.17	-0.02	3.06
113	11000.00	2.94	192.38	100.00	10991.48	-80.24	80.24	S	36.45	W	88.13	204.43	0.26	-0.25	1.68
114	11100.00	2.71	190.16	100.00	11091.36	-85.07	85.07	S	37.41	W	92.93	203.74	0.25	-0.23	-2.22
115	11200.00	3.04	198.80	100.00	11191.24	-89.90	89.90	S	38.68	W	97.87	203.28	0.54	0.33	8.65
116	11300.00	3.06	199.80	100.00	11291.09	-94.93	94.93	S	40.44	W	103.18	203.08	0.06	0.02	1.00
117	11398.00	3.00	194.56	98.00	11388.96	-99.87	99.87	S	41.97	W	108.33	202.80	0.29	-0.06	-5.35
118	11560.00	3.00	194.56	162.00	11550.73	-108.08	108.08	S	44.11	W	116.73	202.20	0.00	0.00	0.00

CENTRAL DIVISION

ALTAMONT FIELD
WHITE 3-14C5
WHITE 3-14C5
DRILLING LAND

Operation Summary Report

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

1 General**1.1 Customer Information**

Company	CENTRAL DIVISION
Representative	
Address	

1.2 Well Information

Well	WHITE 3-14C5		
Project	ALTAMONT FIELD	Site	WHITE 3-14C5
Rig Name/No.	PRECISION DRILLING/406	Event	DRILLING LAND
Start date	6/25/2015	End date	
Spud Date/Time	7/12/2015	UWI	WHITE 3-14C5
Active datum	KB @5,829.8ft (above Mean Sea Level)		
Afe No./Description	160705/54263 / WHITE 3-14C5		

2 Summary**2.1 Operation Summary**

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
7/10/2015	6:00 8:00	2.00	CASCOND	24		P	0.0	SET 60' 20" CONDUCTOR, SET MOUSE HOLE @ 80'. ADDED 17' RKB CORRECTION FOR PD 406.
	8:00 9:00	1.00	CASCOND	24		P	77.0	DRILL 17½" HOLE TO 662'. RAN 15 JTS 13-3/8" 54.5# N-80 ST&C TO 645'. FC @ 600' SHOE 645'. ADDED 17' RKB CORRECTION FOR PD 406.
	9:00 10:00	1.00	CASCOND	25		P	662.0	M&P PUMPED 90 BBLS H2O 20 BBL GEL. 800 SXS (163.8 BBLS) PREMIUM G LEAD CMT @ 15.8 PPG, 1.15 YLD. RELEASED TOP PLUG. DISPLACED WITH 93 BBLS OF H2O @ 7 BPM. BUMPED PLUG @ 13:45 HRS 07/05/15 WITH 800 PSI. 0.5 BBL BLED BACK, FLOATS HELD. HAD 7 BBLS CMT TO SURFACE.
	10:00 11:30	1.50	CASSURF	24		P	662.0	DRILL 12¼" HOLE TO 2,267'. RAN 51 JTS 9-5/8" 40# N-80 LT&C TO 2,237'. FC @ 2,199' SHOE 2,237'. ADDED 17' RKB CORRECTION FOR PD 406.
	11:30 14:30	3.00	CASSURF	25		P	2,267.0	M&P PUMPED 75 BBLS H2O, 80 BBLS MUD THEN 20 BBLS OF H2O. 420 SXS (177 BBLS) EXTENDACEM LEAD CMT @ 12 PPG, 2.37 YLD TAILED WITH 210 SXS (49 BBLS) OF HALCEM CMT @ 14.3 PPG, 1.30 YIELD. RELEASED TOP PLUG. DISPLACED WITH 166 BBLS OF H2O @ 6-4 BPM. BUMPED PLUG @ 01:20HRS 7/08/15 WITH 1,200 PSI. 1/2 BBL FLOW BACK, FLOATS HELD. 46 BBLS GOOD CMT TO SURFACE.
	14:30 6:00	15.50	CASSURF	25		P	2,267.0	MOVED IN & RIGGED UP. PRECISION DRILLING RIG 406. 80% MOVED IN. 50% RU.
7/11/2015	6:00 12:00	6.00	MIRU	01		P	2,267.0	MIRU. 100% MOVED IN. RELEASED TRUCKS AT NOON 07/10/2015.
	12:00 6:00	18.00	MIRU	01		P	2,267.0	RIG UP. 90% RIGGED UP.
7/12/2015	6:00 9:30	3.50	MIRU	01		P	2,267.0	FINISHED RU TDU. PREPARED FLOOR. 100% RIGGED UP. PERFORMED RIG INSPECTION. RIG ON DAYRATE AT 09:30 HRS 07/11/2015.

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	9:30 23:00	13.50	CASSURF	28		P	2,267.0	NU 11" 5M X 11" 10M B-SECTION. NU 11" 10M T3 MODEL 6012 (CIW "U" CLONES) SINGLE, THEN DOUBLE BOPE. NU 11" 5M HYDRIL GK ANNULAR. WEATHERFORD TESTED CHOKE MANIFOLD 250 / 10,000 PSI; HELD EACH TEST >10 MINUTES WHILE RIG CREW OPENED BOPS & INSTALLED BLIND RAM BLOCKS IN MIDDLE, 3 1/2" X 5" FLEX RAM BLOCKS IN UPPER & LOWER RAM CAVITIES. WEATHERFORD TORQUED BOLTS.
	23:00 4:00	5.00	CASSURF	19		P	2,267.0	RU & TESTED CSG TO 2,500 PSI. FOR 30 MINS. TESTED 11" 5M ANNULAR TO 250 / 2,500 PSI AND REMAINING BOPE, FLOOR VALVES, ETC 250 / 5,000 PSI. HELD EACH TEST >10 MINUTES.
	4:00 6:00	2.00	CASSURF	28		P	2,267.0	NU RTG HEAD & FLOWLINE. INSERTED WEAR BUSHING.
7/13/2015	6:00 7:30	1.50	CASSURF	28		P	2,267.0	PU LIFT NIPPLES, ETC. CENTRALIZED & STABILIZED BOP STACK.
	7:30 9:00	1.50	CASSURF	14		P	2,267.0	PUMU RYAN'S TOOLS. ORIENTED & TESTED. MU BIT.
	9:00 9:30	0.50	CASSURF	12		P	2,267.0	RIG SERVICED. AJUSTED TORQUE TUBE TDU TRACK.
	9:30 12:30	3.00	CASSURF	12		P	2,267.0	PUMU 6 1/2" DCs & 4 1/2" DP TIH TO 2,064'.
	12:30 13:30	1.00	CASSURF	17		P	2,267.0	SLIP & CUT DRILLING LINE.
	13:30 14:00	0.50	CASSURF	31		P	2,267.0	RETESTED CASING TO 1,600 PSI TO RECORD DATA POINTS FOR CHART.
	14:00 15:00	1.00	CASSURF	32		P	2,267.0	DRILLED OUT CMT, FE & CLEANED OUT RAT HOLE. SHOE AT 2,240'.
	15:00 16:00	1.00	DRLINT1	33		P	2,267.0	CBU. PERFORMED LOT TO 10.4 EMW.
	16:00 6:00	14.00	DRLINT1	07		P	2,267.0	SPUDED AT 16:00 HRS, 7/12/2015. DRILLED 2,267' - 3,800'.
7/14/2015	6:00 12:00	6.00	DRLINT1	07		P	3,800.0	DRILLED 3,800' - 4,660'.
	12:00 12:30	0.50	DRLINT1	12		P	4,660.0	RIG SERVICED.
	12:30 2:30	14.00	DRLINT1	07		P	4,660.0	DRILLED 4,660' - 6,295'.
	2:30 3:00	0.50	DRLINT1	12		P	6,295.0	RIG SERVICED.
	3:00 6:00	3.00	DRLINT1	07		P	6,295.0	DRILLED 6,295' - 6,600'.
7/15/2015	6:00 13:30	7.50	DRLINT1	07		P	6,600.0	DRILLED 6,600' - 7,256'.
	13:30 14:00	0.50	DRLINT1	12		P	7,256.0	RIG SERVICED.
	14:00 3:00	13.00	DRLINT1	07		P	7,256.0	DRILLED 7,256' - 8,313'.
	3:00 3:30	0.50	DRLINT1	12		P	8,313.0	RIG SERVICED.
7/16/2015	3:30 6:00	2.50	DRLINT1	07		P	8,313.0	DRILLED 8,313' - 8,450'.
	6:00 8:00	2.00	DRLINT1	07		P	8,450.0	DRILLED 8,450' - 8,532' INTERMEDIATE TD. INCREASED MW TO 9.6 PPG.
	8:00 11:00	3.00	DRLINT1	15		P	8,532.0	SIMULATED CONNECTION. C & C MUD. RECORDED 3,500 UNITS OF GAS. MW CUT TO 9.1 PPG. RAISED MW TO 9.8 PPG.
	11:00 20:00	9.00	DRLINT1	13		P	8,532.0	TOOH. BACK REAMED 7,100' - 6,900', 4,065' - 3,974', 2450' - 2,350'. TOOH TO BHA.
	20:00 21:00	1.00	DRLINT1	14		P	8,532.0	REMOVED RH RUBBER. LAID DOWN RYAN'S TOOLS & BIT.
	21:00 3:00	6.00	DRLINT1	13		P	8,532.0	M/U RR BIT #1 ON SLICK BHA. STAGE IN HOLE 2,800' INTERVALS, CIR 30 MINUTES. HIT RESISTANCE AT 8,069'.
	3:00 4:30	1.50	DRLINT1	51		P	8,532.0	WASH AND REAMED 8,069' 8,143' 8,360'.
7/17/2015	4:30 6:00	1.50	DRLINT1	15		P	8,532.0	C & C MUD.
	6:00 9:00	3.00	EVLINT1	15		P	8,532.0	CIR & COND MUD AT 2.7 BPM. INCREASED MW 9.8 TO 10.0 PPG.
	9:00 9:30	0.50	EVLINT1	12		P	8,532.0	PUMPED SLUG. RIG SERVICED. FLOW CHECKED.
	9:30 17:00	7.50	EVLINT1	14		P	8,532.0	LAID DOWN 4 1/2" DP. HOLE SLICK.
	17:00 18:00	1.00	EVLINT1	14		P	8,532.0	LD BHA, SUB, & BIT.
	18:00 23:30	5.50	EVLINT1	22		P	8,532.0	RU HES. RAN STANDARD QUAD-COMBO 8,516' WLM TO CSG SHOE @ 2,234' WLM. RAN GR FROM SHOE TO SURFACE. 159F MAX TEMP RECORDED.
	23:30 0:00	0.50	CASINT1	42		P	8,532.0	PULLED WEAR BUSHING.
0:00 6:00	6.00	CASINT1	24		P	8,532.0	RU FRANK'S WESTATES' TOOLS. MU 7" SHOE TRACK PUMPED THRU SAME. SIH 7" CSG.	

7/18/2015

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	6:00 18:30	12.50	CASINT1	24		P	8,532.0	FINISHED SIH 205 JTS 7", 29#, HCP-110, LTC CSG TO 8,526'. FLOAT COLLAR AT 8,482', MARKER JT AT 6,856'. CBU 9.5 PPG MUD EVERY 1,000' AT 5 BPM TO 8,532'. NO MUD LOST.
	18:30 21:00	2.50	CASINT1	15		P	8,532.0	CBU. 7,720 UNITS OF PASON GAS BACK, HAD SOME OIL TO BACK TO SURFACE. NO FLARE. GAS CUT MUD 9.5 PPG TO 9.0 PPG.
	21:00 2:30	5.50	CASINT1	25		P	8,532.0	RU HES. MIXED & PUMPED 40 BBLS 10 PPG TUNED SPACER. 800 SXS (272 BBLS) EXTENDACEM LEAD CMT AT 12.5 PPG, 1.91 YLD TAILED WITH 280 SXS (82 BBLS) OF EXPANDACEM CMT AT 13.0 PPG, 1.64 YIELD. RELEASED TOP PLUG. DISPLACED WITH 314 BBLS OF 9.5 PPG MUD AT 6-4 BPM. BUMPED PLUG AT 01:57 HRS, 7/17/15 WITH 2,000 PSI. FINAL CIRC PRESS 1,530 PSI. HAD 2 BBLS BLED BACK, FLOATS HELD. RD CEMENTERS. HAD DECREASING RETURNS. LOST 100 BBLS DURING DISPLACEMENT. NO TUNED SPACER SEEN BACK TO SURFACE. RD HOWCO.
	2:30 3:30	1.00	CASINT1	25		P	8,532.0	LD LANDING JT. REPLACED ELEVATOR BAILS & ELEVATORS.
	3:30 4:00	0.50	CASINT1	42		P	8,532.0	REPLACED TDU SAVER SUB FOR 4" XT-39.
	4:00 6:00	2.00	CASINT1	30		P	8,532.0	INSTALL 7" CSG PACK-OFF.
7/19/2015	6:00 13:30	7.50	CASINT1	19		P	8,532.0	TESTED 11" 5M ANNULAR TO 250 / 4,000 PSI, RAMS & REMAINING BOPE, FLOOR VALVES, ETC TO 250 / 10,000 PSI. HELD EACH TEST > 10 MINUTES.
	13:30 15:30	2.00	CASINT1	14		P	8,532.0	MU 6-1/8" PHA BHA & TIH PU 4" DP. TO 1,289'.
	15:30 17:00	1.50	CASINT1	25		P	8,532.0	RU HES TO 9 5/8" WELL HEAD 2" OUTLET - M&P 200 SKS (68 BBLS) OF 12.5 PPG EXTENDACEM LEAD CMT AT 12.5 PPG, 1.91 YLD. CIP 16:40 HRS 7/18/15 FCP: 45 PSI. RD HES.
	17:00 1:30	8.50	CASINT1	14		P	8,532.0	CONTINUED TO PU 4" DP. FILL EVERY 1500' TO 8,373'. INSTALL ROTATING HEAD RUBBER.
	1:30 3:00	1.50	CASINT1	17		P	8,532.0	S&C DRILL LINE. STRING WL. ADJUST BRAKES.
	3:00 4:00	1.00	CASINT1	33		P	8,532.0	PERFORM LOT DATA IN CSG.
	4:00 5:00	1.00	CASINT1	32		P	8,532.0	TAGGED FC @ 8,480'. DRILL OUT FE, SHOE TRACK & 11'.
	5:00 6:00	1.00	CASINT1	33		P	8,543.0	C & C MUD. PERFORMED 14.5 LOT.
7/20/2015	6:00 12:00	6.00	DRLPRD	07		P	8,543.0	DRILLED 8,543' - 8,961'.
	12:00 12:30	0.50	DRLPRD	12		P	8,961.0	SERVICED RIG.
	12:30 3:00	14.50	DRLPRD	07		P	8,961.0	DRILLED 8,961' - 10,009'.
	3:00 3:30	0.50	DRLPRD	12		P	10,009.0	SERVICED RIG.
	3:30 6:00	2.50	DRLPRD	07		P	10,009.0	DRILLED 10,009' - 10,150'.
7/21/2015	6:00 14:00	8.00	DRLPRD	07		P	10,150.0	DRILLED 10,150' - 10,675'.
	14:00 14:30	0.50	DRLPRD	12		P	10,675.0	SERVICED RIG.
	14:30 1:00	10.50	DRLPRD	07		P	10,675.0	DRILLED 10,675' - 11,243'.
	1:00 1:30	0.50	DRLPRD	12		P	11,243.0	SERVICED RIG.
	1:30 6:00	4.50	DRLPRD	07		P	11,243.0	DRILLED 11,243' - 11,560' TD.
7/22/2015	6:00 8:00	2.00	DRLPRD	15		P	11,560.0	CIR & COND MUD RAISED MUD WT 12.1 PPG. 3RD PARTY GAS: 2,432 UNITS.
	8:00 11:00	3.00	DRLPRD	13		P	11,560.0	WIPER TRIP UP INTO 7" CSG SHOE 8,526'. TIH TO TD 11,560' HOLE SLICK BOTH WAYS.
	11:00 14:00	3.00	DRLPRD	15		P	11,560.0	CIR & COND MUD. BU GAS: 2,437 UNITS. RAISED MUD WT. 12.1 PPG - 12.3 PPG.
	14:00 16:00	2.00	EVLPRD	13		P	11,560.0	TRIP OUT TO 8,526'. HOLE SLICK.
	16:00 22:00	6.00	EVLPRD	14		P	11,560.0	TOH L/D EXCESS 4" DP BHA BIT.
	22:00 4:30	6.50	EVLPRD	22		P	11,560.0	PJSM. RU HES. RUN ULTRA SLIM QUAD COMBO LOG. LOGGERS WLM 11,550' TD HAD 3 SMALL BUMPS RIH (8,925' 9,576' 10,574') RD WL. FLUID LOSS WHILE LOGGING 14.3 BBLS.
	4:30 6:00	1.50	CASPRD1	24		P	11,560.0	PJSM. RU CSG CREW & TORQ TURN TO RUN 5" LINER.

7/23/2015

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	6:00 9:30	3.50	CASPRD1	24		P	11,560.0	PJSM. RU & RAN 77 JTS 5" 18# P-110HC STL LINER. 2 MARKER JTS. MADE UP VERSAFLEX LINER HANGER ASSEMBLY & SETTING TOOL.
	9:30 10:00	0.50	CASPRD1	15		P	11,560.0	INSTALLED ROTATING ELEMENT. CIRC LINER VOLUME @ 2.5 BPM. RD CSG CREW.
	10:00 15:30	5.50	CASPRD1	24		P	11,560.0	TIH W/ 5" LINER ON 4" DP @ 95 FPM TO 8,528'. BREAK CIRC EVERY 1,000'. CBU @ 2.5 BPM. MAX GAS 161 UNITS, NO MC, NO FLARE FINAL BG 78 UNITS. NO LOSSES.
	15:30 19:30	4.00	CASPRD1	24		P	11,560.0	TIH @ 75 FPM WITH 5" LINER ON 4" DP TO 11,560. BREAK CIRC EVERY 1,000'. CBU @ 10,320'. MAX GAS 6,771 UNITS, 8/10 MC, NO FLARE, FINAL BG 1,090 UNITS. TAG BTM WITH 10K. NO LOSSES. SPACED OUT & RU CMT HEAD.
	19:30 22:30	3.00	CASPRD1	15		P	11,560.0	CIRC 2X BU @ 1- 2.5 BPM, MAX GAS 1,927 UNITS. NO FLARE, NO GAIN, FINAL BG 174 UNITS. FINAL CIRC PRESSURE 659 PSI @ 2.5 BPM. NO LOSSES.
	22:30 1:30	3.00	CASPRD1	25		P	11,560.0	RU HES & TESTED LINES TO 9,500 PSI. PUMPED 20 BBLS 12 PPG TUNED SPACER & 300 SKS (81.2 BBLS) 14.2 PPG WITH 1.52 YIELD EXPANDACEM CMT @ 35% EXCESS. WASHED LINES. DROPPED DP DART. PUMPED 70 BBLS H2O WITH 2% KCL 0.1 % BIOCID, 71.2 BBLS 11.8 PPG MUD. BUMP PLUG @ 01:25 HRS WITH 3,106 PSI. PRESSURE PRIOR TO LAND 2,347 PSI. NO LOSSES. BLEED OF PRESSURE, 1.5 BBLS BACK. CHECK FLOATS.
	1:30 2:00	0.50	CASPRD1	25		P	11,560.0	RUPTURE DISC @ 5,370 PSI. PUMPED 45.2 BBLS, PRESSURED TO 7,090 PSI, EXPANDED HANGER. PULL TESTED LINER WITH 65K OVERPULL. SAT DOWN 55K, RELEASED SETTING TOOL FROM LINER HANGER. LANDED FS @ 11,558', FC @ 11,513', LC @ 11,469'. TOL @ 8,331'. 195' OF LAP. TOTAL LINER 3,227'. MARKER JT TOPs @ 10,548', 9,547'.
	2:00 3:00	1.00	CASPRD1	15		P	11,560.0	PULLED UP TO TOL. OBSERVED 2 OVERPULL OF 4K THROUGH CLAD SECTION. CIRC 1.5 TIMES ANNULAR VOLUME. 20 BBLS SPACER & 17 BBLS WEIGHTED CEMENT TO SURFACE. FC, WELL STATIC. POSITIVE TEST TOL TO 1,000 PSI FOR 10MIN, GOOD TEST.
	3:00 6:00	3.00	CASPRD1	15		P	11,560.0	DISPLACE HOLE WITH WATER. PUMPED 266 BBLS H2O NO ADDITIVES, 280 BBLS H2O WITH 2% KCL 0.1 % BIOCID. FC. WELL STATIC. RD CEMENT HEAD.
7/24/2015	6:00 6:30	0.50	CASPRD1	25		P	11,560.0	FINISH RD CMT HEAD. CHECK 9-5/8" X 7" ANNULUS. 0 PSI. NO FLOW. RU HES. FILL ANNULUS WITH 1/4 BBL OF WATER. RD HES.
	6:30 12:30	6.00	CASPRD1	14		P	11,560.0	LD DP & CLEAR RIG FLOOR. FLUSH MUD LINES & CLEAN PITS WHILE LD DP.
	12:30 15:00	2.50	CASPRD1	29		P	11,560.0	ND BOPE.
	15:00 17:00	2.00	CASPRD1	27		P	11,560.0	INSTALL TBG HEAD & FRAC VALVE. TESTED HEAD TO 5,000 PSI FOR 30 MIN. RIG RELEASED @ 17:00 HRS 07/23/15.
	17:00 6:00	13.00	RDMO	02		P	11,560.0	RIG DOWN. 100 % RD. 0% MOVED.

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CENTRAL DIVISION

ALTAMONT FIELD
WHITE 3-14C5
WHITE 3-14C5
COMPLETION LAND

Operation Summary Report

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

1 General**1.1 Customer Information**

Company	CENTRAL DIVISION
Representative	
Address	

1.2 Well Information

Well	WHITE 3-14C5		
Project	ALTAMONT FIELD	Site	WHITE 3-14C5
Rig Name/No.		Event	COMPLETION LAND
Start date	8/17/2015	End date	
Spud Date/Time	7/12/2015	UWI	WHITE 3-14C5
Active datum	KB @5,829.8ft (above Mean Sea Level)		
Afe No./Description	160705/54263 / WHITE 3-14C5		

2 Summary**2.1 Operation Summary**

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
7/30/2015	6:00 7:30	1.50	WOR	28		P		CT HOLD SAFETY MTG ON, RIGGING DWN RIG WRITE & REVIEW JSA'S
	7:30 9:30	2.00	MIRU	01		P		RIG DWN RIG ON 2-14C5, ROAD RIG TO LOCATION SPOT IN & RU, WHILE WHILE SETTING PIPE RACKS, CATWALK & OFF LOADING TBG
	9:30 11:30	2.00	WOR	16		P		ND 10K NIGHT CAP FLANGE, NU 5K BOP, RU WORK FLOOR & TBG TONGS, LAND TBG HANGER IN TBG LANDING HEAD W/ 2 WAY CHECK, TEST BOP TO 4000 PSI GOOD TEST
	11:30 18:00	6.50	WOR	24		P		TALLY MU & RIH W/ 4-1/8" ROCK BIT, BIT SUB, PICKING UP TBG 102 JTS 2-3/8" EU N-80 WORK STRING TBG, 2-3/8" X 2-7/8" EUE X OVER & 246 JTS 2-7/8" EUE L-80 TBG TAG @ 11387' TBGM, LD 1 JT 2-7/8" TBG, SHUT & LOCK PIPE RAMS CLOSE & NIGHT CAP CSG & TBG VALVES
7/31/2015	6:00 7:30	1.50	WOR	28		P		CT HOLD SAFETY MTG ON RU POWER SWIVEL WRITE & REVIEW JSA'S
	7:30 11:00	3.50	WOR	10		P		RU POWER SWIVEL, RUN PUMP LINES, BEGIN CIRCULATING, CLEAN OUT FROM 11387' TO LANDING COLLAR @ 11471', CIRC WELL BORE W/ 350BBLs TREATED 2% KCL
	11:00 15:30	4.50	WOR	24		P		RIG DWN & RACK OUT POWER SWIVEL, POOH LD249 JTS 2-7/8" EUE L-80 TBG, X OVER, 102 JTS 2-3/8" TBG, BIT SUB & 4-1/8" ROCK BIT, SHUT 10K FRAC VALVE, CLOSE & NIGHT CAO CSG VALVES
	15:30 17:30	2.00	WOR	16		P		RIG DWN TBG TONGS & WORK FLOOR, NDBOP, NU 10K NIGHT CAP ON TOP OF 10K FRAC VALVE, RIG DWN RIG RACK OUT PUMP & TANK SDFN
8/1/2015	6:00 7:30	1.50	CHLOG	28		P		TRAVEL TO LOC HOLD SAFETY MTG ON RU W.L. EQUIP, QRITE & REVIEW JSA'S
	7:30 12:00	4.50	CHLOG	22		P		RIH W/ CBL/CCL/GR, CORRELATE TO HALLIBURTON SPECTRAL, DENSITY SPACED NEUTRON ARRAY COMPENSATED TRUE RESISTIVITY LOG DATED 7/21/15 RUN # 2, TAG @ 11451' LOG OUT OF HOLE TO 1760' UNDER 4000 PSI ON CSG, POOH, CLOSE WELL IN, RD WL

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	12:00 14:00	2.00	WHDTR	18		P		CLEAN OUT CELLAR, SUCK OUT FLUID BETWEEN 13-3/8" CSG & 9-5/8" CSG, SWEDGE CSG UP W/ METAL WEDGES, PUMP 35 SX CMT AROUND 13-3/8" & 9-5/8" CSG,
8/7/2015	6:00 7:30	1.50	SITEPRE	28		P		TRAVEL TO LOC HOLD SAFETY MTG ON NU FRAC STACK, WRITE & REVIEW JSA'S
	7:30 12:00	4.50	WBP	16		P		ND 10K NIGHT CAP NU 5" 10K FRAC STACK, TEST CSG TO 9000 PSI FOR 30 MIN GOOD TEST, TEST STACK TO 10,000 PSI GOOD TEST, RUN WATER TRANSFER LINES, FLOW BACK MANIFOLD & FLOW BACK LINES TEST LINES TO 9000 PSI GOOD TEST, SDFD
8/8/2015	6:00 7:30	1.50	STG01	28		P		TRAVEL TO LOC HOLD SAFETY MTG ON RU W.L. CRANE WRITE & REVIEW JSA'S
	7:30 12:00	4.50	STG01	21		P		SPOT IN & RU WIRE LINE, RIH & SHOOT STG 1 INTERVALS FROM 11407'-11117', USING 2-3/4" TITAN PERFECTA SDP, 16 GRM CHARGES 3SPF @ 120 DEG PHASING, ALL PERFS ARE CORRELATED TO THE PERFORATORS CEMENT BOND LOG GAMMA RAY CCL LOG RUN 1, 7/31/2015, STARTING PRESSURE 1000 PSI ENDING PRESSURE 1000 PSI, POOH W/ GUNS, SHUT WELL IN & LOCK ALL VALVES & NIGHT CAO TOP OF STACK, SDFD
8/9/2015	6:00 14:00	8.00	STG01	18		P		TRAVEL TO LOC HOLD SAFETY MTG ON HEATING FRAC WTR, TRANSFER & TREAT FRAC WTR W/ CHLORINE DIOXIDE & HEAT FRAC WTR
8/10/2015	6:00 17:00	11.00	MIRU	01		P		TRAVEL TO LOC HOLD SAFETY MTG, SPOT IN & RU FRAC EQUIP
8/11/2015	6:00 7:30	1.50	STG01	28		P		TRAVEL TO LOC, HOLD SAFETY MTG ON PERFRING & FRACING OPERATIONS, WRITE & REVIEW JSA'S
	7:30 8:15	0.75	STG01	18		P		START & WARM UP FRAC EQUIP
	8:15 9:30	1.25	STG01	35		P		PRESSURE TEST PUMP LINES TO 9455 PSI. OPEN WELL. SICP 380 PSI. BREAK DOWN STAGE 1 PERFORATIONS @ 4197 PSI, PUMPING 10 BPM. BRING RATE UPTO 42.5 BPM. PUMP 78 TTL BBLS FLUID THEN PERFORM STEP RATE SHUT DOWN TEST. ISIP 3585 PSI. FG .75. 5 MIN 3416 PSI. 10 MIN 3379 PSI. TREAT STAGE 1 PERFORATIONS W/ 5000 GALLONS HCL ACID, 3000 LBS 100 MESH SAND IN 1/2 PPG STAGE & 150,500 LBS THS 30/50 SAND IN 1/2 PPG, 1 PPG, 2 PPG & 3 PPG STAGES. ISIP 3999 PSI. FG .78. AVG RATE 65.9 BPM. MAX RATE 75.8 BPM. AVG PSI 4909 PSI. MAX PSI 7365 PSI. SHUT IN WELL, & TURN OVER TO WIRE LINE. 3975 BBLS FLUID TO RECOVER.
	9:30 11:30	2.00	STG02	21		P		RIH & SET 5" CBP @ 11032'. PERFORATE STAGE 2 PERFORATIONS FROM 11017' TO 10701', USING 2-3/4" TITAN PERFECTA SDP GUNS, 16 GRAM CHARGES, 3 SPF, 120 DEGREE PHASING. ALL PERFS CORRELATED TO THE PERFORATORS CBL/GR/CCL LOG DATED 7/31/2015, STARTING PRESSURE 3800 PSI, ENDING 3600 PSI, POOH W/ W.L., SHUT WELL IN & TURN OVER TO FRAC CREW
	11:30 13:00	1.50	STG02	35		P		PRESSURE TEST PUMP LINES TO 9567 PSI. OPEN WELL. SICP 3640 PSI. BREAK DOWN STAGE 2 PERFORATIONS @ 4288 PSI, PUMPING 10 BPM. BRING RATE UPTO 42 BPM. PUMP 89 TTL BBLS FLUID THEN PERFORM STEP RATE SHUT DOWN TEST. ISIP 3931 PSI. FG .79. 5 MIN 3811 PSI. 10 MIN 3788 PSI. TREAT STAGE 2 PERFORATIONS W/ 5000 GALLONS HCL ACID, 3000 LBS 100 MESH SAND IN 1/2 PPG STAGE & 150,580 LBS THS 30/50 SAND IN 1/2 PPG, 1 PPG, 2 PPG & 3 PPG STAGES. ISIP 4129 PSI. FG .81. AVG RATE 68.4 BPM. MAX RATE 76.4 BPM. AVG PSI 5085 PSI. MAX PSI 7213 PSI. SHUT IN WELL, & TURN OVER TO WIRE LINE. 3824 BBLS FLUID TO RECOVER.

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	13:00 14:30	1.50	STG03	21		P		RIH & SET 5" CBP @ 10633'. PERFORATE STAGE 3 PERFORATIONS FROM 10618' TO 10398', USING 2-3/4" TITAN PERFECTA SDP GUNS, 16 GRAM CHARGES, 3 SPF, 120 DEGREE PHASING. ALL PERFS CORRELATED TO THE PERFORATORS CBL/GR/CCL LOG DATED 7/31/2015, STARTING PRESSURE 4000 PSI, ENDING 3800 PSI, POOH W/ W.L., SHUT WELL IN & TURN OVER TO FRAC CREW
	14:30 16:00	1.50	STG03	35		P		PRESSURE TEST PUMP LINES TO 9476 PSI. OPEN WELL. SICP 3834 PSI. BREAK DOWN STAGE 3 PERFORATIONS @ 4237 PSI, PUMPING 10 BPM. BRING RATE UPTO 44 BPM. PUMP 88 TTL BBLS FLUID THEN PERFORM STEP RATE SHUT DOWN TEST. ISIP 3965 PSI. FG .81. 5 MIN 3847 PSI. 10 MIN 3824 PSI. TREAT STAGE 3 PERFORATIONS W/ 5000 GALLONS HCL ACID, 3000 LBS 100 MESH SAND IN 1/2 PPG STAGE & 150,500 LBS TLC 30/50 SAND IN 1/2 PPG, 1 PPG, 2 PPG & 3 PPG STAGES. ISIP 4079 PSI. FG .82. AVG RATE 68.6 BPM. MAX RATE 75.7 BPM. AVG PSI 4897 PSI. MAX PSI 6927 PSI. SHUT IN WELL, & TURN OVER TO WIRE LINE. 3856 BBLS FLUID TO RECOVER.
	16:00 17:30	1.50	STG04	21		P		RIH & SET 5" CBP @ 10356'. PERFORATE STAGE 4 PERFORATIONS FROM 10341' TO 10087', USING 2-3/4" TITAN PERFECTA SDP GUNS, 16 GRAM CHARGES, 3 SPF, 120 DEGREE PHASING. ALL PERFS CORRELATED TO THE PERFORATORS CBL/GR/CCL LOG DATED 7/31/2015, STARTING PRESSURE 3900 PSI, ENDING 3800 PSI, POOH W/ W.L., SHUT WELL IN & TURN OVER TO FRAC CREW
	17:30 19:00	1.50	STG04	35		P		PRESSURE TEST PUMP LINES TO 9563 PSI. OPEN WELL. SICP 3815 PSI. BREAK DOWN STAGE 4 PERFORATIONS @ 4053 PSI, PUMPING 10 BPM. BRING RATE UPTO 45 BPM. PUMP 85 TTL BBLS FLUID THEN PERFORM STEP RATE SHUT DOWN TEST. ISIP 3998 PSI. FG .82. 5 MIN 3826 PSI. 10 MIN 3809 PSI. TREAT STAGE 4 PERFORATIONS W/ 5000 GALLONS HCL ACID, 3000 LBS 100 MESH SAND IN 1/2 PPG STAGE & 151,000 LBS TLC 30/50 SAND IN 1/2 PPG, 1 PPG, 2 PPG & 3 PPG STAGES. ISIP 4176 PSI. FG .84. AVG RATE 64.8 BPM. MAX RATE 75.4 BPM. AVG PSI 4748 PSI. MAX PSI 6672 PSI. SHUT IN WELL, & TURN OVER TO WIRE LINE. 3843 BBLS FLUID TO RECOVER.
	19:00 21:00	2.00	STG05	21		P		RIH & SET 5" CBP @ 10063'. PERFORATE STAGE 5 PERFORATIONS FROM 10048' TO 9785', USING 2-3/4" TITAN PERFECTA SDP GUNS, 16 GRAM CHARGES, 3 SPF, 120 DEGREE PHASING. ALL PERFS CORRELATED TO THE PERFORATORS CBL/GR/CCL LOG DATED 7/31/2015, STARTING PRESSURE 3900 PSI, ENDING 3700 PSI, POOH W/ W.L., SHUT IN MASTER FRAC VALVE, BOTH HCR VALVES, CROSS FLOW VALVES & NIGHT CAP TOP OF STACK & FLOW CROSS VALVES, GREASE FRAC STACK VALVES, SDFN
8/12/2015	6:00 7:15	1.25	STG05	28		P		TRAVEL TO LOCATION HOLD SAFETY MTG ON PRESSURIZED LINES, WRITE & REVIEW JSA'S

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	7:15 8:45	1.50	STG05	35		P		PRESSURE TEST PUMP LINES TO 9564 PSI. OPEN WELL. SICP 3308 PSI. BREAK DOWN STAGE 5 PERFORATIONS @ 4476 PSI, PUMPING 10 BPM. BRING RATE UPTO 39 BPM. PUMP 93 TTL BBLS FLUID THEN PERFORM STEP RATE SHUT DOWN TEST. ISIP 3982 PSI. FG .83. 5 MIN 3720 PSI. 10 MIN 3572 PSI. TREAT STAGE 5 PERFORATIONS W/ 5000 GALLONS HCL ACID, 3000 LBS 100 MESH SAND IN 1/2 PPG STAGE & 151,300 LBS TLC 30/50 SAND IN 1/2 PPG, 1 PPG, 2 PPG & 3 PPG STAGES. ISIP 4186 PSI. FG .85. AVG RATE 67.1 BPM. MAX RATE 75.4 BPM. AVG PSI 4901 PSI. MAX PSI 6508 PSI. SHUT IN WELL, & TURN OVER TO WIRE LINE. 3849 BBLS FLUID TO RECOVER.
	8:45 10:00	1.25	STG06	21		P		RIH & SET 5" CBP @ 9770'. PERFORATE STAGE 6 PERFORATIONS FROM 9755' TO 9517', USING 2-3/4" TITAN PERFECTA SDP GUNS, 16 GRAM CHARGES, 3 SPF, 120 DEGREE PHASING. ALL PERFS CORRELATED TO THE PERFORATORS CBL/GR/CCL RUN 1 LOG DATED 7/31/2015, STARTING PRESSURE 3800 PSI, ENDING 3500 PSI, POOH W/ W.L., SHUT WELL IN & TURN OVER TO FRAC CREW
	10:00 11:30	1.50	STG06	35		P		PRESSURE TEST PUMP LINES TO 9509 PSI. OPEN WELL. SICP 3410 PSI. BREAK DOWN STAGE 6 PERFORATIONS @ 3839 PSI, PUMPING 10 BPM. BRING RATE UPTO 39 BPM. PUMP 95 TTL BBLS FLUID THEN PERFORM STEP RATE SHUT DOWN TEST. ISIP 3762 PSI. FG .82. 5 MIN 3488 PSI. 10 MIN 3432 PSI. TREAT STAGE 6 PERFORATIONS W/ 5000 GALLONS HCL ACID, 3000 LBS 100 MESH SAND IN 1/2 PPG STAGE & 150,600 LBS TLC 30/50 SAND IN 1/2 PPG, 1 PPG, 2 PPG & 3 PPG STAGES. ISIP 3974 PSI. FG .84. AVG RATE 73.7 BPM. MAX RATE 75.6 BPM. AVG PSI 4634 PSI. MAX PSI 6163 PSI. SHUT IN WELL, & TURN OVER TO WIRE LINE. 3829 BBLS FLUID TO RECOVER.
	11:30 13:00	1.50	STG07	21		P		RIH & SET 5" CBP @ 9499'. PERFORATE STAGE 7 PERFORATIONS FROM 9484' TO 9216', USING 2-3/4" TITAN PERFECTA SDP GUNS, 16 GRAM CHARGES, 3 SPF, 120 DEGREE PHASING. ALL PERFS CORRELATED TO THE PERFORATORS CBL/GR/CCL RUN 1 LOG DATED 7/31/2015, STARTING PRESSURE 3200 PSI, ENDING 2700 PSI, POOH W/ W.L., SHUT WELL IN & TURN OVER TO FRAC CREW
	13:00 14:30	1.50	STG07	35		P		PRESSURE TEST PUMP LINES TO 9455 PSI. OPEN WELL. SICP 2443 PSI. BREAK DOWN STAGE 7 PERFORATIONS @ 3082 PSI, PUMPING 10 BPM. BRING RATE UPTO 40 BPM. PUMP 97 TTL BBLS FLUID THEN PERFORM STEP RATE SHUT DOWN TEST. ISIP 3350 PSI. FG .79. 5 MIN 2728 PSI. 10 MIN 2560 PSI. TREAT STAGE 7 PERFORATIONS W/ 5000 GALLONS HCL ACID, 3000 LBS 100 MESH SAND IN 1/2 PPG STAGE & 150,000 LBS TLC 30/50 SAND IN 1/2 PPG, 1 PPG, 2 PPG & 3 PPG STAGES. ISIP 3728 PSI. FG .83. AVG RATE 67.7 BPM. MAX RATE 76.2 BPM. AVG PSI 4232 PSI. MAX PSI 5463 PSI. SHUT IN WELL, & TURN OVER TO WIRE LINE. 3877 BBLS FLUID TO RECOVER.
	14:30 15:30	1.00	STG08	21		P		RIH & SET 5" CBP @ 9193'. PERFORATE STAGE 8 PERFORATIONS FROM 9178' TO 8933', USING 2-3/4" TITAN PERFECTA SDP GUNS, 16 GRAM CHARGES, 3 SPF, 120 DEGREE PHASING. ALL PERFS CORRELATED TO THE PERFORATORS CBL/GR/CCL RUN 1 LOG DATED 7/31/2015, STARTING PRESSURE 3300 PSI, ENDING 2900 PSI, POOH W/ W.L., SHUT WELL IN & TURN OVER TO FRAC CREW

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	15:30 17:00	1.50	STG08	35		P		PRESSURE TEST PUMP LINES TO 9380 PSI. OPEN WELL. SICP 2762 PSI. BREAK DOWN STAGE 8 PERFORATIONS @ 3491 PSI, PUMPING 10 BPM. BRING RATE UPTO 38 BPM. PUMP 96 TTL BBLS FLUID THEN PERFORM STEP RATE SHUT DOWN TEST. ISIP 3089 PSI. FG .77. 5 MIN 2830 PSI. 10 MIN 2758 PSI. TREAT STAGE 8 PERFORATIONS W/ 5000 GALLONS HCL ACID, 3000 LBS 100 MESH SAND IN 1/2 PPG STAGE & 144,600 LBS TLC 30/50 SAND IN 1/2 PPG, 1 PPG, 2 PPG & 3 PPG STAGES. ISIP 3216 PSI. FG .78. AVG RATE 67.6 BPM. MAX RATE 75.8 BPM. AVG PSI 4049 PSI. MAX PSI 5047 PSI. SHUT IN 7" 10 K FRAC VALVE & HCR VALVES, 3816 BBLS FLUID TO RECOVER.
	17:00 20:00	3.00	RDMO	02		P		RIG DWN & MOVE OFF LOCATION W/ FRAC & WIRE LINE EQUIPMENT, SDFN
8/13/2015	6:00 7:00	1.00	CTU	28		P		TRAVEL TO LOC, HOLD SAFETY MTG ON RU CT EQUIP, WRITE & REVIEW JSA'S
	7:00 10:00	3.00	CTU	16		P		SPOT IN RU CTS 2" COIL TBG UNIT, ND GOAT HEAD, MU COIL CONNECTOR & PULL TEST, MU MTR ASSY W/ 4-1/8" JZ ROCK BIT & FUNCTION TEST MTR ASSY, NU CT BOP, TEST STACK & FLOW BACK LINES TO 8000 PSI GOOD TEST
	10:00 19:00	9.00	CTU	39		P		OPEN WELL @ 1950 PSI, RIH W/ CT PUMPING 1/2 BPM & RETURNING 1 BPM TO FLOW BACK TANKS, @ LINER TOP CHANGE RATES TO 2.5 BPM RETURNING 3.5 BPM, CONT IN HOLE DRILLING OUT 5" CBP'S @ 9193', 9499', 9770', 10063', 10356', 10633' & 11032', CONT IN HOLE & CLEAN OUT TO LANDING COLLAR @ 11471', CIRC FOR 1 HR ON BTM & 1 HR @ LINER TOP, TOOH SWI, LD BIT & MTR ASSY, BLOW COIL DRY, NU GOAT HEAD & NIGHT CAP, RIG DWN COIL TBG EQUIP
	19:00 19:00	0.00	FB	19		P		OPEN WELL ON 12/ 64 CHOKE @ 2500 PSI, FLOWING TO FLOW BACK TANK TURN WELL OVER TO FLOW BACK CREW
8/14/2015	20:00 6:00	10.00	FB	19		P		HOLD SAFETY MTG ON CLEANING CHOKES WRITE & REVIEW JSA'S, CURRENT WELL PRESSURE 2125 PSI ON 12/64 CHOKE FLOWED 460 BBLS WATER 0 OIL & 0 GAS
8/15/2015	6:00 6:00	24.00	FB	19		P		HOLD SAFETY MTG ON GAUGING TANKS WRITE & REVIEW JSA'S, WELL FLOWING ON 12/64 CHOKE, CURRENT CSG PRESSURE 1800 PSI, 0 BBLS OIL, 0 MCF, FLOWED 1090 BBLS WATER
8/16/2015	6:00 6:00	24.00	FB	19		P		HOLD SAFETY MTG ON TURNING WELL TO PRODUCTION FACILITY WRITE & REVIEW JSA'S, WELL FLOWING ON 12/64 CHOKE CURRENT PRESSURE CSG PRESSURE 1825 PSI, FLOWED 89 BBLS OIL, 111 MCF & 563 BBLS WATER
8/17/2015	6:00 6:00	24.00	FB	19		P		HOLD SAFETY MTG ON SLIPT & TRIPS WRITE & REVIEW JSA'S, WELL FLOWING ON 12/64 CHOKE, CURRENT CSG PRESSURE 1800 PSI, FLOWED 242 BBLS OIL, 287 MCF & 370 BBLS WATER
8/18/2015	6:00 7:30	1.50	WLWORK	28		P		TRAVEL TO LOC HOLD SAFETY MTG ON WIRE LINE OPERATIONS, WRITE & REVIEW JSA'S
	7:30 9:30	2.00	WLWORK	20		P		MIRU WL, EQUALIZE LUBRICATOR 1800 PSI, RIH W/ 2-3/8" PUMP OUT PLUG PINNED W/ 4 PINS, 2-3/8" X 4' N80 TBG SUB, 5" ASX-1 PKR, RIH & SET PKR @ 8400', POOH RD WIRE LINE
	9:30 12:00	2.50	FB	19		P		BLEED WELL OFF RECOVERING 95 BBLS OIL, 208 MCF & 94 BBLS WATER, 0 PSI ON CSG
	12:00 13:30	1.50	WOR	16		P		ND FRAC STACK TO 10K MASTER FRAC VALVE, NU & TEST 5K BOP GOOD TEST
	13:30 14:30	1.00	WOR	18		P		MIRU PEAK 2100, RU WORK FLOOR & TBG TONGS, WHILE PUMPING 40 BBLS TREATED 2% KCL DWN CSG W/ HOT OIL TRUCK

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	14:30 14:30	0.00	WOR	24		P		MU & RIH W/ 5" ON-OFF SKIRT, TALLY & PU 5 JTS 2-3/8" EUE N-80 TBG, 2-7/8" X 2-3/8" EUE X OVER & 246 JTS 2-7/8" EUE L-80 TBG, EOT @ 8300', CLOSE & LOCK PIPE RAMS TIW VALVE & NIGHT CAPS ON TBG & CSG VALVE SDFN
8/19/2015	6:00 7:30	1.50	WOR	28		P		CT HOLD SAFETY MTG ON NDBOP & NUWH, WRITE & REVIEW JSA'S
	7:30 8:30	1.00	WOR	24		P		SITP & SICP 100 PSI BLOW DWN WELL, PUMP 20 BBLS DWN DWN TBG, PU & RIH W/ 4 JTS 2-7/8" EUE L-80 TBG, LATCH ONTO PKR & GET SPACE OUT MEASUREMENTS, J-OFF PKR POOH & LD 2 JTS 2-7/8" TBG, RIH W/ 6' X 2-7/8" N-80 TBG SUB & 1 JT 2-7/8" TBG
	8:30 11:00	2.50	WOR	06		P		CIRC OIL & GAS OUT OF WELL BORE W/ 330 BBLS 2% KCL TREATED W/ PKR FLUID
	11:00 13:00	2.00	WOR	16		P		MU BREECH LOCK TBG HANGER RIH & LAND TBG HANGER W/ BPV, J OUT OF HANGER RIH LATCH ONTO PKR PULL UP & LAND TBG IN BREECH LOCK TBG HANGER ASSY IN 10K TENSION, TEST CSG TO 1000 PSI GOOD TEST, RD WORK FLOOR NDBOP & 10K FRAC VALVE, PULL BPV, SET 2 WAY CHECK & TEST WELL HEAD & FLOW LINES TO 5000 PSI GOOD TEST, LUBRICATE 2 WAY CHECK OUT OF HANGER
	13:00 14:00	1.00	WOR	18		P		RIG DWN RIG, PUMP OUT PLUG @ 3300 PSI
	14:00 17:30	3.50	WOR	18		P		OPEN WELL ON 14/64 CHOKE @ 1450 PSI & TURN WELL OVER TO FLOW BACK CREW, PU LOCATION, ROAD RIG TO 4-32B4, SPOT IN & RIG UP RIG SDFN

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