

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 Trust 3-23C5							
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') Alan B. White, Trustee						14. SURFACE OWNER PHONE (if box 12 = 'fee') 208-484-7671							
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee') 1020 Sage Creek Court, Heber City, UT 84032						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')							
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>							
20. LOCATION OF WELL		FOOTAGES		QTR-QTR		SECTION		TOWNSHIP		RANGE		MERIDIAN	
LOCATION AT SURFACE		1405 FSL 1803 FWL		NESW		23		3.0 S		5.0 W		U	
Top of Uppermost Producing Zone		904 FSL 1833 FWL		SESW		23		3.0 S		5.0 W		U	
At Total Depth		904 FSL 1833 FWL		SESW		23		3.0 S		5.0 W		U	
21. COUNTY DUCHESNE			22. DISTANCE TO NEAREST LEASE LINE (Feet) 904			23. NUMBER OF ACRES IN DRILLING UNIT 80							
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 2800			26. PROPOSED DEPTH MD: 11626 TVD: 11600							
27. ELEVATION - GROUND LEVEL 5779			28. BOND NUMBER 400JU0708			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE Duchesne City Water							
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 - 700	54.5	J-55 ST&C	0.0	Class G	879	1.15	15.8			
SURF	12.25	9.625	0 - 2200	40.0	N-80 LT&C	0.0	Type V	373	2.36	12.0			
							Class G	195	1.3	14.3			
I1	8.75	7	0 - 8456	29.0	HCP-110 LT&C	10.3	Class G	592	1.91	12.5			
							Class G	292	1.64	13.0			
L1	6.125	5	8306 - 11626	18.0	HCP-110 LT&C	12.0	Class G	198	1.52	14.2			
ATTACHMENTS													
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES													
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER						<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN							
<input checked="" type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)						<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER							
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)						<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP							
NAME Maria S. Gomez			TITLE Principal Regulatory Analyst			PHONE 713 997-5038							
SIGNATURE			DATE 04/14/2015			EMAIL maria.gomez@epenergy.com							
API NUMBER ASSIGNED 43013532850000			APPROVAL			 Permit Manager							

**White Trust 3-23C5
Sec. 23, 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)	3,608' TVD
Green River (GRTN1)	4,386' TVD
Mahogany Bench	5,233' TVD
L. Green River	6,566' TVD
Wasatch	8,356' TVD
T.D. (Permit)	11,600' TVD / +/- 11,626' MD

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

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
Water	Base MSGW	696' TVD / MD
	Green River (GRRV)	3,608' TVD / 3,616' MD
	Green River (GRTN1)	4,386' TVD / 4,402' MD
	Mahogany Bench	5,233' TVD / 5,255' MD
Oil	L. Green River	6,566' TVD / 6,589' MD
Oil	Wasatch	8,356' TVD / 8,382' MD

3. Pressure Control Equipment: (Schematic Attached)

A Diverter System on structural pipe from surface to 700' MD/TVD. A Diverter System w/ rotating head from 700' 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 8,456' MD / 8,430' TVD. A 10M BOP stack w/ rotating head, spacer spool, 5M annular, flex rams, blind rams & single w/ flex rams from 8,456' MD / 8,430' TVD to TD (11,626' MD / 11,600' 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 24 water wells within 10,000' of the proposed location. Due the MSGW being so shallow, I will pre-set 13-3/8" at 700' & 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 11,433' or 2.17 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 2.17 miles North East 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
- 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	11.0 – 12.0

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

Visual mud monitoring equipment will be utilized.

6. **Evaluation Program:**

Logs:

Mud Log: 2,200' MD/TVD – TD

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

7. **Abnormal Conditions:**

Maximum anticipated bottomhole pressure calculated at 11,600' TVD equals approximately 7,238 psi. This is calculated based on a 0.624 psi/ft gradient (12.0 ppg mud density at TD).

Maximum anticipated surface pressure equals approximately 4,686 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 8,430' TVD = 6,744 psi

BOPE and casing design will be based on the lesser of the two MASPs which is 4,686 psi.

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

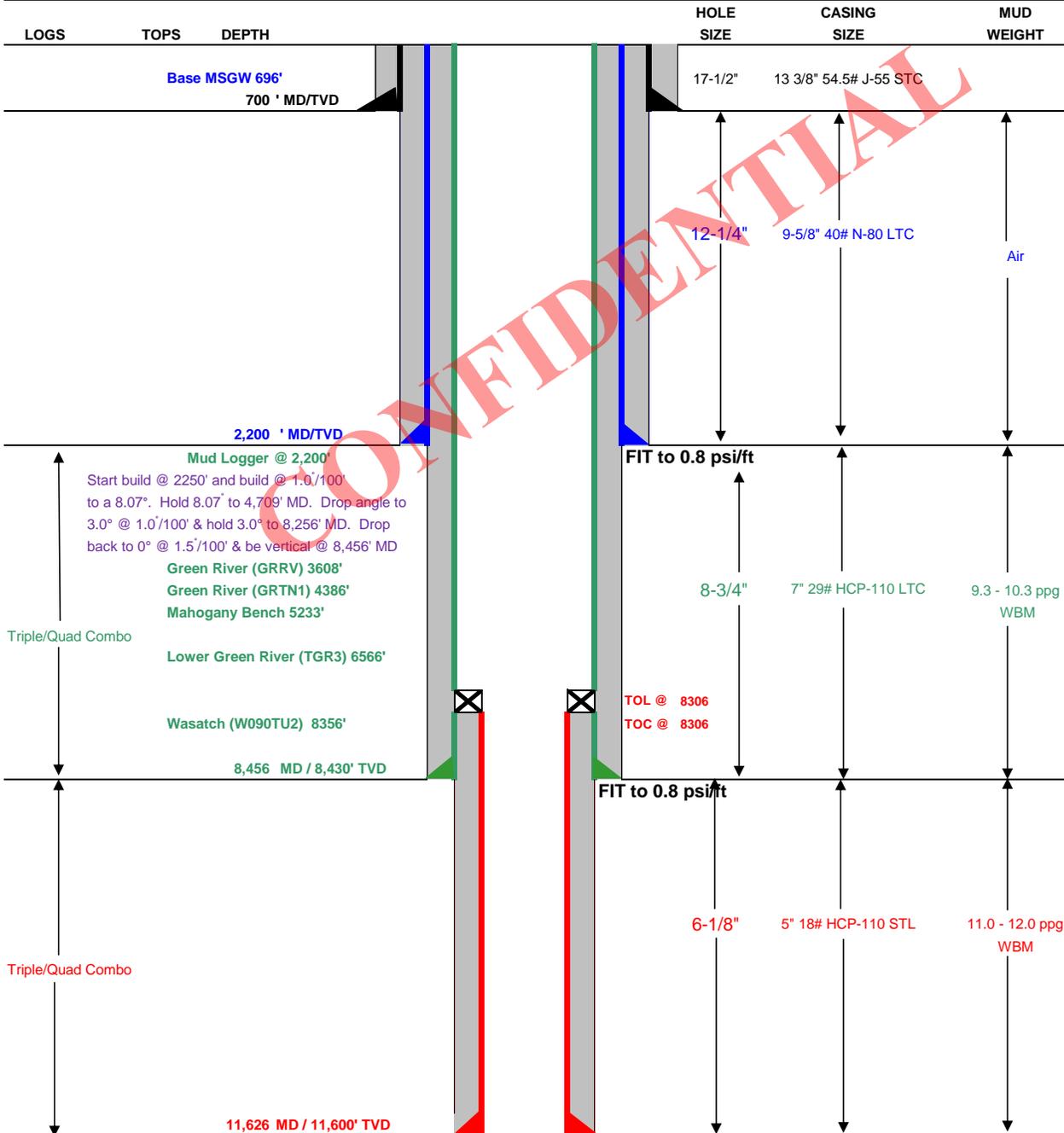
CONFIDENTIAL



Drilling Schematic

Company Name: EP ENERGY	Date: April 13, 2015
Well Name: White Trust 3-23C5	TD: 11,626
Field, County, State: Altamont, Duchesne, Utah	AFE #: TBD
Surface Location: Sec 23 T3S R5W 1405' FSL 1803' FWL	BHL: Sec 23 T3S R5W 904' FSL 1833' FWL
Objective Zone(s): Green River, Wasatch	Elevation: 5778.9
Rig: Precision 406	Spud (est.): TBD
BOPE Info: Diverter System w/ rotating head from 700' to 2,200' . 11 10M BOPE w/ rotating head & 5M annular from 2,200' to 8,456' . 11 10M BOPE w/ rotating head, spacer spool, 5M annular, flex rams, blind rams, single w/ flex rams from 8,456' to TD	

MECHANICAL



DRILLING PROGRAM

CASING PROGRAM	SIZE	INTERVAL		WT.	GR.	CPLG.	BURST	COLLAPSE	TENSION
CONDUCTOR	13 3/8"	0	700	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	8456	29.00	HCP-110	LTC	11,220	9,750	797
PRODUCTION LINER	5"	8306	11626	18.00	HCP-110	STL	13,940	15,450	341

CEMENT PROGRAM		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
CONDUCTOR		700	Class G + 3% CACL2	879	100%	15.8 ppg	1.15
SURFACE	Lead	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	373	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	6,056	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	592	35%	12.5 ppg	1.91
	Tail	2,400	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	292	30%	13.0 ppg	1.64
PRODUCTION LINER		3,320	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	198	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 +/- 6,550'.
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 TRUST 3-23C5
SECTION 23, T3S, R5W, U.S.B.&M.

PROCEED NORTH ON A COUNTY ROAD 195 FROM THE INTERSECTION OF COUNTY ROAD 195 WITH US HIGHWAY 40 IN DUCHESNE (AT GATEWAY CORNER), UTAH APPROXIMATELY 2.77 MILES TO AN INTERSECTION;

TURN RIGHT AND TRAVEL EASTERLY ON A DIRT ROAD 0.17 MILES TO THE BEGINNING OF THE ACCESS ROAD;

TURN LEFT AND FOLLOW ROAD FLAGS NORTHERLY 0.10 MILES TO THE PROPOSED LOCATION;

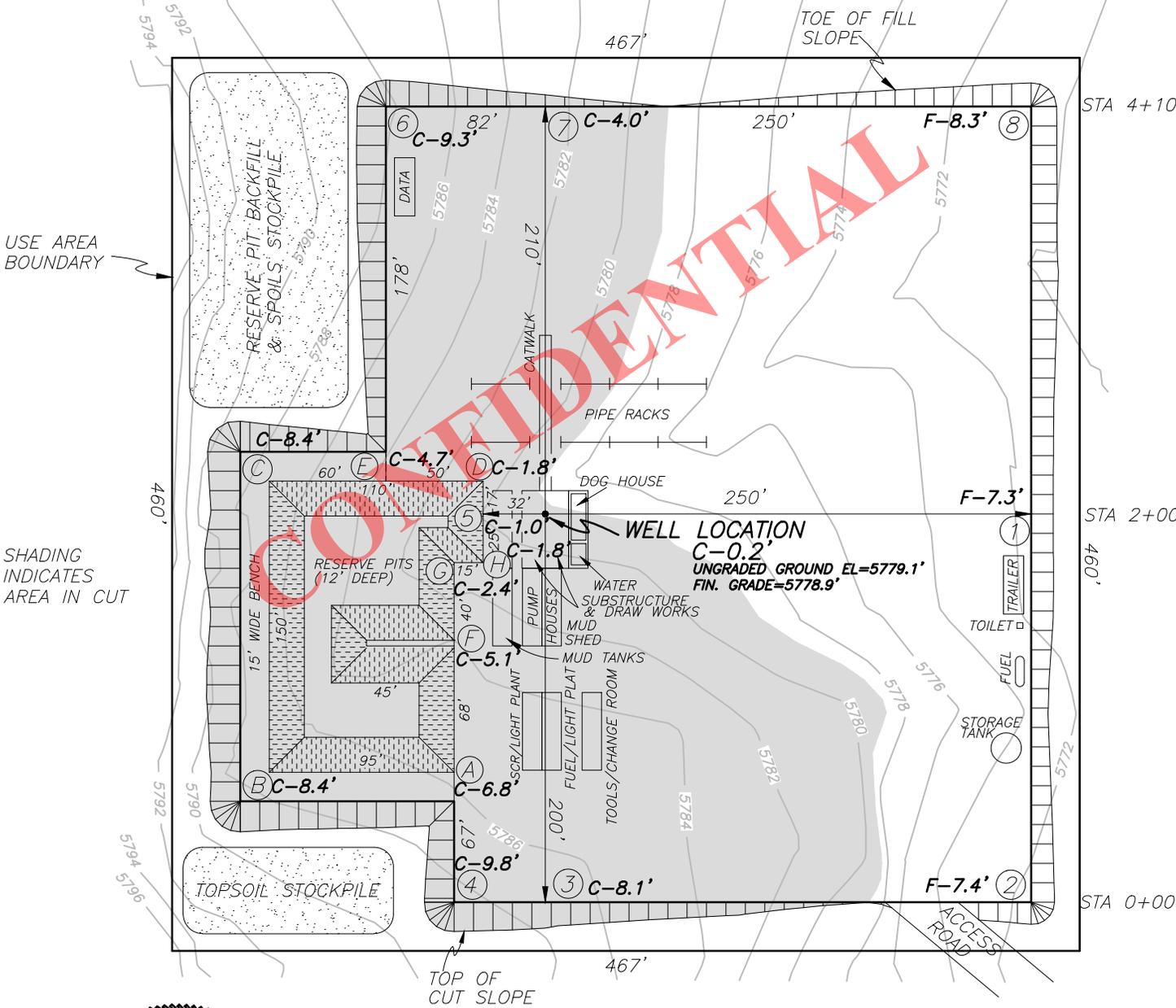
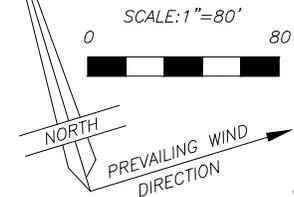
TOTAL DISTANCE FROM DUCHESNE, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 3.04 MILES.

CONFIDENTIAL

EP ENERGY E&P COMPANY, L.P.

FIGURE #1

LOCATION LAYOUT FOR
 WHITE TRUST 3-23C5
 SECTION 23, T3S, R5W, U.S.B.&M.
 1405' FSL, 1803' FWL



EP ENERGY E&P COMPANY, L.P.

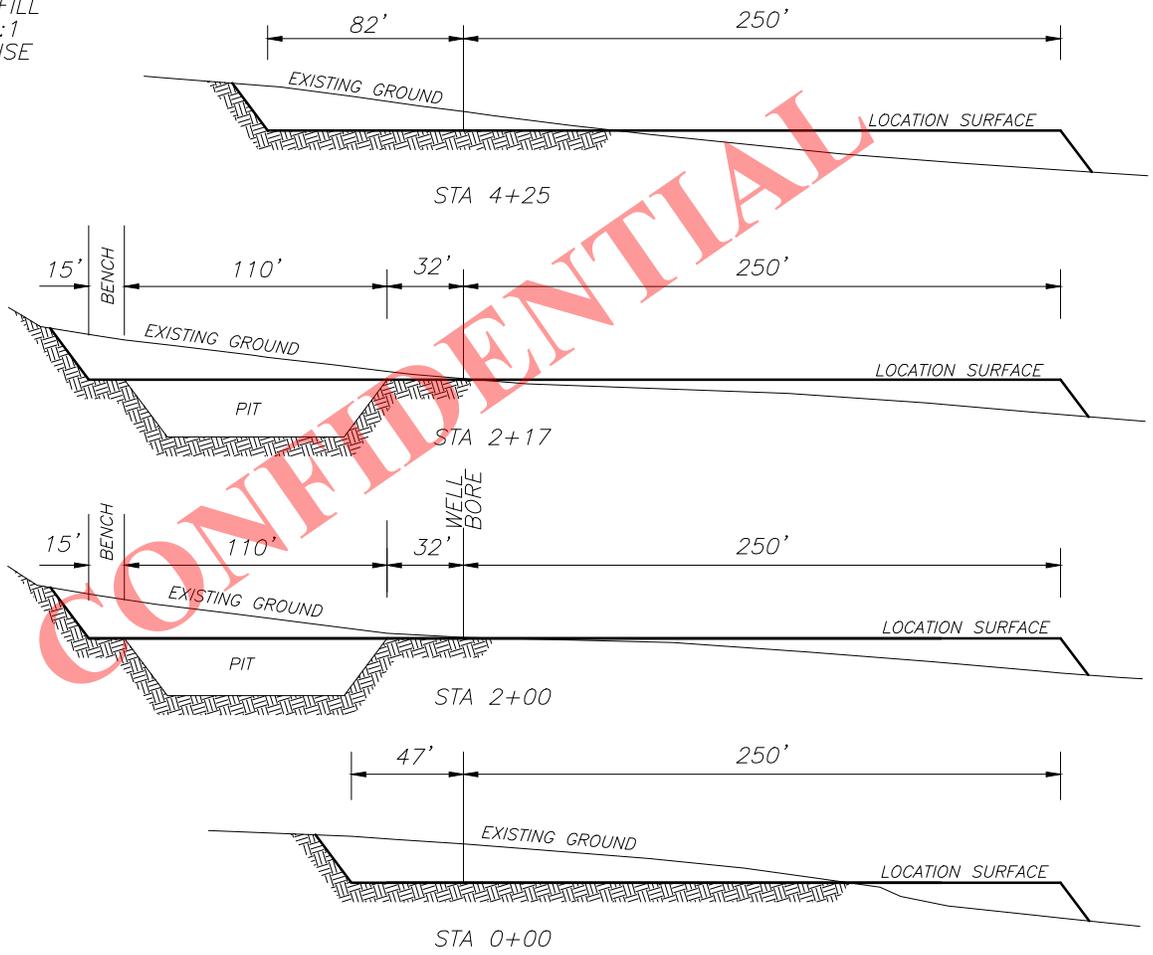
FIGURE #2

LOCATION LAYOUT FOR WHITE TRUST 3-23C5

SECTION 23, T3S, R5W, U.S.B.&M.
1405' FSL, 1803' FWL

X-SECTION
SCALE
1"=40'
1"=80'

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



APPROXIMATE QUANTITIES

TOTAL CUT (INCLUDING PIT) = 20,919 CU. YDS.

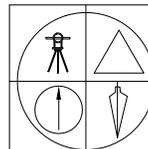
PIT CUT = 4288 CU. YDS.
TOPSOIL STRIPPING: (6") = 3079 CU. YDS.
REMAINING LOCATION CUT = 13,552 CU. YDS

TOTAL FILL = 10,677 CU. YDS.

LOCATION SURFACE GRAVEL=1563 CU. YDS. (4" DEEP)
ACCESS ROAD GRAVEL=146 CU. YDS.



REV 9 APR 2015
15 OCT 2013 01-128-453



JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS

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

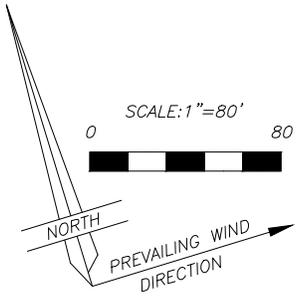
RECEIVED: April 14, 2015

EP ENERGY E&P COMPANY, L.P.

FIGURE #3

LOCATION LAYOUT FOR WHITE TRUST 3-23C5

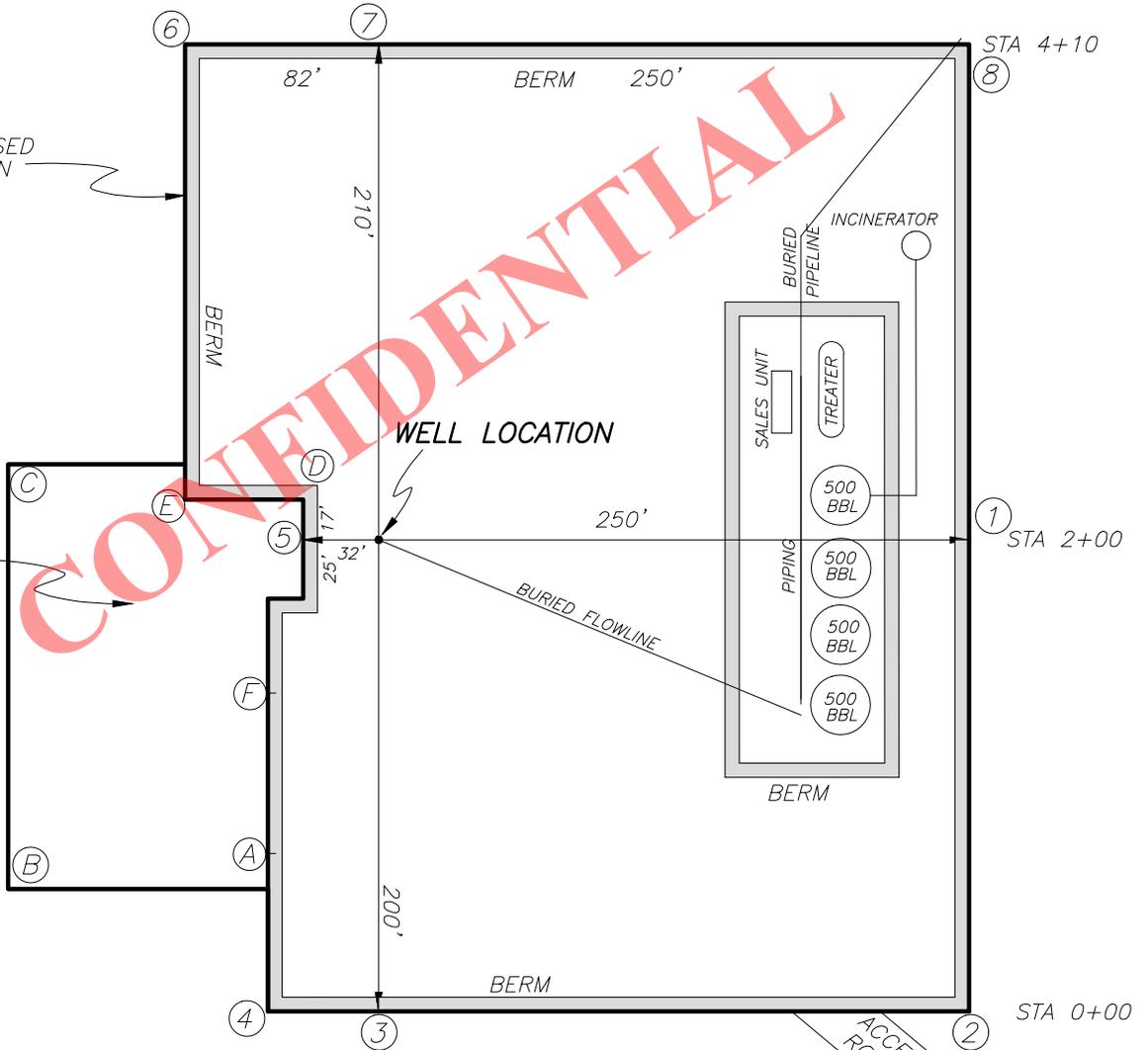
SECTION 23, T3S, R5W, U.S.B.&M.
1405' FSL, 1803' FWL



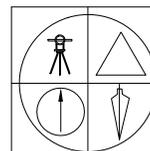
WELL PAD AREA
BERMED AND USED
FOR PRODUCTION

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

PIT AREA REGRADED
BACK TO SLOPE FOR
INTERIM RECLAMATION



REV 9 APR 2015
15 OCT 2013 01-128-453



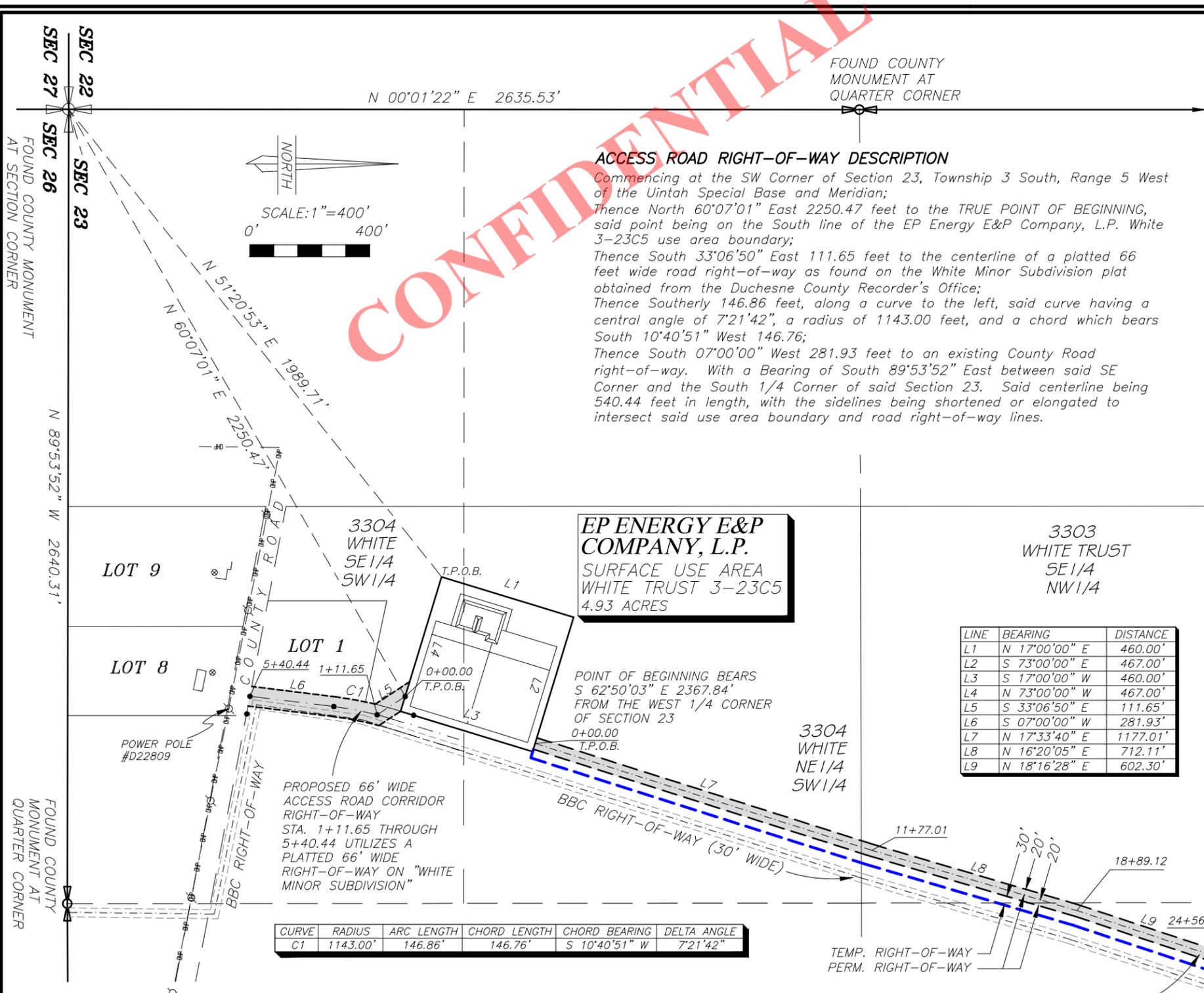
JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS

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

RECEIVED: April 14, 2015

LOCATION USE AREA & ACCESS ROAD
CORRIDOR RIGHT-OF-WAY SURVEY FOR
EP ENERGY E&P COMPANY, L.P.
WHITE TRUST 3-23C5
SECTION 23, T3S, R5W, U.S.B.&M.
DUCHESNE COUNTY, UTAH

CONFIDENTIAL



ACCESS ROAD RIGHT-OF-WAY DESCRIPTION
Commencing at the SW Corner of Section 23, Township 3 South, Range 5 West of the Uintah Special Base and Meridian;
Thence North 60°07'01" East 2250.47 feet to the TRUE POINT OF BEGINNING, said point being on the South line of the EP Energy E&P Company, L.P. White 3-23C5 use area boundary;
Thence South 33°06'50" East 111.65 feet to the centerline of a platted 66 feet wide road right-of-way as found on the White Minor Subdivision plat obtained from the Duchesne County Recorder's Office;
Thence Southerly 146.86 feet, along a curve to the left, said curve having a central angle of 7°21'42", a radius of 1143.00 feet, and a chord which bears South 10°40'51" West 146.76;
Thence South 07°00'00" West 281.93 feet to an existing County Road right-of-way. With a Bearing of South 89°53'52" East between said SE Corner and the South 1/4 Corner of said Section 23. Said centerline being 540.44 feet in length, with the sidelines being shortened or elongated to intersect said use area boundary and road right-of-way lines.

USE AREA BOUNDARY DESCRIPTION
Commencing at the Southwest Corner of Section 23, Township 3 South, Range 5 West of the Uintah Special Base and Meridian;
Thence North 51°20'53" East 1989.71 feet to the TRUE POINT OF BEGINNING;
Thence North 17°00'00" East 460.00 feet;
Thence South 73°00'00" East 467.00 feet;
Thence South 17°00'00" West 460.00 feet;
Thence North 73°00'00" West 467.00 feet to the TRUE POINT OF BEGINNING, containing 4.93 acres. With a Bearing of South 89°53'52" East between said SE Corner and the South 1/4 Corner of said Section 23.

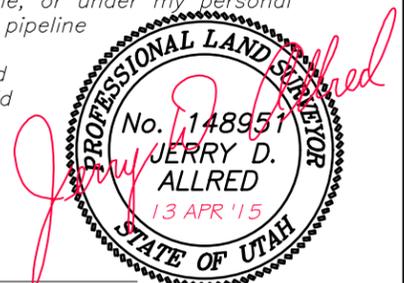
PIPELINE RIGHT-OF-WAY DESCRIPTION
A 40 feet wide permanent right-of-way over parts of Section 23, Township 3 South, Range 5 West of the Uintah Special Base and Meridian, the width being 20 feet on each side of the following described centerline: also a 30 feet wide temporary right-of-way running along the left side of said permanent right-of-way: said centerline of said right-of-way being further described as follows:
Commencing at the West 1/4 Corner of said Section 23;
Thence South 62°50'03" East 2367.84 feet to the TRUE POINT OF BEGINNING, said point being on the North line of the EP Energy E&P Company, L.P. use area boundary;
Thence North 17°33'40" East 1177.01 feet;
Thence North 16°20'05" East 712.11 feet;
Thence North 18°16'28" East 567.54 feet to the South line of an existing right-of-way. With a Bearing of North 00°01'22" East between said SE Corner and the West 1/4 Corner of said Section 23. Said right-of-way being 2456.64 feet in length, with the sidelines being shortened or elongated to intersect said use boundary and right-of-way lines.

LINE	BEARING	DISTANCE
L1	N 17°00'00" E	460.00'
L2	S 73°00'00" E	467.00'
L3	S 17°00'00" W	460.00'
L4	N 73°00'00" W	467.00'
L5	S 33°06'50" E	111.65'
L6	S 07°00'00" W	281.93'
L7	N 17°33'40" E	1177.01'
L8	N 16°20'05" E	712.11'
L9	N 18°16'28" E	602.30'

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C1	1143.00'	146.86'	146.76'	S 10°40'51" W	7°21'42"

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 and pipeline corridor rights-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)

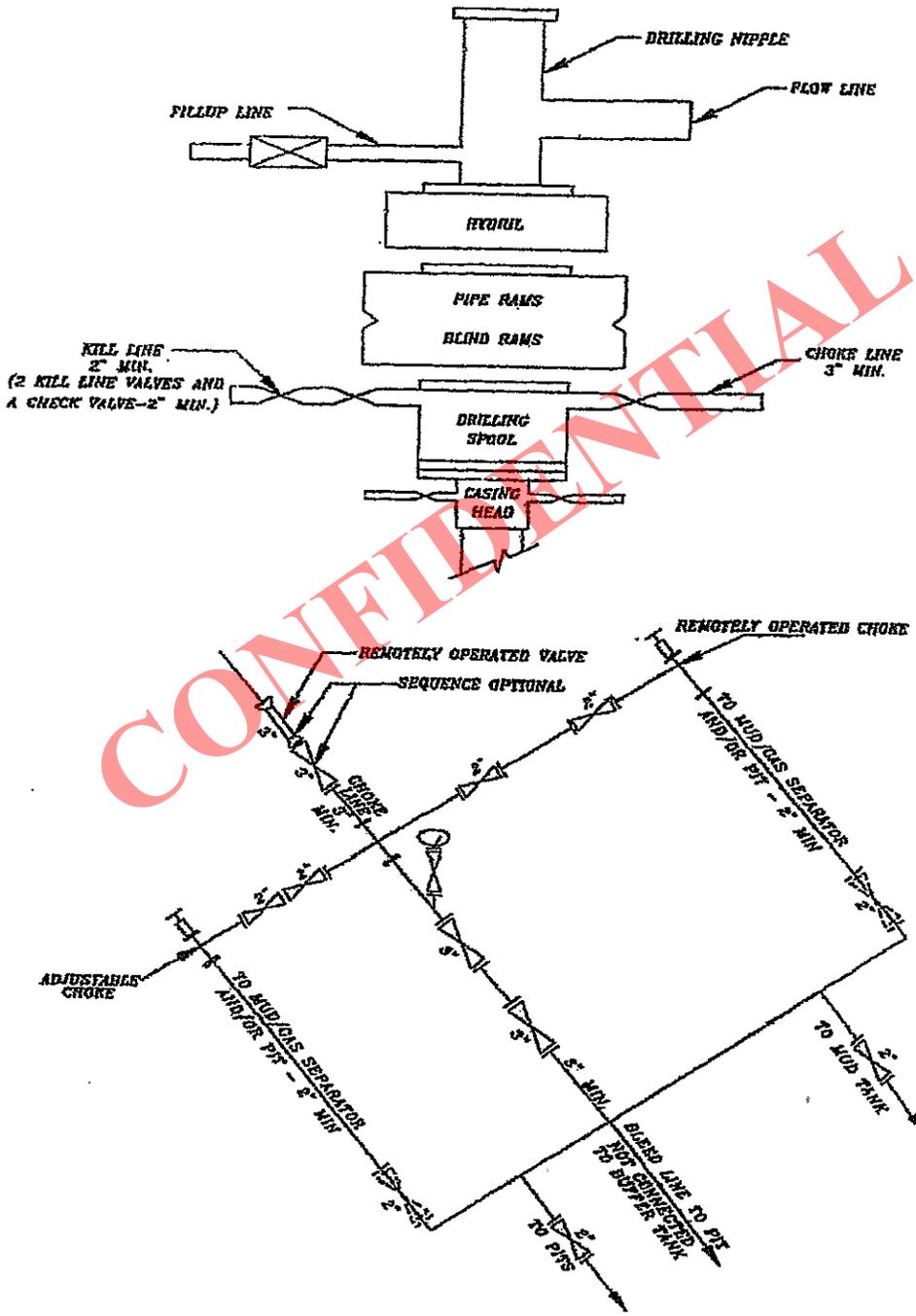
BASIS OF BEARINGS
THIS SURVEY WAS PERFORMED USING GLOBAL POSITIONING SYSTEM PROCEDURES AND EQUIPMENT

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

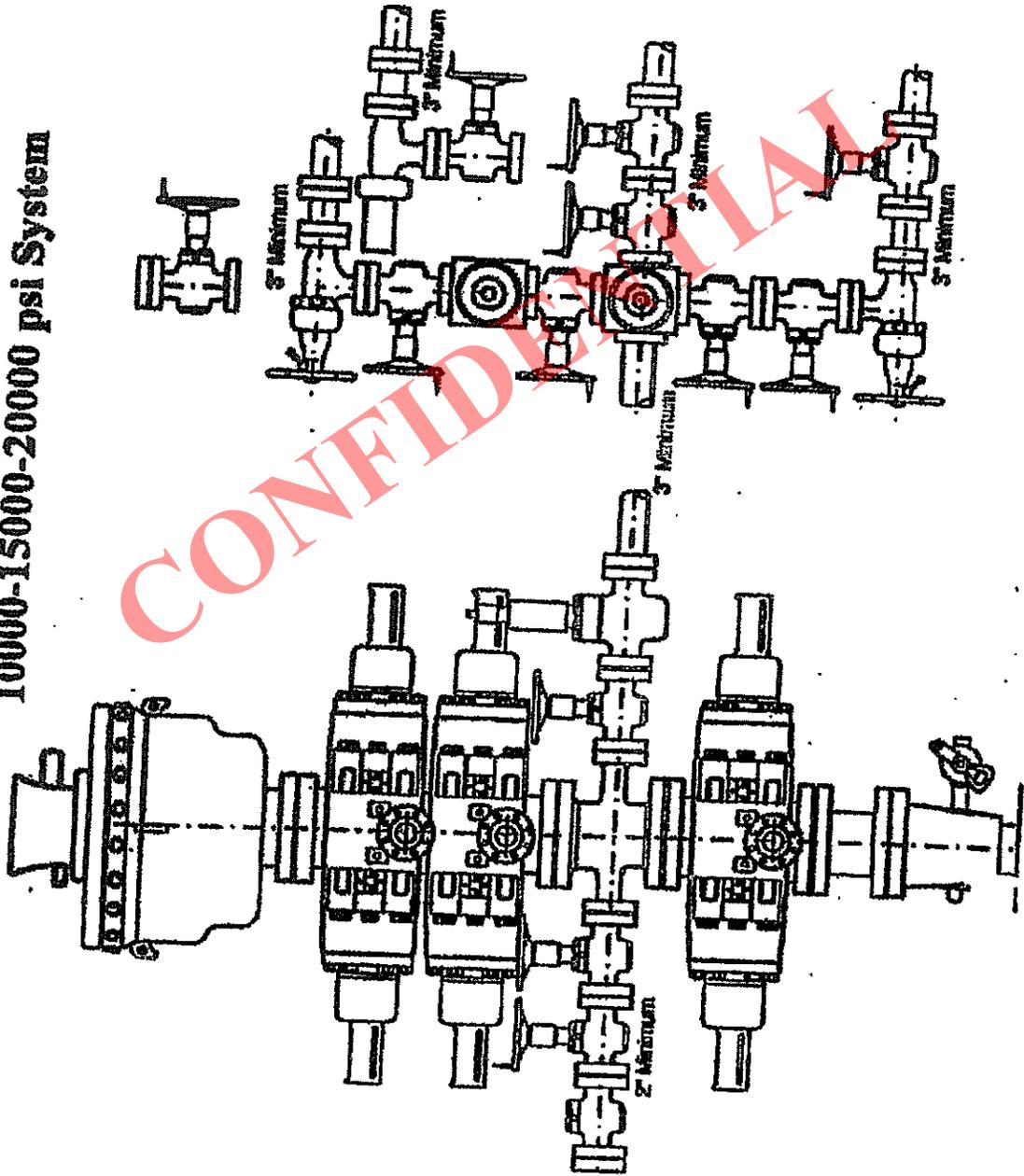
JERRY D. ALLRED AND ASSOCIATES
SURVEYING CONSULTANTS

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

5M BOP STACK and CHOKE MANIFOLD SYSTEM



10000-15000-20000 psi System

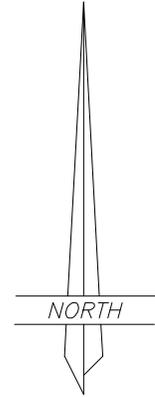
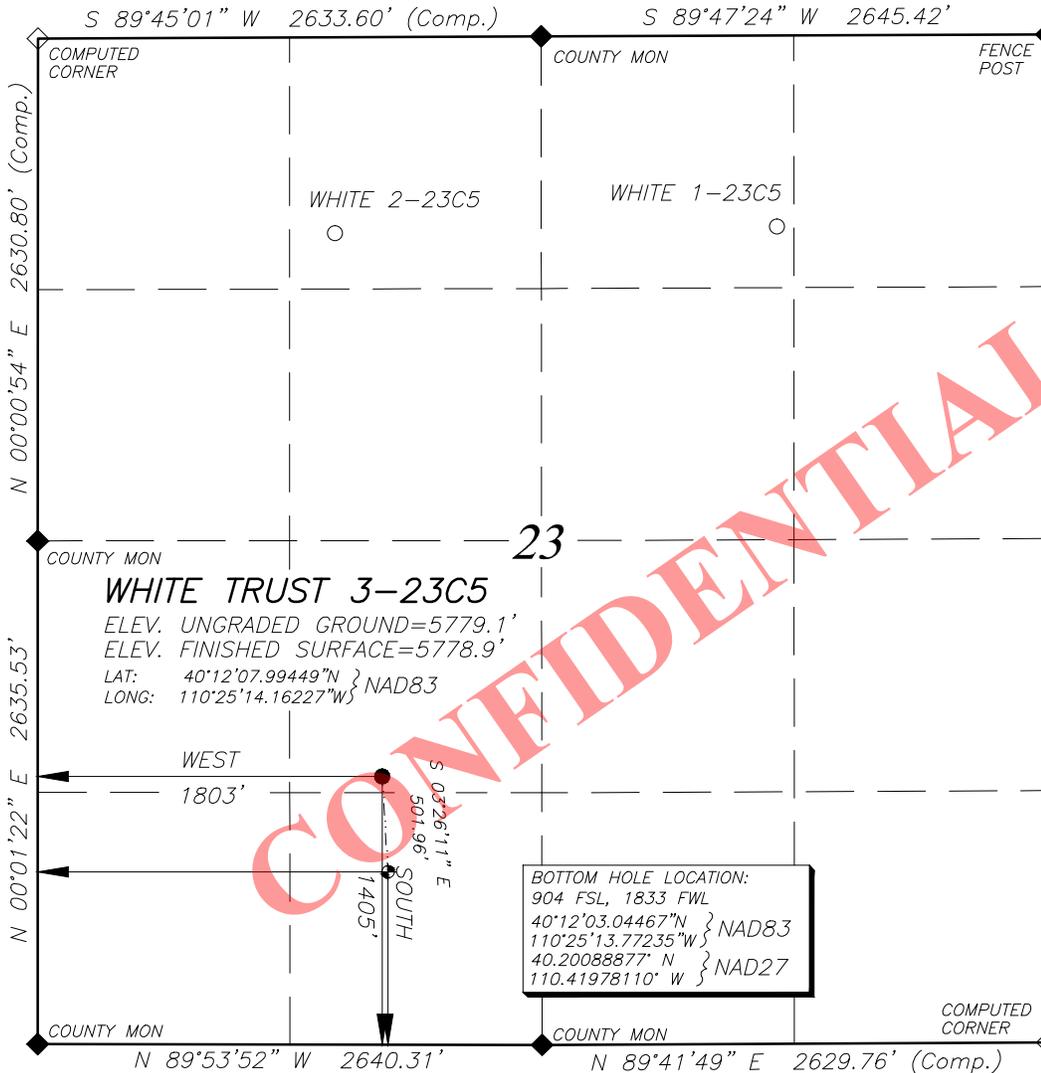


EP ENERGY E&P COMPANY, L.P.

WELL LOCATION

WHITE TRUST 3-23C5

LOCATED IN THE NE¼ OF THE SW¼ OF SECTION 23, T3S, R5W, U.S.B.&M. DUCHESNE COUNTY, UTAH



SCALE: 1" = 1000'



NOTE:
NAD27 VALUES FOR WELL POSITION:
LAT: 40.20226376° N
LONG: 110.41988939° W

CONFIDENTIAL

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

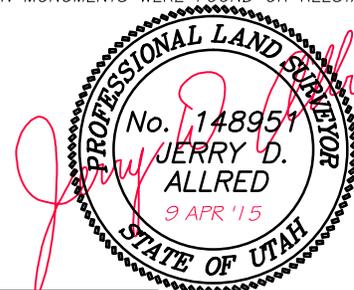
THE BASIS OF BEARINGS IS GEODETIC NORTH DERIVED FROM G.P.S. OBSERVATIONS AT THE SECTION CORNER LOCATED AT LAT. 40°15'22.90258"N AND LONG. 110°23'21.19760"W USING THE UTAH STATE G.P.S. VIRTUAL REFERENCE STATION CONTROL NETWORK MAINTAINED AND OPERATED BY THE AUTOMATED GEOGRAPHIC REFERENCE CENTER

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

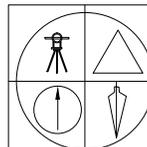
REV 9 APR 2015
13 OCT 2013 01-128-453

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.



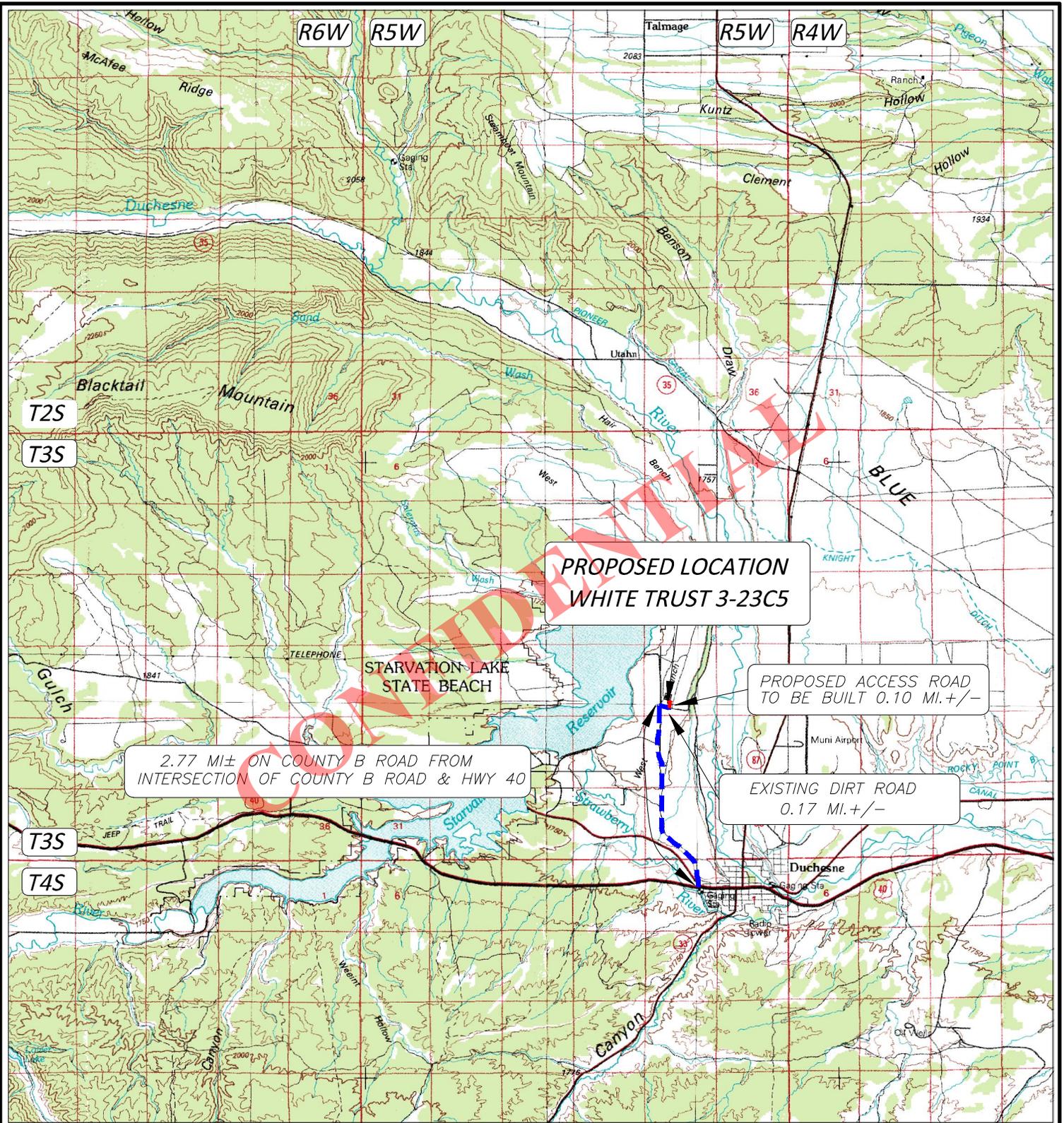
JERRY D. ALLRED, PROFESSIONAL LAND SURVEYOR, CERTIFICATE NO. 148951 (UTAH)



JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS

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

RECEIVED: April 14, 2015



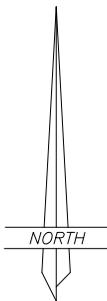
LEGEND:

◆ PROPOSED WELL LOCATION

01-128-453

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.

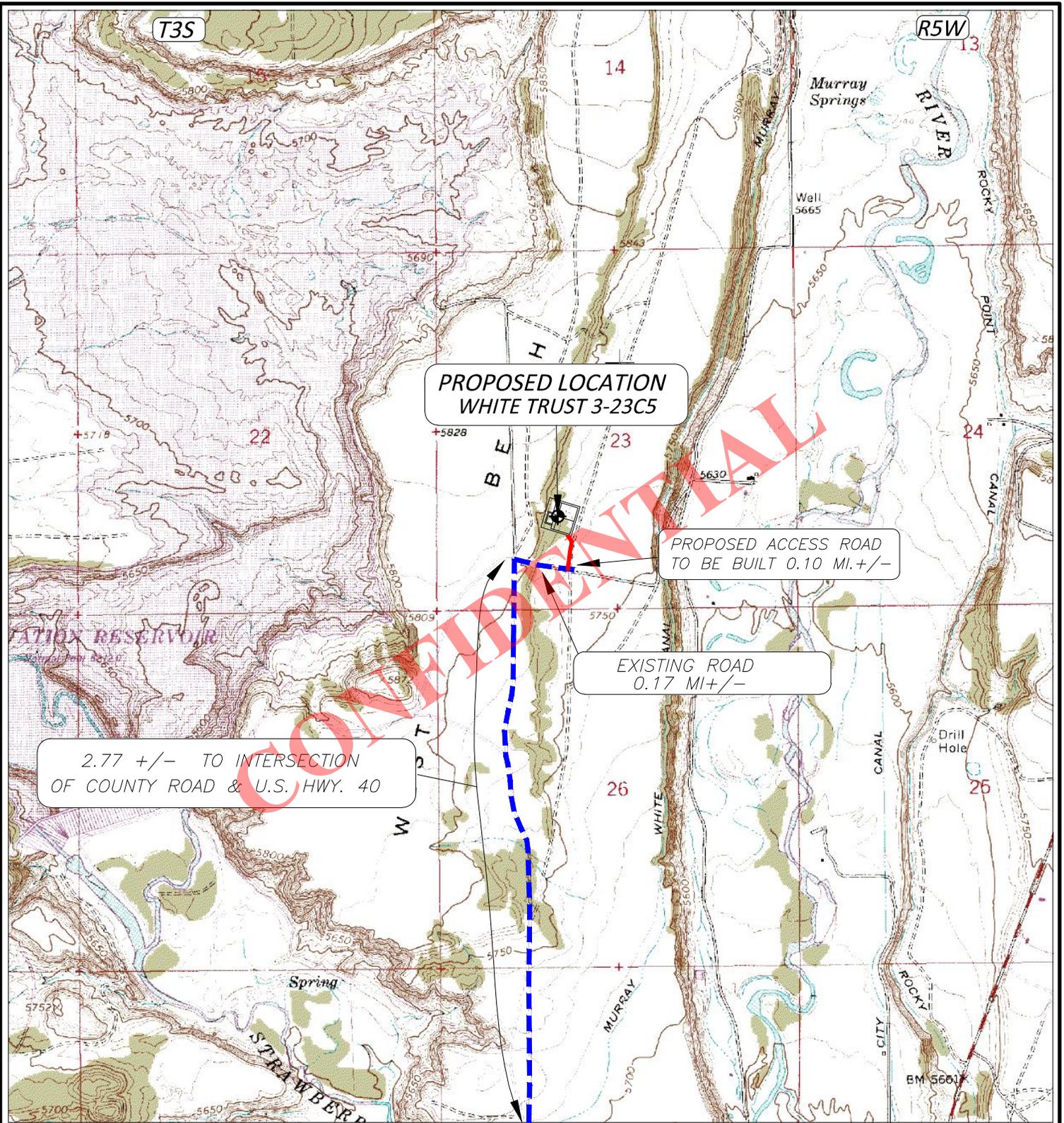
WHITE TRUST 3-23C5
SECTION 23, T3S, R5W, U.S.B.&M.

1405' FSL, 1803' FWL

TOPOGRAPHIC MAP "A"

SCALE: 1"=10,000'
REV 9 APR 2015

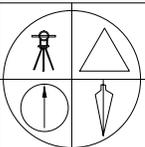
RECEIVED: April 14, 2015



LEGEND:

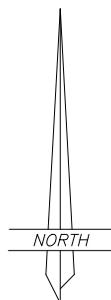
-  PROPOSED WELL LOCATION
-  PROPOSED ACCESS ROAD
-  EXISTING GRAVEL ROAD
-  EXISTING PAVED ROAD

01-128-453



JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS

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

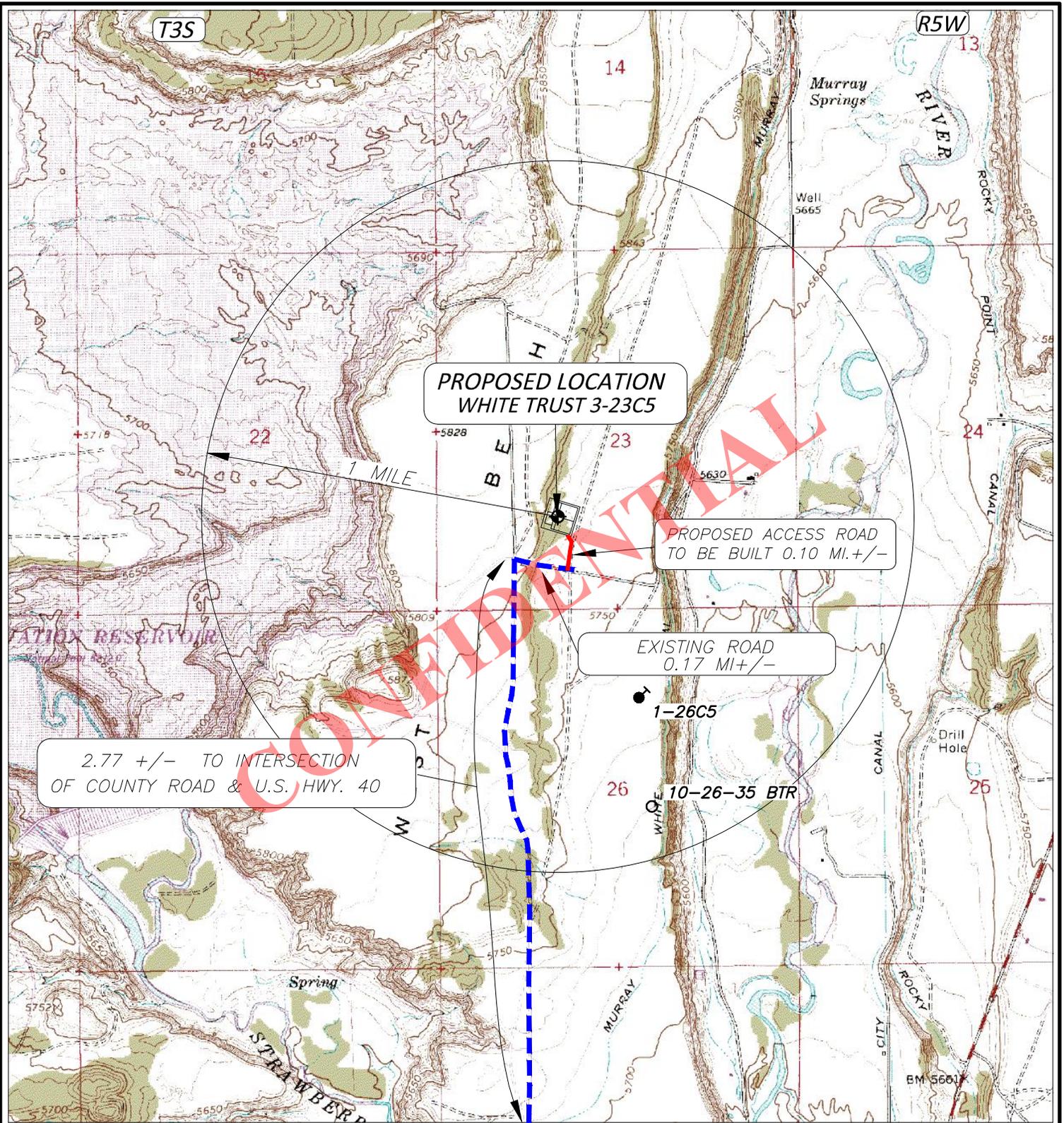


EP ENERGY E&P COMPANY, L.P.

WHITE TRUST 3-23C5
SECTION 23, T3S, R5W, U.S.B.&M.
1405' FSL, 1803' FWL

TOPOGRAPHIC MAP "B"

SCALE; 1"=2000'
REV 9 APR 2015



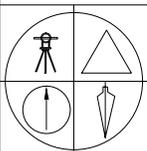
LEGEND:

 **PROPOSED WELL LOCATION**

2-25C6

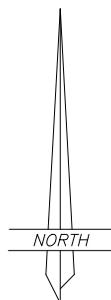


01-128-453



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.

WHITE TRUST 3-23C5
SECTION 23, T3S, R5W, U.S.B.&M.

1405' FSL, 1803' FWL

TOPOGRAPHIC MAP "C"

SCALE: 1"=2000'
REV 9 APR 2015



EP Energy E&P Company, L.P.

Duchesne Co, UT
White Trust 3-23C5
3-23C5

OH

Plan: Design #1

Standard Planning Report

13 April, 2015

CONFIDENTIAL





Azimuths to True North
Magnetic North: 11.13°

Magnetic Field
Strength: 51786.9snT
Dip Angle: 65.75°
Date: 4/13/2015
Model: BGM2014

Project: Duchesne Co, UT
Site: White Trust 3-23C5
Well: 3-23C5
Wellbore: OH
Design: Design #1

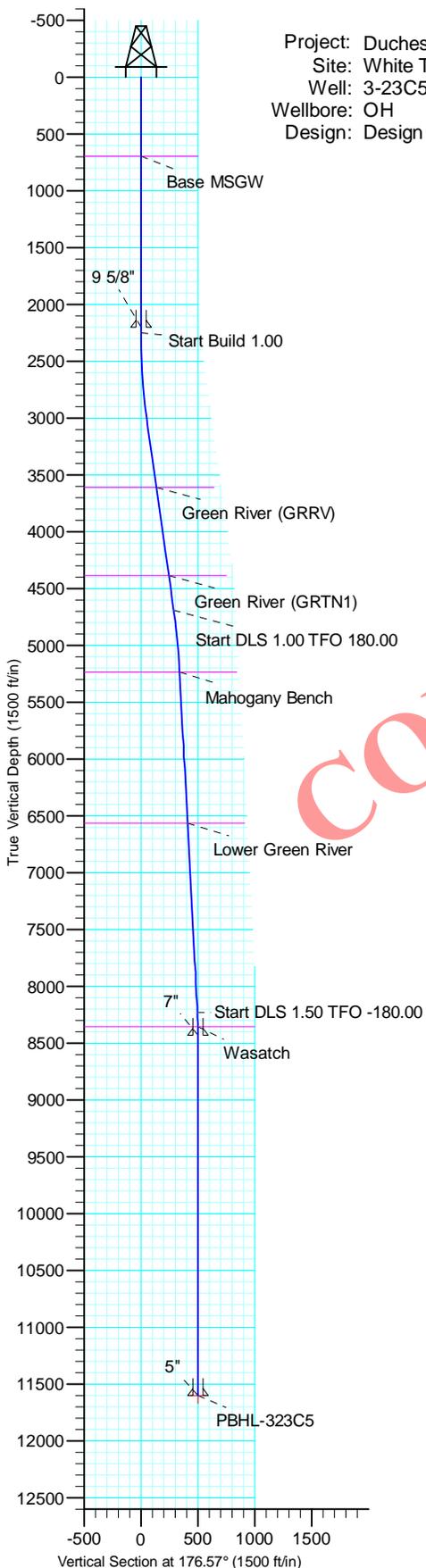
Site Center Latitude: 40° 12' 7.99 N
Site Center Longitude: 110° 25' 14.16 W

Duchesne Co, UT

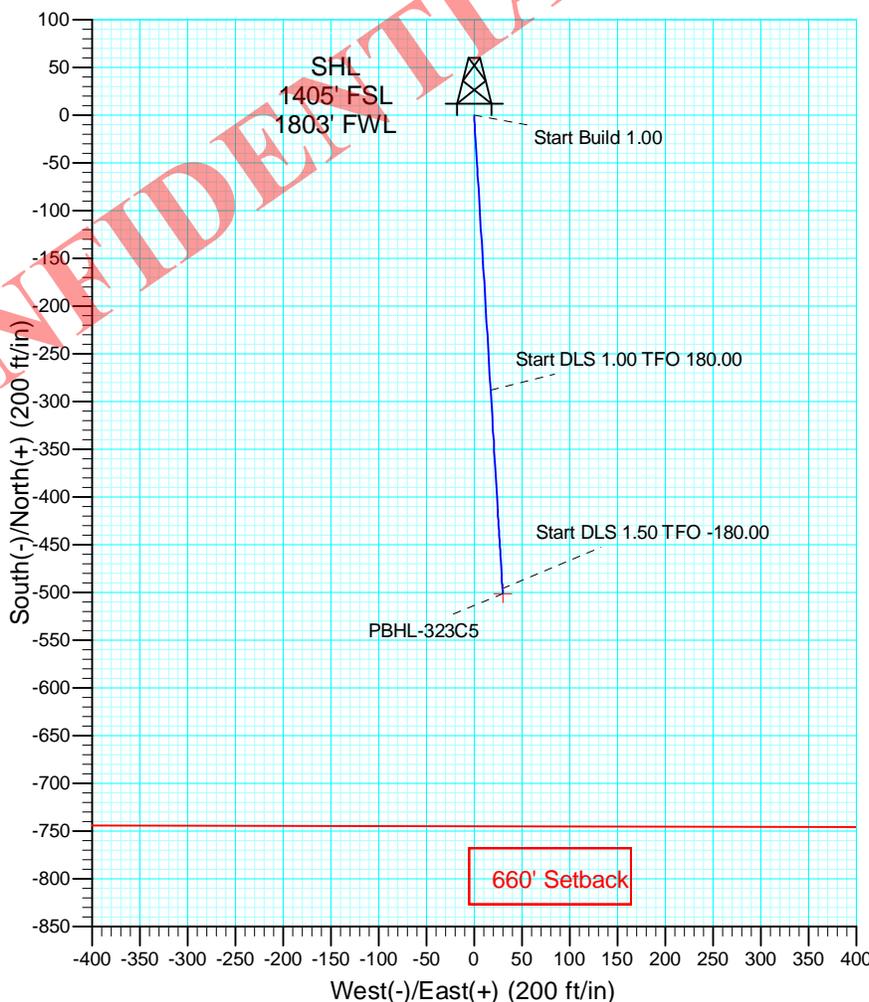
Positional Uncertainty: 0.00
Convergence: 0.69
Local North: True

Geodetic System: US State Plane 1983

Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: Utah Central Zone
System Datum: Mean Sea Level



SECTION DETAILS										
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2250.00	0.00	0.00	2250.00	0.00	0.00	0.00	0.00	0.00		
3057.00	8.07	176.57	3054.33	-56.64	3.39	1.00	176.57	56.74		
4709.03	8.07	176.57	4690.00	-288.14	17.25	0.00	0.00	288.65		
5216.03	3.00	176.57	5194.47	-336.94	20.18	1.00	180.00	337.54		
8255.72	3.00	176.57	8230.00	-495.74	29.68	0.00	0.00	496.63		
8455.72	0.00	0.00	8429.91	-500.96	30.00	1.50	180.00	501.86		
11625.81	0.00	0.00	11600.00	-500.96	30.00	0.00	0.00	501.86	PBHL-323C5	



ANNOTATIONS									
TVD	MD	Inc	Azi	+N/-S	+E/-W	VSec	Departure	Annotation	
2250.00	2250.00	0.00	0.00	0.00	0.00	0.00	0.00	Start Build 1.00	
4690.00	4709.03	8.07	176.57	-288.14	17.25	288.65	288.65	Start DLS 1.00 TFO 180.00	
8230.00	8255.72	3.00	176.57	-495.74	29.68	496.63	496.63	Start DLS 1.50 TFO -180.00	
11600.00	11625.81	0.00	0.00	-500.96	30.00	501.86	501.86	TD at 11625.81	





Database:	RyanUS R5000	Local Co-ordinate Reference:	Well 3-23C5
Company:	EP Energy E&P Company, L.P.	TVD Reference:	WELL @ 5796.00ft (Original Well Elev)
Project:	Duchesne Co, UT	MD Reference:	WELL @ 5796.00ft (Original Well Elev)
Site:	White Trust 3-23C5	North Reference:	True
Well:	3-23C5	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Design #1		

Project	Duchesne Co, UT		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Utah Central Zone		

Site	White Trust 3-23C5				
Site Position:		Northing:	7,244,203.68 usft	Latitude:	40° 12' 7.99 N
From:	Lat/Long	Easting:	1,941,898.85 usft	Longitude:	110° 25' 14.16 W
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence:	0.69 °

Well	3-23C5					
Well Position	+N-S	0.00 ft	Northing:	7,244,203.68 usft	Latitude:	40° 12' 7.99 N
	+E-W	0.00 ft	Easting:	1,941,898.85 usft	Longitude:	110° 25' 14.16 W
Position Uncertainty		2.00 ft	Wellhead Elevation:	0.00 ft	Ground Level:	5,779.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2014	4/13/2015	11.13	65.75	51,787

Design	Design #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N-S (ft)	+E-W (ft)	Direction (°)
	0.00	0.00	0.00	176.57

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,250.00	0.00	0.00	2,250.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,057.00	8.07	176.57	3,054.33	-56.64	3.39	1.00	1.00	0.00	176.57	PBHL-323C5
4,709.03	8.07	176.57	4,690.00	-288.14	17.25	0.00	0.00	0.00	0.00	
5,216.03	3.00	176.57	5,194.47	-336.94	20.18	1.00	-1.00	0.00	180.00	PBHL-323C5
8,255.72	3.00	176.57	8,230.00	-495.74	29.68	0.00	0.00	0.00	0.00	
8,455.72	0.00	0.00	8,429.91	-500.96	30.00	1.50	-1.50	-88.29	-180.00	
11,625.81	0.00	0.00	11,600.00	-500.96	30.00	0.00	0.00	0.00	0.00	PBHL-323C5



Database:	RyanUS R5000	Local Co-ordinate Reference:	Well 3-23C5
Company:	EP Energy E&P Company, L.P.	TVD Reference:	WELL @ 5796.00ft (Original Well Elev)
Project:	Duchesne Co, UT	MD Reference:	WELL @ 5796.00ft (Original Well Elev)
Site:	White Trust 3-23C5	North Reference:	True
Well:	3-23C5	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Design #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
696.00	0.00	0.00	696.00	0.00	0.00	0.00	0.00	0.00	0.00
Base MSGW									
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8"									
2,250.00	0.00	0.00	2,250.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 1.00									
2,300.00	0.50	176.57	2,300.00	-0.22	0.01	0.22	1.00	1.00	0.00
2,400.00	1.50	176.57	2,399.98	-1.96	0.12	1.96	1.00	1.00	0.00
2,500.00	2.50	176.57	2,499.92	-5.44	0.33	5.45	1.00	1.00	0.00
2,600.00	3.50	176.57	2,599.78	-10.67	0.64	10.69	1.00	1.00	0.00
2,700.00	4.50	176.57	2,699.54	-17.63	1.06	17.66	1.00	1.00	0.00
2,800.00	5.50	176.57	2,799.16	-26.33	1.58	26.38	1.00	1.00	0.00
2,900.00	6.50	176.57	2,898.61	-36.76	2.20	36.83	1.00	1.00	0.00
3,000.00	7.50	176.57	2,997.86	-48.93	2.93	49.02	1.00	1.00	0.00
3,057.00	8.07	176.57	3,054.33	-56.64	3.39	56.74	1.00	1.00	0.00
3,100.00	8.07	176.57	3,096.91	-62.66	3.75	62.77	0.00	0.00	0.00
3,200.00	8.07	176.57	3,195.92	-76.68	4.59	76.81	0.00	0.00	0.00
3,300.00	8.07	176.57	3,294.93	-90.69	5.43	90.85	0.00	0.00	0.00
3,400.00	8.07	176.57	3,393.94	-104.70	6.27	104.89	0.00	0.00	0.00
3,500.00	8.07	176.57	3,492.95	-118.72	7.11	118.93	0.00	0.00	0.00
3,600.00	8.07	176.57	3,591.96	-132.73	7.95	132.97	0.00	0.00	0.00
3,616.20	8.07	176.57	3,608.00	-135.00	8.08	135.24	0.00	0.00	0.00
Green River (GRRV)									
3,700.00	8.07	176.57	3,690.97	-146.74	8.79	147.00	0.00	0.00	0.00
3,800.00	8.07	176.57	3,789.98	-160.75	9.63	161.04	0.00	0.00	0.00
3,900.00	8.07	176.57	3,888.99	-174.77	10.47	175.08	0.00	0.00	0.00
4,000.00	8.07	176.57	3,988.00	-188.78	11.30	189.12	0.00	0.00	0.00
4,100.00	8.07	176.57	4,087.01	-202.79	12.14	203.16	0.00	0.00	0.00
4,200.00	8.07	176.57	4,186.02	-216.81	12.98	217.20	0.00	0.00	0.00
4,300.00	8.07	176.57	4,285.03	-230.82	13.82	231.23	0.00	0.00	0.00
4,400.00	8.07	176.57	4,384.04	-244.83	14.66	245.27	0.00	0.00	0.00
4,401.98	8.07	176.57	4,386.00	-245.11	14.68	245.55	0.00	0.00	0.00



Database:	RyanUS R5000	Local Co-ordinate Reference:	Well 3-23C5
Company:	EP Energy E&P Company, L.P.	TVD Reference:	WELL @ 5796.00ft (Original Well Elev)
Project:	Duchesne Co, UT	MD Reference:	WELL @ 5796.00ft (Original Well Elev)
Site:	White Trust 3-23C5	North Reference:	True
Well:	3-23C5	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Design #1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
Green River (GRTN1)										
4,500.00	8.07	176.57	4,483.04	-258.85	15.50	259.31	0.00	0.00	0.00	
4,600.00	8.07	176.57	4,582.05	-272.86	16.34	273.35	0.00	0.00	0.00	
4,709.03	8.07	176.57	4,690.00	-288.14	17.25	288.65	0.00	0.00	0.00	
Start DLS 1.00 TFO 180.00										
4,800.00	7.16	176.57	4,780.17	-300.17	17.97	300.71	1.00	-1.00	0.00	
4,900.00	6.16	176.57	4,879.50	-311.75	18.67	312.31	1.00	-1.00	0.00	
5,000.00	5.16	176.57	4,979.01	-321.59	19.26	322.17	1.00	-1.00	0.00	
5,100.00	4.16	176.57	5,078.67	-329.70	19.74	330.30	1.00	-1.00	0.00	
5,200.00	3.16	176.57	5,178.47	-336.08	20.12	336.68	1.00	-1.00	0.00	
5,216.03	3.00	176.57	5,194.47	-336.94	20.18	337.54	1.00	-1.00	0.00	
5,254.61	3.00	176.57	5,233.00	-338.95	20.30	339.56	0.00	0.00	0.00	
Mahogany Bench										
5,300.00	3.00	176.57	5,278.33	-341.32	20.44	341.94	0.00	0.00	0.00	
5,400.00	3.00	176.57	5,378.19	-346.55	20.75	347.17	0.00	0.00	0.00	
5,500.00	3.00	176.57	5,478.06	-351.77	21.06	352.40	0.00	0.00	0.00	
5,600.00	3.00	176.57	5,577.92	-357.00	21.38	357.64	0.00	0.00	0.00	
5,700.00	3.00	176.57	5,677.78	-362.22	21.69	362.87	0.00	0.00	0.00	
5,800.00	3.00	176.57	5,777.65	-367.45	22.00	368.10	0.00	0.00	0.00	
5,900.00	3.00	176.57	5,877.51	-372.67	22.32	373.34	0.00	0.00	0.00	
6,000.00	3.00	176.57	5,977.37	-377.89	22.63	378.57	0.00	0.00	0.00	
6,100.00	3.00	176.57	6,077.24	-383.12	22.94	383.80	0.00	0.00	0.00	
6,200.00	3.00	176.57	6,177.10	-388.34	23.25	389.04	0.00	0.00	0.00	
6,300.00	3.00	176.57	6,276.96	-393.57	23.57	394.27	0.00	0.00	0.00	
6,400.00	3.00	176.57	6,376.82	-398.79	23.88	399.50	0.00	0.00	0.00	
6,500.00	3.00	176.57	6,476.69	-404.01	24.19	404.74	0.00	0.00	0.00	
6,589.44	3.00	176.57	6,566.00	-408.69	24.47	409.42	0.00	0.00	0.00	
Lower Green River										
6,600.00	3.00	176.57	6,576.55	-409.24	24.51	409.97	0.00	0.00	0.00	
6,700.00	3.00	176.57	6,676.41	-414.46	24.82	415.21	0.00	0.00	0.00	
6,800.00	3.00	176.57	6,776.28	-419.69	25.13	420.44	0.00	0.00	0.00	
6,900.00	3.00	176.57	6,876.14	-424.91	25.44	425.67	0.00	0.00	0.00	
7,000.00	3.00	176.57	6,976.00	-430.14	25.76	430.91	0.00	0.00	0.00	
7,100.00	3.00	176.57	7,075.86	-435.36	26.07	436.14	0.00	0.00	0.00	
7,200.00	3.00	176.57	7,175.73	-440.58	26.38	441.37	0.00	0.00	0.00	
7,300.00	3.00	176.57	7,275.59	-445.81	26.70	446.61	0.00	0.00	0.00	
7,400.00	3.00	176.57	7,375.45	-451.03	27.01	451.84	0.00	0.00	0.00	
7,500.00	3.00	176.57	7,475.32	-456.26	27.32	457.07	0.00	0.00	0.00	
7,600.00	3.00	176.57	7,575.18	-461.48	27.63	462.31	0.00	0.00	0.00	
7,700.00	3.00	176.57	7,675.04	-466.71	27.95	467.54	0.00	0.00	0.00	
7,800.00	3.00	176.57	7,774.91	-471.93	28.26	472.78	0.00	0.00	0.00	
7,900.00	3.00	176.57	7,874.77	-477.15	28.57	478.01	0.00	0.00	0.00	
8,000.00	3.00	176.57	7,974.63	-482.38	28.88	483.24	0.00	0.00	0.00	
8,100.00	3.00	176.57	8,074.49	-487.60	29.20	488.48	0.00	0.00	0.00	
8,200.00	3.00	176.57	8,174.36	-492.83	29.51	493.71	0.00	0.00	0.00	
8,255.72	3.00	176.57	8,230.00	-495.74	29.68	496.63	0.00	0.00	0.00	
Start DLS 1.50 TFO -180.00										
8,300.00	2.34	176.57	8,274.23	-497.80	29.81	498.69	1.50	-1.50	0.00	
8,381.81	1.11	176.57	8,356.00	-500.25	29.96	501.15	1.50	-1.50	0.00	
Wasatch										
8,400.00	0.84	176.57	8,374.19	-500.56	29.97	501.45	1.50	-1.50	0.00	
8,455.72	0.00	0.00	8,429.91	-500.96	30.00	501.86	1.50	-1.50	-316.90	
8,455.81	0.00	0.00	8,430.00	-500.96	30.00	501.86	0.00	0.00	0.00	



Database:	RyanUS R5000	Local Co-ordinate Reference:	Well 3-23C5
Company:	EP Energy E&P Company, L.P.	TVD Reference:	WELL @ 5796.00ft (Original Well Elev)
Project:	Duchesne Co, UT	MD Reference:	WELL @ 5796.00ft (Original Well Elev)
Site:	White Trust 3-23C5	North Reference:	True
Well:	3-23C5	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Design #1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
7"										
8,500.00	0.00	0.00	8,474.19	-500.96	30.00	501.86	0.00	0.00	0.00	0.00
8,600.00	0.00	0.00	8,574.19	-500.96	30.00	501.86	0.00	0.00	0.00	0.00
8,700.00	0.00	0.00	8,674.19	-500.96	30.00	501.86	0.00	0.00	0.00	0.00
8,800.00	0.00	0.00	8,774.19	-500.96	30.00	501.86	0.00	0.00	0.00	0.00
8,900.00	0.00	0.00	8,874.19	-500.96	30.00	501.86	0.00	0.00	0.00	0.00
9,000.00	0.00	0.00	8,974.19	-500.96	30.00	501.86	0.00	0.00	0.00	0.00
9,100.00	0.00	0.00	9,074.19	-500.96	30.00	501.86	0.00	0.00	0.00	0.00
9,200.00	0.00	0.00	9,174.19	-500.96	30.00	501.86	0.00	0.00	0.00	0.00
9,300.00	0.00	0.00	9,274.19	-500.96	30.00	501.86	0.00	0.00	0.00	0.00
9,400.00	0.00	0.00	9,374.19	-500.96	30.00	501.86	0.00	0.00	0.00	0.00
9,500.00	0.00	0.00	9,474.19	-500.96	30.00	501.86	0.00	0.00	0.00	0.00
9,600.00	0.00	0.00	9,574.19	-500.96	30.00	501.86	0.00	0.00	0.00	0.00
9,700.00	0.00	0.00	9,674.19	-500.96	30.00	501.86	0.00	0.00	0.00	0.00
9,800.00	0.00	0.00	9,774.19	-500.96	30.00	501.86	0.00	0.00	0.00	0.00
9,900.00	0.00	0.00	9,874.19	-500.96	30.00	501.86	0.00	0.00	0.00	0.00
10,000.00	0.00	0.00	9,974.19	-500.96	30.00	501.86	0.00	0.00	0.00	0.00
10,100.00	0.00	0.00	10,074.19	-500.96	30.00	501.86	0.00	0.00	0.00	0.00
10,200.00	0.00	0.00	10,174.19	-500.96	30.00	501.86	0.00	0.00	0.00	0.00
10,300.00	0.00	0.00	10,274.19	-500.96	30.00	501.86	0.00	0.00	0.00	0.00
10,400.00	0.00	0.00	10,374.19	-500.96	30.00	501.86	0.00	0.00	0.00	0.00
10,500.00	0.00	0.00	10,474.19	-500.96	30.00	501.86	0.00	0.00	0.00	0.00
10,600.00	0.00	0.00	10,574.19	-500.96	30.00	501.86	0.00	0.00	0.00	0.00
10,700.00	0.00	0.00	10,674.19	-500.96	30.00	501.86	0.00	0.00	0.00	0.00
10,800.00	0.00	0.00	10,774.19	-500.96	30.00	501.86	0.00	0.00	0.00	0.00
10,900.00	0.00	0.00	10,874.19	-500.96	30.00	501.86	0.00	0.00	0.00	0.00
11,000.00	0.00	0.00	10,974.19	-500.96	30.00	501.86	0.00	0.00	0.00	0.00
11,100.00	0.00	0.00	11,074.19	-500.96	30.00	501.86	0.00	0.00	0.00	0.00
11,200.00	0.00	0.00	11,174.19	-500.96	30.00	501.86	0.00	0.00	0.00	0.00
11,300.00	0.00	0.00	11,274.19	-500.96	30.00	501.86	0.00	0.00	0.00	0.00
11,400.00	0.00	0.00	11,374.19	-500.96	30.00	501.86	0.00	0.00	0.00	0.00
11,500.00	0.00	0.00	11,474.19	-500.96	30.00	501.86	0.00	0.00	0.00	0.00
11,600.00	0.00	0.00	11,574.19	-500.96	30.00	501.86	0.00	0.00	0.00	0.00
11,625.81	0.00	0.00	11,600.00	-500.96	30.00	501.86	0.00	0.00	0.00	0.00
TD at 11625.81 - PBHL-323C5										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
PBHL-323C5	0.00	0.00	11,600.00	-501.00	30.00	7,243,703.08	1,941,934.90	40° 12' 3.04 N	110° 25' 13.78 W	
- hit/miss target										
- Shape										
- plan misses target center by 0.04ft at 11625.81ft MD (11600.00 TVD, -500.96 N, 30.00 E)										
- Point										



Database:	RyanUS R5000	Local Co-ordinate Reference:	Well 3-23C5
Company:	EP Energy E&P Company, L.P.	TVD Reference:	WELL @ 5796.00ft (Original Well Elev)
Project:	Duchesne Co, UT	MD Reference:	WELL @ 5796.00ft (Original Well Elev)
Site:	White Trust 3-23C5	North Reference:	True
Well:	3-23C5	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Design #1		

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
2,200.00	2,200.00	9 5/8"	9-5/8	12-1/4	
8,455.81	8,430.00	7"	7	8-3/4	
11,625.81	11,600.00	5"	5	6	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
696.00	696.00	Base MSGW		0.00		
3,616.20	3,608.00	Green River (GRRV)		0.00		
4,401.98	4,386.00	Green River (GRTN1)		0.00		
5,254.61	5,233.00	Mahogany Bench		0.00		
6,589.44	6,566.00	Lower Green River		0.00		
8,381.81	8,356.00	Wasatch		0.00		

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N-S (ft)	+E-W (ft)		
2,250.00	2,250.00	0.00	0.00	Start Build 1.00	
4,709.03	4,690.00	-288.14	17.25	Start DLS 1.00 TFO 180.00	
8,255.72	8,230.00	-495.74	29.68	Start DLS 1.50 TFO -180.00	
11,625.81	11,600.00	-500.96	30.00	TD at 11625.81	

AFFIDAVIT OF DAMAGE SETTLEMENT AND RELEASE

Jacquelyn L. Lynch personally appeared before me, and, being duly sworn, deposes and says:

1. My name is Jacquelyn L. Lynch. I am a Landman for EP Energy E&P Company, L.P., whose address is 1001 Louisiana St., Houston, Texas 77002 ("EP Energy").
2. EP Energy is the operator of the proposed White Trust 3-23C5 well (the "Well") to be located in the of Section 23, Township 3 South, Range 5 West, USM, Duchesne County, Utah (the "Drillsite Location"). The surface owner of the Drillsite Location is Alan B. White Trust, dated March 6, 2002, whose address is 1020 Sage Creek Court, Heber City, Utah 84032 (the "Surface Owner"). The Surface Owner's telephone number is (208) 484-7671.
3. EP Energy and the Surface Owner have entered into a Damage Settlement and Release Agreement dated April 13, 2015, to cover any and all injuries or damages of every character and description sustained by the Surface Owner or Surface Owner's property as a result of operations associated with the drilling of the Well.

FURTHER AFFIANT SAYETH NOT

Jacquelyn Lynch

 Jacquelyn L. Lynch

CONFIDENTIAL

ACKNOWLEDGMENT

STATE OF TEXAS §
 §
 COUNTY OF HARRIS §

Sworn to and subscribed before me on April 15, 2015, by Jacquelyn L. Lynch, as Landman for EP Energy E&P Company, L.P., a Delaware limited partnership.

Ginger M. Cearley

 NOTARY PUBLIC

My Commission Expires:
8/2/2018



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 .10 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 .10 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:

Alan B. White Trust, dated March 6, 2002
Attn: Alan B. White, Trustee
1020 Sage Creek Court
Heber City, UT 84032
208-484-7671

Other Information:

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

• **Operator and Contact Persons:**

Construction and Reclamation:

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

Regarding This APD

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

Drilling

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



April 13, 2015

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

RE: Directional Well
White Trust 3-23C5
Surface Hole Location: 1405' FSL, 1803' FWL (NESW) Section 23-3S-5W
Bottom Hole Location: 904' FSL, 1833' FWL (SESW) Section 23-3S-5W
U.S.B.&M. Duchesne County, Utah

Dear Mr. Hill,

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

We plan to drill the above referenced well as a directional well due to the proximity of homes.

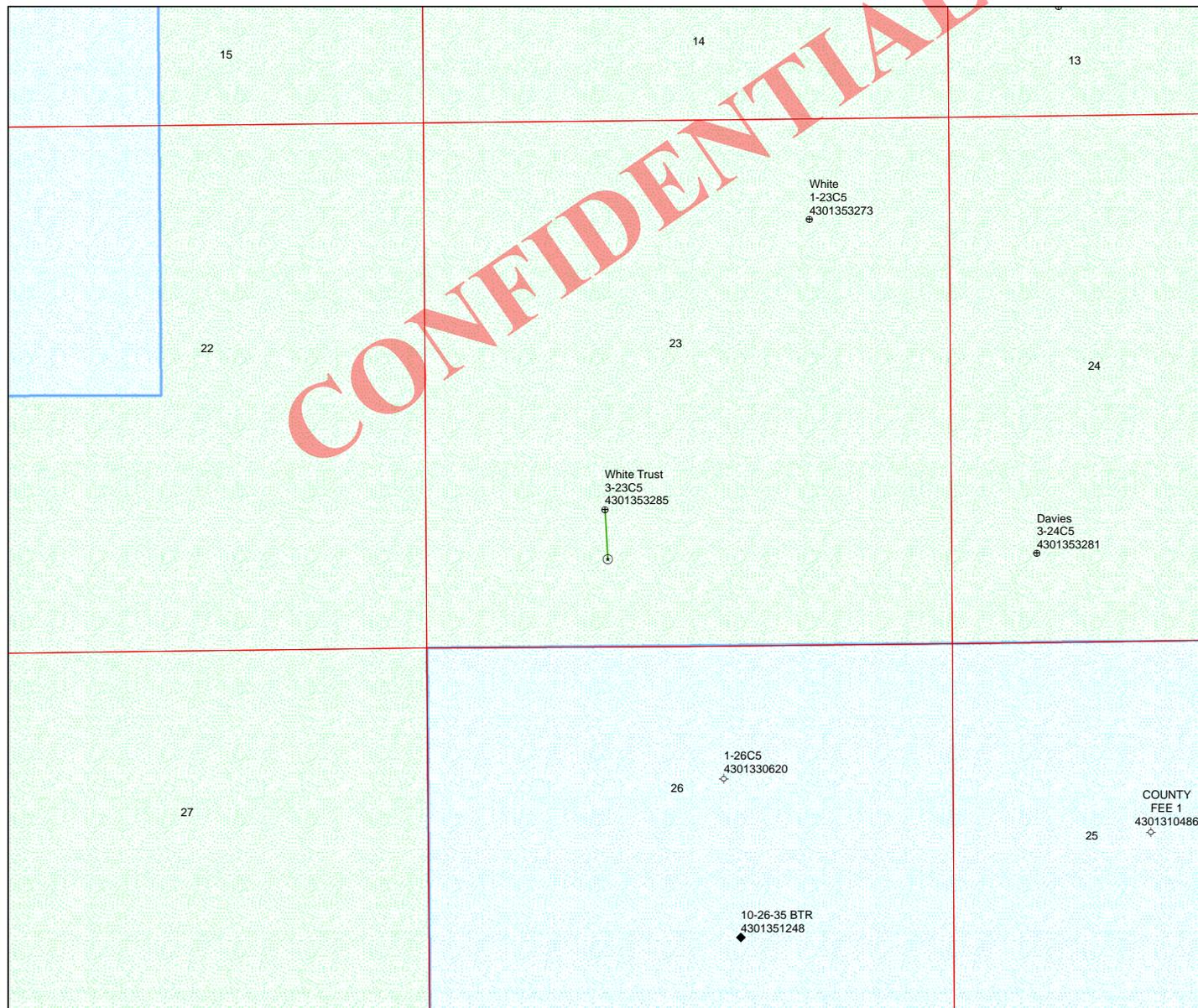
EPE hereby certifies that EPE owns rights to existing oil and gas leases under all tracts that are on or within 460' of the proposed wellbore path to drill and produce. All such tracts are entirely within the 640 acre drilling unit for the well.

Best regards,

A handwritten signature in purple ink, appearing to read "Jacquelyn Lynch".

Jacquelyn L. Lynch
Sr. Landman
713-997-5747
Jacquelyn.Lynch@EpEnergy.com

CONFIDENTIAL



API Number: 4301353285

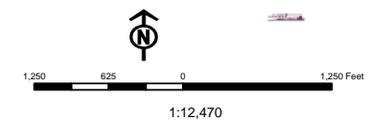
Well Name: White Trust 3-23C5

Township: T03.0S Range: R05.0W Section: 23 Meridian: U

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

Map Prepared: 4/16/2015
Map Produced by Diana Mason

Wells Query		Units	
Status		STATUS	
◆ APD - Approved Permit	◆	□ ACTIVE	□
○ DRL - Spudded (Drilling Commenced)	○	□ EXPLORATORY	□
↗ GW - Gas Injection	↗	□ GAS STORAGE	□
★ GS - Gas Storage	★	□ NF PP OIL	□
⊕ LOC - New Location	⊕	□ NF SECONDARY	□
⊖ OPS - Operation Suspended	⊖	□ PI OIL	□
⊘ PA - Plugged Abandoned	⊘	□ PP GAS	□
⊙ PGW - Producing Gas Well	⊙	□ PP 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	○	Fields	
○ WDW - Water Disposal	○	STATUS	
⊕ WW - Water Injection Well	⊕	□ Unknown	□
● WSW - Water Supply Well	●	□ ABANDONED	□
		□ ACTIVE	□
		□ COMBINED	□
		□ INACTIVE	□
		□ STORAGE	□
		□ TERMINATED	□



Well Name	EP ENERGY E&P COMPANY, L.P. White Trust 3-23C5 4301353285000			
String	COND	SURF	I1	L1
Casing Size(")	13.375	9.625	7.000	5.000
Setting Depth (TVD)	700	2200	8430	11600
Previous Shoe Setting Depth (TVD)	0	700	2200	8430
Max Mud Weight (ppg)	8.3	8.3	10.3	12.0
BOPE Proposed (psi)	500	1000	10000	10000
Casing Internal Yield (psi)	2730	5750	11220	13940
Operators Max Anticipated Pressure (psi)	7238			12.0

Calculations	COND String	13.375	"
Max BHP (psi)	.052*Setting Depth*MW=	302	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	218	YES <input type="checkbox"/> diverter
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	148	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)=	148	NO <input type="checkbox"/> OK <input type="checkbox"/>
Required Casing/BOPE Test Pressure=		700	psi
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi *Assumes 1psi/ft frac gradient

Calculations	SURF String	9.625	"
Max BHP (psi)	.052*Setting Depth*MW=	950	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	686	YES <input type="checkbox"/> diverter with rotating head
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	466	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)=	620	YES <input type="checkbox"/> OK <input type="checkbox"/>
Required Casing/BOPE Test Pressure=		2200	psi
*Max Pressure Allowed @ Previous Casing Shoe=		700	psi *Assumes 1psi/ft frac gradient

Calculations	I1 String	7.000	"
Max BHP (psi)	.052*Setting Depth*MW=	4515	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	3503	YES <input type="checkbox"/> 10M stack, 5M annular
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	2660	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)=	3144	NO <input type="checkbox"/>
Required Casing/BOPE Test Pressure=		7854	psi
*Max Pressure Allowed @ Previous Casing Shoe=		2200	psi *Assumes 1psi/ft frac gradient

Calculations	L1 String	5.000	"
Max BHP (psi)	.052*Setting Depth*MW=	7238	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	5846	YES <input type="checkbox"/> 10M stack, 5M annular
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	4686	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)=	6541	YES <input type="checkbox"/>
Required Casing/BOPE Test Pressure=		9758	psi
*Max Pressure Allowed @ Previous Casing Shoe=		8430	psi *Assumes 1psi/ft frac gradient

**EP ENERGY E&P COMPANY, L.P.
White Trust 3-23C5
43013532850000**

		1.125			1		1.8					
	MASP	Collapse Strength (psi)	Collapse Load (psi)	Collapse DF	Burst Strength (psi)	Burst Load (psi)	Burst DF	Tension Strength (kips)	Tension DF	Neutral Point (ft)	Tension Air (kips)	Tension Buoyed (kips)
13.375 " Casing	218	1130	302	3.74	2730	619	4.41	514	13.47	611	38.2	33.5
	MW (ppg)	Internal Grad. (psi)	Backup Mud (ppg)	Internal Mud (ppg)	Max Shoe Pressure (psi)*	CSG Wt (lbs/ft)	CSG Grade	CSG Collar	Cement Lead (sx)	Lead Yield	Cement Tail (sx)	Tail Yield
	8.3	0.12	0.0	0.0	619	55	J-55	STC	879	1.15	0	0.00
	MASP	Collapse Strength (psi)	Collapse Load (psi)	Collapse DF	Burst Strength (psi)	Burst Load (psi)	Burst DF	Tension Strength (kips)	Tension DF	Neutral Point (ft)	Tension Air (kips)	Tension Buoyed (kips)
9.625 " Casing	465	3090	949	3.26	5750	2200	2.61	737	8.38	1921	88.0	77.1
	MW (ppg)	Internal Grad. (psi)	Backup Mud (ppg)	Internal Mud (ppg)	Max Shoe Pressure (psi)*	CSG Wt (lbs/ft)	CSG Grade	CSG Collar	Cement Lead (sx)	Lead Yield	Cement Tail (sx)	Tail Yield
	8.3	0.22	0.0	0.0	3140	40.0	N-80	LTC	373	2.36	195	1.30
	MASP	Collapse Strength (psi)	Collapse Load (psi)	Collapse DF	Burst Strength (psi)	Burst Load (psi)	Burst DF	Tension Strength (kips)	Tension DF	Neutral Point (ft)	Tension Air (kips)	Tension Buoyed (kips)
7 " Casing	4679	9200	4511	2.04	11220	6534	1.72	797	3.85	7102	245.2	207.1
	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	6534	29.0	HCP-110	LTC	592.0	1.91	292.0	1.64
	MASP	Collapse Strength (psi)	Collapse Load (psi)	Collapse DF	Burst Strength (psi)	Burst Load (psi)	Burst DF	Tension Strength (kips)	Tension DF	Neutral Point (ft)	Tension Air (kips)	Tension Buoyed (kips)
5 " Casing	4679	13418	7231	1.86	13940	7231	1.93	495	10.13	11017	59.8	48.8
	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
	12.0	0.22	0.0	0.0	8306	18.0	HCP-110	LTC	198.0	1.52	0.0	0.00

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator EP ENERGY E&P COMPANY, L.P.
Well Name White Trust 3-23C5
API Number 43013532850000 **APD No** 11149 **Field/Unit** ALTAMONT
Location: 1/4,1/4 NESW **Sec** 23 **Tw** 3.0S **Rng** 5.0W 1405 FSL 1803 FWL
GPS Coord (UTM) 549306 4450367 **Surface Owner** Alan B. White, Trustee

Participants

Alan White (surface owner); Jeff Crosier & Randy Fredrick (EP Energy); Dennis Ingram (DOG M); Jay Van tassel (Lands contractor)

Regional/Local Setting & Topography

The White 3-23C5 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 will be upgraded for the three location scheduled along this bench. 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 900 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 run-off and storm water toward Starvation Reservoir.

Surface Use Plan

Current Surface Use

Residential
Wildlfe Habitat

New Road Miles

0.1

Well Pad

Width 407 Length 410

Src Const Material

Onsite

Surface Formation

UNTA

Ancillary Facilities N

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetlands

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, also raptor nesting along the river to the east.

Soil Type and Characteristics

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

Erosion Issues

Sedimentation Issues**Site Stability Issues****Drainage Diversion Required?****Berm Required?****Erosion Sedimentation Control Required?**

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

Reserve Pit

Site-Specific Factors	Site Ranking
Distance to Groundwater (feet) >200	0
Distance to Surface Water (feet) >1000	0
Dist. Nearest Municipal Well (ft) >5280	0
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 Unknown	10
Final Score	41 1 Sensitivity Level

Characteristics / Requirements

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

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

Other Observations / Comments

Landowner does not want operator to remove any more cedar trees than necessary along the south and southwestern side of location because of existing housing to the south. Probably pile any trees that are removed along southern side of location to block view from the south. Also wanted cattle guard and gate at access road into his field, does not want operator or public traffic beyond location down existing two-track to the north. Operator did not want to fence location because of extra expense, was told if horses stomp down berms violations will follow, reserve pit is to be fenced to keep horses out until it is closed.

Dennis Ingram
Evaluator

4/23/2015
Date / Time

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

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
11149	43013532850000	LOCKED	OW	P	No
Operator	EP ENERGY E&P COMPANY, L.P.		Surface Owner-APD	Alan B. White, Trustee	
Well Name	White Trust 3-23C5		Unit		
Field	ALTAMONT		Type of Work	DRILL	
Location	NESW 23 3S 5W U 1405 FSL (UTM) 549309E 4450356N		1803 FWL	GPS Coord	

Geologic Statement of Basis

EP proposes to set 700 feet of conductor and 2,200 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 700 feet. A search of Division of Water Rights records indicates that there are over 20 water wells within a 10,000 foot radius of the center of Section 23. 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

4/28/2015
Date / Time

Surface Statement of Basis

Operator shall limit their foot print immediately south of this location and not remove any trees that are not necessary to construct well pad. Trees removed from the location surface shall also be stacked immediately south of the well pad as a potential visual barrier for the housed to the south of this well. The landowner does not want any public or operator traffic north off this right-of-way along the existing jeep or two track road.

A reserve pit is proposed off the west side of the location and shall be lined with a 20 mil synthetic liner to prevent migration of drilling fluids into sub-surface soils. This pit shall be fenced from the time of construction until closure to prevent wildlife or horses ranging in this area from entering same. Topsoil storage will be along the southwestern corner of this location; reserve pit spoils shall be stored north of the reserve pit corner E and location corner 6.

A presite was scheduled and performed on Thursday, April 23, 2015 to address issues regarding the drilling and construction of the White Trust 3-23C5 well. Alan White is shown as the landowner of record and was therefore invited to the presite meeting. Mr. White claims that he and EP Energy have entered into a surface damage, landowner agreement.

Dennis Ingram
Onsite Evaluator

4/23/2015
Date / Time

Conditions of Approval / Application for Permit to Drill

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

- Pits A synthetic liner with a minimum thickness of 20 mils with a felt sub liner shall be properly installed and maintained in the reserve pit.
- Pits The reserve pit should be located on the west side of the location. This pit shall also be fenced to prevent horses from entering same.
- Surface The well site shall be bermed to prevent fluids from entering or leaving the pad.

CONFIDENTIAL

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 4/14/2015

API NO. ASSIGNED: 43013532850000

WELL NAME: White Trust 3-23C5

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

PHONE NUMBER: 713 997-5038

CONTACT: Maria S. Gomez

PROPOSED LOCATION: NESW 23 030S 050W

Permit Tech Review:

SURFACE: 1405 FSL 1803 FWL

Engineering Review:

BOTTOM: 0904 FSL 1833 FWL

Geology Review:

COUNTY: DUCHESNE

LATITUDE: 40.20215

LONGITUDE: -110.42063

UTM SURF EASTINGS: 549309.00

NORTHINGS: 4450356.00

FIELD NAME: ALTAMONT

LEASE TYPE: 4 - Fee

LEASE NUMBER: Fee

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

SURFACE OWNER: 4 - Fee

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

- PLAT
- Bond: STATE - 400JU0708
- Potash
- Oil Shale 190-5
- Oil Shale 190-3
- Oil Shale 190-13
- Water Permit: Duchesne City Water
- 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) - ddoucet
15 - Directional - dmason



GARY R. HERBERT
Governor

SPENCER J. COX
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: White Trust 3-23C5
API Well Number: 43013532850000
Lease Number: Fee
Surface Owner: FEE (PRIVATE)
Approval Date: 4/28/2015

Issued to:

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

Authority:

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

Duration:

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

General:

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

Conditions of Approval:

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

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

Cement volume for the 7" intermediate string shall be determined from actual hole diameter in order to place cement from the pipe setting depth back to surface and tail cement back to 6056' MD as indicated in the submitted drilling plan.

Additional Approvals:

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

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

Notification Requirements:

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

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

Contact Information:

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

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

Reporting Requirements:

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

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

Approved By:

Approved by:

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

For John Rogers
Associate Director, Oil & Gas



CONFIDENTIAL

Carol Daniels <caroldaniels@utah.gov>

24hr Notice Run & Cement Casing

1 message

23 3S 5W

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

Sat, May 9, 2015 at 1:10 AM

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

RE: EP ENERGY

WHITE TRUST 3-23C5

API # 43013532850000

ALTAMONT FIELD

DUCHESNE COUNTY

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

Regards,

Tony Wilkerson / Bill Owen

EP Energy LLC

PD Rig 406

Rig: 713-997-1220

Cell: 435-823-1764

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



Alexis Huefner <alexishuefner@utah.gov>

24hr Spud Notice White Trust 3-23C5 API # 43013532850000

1 message

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

Mon, May 4, 2015 at 11:13 PM

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

RE: EP ENERGY

WHITE TRUST 3-23C5

API # 43013532850000

ALTAMONT FIELD

DUCHESNE COUNTY

1405 FSL 1403 FWL
NESW 23 3S 5W

Leon Ross Drilling **spudded** the well @ 13:30hrs on **5/4/2015**. We plan on running and cementing 20" Conductor Casing to +/- 20' within 24hrs.

CONFIDENTIAL

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.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
5.LEASE DESIGNATION AND SERIAL NUMBER: Fee	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
7.UNIT or CA AGREEMENT NAME:	
8. WELL NAME and NUMBER: White Trust 3-23C5	
9. API NUMBER: 43013532850000	
9. FIELD and POOL or WILDCAT: ALTAMONT	
COUNTY: DUCHESNE	
STATE: UTAH	

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL Oil Well	
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.	
3. ADDRESS OF OPERATOR: 1001 Louisiana , Houston, TX, 77002	PHONE NUMBER: 713 997-5038 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1405 FSL 1803 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESW Section: 23 Township: 03.0S Range: 05.0W Meridian: U	

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: 6/12/2015	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="Initial Completion"/>

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

EP plans to complete the well into the Wasatch. See attached for details.

Approved by the
June 10, 2015
Oil, Gas and Mining

Date: _____
By: DeKQ

NAME (PLEASE PRINT) Maria S. Gomez	PHONE NUMBER 713 997-5038	TITLE Principal Regulatory Analyst
SIGNATURE N/A	DATE 6/10/2015	

White Trust 3-23C5

Initial Completion

API # : 4301353285

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

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

Completion Information (Wasatch Formation)

- | | |
|-----------------|---|
| Stage #1 | RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~10620' – 10952' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of THS 30/50. Total clean water volume is 3648 bbls. |
| Stage #2 | RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~10292' – 10577' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of TLC 30/50. Total clean water volume is 3642 bbls. |
| Stage #3 | RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~9906' – 10207' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of TLC 30/50. Total clean water volume is 3635 bbls. |
| Stage #4 | RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~9602' – 9860' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of TLC 30/50. Total clean water volume is 3629 bbls. |
| Stage #5 | RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~9342' – 9574' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of TLC 30/50. Total clean water volume is 3625 bbls. |

Stage #6 RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~9027' – 9294' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of TLC 30/50. Total clean water volume is 3619 bbls.

Stage #7 RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~8728' – 8995' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of TLC 30/50. Total clean water volume is 3614 bbls.

Stage #8 RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~8478' – 8706' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of TLC 30/50. Total clean water volume is 3609 bbls.

Stimulation Summary

	Top Perf	Btm. Perf	Gross Interval	Plug Depth	Net Perf Length	Total Shots	Perf Intervals	Type of Prop	Lbs of Prop	Lbs/ft	Lbs of 100 Mesh	Gals of HCL (15%)	BBLs of Clean H2O	BBLs of Slurry
Stage #1	10,620	10,952	332	NA	23	69	17	THS 30/50	150,000	452	3,000	5,000	3,648	4,060
Stage #2	10,292	10,577	285	10,592	23	69	17	TLC 30/50	150,000	526	3,000	5,000	3,642	4,042
Stage #3	9,906	10,207	301	10,222	23	69	17	TLC 30/50	150,000	498	3,000	5,000	3,635	4,035
Stage #4	9,602	9,860	258	9,875	23	69	17	TLC 30/50	150,000	581	3,000	5,000	3,629	4,030
Stage #5	9,342	9,574	232	9,589	22	66	17	TLC 30/50	150,000	647	3,000	5,000	3,625	4,025
Stage #6	9,027	9,294	267	9,309	23	69	17	TLC 30/50	150,000	562	3,000	5,000	3,619	4,020
Stage #7	8,728	8,995	267	9,010	23	69	17	TLC 30/50	150,000	562	3,000	5,000	3,614	4,014
Stage #8	8,478	8,706	228	8,721	23	69	17	TLC 30/50	150,000	658	3,000	5,000	3,609	4,010
Average per Stage			271		23	69	17		150,000	561	3,000	5,000	3,628	4,030
Totals per Well			2,170		183	549	136		1,200,000		24,000	40,000	29,021	32,237

CONFIDENTIAL



Carol Daniels <caroldaniels@utah.gov>

NEWS-73 T039 ROSW FREE LEASE

24Hr Notice Run & Cement Casing

1 message

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

Sat, May 23, 2015 at 2:33 AM

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

RE: EP ENERGY

WHITE TRUST 3-23C5

API # 43013532850000

ALTAMONT FIELD

DUCHESNE COUNTY

We plan on running and cementing 5" 18# P-110HC STC Production Liner to +/- 11,118' within 24hrs.

Thanks,

Lloyd Rowell / Morgan Harden

EP Energy / PD 406

713-997-1220 (Rig)

435-823-1764 (Cell)

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

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

AMENDED REPORT FORM 8
(highlight changes)

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 _____

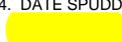
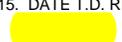
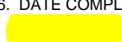
2. NAME OF OPERATOR:

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

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

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

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

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

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

25. TUBING RECORD

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

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(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 July 20, 2015****Well Name: White Trust 3-23C5****Items #27 and #28 Continued****27. Perforation Record**

Interval (Top/Bottom – MD)	Size	No. of Holes	Perf. Status
9336'-9518'	.40	51	Open
9019'-9289'	.40	69	Open
8718'-8987'	.40	69	Open
8470'-8698'	.40	69	Open

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

Depth Interval	Amount and Type of Material
9595'-9856'	5000 gal acid, 3000# 100 mesh, 150400# 30/50 TLC
9336'-9518'	5000 gal acid, 3000# 100 mesh, 150300# 30/50 TLC
9019'-9289'	5000 gal acid, 3000# 100 mesh, 150400# 30/50 TLC
8718'-8987'	5000 gal acid, 3000# 100 mesh, 150500# 30/50 TLC
8470'-8698'	5000 gal acid, 3000# 100 mesh, 149220# 30/50 TLC



Company: EP Energy Job Number: _____
 Well: White Trust 3-23C5 Mag Decl.: _____
 Location: Duchesne, UT Dir Driller: _____
 Rig: Precision 406 MWD Eng: _____

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

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')		
							N/S (ft)	E/W (ft)	Distance (ft)	Direction Azimuth					
Tie In	0.00	0.00	0.00												
1	100.00	0.59	81.87	100.00	100.00	0.07	0.07	N	0.51	E	0.51	81.87	0.59	0.59	81.87
2	200.00	0.70	69.53	100.00	199.99	0.36	0.36	N	1.58	E	1.62	77.28	0.18	0.11	-12.34
3	300.00	0.61	58.84	100.00	299.99	0.84	0.84	N	2.61	E	2.74	72.04	0.15	-0.09	-10.70
4	400.00	0.30	45.17	100.00	399.98	1.31	1.31	N	3.25	E	3.50	68.11	0.32	-0.31	-13.67
5	500.00	0.15	359.40	100.00	499.98	1.62	1.62	N	3.43	E	3.79	64.77	0.22	-0.16	314.23
6	600.00	0.22	291.42	100.00	599.98	1.82	1.82	N	3.25	E	3.73	60.85	0.21	0.07	-67.98
7	700.00	0.32	280.93	100.00	699.98	1.94	1.94	N	2.80	E	3.40	55.30	0.11	0.10	-10.49
8	800.00	0.35	255.41	100.00	799.98	1.92	1.92	N	2.23	E	2.94	49.32	0.15	0.03	-25.53
9	900.00	0.68	242.79	100.00	899.97	1.57	1.57	N	1.40	E	2.10	41.87	0.35	0.34	-12.62
10	1000.00	0.66	214.47	100.00	999.97	0.82	0.82	N	0.55	E	0.99	33.76	0.33	-0.03	-28.32
11	1100.00	0.95	218.14	100.00	1099.96	-0.31	0.31	S	0.29	W	0.42	223.42	0.30	0.30	3.67
12	1200.00	1.26	207.27	100.00	1199.94	-1.94	1.94	S	1.31	W	2.34	213.99	0.37	0.31	-10.87
13	1300.00	1.46	207.98	100.00	1299.91	-4.05	4.05	S	2.41	W	4.71	210.79	0.20	0.20	0.71
14	1400.00	1.58	203.69	100.00	1399.87	-6.44	6.44	S	3.57	W	7.36	208.97	0.17	0.12	-4.29
15	1500.00	1.65	197.83	100.00	1499.83	-9.07	9.07	S	4.56	W	10.15	206.69	0.18	0.06	-5.86
16	1600.00	1.84	201.00	100.00	1599.79	-11.94	11.94	S	5.58	W	13.18	205.03	0.22	0.20	3.17
17	1700.00	2.17	197.24	100.00	1699.73	-15.25	15.25	S	6.71	W	16.66	203.76	0.35	0.32	-3.76
18	1800.00	2.02	200.09	100.00	1799.66	-18.71	18.71	S	7.88	W	20.30	202.84	0.18	-0.14	2.85
19	1900.00	2.13	205.78	100.00	1899.59	-22.04	22.04	S	9.29	W	23.92	202.86	0.23	0.10	5.69
20	2000.00	1.84	205.89	100.00	1999.53	-25.15	25.15	S	10.80	W	27.37	203.24	0.29	-0.29	0.11
21	2100.00	1.93	224.36	100.00	2099.48	-27.80	27.80	S	12.68	W	30.56	204.52	0.61	0.09	18.47
22	2132.00	1.82	224.19	32.00	2131.46	-28.56	28.56	S	13.41	W	31.55	205.16	0.34	-0.34	-0.53
23	2308.00	1.80	214.20	176.00	2307.38	-32.85	32.85	S	16.92	W	36.95	207.25	0.18	-0.01	-5.68
24	2403.00	2.00	204.80	95.00	2402.32	-35.59	35.59	S	18.45	W	40.09	207.41	0.39	0.21	-9.89
25	2499.00	2.20	205.60	96.00	2498.26	-38.77	38.77	S	19.95	W	43.60	207.23	0.21	0.21	0.83
26	2595.00	2.00	202.00	96.00	2594.20	-41.99	41.99	S	21.38	W	47.11	206.98	0.25	-0.21	-3.75
27	2691.00	2.30	206.00	96.00	2690.13	-45.27	45.27	S	22.85	W	50.71	206.78	0.35	0.31	4.17
28	2786.00	2.40	207.60	95.00	2785.05	-48.75	48.75	S	24.61	W	54.60	206.78	0.13	0.11	1.68
29	2882.00	2.70	212.90	96.00	2880.95	-52.43	52.43	S	26.76	W	58.86	207.05	0.40	0.31	5.52
30	2979.00	2.50	208.60	97.00	2977.85	-56.20	56.20	S	29.02	W	63.25	207.31	0.29	-0.21	-4.43
31	3075.00	3.60	187.50	96.00	3073.72	-61.03	61.03	S	30.41	W	68.19	206.49	1.62	1.15	-21.98
32	3172.00	3.60	194.10	97.00	3170.53	-67.00	67.00	S	31.55	W	74.06	205.22	0.43	0.00	6.80
33	3268.00	3.70	191.30	96.00	3266.33	-72.96	72.96	S	32.89	W	80.04	204.27	0.21	0.10	-2.92
34	3364.00	3.80	192.20	96.00	3362.13	-79.11	79.11	S	34.17	W	86.18	203.36	0.12	0.10	0.94
35	3459.00	3.50	190.90	95.00	3456.93	-85.03	85.03	S	35.39	W	92.10	202.60	0.33	-0.32	-1.37



Company: EP Energy
Well: White Trust 3-23C5
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	3556.00	3.30	192.30	97.00	3553.76	-90.67	90.67	S	36.54	W	97.76	201.95	0.22	-0.21	1.44
37	3651.00	4.00	160.40	95.00	3648.58	-96.46	96.46	S	36.01	W	102.97	200.47	2.23	0.74	-33.58
38	3748.00	3.80	164.00	97.00	3745.36	-102.74	102.74	S	33.99	W	108.22	198.31	0.33	-0.21	3.71
39	3844.00	3.80	172.50	96.00	3841.14	-108.95	108.95	S	32.70	W	113.75	196.71	0.59	0.00	8.85
40	3940.00	3.50	176.40	96.00	3936.95	-115.03	115.03	S	32.10	W	119.43	195.59	0.41	-0.31	4.06
41	4037.00	4.50	168.60	97.00	4033.71	-121.72	121.72	S	31.16	W	125.64	194.36	1.17	1.03	-8.04
42	4133.00	4.10	168.40	96.00	4129.44	-128.77	128.77	S	29.73	W	132.16	193.00	0.42	-0.42	-0.21
43	4230.00	3.60	174.50	97.00	4226.22	-135.20	135.20	S	28.74	W	138.22	192.00	0.67	-0.52	6.29
44	4326.00	4.40	164.10	96.00	4321.99	-141.74	141.74	S	27.44	W	144.37	190.96	1.12	0.83	-10.83
45	4422.00	3.80	167.30	96.00	4417.74	-148.38	148.38	S	25.73	W	150.60	189.84	0.67	-0.63	3.33
46	4518.00	3.60	172.10	96.00	4513.54	-154.47	154.47	S	24.62	W	156.42	189.06	0.38	-0.21	5.00
47	4614.00	4.00	167.80	96.00	4609.33	-160.73	160.73	S	23.50	W	162.44	188.32	0.51	0.42	-4.48
48	4710.00	4.80	165.60	96.00	4705.05	-167.89	167.89	S	21.79	W	169.30	187.40	0.85	0.83	-2.29
49	4805.00	4.40	168.60	95.00	4799.74	-175.32	175.32	S	20.08	W	176.46	186.53	0.49	-0.42	3.16
50	4901.00	4.40	173.50	96.00	4895.46	-182.59	182.59	S	18.94	W	183.56	185.92	0.39	0.00	5.10
51	4997.00	4.20	175.70	96.00	4991.19	-189.75	189.75	S	18.26	W	190.63	185.50	0.27	-0.21	2.29
52	5093.00	3.70	175.60	96.00	5086.96	-196.34	196.34	S	17.76	W	197.14	185.17	0.52	-0.52	-0.10
53	5189.00	4.40	158.60	96.00	5182.73	-202.86	202.86	S	16.17	W	203.50	184.56	1.44	0.73	-17.71
54	5285.00	4.40	158.90	96.00	5278.44	-209.73	209.73	S	13.51	W	210.16	183.68	0.02	0.00	0.31
55	5382.00	3.90	156.60	97.00	5375.19	-216.22	216.22	S	10.86	W	216.50	182.87	0.54	-0.52	-2.37
56	5478.00	5.30	153.40	96.00	5470.88	-223.18	223.18	S	7.57	W	223.31	181.94	1.48	1.46	-3.33
57	5573.00	4.70	155.60	95.00	5565.52	-230.65	230.65	S	4.00	W	230.69	180.99	0.66	-0.63	2.32
58	5669.00	4.30	160.80	96.00	5661.22	-237.63	237.63	S	1.19	W	237.64	180.29	0.59	-0.42	5.42
59	5765.00	4.30	164.50	96.00	5756.95	-244.50	244.50	S	0.95	E	244.50	179.78	0.29	0.00	3.85
60	5861.00	4.30	170.10	96.00	5852.68	-251.51	251.51	S	2.53	E	251.53	179.42	0.44	0.00	5.83
61	5957.00	4.00	174.20	96.00	5948.43	-258.39	258.39	S	3.49	E	258.41	179.23	0.44	-0.31	4.27
62	6052.00	3.80	177.10	95.00	6043.21	-264.83	264.83	S	3.98	E	264.86	179.14	0.30	-0.21	3.05
63	6148.00	4.20	160.40	96.00	6138.98	-271.32	271.32	S	5.32	E	271.37	178.88	1.28	0.42	-17.40
64	6245.00	4.40	165.60	97.00	6235.70	-278.27	278.27	S	7.44	E	278.37	178.47	0.45	0.21	5.36
65	6340.00	4.40	171.20	95.00	6330.42	-285.40	285.40	S	8.91	E	285.54	178.21	0.45	0.00	5.89
66	6437.00	4.00	173.10	97.00	6427.16	-292.44	292.44	S	9.88	E	292.60	178.06	0.44	-0.41	1.96
67	6532.00	4.10	178.80	95.00	6521.93	-299.12	299.12	S	10.35	E	299.30	178.02	0.44	0.11	6.00
68	6628.00	4.10	181.10	96.00	6617.68	-305.98	305.98	S	10.36	E	306.16	178.06	0.17	0.00	2.40
69	6724.00	4.00	183.30	96.00	6713.44	-312.76	312.76	S	10.10	E	312.92	178.15	0.19	-0.10	2.29
70	6820.00	4.40	187.50	96.00	6809.18	-319.75	319.75	S	9.42	E	319.89	178.31	0.53	0.42	4.37
71	6916.00	4.30	186.30	96.00	6904.91	-326.98	326.98	S	8.55	E	327.09	178.50	0.14	-0.10	-1.25
72	7012.00	4.60	192.60	96.00	7000.62	-334.31	334.31	S	7.31	E	334.39	178.75	0.60	0.31	6.56



Company: EP Energy
Well: White Trust 3-23C5
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	7108.00	4.10	190.30	96.00	7096.34	-341.45	341.45	S	5.86	E	341.50	179.02	0.55	-0.52	-2.40
74	7203.00	4.60	188.30	95.00	7191.07	-348.56	348.56	S	4.70	E	348.59	179.23	0.55	0.53	-2.11
75	7299.00	4.30	191.10	96.00	7286.78	-355.90	355.90	S	3.45	E	355.92	179.44	0.39	-0.31	2.92
76	7395.00	4.50	190.60	96.00	7382.50	-363.13	363.13	S	2.07	E	363.14	179.67	0.21	0.21	-0.52
77	7491.00	4.50	189.40	96.00	7478.20	-370.55	370.55	S	0.76	E	370.55	179.88	0.10	0.00	-1.25
78	7587.00	4.20	191.10	96.00	7573.92	-377.72	377.72	S	0.53	W	377.72	180.08	0.34	-0.31	1.77
79	7683.00	4.40	193.30	96.00	7669.65	-384.75	384.75	S	2.05	W	384.75	180.31	0.27	0.21	2.29
80	7779.00	3.40	201.10	96.00	7765.43	-390.99	390.99	S	3.93	W	391.01	180.58	1.18	-1.04	8.12
81	7875.00	2.80	210.70	96.00	7861.29	-395.66	395.66	S	6.15	W	395.71	180.89	0.82	-0.63	10.00
82	7971.00	3.30	193.80	96.00	7957.16	-400.36	400.36	S	8.01	W	400.44	181.15	1.07	0.52	-17.60
83	8067.00	3.40	198.60	96.00	8052.99	-405.74	405.74	S	9.57	W	405.85	181.35	0.31	0.10	5.00
84	8163.00	2.90	180.90	96.00	8148.85	-410.87	410.87	S	10.52	W	411.00	181.47	1.13	-0.52	-18.44
85	8259.00	2.00	203.40	96.00	8244.76	-414.83	414.83	S	11.22	W	414.99	181.55	1.36	-0.94	23.44
86	8356.00	1.40	250.20	97.00	8341.72	-416.79	416.79	S	13.01	W	416.99	181.79	1.50	-0.62	48.25
87	8416.00	1.80	240.00	60.00	8401.70	-417.51	417.51	S	14.51	W	417.76	181.99	0.82	0.67	-17.00
88	8500.00	1.02	245.64	84.00	8485.67	-418.48	418.48	S	16.34	W	418.79	182.24	0.94	-0.93	6.71
89	8600.00	0.89	225.33	100.00	8585.66	-419.39	419.39	S	17.70	W	419.76	182.42	0.36	-0.13	-20.31
90	8700.00	1.49	215.53	100.00	8685.64	-420.99	420.99	S	19.00	W	421.42	182.58	0.64	0.61	-9.79
91	8800.00	1.39	202.88	100.00	8785.61	-423.16	423.16	S	20.23	W	423.65	182.74	0.33	-0.10	-12.65
92	8900.00	1.60	200.70	100.00	8885.57	-425.59	425.59	S	21.20	W	426.12	182.85	0.22	0.22	-2.19
93	9000.00	1.75	204.14	100.00	8985.53	-428.29	428.29	S	22.31	W	428.87	182.98	0.17	0.14	3.44
94	9100.00	2.05	201.30	100.00	9085.47	-431.35	431.35	S	23.59	W	431.99	183.13	0.32	0.30	-2.84
95	9200.00	1.97	204.32	100.00	9185.41	-434.58	434.58	S	24.94	W	435.30	183.29	0.13	-0.08	3.01
96	9300.00	1.75	209.66	100.00	9285.36	-437.48	437.48	S	26.41	W	438.27	183.45	0.28	-0.22	5.35
97	9400.00	1.93	209.60	100.00	9385.31	-440.27	440.27	S	28.00	W	441.16	183.64	0.18	0.18	-0.06
98	9500.00	1.95	195.48	100.00	9485.25	-443.38	443.38	S	29.28	W	444.34	183.78	0.48	0.02	-14.12
99	9600.00	2.16	203.07	100.00	9585.19	-446.75	446.75	S	30.48	W	447.79	183.90	0.34	0.21	7.59
100	9700.00	2.55	195.47	100.00	9685.10	-450.63	450.63	S	31.81	W	451.75	184.04	0.50	0.39	-7.59
101	9800.00	2.50	194.47	100.00	9785.01	-454.88	454.88	S	32.95	W	456.07	184.14	0.07	-0.05	-1.00
102	9900.00	2.54	191.25	100.00	9884.91	-459.16	459.16	S	33.92	W	460.41	184.23	0.15	0.04	-3.22
103	10000.00	2.20	197.52	100.00	9984.82	-463.16	463.16	S	34.93	W	464.48	184.31	0.43	-0.34	6.26
104	10100.00	2.76	195.32	100.00	10084.73	-467.31	467.31	S	36.14	W	468.71	184.42	0.57	0.56	-2.19
105	10200.00	2.88	195.98	100.00	10184.61	-472.05	472.05	S	37.47	W	473.53	184.54	0.13	0.12	0.66
106	10300.00	2.51	192.28	100.00	10284.50	-476.60	476.60	S	38.63	W	478.16	184.63	0.41	-0.37	-3.70
107	10400.00	2.60	189.62	100.00	10384.40	-480.98	480.98	S	39.47	W	482.59	184.69	0.15	0.10	-2.66
108	10500.00	3.15	189.87	100.00	10484.27	-485.93	485.93	S	40.32	W	487.60	184.74	0.55	0.55	0.25
109	10600.00	3.03	188.58	100.00	10584.13	-491.25	491.25	S	41.19	W	492.97	184.79	0.14	-0.12	-1.29



Company: EP Energy **Job Number:** _____
Well: White Trust 3-23C5 **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	2.68	188.64	100.00	10684.00	-496.17	496.17	S	41.93	W	497.94	184.83	0.35	-0.35	0.06
111	10800.00	3.09	187.18	100.00	10783.88	-501.16	501.16	S	42.62	W	502.97	184.86	0.41	0.41	-1.46
112	10900.00	2.83	188.66	100.00	10883.74	-506.27	506.27	S	43.33	W	508.12	184.89	0.27	-0.26	1.48
113	10952.00	3.09	191.12	52.00	10935.67	-508.91	508.91	S	43.79	W	510.80	184.92	0.55	0.49	4.73
114	11118.00	3.09	191.12	166.00	11101.43	-517.69	517.69	S	45.52	W	519.68	185.03	0.00	0.00	0.00

CENTRAL DIVISION

ALTAMONT FIELD
WHITE TRUST 3-23C5
WHITE TRUST 3-23C5
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 TRUST 3-23C5		
Project	ALTAMONT FIELD	Site	WHITE TRUST 3-23C5
Rig Name/No.	PRECISION DRILLING/406	Event	DRILLING LAND
Start date	5/13/2015	End date	5/25/2015
Spud Date/Time	5/13/2015	UWI	WHITE TRUST 3-23C5
Active datum	KB @5,795.9ft (above Mean Sea Level)		
Afe No./Description	161314/54080 / WHITE TRUST 3-23C5		

2 Summary**2.1 Operation Summary**

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
5/10/2015	6:00 8:00	2.00	CASCOND	24		P	0.0	SET 77' 20" CONDUCTOR, SET MOUSE HOLE @ 80'. ADDED RKB CORRECTION FOR PD 406.
	8:00 9:00	1.00	CASCOND	24		P	77.0	DRILL 17½" HOLE TO 743'. RAN 17 JTS 13-3/8" 54.5# N-80 ST&C TO 732'. FC @ 688' SHOE 732'. ADDED RKB CORRECTION FOR PD 406.
	9:00 10:00	1.00	CASCOND	25		P	77.0	M&P PUMPED 72 BBLS H2O. 900 SXS (184 BBLS) PREMIUM G LEAD CMT @ 15.8 PPG, 1.15 YLD. RELEASED TOP PLUG. DISPLACED WITH 104 BBLS OF H2O @ 4.5 BPM. BUMPED PLUG @ 13:55HRS 5/8/15 WITH 990 PSI. 0.5 BBL BLED BACK, FLOATS HELD. 60 BBLS CMT TO SURFACE.
	10:00 11:30	1.50	CASSURF	24		P	743.0	DRILL 12¼" HOLE TO 2,228'. RAN 51 JTS 9-5/8" 40# N-80 LT&C TO 2,210'. FC @ 2,195' SHOE 2,110'. ADDED RKB CORRECTION FOR PD 406.
	11:30 14:30	3.00	CASSURF	25		P	2,228.0	M&P PUMPED 100 BBLS H2O. 400 SXS (168.8 BBLS) VARICEM LEAD CMT @ 12 PPG, 2.37 YLD TAILED WITH 200 SXS (46.3 BBLS) OF HALCEM CMT @ 14.3 PPG, 1.30 YIELD. RELEASED TOP PLUG. DISPLACED WITH 163 BBLS OF H2O @ 6-4 BPM. BUMPED PLUG @ 13:30HRS 5/10/15 WITH 1,040 PSI. 0.75 BBL BLED BACK, FLOATS HELD. 45 BBLS CMT TO SURFACE.
	14:30 6:00			CASSURF	25		P	2,228.0
5/12/2015	6:00 6:00	24.00	MIRU	01		P	2,228.0	MOVE IN & RIG UP. 100% MOVED IN 95% RIGGED UP. RELEASED TRUCKS @ 18:00 HRS 5/10/15.
5/13/2015	6:00 10:00	4.00	MIRU	01		P	2,228.0	PU TDU. PREP FLOOR . 100% RIGGED UP. PERFORM RIG INSPECTION. RIG ON RATE @ 10:00 HRS 5/12/15.
	10:00 17:30	7.50	CASSURF	28		P	2,228.0	NU 11" 10M BOPE & INSTALL FLOW LINE. PJSM. TORQUE BOLTS W/ WEATHERFORD. RU TEST UNIT.
	17:30 22:00	4.50	CASSURF	19		P	2,228.0	TEST 11" 5M ANNULAR TO 250 / 2,500 PSI AND REMAINING BOPE, FLOOR VALVES, ETC TO 250 / 5,000 PSI. TESTED CHOKE MANIFOLD TO 250 / 10,000 PSI. HELD EACH TEST 10 MINUTES. TEST CSG TO 2,500 PSI.
	22:00 23:00	1.00	CASSURF	31		P	2,228.0	TESTED CSG TO 2,500 PSI. RD TESTER.
	23:00 23:30	0.50	CASSURF	42		P	2,228.0	INSTALLED WEAR BUSHING.

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
5/14/2015	23:30 0:30	1.00	DRLINT1	14		P	2,228.0	WHILE WAITING ON MWD TO RU. PU & RACK BACK (6) 6-1/2" DC.
	0:30 5:00	4.50	CASSURF	14		P	2,228.0	PJSM. PU 8 3/4" BIT, DIRECTIONAL TOOLS & SCRIBE. PREFORMED SURFACE TEST. PU BHA & 4 1/2" DP. TIH T/ 2,068'. CHECKED DEGREE OF BEND ON MOTOR W/ PROTRACTOR (1.49).
	5:00 6:00	1.00	CASSURF	17		P	2,228.0	SLIP & CUT DRILL LINE.
	6:00 6:30	0.50	CASSURF	17		P	2,228.0	SLIP & CUT DRILL LINE.
	6:30 7:00	0.50	CASSURF	15		P	2,228.0	C & C MUD & INSTALLED ROTATING HEAD RUBBER.
	7:00 8:00	1.00	CASSURF	31		P	2,228.0	PREFORMED PRE FIT CASING TEST (710 PSI).
	8:00 8:30	0.50	CASSURF	32		P	2,228.0	DRILL CEMENT & FLOAT EQUIPMENT.
	8:30 9:00	0.50	DRLINT1	08		P	2,228.0	DRILLED 2,228' - 2,238'. SPUD WELL @ 10:00 5-13-15.
	9:00 10:00	1.00	DRLINT1	33		P	2,238.0	CIRC BU. PREFORMED FIT 14.6 PPG EMW. (9.2 PPG W/ 620 PSI).
	10:00 11:30	1.50	DRLINT1	08		P	2,238.0	DRILLED 2,238' - 2,548'.
	11:30 12:00	0.50	DRLINT1	12		P	2,548.0	SERVICE RIG & TD.
	12:00 13:00	1.00	DRLINT1	08		P	2,548.0	DRILLED 2,548' - 2,644'.
5/15/2015	13:00 16:00	3.00	DRLINT1	45		N	2,644.0	WORK ON MUD PUMPS. CHANGE 2 VALVES & SEATS. CLEAN BOTH SUCTION MANIFOLD MP 1 & MP2.
	16:00 2:00	10.00	DRLINT1	08		P	2,644.0	DRILLED 2,644' - 3,797'.
	2:00 2:30	0.50	DRLINT1	12		P	3,797.0	SERVICED RIG & TD.
	2:30 3:30	1.00	DRLINT1	08		P	3,797.0	DRILLED 3,797' - 3,986'.
	3:30 4:30	1.00	DRLINT1	55		N	3,986.0	CHANGED OUT 1 JOINT OF PIPE DO TO WASHOUT.
	4:30 6:00	1.50	DRLINT1	08		P	3,986.0	DRILLED 3986' - 4,086'.
	6:00 8:00	2.00	DRLINT1	08		P	4,086.0	DRILLED F/ 4,086' T/ 4,471'.
	8:00 8:30	0.50	DRLINT1	45		N	4,471.0	WORK ON #1 MUD PUMP.
	8:30 9:00	0.50	DRLINT1	12		P	4,471.0	SERVICE RIG & TD.
	9:00 1:30	16.50	DRLINT1	08		P	4,471.0	DRILLED F/ 4,471' T/ 6,197'. @ 6,010' HOLE BEGAN SEAPING. PUMPED LCM SWEEPS TO CONTROL MUD LOSSES.
	1:30 2:00	0.50	DRLINT1	12		P	6,197.0	SERVICED RIG & TD.
	2:00 6:00	4.00	DRLINT1	08		P	6,197.0	DRILLED F/ 6,197' T/ 6,516'.
5/16/2015	6:00 15:00	9.00	DRLINT1	08		P	6,516.0	DRILLED F/ 6,516' T/ 7,252'.
	15:00 15:30	0.50	DRLINT1	12		P	7,252.0	SERVICED RIG & TD.
	15:30 3:00	11.50	DRLINT1	08		P	7,252.0	DRILLED F/ 7,252' T/ 7,924'.
	3:00 3:30	0.50	DRLINT1	12		P	7,924.0	SERVICED RIG & TD.
	3:30 6:00	2.50	DRLINT1	08		P	7,924.0	DRILLED F/ 7,924' T/ 8,116'.
5/17/2015	6:00 13:30	7.50	DRLINT1	07		P	8,116.0	DRILLED F/ 8,116' T/ 8,465'. 25' OF UNSEEN SLIDE IN THE HOLE. FINAL SURVEY @ 8,416' 1.8 DEG 240.00 AZ. TD SECTION @ 13:30 HRS 05/16/2015.
	13:30 18:30	5.00	EVLINT1	15		P	8,465.0	C & C MUD. 1-5' FLARE. RAISE MW F/ 9.4 TO 9.8. SIM CONN, FLOW CHECK. CIRC BU. NO FLARE, NO GAINS. MAX GAS 700 UNITS (PASON), 85 UNITS (3RD PARTY).
	18:30 19:00	0.50	EVLINT1	12		P	8,465.0	SERVICED RIG & TD. TIE BACK SERVICE LOOP DO TO HIGH WINDS.
	19:00 4:00	9.00	EVLINT1	13		P	8,465.0	WIPER TRIP. WORKED THROUGH TIGHT SPOTS (6,827'-6,815'), (6,697'-6,688'), (6,366'-6,342'), (6,154'-6,143'), (5,895'-5,880'), (5,778'-5,770'). BACKREAMED (5,716'-5,437'), (5,332'-5,242'). CHECKED FLOW 8,465', 6,090', 4,009', 2,018', 818'.
	4:00 5:00	1.00	EVLINT1	14		P	8,465.0	LD DIRECTIONAL TOOLS.
5/18/2015	5:00 6:00	1.00	EVLINT1	13		P	8,465.0	RR BIT #1 & TIH.
	6:00 11:00	5.00	EVLINT1	13		P	8,465.0	WIPER TRIP TO 6,000'. FILL UP EVERY 1,000'.
	11:00 13:00	2.00	EVLINT1	15		P	8,465.0	C & C MUD. FLOW SLOWED DOWN CUT MW F/ 9.8 PPG TO 9.7 PPG CUT VIS F/50 TO 45. REGAINED 100% RETURNS.
	13:00 16:30	3.50	EVLINT1	13		P	8,465.0	FINISH WIPER TRIP @ 8,465'.
	16:30 17:00	0.50	EVLINT1	12		P	8,465.0	SERVICE RIG & TD UNIT.

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
5/19/2015	17:00 2:30	9.50	EVLINT1	15		P	8,465.0	C & C MUD. MAX GAS 7600 UNITS (PASON), 3137 UNITS (3RD PARTY), 10-12' FLARE FOR 40 MIN. 7/10 MUD CUT. RAISE MW F/ 9.7 PPG T/ 9.8 PPG. CIRC BU. GAS 2500 UNITS (PASON), 350 UNITS (3RD PARTY). RAISE MW F/ 9.8 PPG T/ 10.0 PPG. REDUCED PUMP RATE F/ 225 GPM T/ 200 GPM. FINAL BACKGROUND GAS 450 UNITS (PASON), 75 UNITS (3RD PARTY). CHECKED FLOW. WELL STATIC. PUMPED SLUG. NO MUD LOSS.
	2:30 6:00	3.50	EVLINT1	14		P	8,465.0	LD DP CHECK FLOW 6,000'.
	6:00 10:00	4.00	EVLINT1	14		P	8,465.0	FINISHED LD DP & BHA. CHECK FLOW 4,000', 2,200' & 980'.
	10:00 10:30	0.50	EVLINT1	42		P	8,465.0	PULLED WEAR BUSHING.
	10:30 16:00	5.50	EVLINT1	22		P	8,465.0	PJSM. RU & RUN HES STANDARD QUAD COMBO TO 8,461' . LOG UP FROM 8,461'. RD WL. LOWERED MW F/ 10.0 PPG T/ 9.7 PPG IN PITS..
5/20/2015	16:00 6:00	14.00	CASINT1	24		P	8,465.0	PJSM. RU FRANKS CSG CREW & TORQUE TURN. MADE UP & TESTED (1) JT SHOE TRACK. BEGIN RUNNING 7" 29# HCP 110 LTC CSG. RIH T/ 661' INSTALLED ROTATING HEAD ELEMENT & CIRC BU. CIRC BU EVERY 1000' . LOST PIPE DISPLACEMENT @ 5,650'. ATTEMPT TO REGAIN CIRC. RIH. PARTIAL PIPE DISPLACEMENT @ 5,900'. PRESENT DEPTH 6,605' AT REPORT TIME.
	6:00 12:00	6.00	CASINT1	24		P	8,465.0	RAN 203 JTS 7" 29# HCP-110 LT&C CSG TO 8,463'. FLOAT COLLAR @ 8,420', MARKER JT @ 6,517'. CIRC BU EVERY 1,000'.
	12:00 18:00	6.00	CASINT1	15		P	8,465.0	CBU @ 2.5-6 BPM MAX GAS 7,500 UNITS, NO GAIN , NO FLARE. AFTER BU HOLE BEGAN PAKING OFF. WORKED PIPE & PUMPED 2 LCM SWEEPS. FINAL CIRC PRESS 870 PSI.
	18:00 22:00	4.00	CASINT1	25		P	8,465.0	RU HES. MIXED & PUMPED 40 BBLS 9.8 PPG TUNED SPACER . 700 SXS (238 BBLS) EXTENDACEM LEAD CMT @ 12.5 PPG, 1.91 YLD TAILED WITH 320 SXS (93 BBLS) OF EXPANDACHEM CMT @ 13 PPG, 1.64 YIELD. RELEASED TOP PLUG. DISPLACED WITH 312 BBLS OF 9.7 PPG MUD @ 4-3 BPM. BUMPED PLUG @ 19:55 HRS 5/19/15 WITH 1,690 PSI. FINAL CIRC PRESS 1,160 PSI. 1.75 BBL BLED BACK, FLOATS HELD. RD CEMENTERS. RETURNS SLOWED LAST 150 BBLS DISP, LOST RETURNS LAST 100 BBLS. TOTAL LOST DURING CMT OPS 158 BBLS. EST TOC 3,734'.
	22:00 23:30	1.50	CASINT1	27		P	8,465.0	LD LANDING JT. INSTALLED & TESTED PACK-OFF TO 5,000 PSI FOR 15MIN.
	23:30 0:30	1.00	CASINT1	31		P	8,465.0	TESTED CASING TO 2,500 PSI FOR 30 MINUTES WHILE CO TDU SAVER SUB TO 4" XT-39.
	0:30 5:00	4.50	CASINT1	19		P	8,465.0	PJSM. RU & TESTED 11" 5M ANNULAR TO 250 / 4,000 PSI, RAMS & REMAINING BOPE, FLOOR VALVES, ETC TO 250 / 10,000 PSI. HOLD EACH TEST 10 MINUTES.
	5:00 6:00			DRLPRD	13		P	8,465.0
5/21/2015	6:00 6:30	0.50	CASINT1	12		P	8,465.0	SERVICE RIG & TD. CLEANED FLOOR & PREPARED TO PU BHA & 4" DP.
	6:30 16:30	10.00	CASINT1	14		P	8,465.0	PU BHA & 4" XT 39 DP. TIH T/ 8,300'.
	16:30 19:00	2.50	CASINT1	42		P	8,465.0	S & C DRILL LINE. ADJUST BRAKES.
	19:00 19:30	0.50	CASINT1	31		P	8,465.0	PRE FIT CASING TEST (1900 PSI).
	19:30 20:30	1.00	CASINT1	32		P	8,465.0	DRILL FE & CMT.
	20:30 21:00	0.50	DRLPRD	07		P	8,465.0	DRILLED F/ 8,465' T/ 8,475'.
	21:00 21:30	0.50	DRLPRD	15		P	8,465.0	CIRC BU.
	21:30 22:00	0.50	DRLPRD	33		P	8,465.0	PREFORMED FIT. 12.8 PPG EMW. PUMPED INTO FORMATION @ 745 PSI W/ 11.1 PPG MW.
22:00 2:30	4.50	DRLPRD	07		P	8,465.0	DRILLED F/ 8,475' T/ 8,803'.	

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	2:30 3:00	0.50	DRLPRD	12		P	8,475.0	SERVICED RIG & TD.
	3:00 4:30	1.50	DRLPRD	07		P	8,475.0	DRILLED F/ 8,803' T/ 8,991'.
	4:30 5:00	0.50	DRLPRD	15		P	8,991.0	CIRC BU.
	5:00 6:00	1.00	DRLPRD	11		P	8,991.0	RUN WIRELINE SVY @ 8,959'.
5/22/2015	6:00 6:30	0.50	DRLPRD	11		P	8,991.0	FINISHED RUNNING WIRELINE SVY @ 8,959'. 2.0 DEGREES
	6:30 16:00	9.50	DRLPRD	07		P	8,991.0	DRILLED F/ 8,991' T/ 9,653'.
	16:00 16:30	0.50	DRLPRD	12		P	9,653.0	SERVICE RIG & TD UNIT.
	16:30 1:30	9.00	DRLPRD	07		P	9,653.0	DRILLED F/ 9,653' T/ 10,412'.
5/23/2015	1:30 2:00	0.50	DRLPRD	12		P	10,412.0	SERVICE RIG & TD UNIT.
	2:00 6:00	4.00	DRLPRD	07		P	10,412.0	DRILLED F/ 10,412' T/ 10,635'.
	6:00 14:00	8.00	DRLPRD	07		P	10,635.0	DRILLED F/ 10,635' T/ 11,118'. TD @ 14:00 HRS 05/22/15.
	14:00 14:30	0.50	DRLPRD	12		P	11,118.0	SERVICED RIG & TD.
	14:30 15:30	1.00	DRLPRD	15		P	11,118.0	SIMULATE CONN, CIRC BU. MAX GAS 619 UNITS (PASON), 38 UNITS (3RD PARTY). CHECKED FLOW (NEG).
	15:30 19:00	3.50	EVLPRD	13		P	11,118.0	WIPER TRIP. PUMPED OUT FIRST 5 STANDS. CHECK FLOW (NEG). PUMPED SLUG. POOH T/ 8,465'. CHECKED FLOW (NEG). BREAK CIRC. TIH T/ 11,118'.
	19:00 22:00	3.00	EVLPRD	15		P	11,118.0	CIRC BU. MAX GAS 8816 UNITS (PASON), 2857 UNITS (3RD PARTY). MUD CUT 10.9 PPG F/ 12.0 PPG. 4-8' FLARE FOR 30 MIN. NO GAINS OR LOSSES. RAISED MW F/ 12.0 PPG T/ 12.2 PPG. CHECKED FLOW (NEG). PUMPED SLUG.
5/24/2015	22:00 5:00	7.00	EVLPRD	13		P	11,118.0	POOH FOR LOGGING & CSG OPS. LD 2 JOINTS, PULLED 20 STANDS (9,212'). CHECKED FLOW (NEG), DROP RABBIT. POOH. LD STAB & BIT. CHECKED FLOW @ 11,118', 9,212', 8,465', 5,500', 2,000', & BHA.
	5:00 6:00	1.00	EVLPRD	22		P	11,118.0	RU HES LOGGING UNIT & LOGGING W/ HES RUN ULTRA SLIM QUAD COMBO.
	6:00 11:30	5.50	EVLPRD	22		P	11,118.0	LOGGING W/ HES RUN ULTRA SLIM QUAD COMBO & RD. REDUCED MW F/ 12.2 PPG T/ 11.8 PPG IN PITS.
	11:30 16:30	5.00	CASPRD1	24		P	11,118.0	PJSM. RU & RAN 67 JTS 5" 18# P-110HC STL LINER. 2 MARKER JT. MADE UP VERSAFLEX LINER HANGER ASSEMBLY & SETTING TOOL.
5/24/2015	16:30 17:30	1.00	CASPRD1	15		P	11,118.0	INSTALLED ROTATING ELEMENT. CIRC 11.8 PPG AROUND @ 2.5 BPM. RD CSG CREW.
	17:30 6:00	12.50	CASPRD1	24		P	11,118.0	TIH W/ 5" LINER ON 4" DP @ 75 FPM TO 8,495'. RUN IN OPEN HOLE @ 60 FPM. BREAK CIRC EVERY 1,000'. CBU @ 2,000' @ 2.5 BPM. MAX GAS 7100 UNITS, 9/10 MC, 4-6' FLARE. NO MUD LOSSES. PRESENT DEPTH @ REPORT TIME 10,389'. TAG BTM WITH 10K. SPACED OUT & RU CMT HEAD.
	6:00 6:30	0.50	CASPRD1	24		P	11,118.0	TIH @ 60 FPM WITH 5" LINER ON 4" DP @ 11,118. TAG BTM WITH 10K. SPACED OUT & RU CMT HEAD.
5/25/2015	6:30 9:30	3.00	CASPRD1	15		P	11,118.0	CIRC 2X BU. 1- 2.5 BPM, MAX GAS 6,993 UNITS, 9/10 MC. 6' FLARE, NO GAIN. FINAL CIRC PRESSURE 402 PSI @ 2.5 BPM.
	9:30 11:00	1.50	CASPRD1	25		P	11,118.0	RU HES & TESTED LINES TO 8,500 PSI. PUMPED 20 BBLS 12 PPG TUNED SPACER & 320 SKS (87 BBLS) 14.2 PPG WITH 1.52 YIELD EXPANDACEM CMT @ 45% EXCESS. WASHED LINES. DROPPED DP DART. PUMPED 60 BBLS H2O WITH 2% KCL 0.1 % BIOCID, 73 BBLS 11.8 PPG MUD. BUMP PLUG @ 11:54 5-24-15 WITH 2,621 PSI. FLOATS HELD, BLEED BACK 1 BBL. NO LOSSES.
	11:00 12:00	1.00	CASPRD1	25		P	11,118.0	RELEASED BALL, RUPTURE DISC @ 5,300 PSI. PUMPED 44.4 BBLS, PRESSURED TO 6,600 PSI, EXPANDED HANGER. PULL TESTED LINER WITH 80K OVERPULL. SAT DOWN 70K, RELEASED SETTING TOOL FROM LINER HANGER. LANDED FS @ 11,114', FC @ 11,068", LC @ 11,026'. TOL @ 8,318'. 144' OF LAP. TOTAL LINER 2,794". MARKER JTS TOP @ 10,152', 9,157'.

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	12:00 13:00	1.00	CASPRD1	15		P	11,118.0	PULLED UP TO TOL. OBSERVED 1 OVERPULL OF 4K THROUGH CLAD SECTION. CIRC 1.5 TIMES ANNULAR VOLUME. 20 BBL'S SPACER & 22 BBL'S WEIGHTED CEMENT TO SURFACE. FC, WELL STATIC. POSITIVE TEST TOL TO 1,000 PSI FOR 10MIN, GOOD TEST.
	13:00 16:00	3.00	CASPRD1	15		P	11,118.0	DISPLACED HOLE WITH WATER 300 BBL'S. THEN 300 BBL'S BIOCIDES & CLAY WEB. CHECKED FLOW. RD HES & CEMENT HEAD.
	16:00 4:30	12.50	CASPRD1	14		P	11,118.0	LD DP & LAY DOWN LINER SITTING TOOL. RUN DC'S & DP OUT OF DERRICK. LD DP & DC'S. CLEANED MUD TANKS.
	4:30 6:00	1.50	CASPRD1	29		P		PJSM. ND BOPE.
5/26/2015	6:00 11:00	5.00	CASPRD1	29		P	11,118.0	ND BOPE.
	11:00 12:00	1.00	CASPRD1	27		P	11,118.0	INSTALL TBG HEAD & FRAC VALVE. TESTED HEAD TO 5,000 PSI FOR 15 MIN. RIG RELEASED @ 12:00 HRS 05/25/15.
	12:00 6:00	18.00	RDMO	02		P	11,118.0	PJSM. RD & PREP RIG FOR MOVE TO THE WOODWARD 4-14C4.

Table of Contents

1	General.....	1
1.1	Customer Information.....	1
1.2	Well Information.....	1
2	Summary.....	1
2.1	Operation Summary.....	1

CENTRAL DIVISION

ALTAMONT FIELD
WHITE TRUST 3-23C5
WHITE TRUST 3-23C5
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 TRUST 3-23C5		
Project	ALTAMONT FIELD	Site	WHITE TRUST 3-23C5
Rig Name/No.		Event	COMPLETION LAND
Start date	6/22/2015	End date	
Spud Date/Time	5/13/2015	UWI	WHITE TRUST 3-23C5
Active datum	KB @5,795.9ft (above Mean Sea Level)		
Afe No./Description	161314/54080 / WHITE TRUST 3-23C5		

2 Summary

2.1 Operation Summary

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
6/5/2015	14:30 16:30	2.00	MIRU	01		P		MOVE RIG TO LOCATION & RIG UP.
	16:30 17:30	1.00	WOR	16		P		NU BOP & RU WORK FLOOR
	17:30 19:00	1.50	WOR	24		P		MU BIT, BIT SUB & PU 90 JTS 2-3/8"EUE TBG, X-OVER & 1 JT 2-7/8"EUE TBG
6/6/2015	6:00 7:30	1.50	WOR	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON PICKING UP TBG. FILL OUT & REVIEW JSA
	7:30 11:00	3.50	WOR	24		P		CONTINUE TIH PICKING UP 248 JTS TBG. TAG FILL @ 10976'.
	11:00 11:30	0.50	WOR	18		P		RU POWER SWIVEL
	11:30 15:00	3.50	WOR	10		P		BREAK REVERSE CIRCULATION. CLEAN OUT TO LANDING COLLAR @ 11053' (SLM). CIRCULATE HOLE CLEAN W/ 491 TTL BBLs TREATED 2% KCL WTR. RD POWER SWIVEL.
6/9/2015	15:00 18:00	3.00	WOR	24		P		TOOH LAYING DOWN 169 JTS 2-7/8"EUE TBG. SDFN W/ TIW VALVE SHUT IN & CAPPED, CSG VALVES SHUT & CAPPED & PIPE RAMS CLOSED & LOCKED.
	6:00 7:00	1.00	WOR	28		P		CREW TRAVEL TO LOCATION. HSM, WRITE AND REVIEW JSA. TOPIC-TRIPPING PIPE AND HAND PLACEMENT
	7:00 10:00	3.00	WOR	39		P		POOH W 50 JTS 2 7/8" TBG, X OVER, 90 JTS 2 3/8" TBG, BIT SUB AND 4 1/8" ROCK BIT.
	10:00 11:00	1.00	RDMO	02		P		RDMOL W WOR.
6/10/2015	11:00 16:00	5.00	WLWORK	37		P		MIRU CUTTERS WIRELINE. RUN CBL W 4000 PSI ON WELL. RDMOL WIRELINE.
	6:00 6:30	0.50	SITEPRE	28		P		HELD SAFETY MEETING ON MOVING FRAC TANKS FILLED OUT JSA.
6/11/2015	6:30 19:00	12.50	SITEPRE	18		P		STARTED HAULING FRAC TANKS AND WATER
	6:00 6:30	0.50	SITEPRE	28		P		HELD SAFETY MEETING ON HAULING WATER. FILLED OUT JSA.
6/12/2015	6:00 7:30	1.50	WHDTRE	28		P		CREW TRAVEL HELD SAFETY MEETING ON PRESSURE TESTING CSG. FILLED OUT JSA.
	7:30 12:00	4.50	WHDTRE	16		P		(CONTINUED HAULING WATER) PRESSURE TEST CSG @ 9000 PSI FOR 30 MINS HELD. NU FRAC VALVES AND PRESS TESTED @ 10000 PSI HELD. RAN FLOW BACK LINES. WATER TRANSFER LINES AND MANIFOLD.

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	12:00 16:00	4.00	WLWORK	21		P		MIRU WIRELINE PERFORATED STAGE #1 FROM 10953' TO 10620'. ALL PERFS CORRELATED TO CUTTERS RADIAL CBL, GAMMA RAY, CCL LOG RUN #1 DATED 08-JUNE-2015. 23 NET FT. 69 SHOTS. 2 3/4" GUNS, 16 GM CHARGES, 3 SPF, 120 PHASING. STARTING PRESSURE 1000 PSI. FINAL PRESSURE 700 PSI. RD WIRELINE. CLOSED IN WELL CLOSED AND LOCKED FRAC VALVES CLOSED CSG VALVES AND INSTALL NIGHT CAPS. RAN WATER TRANSFER LINES AND MANIFLOD)
	16:00 19:00	3.00	SITEPRE	18		P		CONTINUED HAULING WATER.
6/13/2015	6:00 7:30	1.50	SITEPRE	28		P		CREW TRAVEL HELD SAFETY MEETING ON TRANSFERRING. FILLED OUT JSA WATER
	7:30 11:00	3.50	SITEPRE	18		P		TRANSFERRED WATER THRU CHLORINE DIOXIDE UNIT. CONTINUED HAULING WATER
	11:00 18:00	7.00	SITEPRE	18		P		CONTINUED HAULING WATER.
6/14/2015	6:00 7:30	1.50	SITEPRE	28		P		CREW TRAVEL HELD SAFETY MEETING ON HEATING FRAC WATER FILLED OUT JSA.
	7:30 18:00	10.50	SITEPRE	18		P		HEAT FRAC WATER.
6/15/2015	6:00 7:30	1.50	MIRU	28		P		HELD SAFETY MEETING ON RIGGING UP FRAC EQUIPMENT. FILLED OUT JSA.
	7:30 12:30	5.00	MIRU	01		P		MIRU FRAC EQUIPMENT. FINISHED HEATING WATER
6/16/2015	6:00 7:00	1.00	STG01	28		P		HELD SAFETY MEETING ON PUMPING HIGH PRESSURE. FILLED OUT JSA. STRATED EQUIPMENT
	7:00 8:45	1.75	STG01	35		P		PRESSURE TEST LINES @ 9500 PSI. OPENED UP WELL W/ 2200 PSI. BREAK DOWN STAGE # 1 PERFS @ 4299 PSI, 5 BPM, 10 BBLs PUMPED. EST INJ RATE 30.5 BPM, 4927 PSI. STEP RATE TEST 7 OPEN PERFS. I.S.I.P. 3963 PSI. F.G. .761, 5 MIN 3381 PSI, 10 MIN 3339 PSI. TREATED PERFS W/ 5000 GALS 15% HCL ACID. PUMPED 3000 LBS 100 MESH IN 1/2 PPG STAGE AND 154240 LBS THS 30/50. IN .5#, 1#, 2# AND 3# STAGES. AVG RATE 75 BPM, MAX RATE 75.9 BPM. AVG PRESS 4808, MAX PRESS 7228. I.S.I.P. 3782 PSI. F.G. .784. SHUT WELL IN 3784 BBLs TO RECOVER. TURNED WELL OVER TO WIRELINE
	8:45 12:20	3.58	STG02	21		P		MIRU WIRELINE RIH STILL HAD THICK GEL. PULLED ABOVE LINER AND WAITED 45 MIN. SET CBP @ 10593' W/ 3400 PSI. PRESSURE TEST CBP TO 5000 PSI. FOR 5 MINS HELD. PERFORATED STAGE #2 FROM 10578' TO 10291'. ALL PERFS CORRELATED TO CUTTERS RADIAL CBL, GAMMA RAY, CCL LOG RUN #1 DATED 08-JUNE-2015. 23 NET FT. 69 SHOTS. 2 3/4" GUNS, 16 GM CHARGES, 3 SPF, 120 PHASING. STARTING PRESSURE 5000 PSI. FINAL PRESSURE 3000 PSI.
	12:20 13:40	1.33	STG02	35		P		PRESSURE TEST LINES @ 9588 PSI. OPENED UP WELL W/ 2935 PSI. BREAK DOWN STAGE # 2 PERFS @ 3623 PSI, 10 BPM, 15 BBLs PUMPED. EST INJ RATE 39.3 BPM, 4320 PSI. STEP RATE TEST 10 OPENED PERFS. I.S.I.P. 3474 PSI. F.G. .766, 5 MIN 3342 PSI, 10 MIN 3308 PSI. TREATED PERFS W/ 5000 GALS 15% HCL ACID. PUMPED 3000 LBS 100 MESH IN 1/2 PPG STAGE AND 150000 LBS TLC 30/50. IN .5#, 1#, 2# AND 3# STAGES. AVG RATE 75 BPM, MAX RATE 76 BPM. AVG PRESS 4578, MAX PRESS 6854. I.S.I.P. 3704 PSI. F.G. .788. SHUT WELL IN 3774 BBLs TO RECOVER. TURNED WELL OVER TO WIRELINE
	13:40 15:15	1.58	STG03	21		P		MIRU WIRELINE. SET CBP @ 10224' W/ 3600 PSI. PRESSURE TEST CBP TO 5100 PSI. FOR 5 MINS HELD. PERFORATED STAGE #3 FROM 10209' TO 9901'. ALL PERFS CORRELATED TO CUTTERS RADIAL CBL, GAMMA RAY, CCL LOG RUN #1 DATED 08-JUNE-2015. 23 NET FT. 69 SHOTS. 2 3/4" GUNS, 16 GM CHARGES, 3 SPF, 120 PHASING. STARTING PRESSURE 5100 PSI. FINAL PRESSURE 3700 PSI.

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	15:15 17:15	2.00	STG03	35		P		PRESSURE TEST LINES @ 9240PSI. OPENED UP WELL W/ 3670 PSI. BREAK DOWN STAGE # 3 PERFS @ 3994 PSI, 10 BPM, 8 BBLS PUMPED. EST INJ RATE 43.7 BPM, 4570 PSI. STEP RATE TEST 12 OPEN PERFS. I.S.I.P. 3636 PSI. F.G. .795, 5 MIN 3591 PSI, 10 MIN 3579 PSI. SHUT DOWN 20 MINS TO WORK ON DENSOMETER TREATED PERFS W/ 5000 GALS 15% HCL ACID. PUMPED 3000 LBS 100 MESH IN 1/2 PPG STAGE AND 150100 LBS TLC 30/50. IN .5#, 1#, 2# AND 3# STAGES. AVG RATE 75.7 BPM, MAX RATE 76.4 BPM. AVG PRESS 4830, MAX PRESS 6662. I.S.I.P. 3782 PSI. F.G. .809. SHUT WELL IN 3779 BBLS TO RECOVER. TURNED WELL OVER TO WIRELINE
	17:15 19:00	1.75	STG04	21		P		RU WIRELINE. SET CBP @ 9871' W/ 3600 PSI. PRESSURE TEST CBP TO 5100 PSI. FOR 5 MINS HELD. PERFORATED STAGE #4 FROM 9856' TO 9595'. ALL PERFS CORRELATED TO CUTTERS RADIAL CBL, GAMMA RAY, CCL LOG RUN #1 DATED 08-JUNE-2015. 23 NET FT. 69 SHOTS. 2 3/4" GUNS, 16 GM CHARGES, 3 SPF, 120 PHASING. STARTING PRESSURE 5100 PSI. FINAL PRESSURE 3200 PSI. CLOSED IN WELL. CLOSED AND LOCKED FRAC VALVES, CLOSED CSG VALVES AND INSTALLED NIGHT CAPS.
6/17/2015	6:00 6:30	0.50	STG04	28		P		HELD SAFETY MEETING ON PUMPING HIGH PRESSURE. FILLED OUT JSA PRIMED UP PUMPS AND PRESSURE TESTED LINES
	6:30 7:30	1.00	STG04	35		P		PRESSURE TEST LINES @ 9540 PSI. OPENED UP WELL W/ 3209 PSI. BREAK DOWN STAGE # 4 PERFS @ 4011 PSI, 10 BPM, 12 BBLS PUMPED. EST INJ RATE 44 BPM, 4802 PSI. STEP RATE TEST 11 OPEN PERFS. I.S.I.P. 3260 PSI. F.G. .768, 5 MIN 2954 PSI, 10 MIN 2836 PSI 15 MIN 2753. TREATED PERFS W/ 5000 GALS 15% HCL ACID. PUMPED 3000 LBS 100 MESH IN 1/2 PPG STAGE AND 150400 LBS TLC 30/50. IN .5#, 1#, 2# AND 3# STAGES. AVG RATE 75 BPM, MAX RATE 80.9 BPM. AVG PRESS 4451, MAX PRESS 6574. I.S.I.P. 3776 PSI. F.G. .821. SHUT WELL IN 3833 BBLS TO RECOVER. TURNED WELL OVER TO WIRELINE
	7:30 11:30	4.00	STG05	26		N		RU WIRELINE RIH SET CBP @ 9584' W/ 3200 PSI PRESSURE TEST CBP 4700 PSI TWICE . LOST 200 PSI IN 5 MINS. CLOSED GROUND STILL LOST 200 PSI IN 5 MIN. PULLED OUT RIH W/ 2ND CBP SET CBP TAGGED @ 9520' WORKED IT TO 9530'. REAL STICKY. PULLED ABOVE LINER PRESSURE UP ON WELL TO 6100' HELD PRESSURE FOR 5 MIN. BLED DOWN WELL TO 2400 PSI. PULLED OUT LD CBP SETTING TOOL AND BTM 3 SHOTS
	11:30 13:00	1.50	STG05	21		P		PERFORATED STAGE #5 FROM 9518' TO 9336' DROPPED BTM 3 INTERVALS DUE TO SAND. ALL PERFS CORRELATED TO CUTTERS RADIAL CBL, GAMMA RAY, CCL LOG RUN #1 DATED 08-JUNE-2015. 17 NET FT. 51SHOTS. 2 3/4" GUNS, 16 GM CHARGES, 3 SPF, 120 PHASING. STARTING PRESSURE 2400 PSI. FINAL PRESSURE 2200 PSI. TURNED WELL OVER TO FRAC CREW.
	13:00 14:30	1.50	STG05	35		P		PRESSURE TEST LINES @ 9426 PSI. OPENED UP WELL W/ 2082 PSI. BREAK DOWN STAGE # 5 PERFS @ 4125 PSI, 10.1 BPM, 15 BBLS PUMPED. EST INJ RATE 44 BPM, 4320 PSI. STEP RATE TEST 12 OPEN PERFS. I.S.I.P. 3490 PSI. F.G. .802, 5 MIN 3226 PSI, 10 MIN 2948. TREATED PERFS W/ 5000 GALS 15% HCL ACID. PUMPED 3000 LBS 100 MESH IN 1/2 PPG STAGE AND 150300 LBS TLC 30/50. IN .5#, 1#, 2# AND 3# STAGES. AVG RATE 74.9 BPM, MAX RATE 78.9 BPM. AVG PRESS 4658, MAX PRESS 6133. I.S.I.P. 3490 PSI. F.G. .849. SHUT WELL IN 3850 BBLS TO RECOVER. TURNED WELL OVER TO WIRELINE

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	14:30 16:00	1.50	STG06	21		P		RU WIRELINE RIH SET CBP @ 9304' W/ 3400 PSI PRESSURE TEST CBP 5000 PSI FOR 5 MINS HELD. PERFORATED STAGE # 6 FROM 9289' TO 9019'. ALL PERFS CORRELATED TO CUTTERS RADIAL CBL, GAMMA RAY, CCL LOG RUN #1 DATED 08-JUNE-2015. 23 NET FT. 69 SHOTS. USING 2 3/4" GUNS, 16 GM CHARGES, 3 SPF, 120 PHASING. STARTING PRESSURE 5000 PSI. FINAL PRESSURE 3500 PSI. PULLING OUT GOT STUCK IN LUBRICATOR.
	16:00 20:00	4.00	STG05	55		N		WHILE PULLING OUT W/ PERF GUN GOT STUCK IN LUBRICATOR W/ 5600' LINE LEFT IN WELL. BLED PRESSURE FROM 3400 PSI TO 2000 PSI. SHUT IN WELL PRESSURE CLIMBED TO 3400 PSI. TRIED WORKING LINE FREE UNSUCCESSFUL. SHUT WIRELINE BOP. BLED DOWN LUBRICATOR. CLAMPED OFF WIRLINE. CLEANED OUT GREASE TUBES. UNCLAMPED CABLE EQUALIZED LUBRICATOR. RIH 200'. BREAK DOWN STAGE 6 @ 5.7 BPM @ 4351 PSI CONTINUED PUMPING 50 BBLS @ 8 BPM. TRIED PULLING OUT STARTED PULLING OVER AGAIN. RIH TO 7500' @ 550 FT PER MIN TO WASH OFF LINE. PULLED OUT WTH PERF GUN. TURNED WELL OVER TO FRAC CREW.
	20:00 22:00	2.00	STG06	35		P		PRESSURE TEST LINES @ 9575 PSI. OPENED UP WELL W/ 3038 PSI. BREAK DOWN STAGE # 6 PERFS @ 4351 PSI, 5.7 BPM, 50 BBLS PUMPED. EST INJ RATE 39.7 BPM, 4787 PSI. STEP RATE TEST 9 OPEN PERFS. I.S.I.P. 3435 PSI. F.G. .808, 5 MIN 3107 PSI, 10 MIN 2979. TREATED PERFS W/ 5000 GALS 15% HCL ACID. PUMPED 3000 LBS 100 MESH IN 1/2 PPG STAGE AND 150400 LBS TLC 30/50. IN .5#, 1#, 2# AND 3# STAGES. WHEN .5# WAS ON PERFS DISCHARGE VALVE ON BLENDER CLOSED HAD TO SHUT DOWN FOR FDEW MINUTES. AVG RATE 66.8 BPM, MAX RATE 75.4 BPM. AVG PRESS 4429, MAX PRESS 6202. I.S.I.P. 3563 PSI. F.G. .822. SHUT WELL IN 3850 BBLS TO RECOVER. TURNED WELL OVER TO WIRELINE CLOSED IN WELL. CLOSED AND LOCKED FRAC VALVES, CLOSED CSG VALVES AND INSTALLED NIGHT CAPS.
6/18/2015	6:00 7:00	1.00	STG07	28		P		CREW TRAVEL HELD SAFETY MEETING ON PERFORATING. FILLED OUT JSA.
	7:00 8:30	1.50	STG07	21		P		RU WIRELINE RIH SET CBP @ 9002' W/ 2000 PSI. PRESSURE TEST CBP 3500 PSI FOR 5 MINS HELD. PERFORATED STAGE # 7 FROM 8718' TO 8987'. ALL PERFS CORRELATED TO CUTTERS RADIAL CBL, GAMMA RAY, CCL LOG RUN #1 DATED 08-JUNE-2015. 23 NET FT. 69 SHOTS. USING 2 3/4" GUNS, 16 GM CHARGES, 3 SPF, 120 PHASING. STARTING PRESSURE 3500 PSI. FINAL PRESSURE 2000 PSI. TURNED WELL OVER TO FRAC CREW
	8:30 10:15	1.75	STG07	35		P		PRESSURE TEST LINES @ 9450 PSI. OPENED UP WELL W/ 2188 PSI. BREAK DOWN STAGE # 7 PERFS @ 2828 PSI, 9.9 BPM, 12 BBLS PUMPED. EST INJ RATE 44.5 BPM, 3996 PSI. STEP RATE TEST 13 OPEN PERFS. I.S.I.P. 2730 PSI. F.G. .741, 5 MIN 2096 PSI, 10 MIN 1953 PSI. TREATED PERFS W/ 5000 GALS 15% HCL ACID. PUMPED 3000 LBS 100 MESH IN 1/2 PPG STAGE AND 150500 LBS TLC 30/50. IN .5#, 1#, 2# AND 3# STAGES. AVG RATE 74.6 BPM, MAX RATE 75.3 BPM. AVG PRESS 4147, MAX PRESS 5995. I.S.I.P. 4555 PSI. F.G. .948. SHUT WELL IN 3784 BBLS TO RECOVER. TURNED WELL OVER TO WIRELINE
	10:15 13:00	2.75	WLWORK	55		N		RIH W/ PERF GUN AND CBP UNABLE TO GET IN LINER BECAUSE THICK GEL. WAIT TOTAL 2 1/2 HRS GEL STILL NOT BROKE. PULLED UP HOLE. PUMPED 30 BBLS @ 3.3 BPM MAX PRESS 4043.

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	13:00 14:00	1.00	STG08	21		P		SET CBP @ 8713' W/ 3300 PSI. PRESSURE TEST CBP 4800 PSI FOR 5 MINS HELD. PERFORATED STAGE # 8 FROM 8698' TO 8470'. ALL PERFS CORRELATED TO CUTTERS RADIAL CBL, GAMMA RAY, CCL LOG RUN #1 DATED 08-JUNE-2015. 23 NET FT. 69 SHOTS. USING 2 3/4" GUNS, 16 GM CHARGES, 3 SPF, 120 PHASING. STARTING PRESSURE 3300 PSI. FINAL PRESSURE 2300 PSI. TURNED WELL OVER TO FRAC CREW
	14:00 15:30	1.50	STG08	35		P		PRESSURE TEST LINES @ 9525 PSI. OPENED UP WELL W/ 1974 PSI. BREAK DOWN STAGE # 8 PERFS @ 3037 PSI, 10.1 BPM, 8 BBLS PUMPED. EST INJ RATE 44.4 BPM, 3581 PSI. STEP RATE TEST 14 OPEN PERFS. I.S.I.P. 2646 PSI. F.G. .741, 5 MIN 2287 PSI, 10 MIN 2216 PSI. TREATED PERFS W/ 5000 GALS 15% HCL ACID. PUMPED 3000 LBS 100 MESH IN 1/2 PPG STAGE AND 149220 LBS TLC 30/50. IN .5#, 1#, 2# AND 3# STAGES. AVG RATE 74.8 BPM, MAX RATE 75.3 BPM. AVG PRESS 4347, MAX PRESS 5698. I.S.I.P. 2930 PSI. F.G. .774. SHUT WELL IN 3789 BBLS TO RECOVER. TURNED WELL OVER TO WIRELINE
	15:30 18:30	3.00	RDMO	02		P		RD FRAC EQUIPMENT AND MOVE OFF LOCATION.
6/19/2015	18:30 21:30	3.00	MIRU	01		P		MOVE IN AND PARTAILLY RU COIL TBG. SDFN.
	6:00 6:30	0.50	CTU	28		P		HELD SAFETY MEETING ON OVERHEAD HAZARDS AND PINCH POINTS. FILLED OUT JSA.
	6:30 8:00	1.50	MIRU	01		P		FINISH RIGGING UP COIL TBG. MADE UP DRILL OUT ASSEMBLY W/ 4 1/8 JZ ROCK BIT. PRESSURE TEST @ 9000 PSI. OPENED WELL W/ 1200 PSI.
	8:00 18:30	10.50	CTU	10		P		RIH PUMPING 1/2 BPM AND RETURNING 1/2 BPM. TO LINER TOP @ 8310'. INCREASED RATE TO PUMPING 2 1/2 BPM AND RETURNING 3 1/2 BPM. DRILLED OUT CBPs @ 8713', 9002', 9304', 9584', 9871', 10224' AND 10593'. CLEANED OUT TO PBTD @ 11026' (11051' COIL MEASUREMENT) CIRCULATE CLEAN ON BTM FOR 1 HR, PULLED OUT TO LINER TOP CIRCULATE CLEAN FOR 1 HR. PULLED OUT. BUMPED UP.
	18:30 21:00	2.50	CTU	18		P		LD BHA. BLEW COIL DRY. RD COIL TUBING EQUIPMENT. INSTALLED NIGHT CAP CLOSED TOP HCR VALVE OPENED WELL TO FLOWBACK TANK ON 14/64 CHOKE W/ PSI.
	21:00 4:30	7.50	FB	19		P		OPENED WELL @ 9:00 ON 14/64 BUMPED CHOKE BACK TO 12/ 64 CHOKE @ 10:00 2000 PSI ON 12/64 CHOKE, RECOVERED 0 MCF, 0 BBLS OIL AND 331BBLS H2O.
6/20/2015	6:00 6:30	0.50	FB	28		P		HELD SAFETY MEETING ON FLOWBACK PROCEDURES. FILLED OUT JSA
	6:30 6:00	23.50	FB	19		P		1800 PSI, 12 CHOKE, RECOVERED 59 MCF, 49 BBLS OIL AND 812 BBLS H2O.
6/21/2015	6:00 6:30	0.50	FB	28		P		HELD SAFETY MEETING ON FLOW BACK PROCEDURES. FILLED OUT JSA.
	6:30 6:00	23.50	FB	19		P		1900 PSI, 12 CHOKE, RECOVERED 245 MCF, 278 BBLS OIL AND 513 BBLS H2O.
6/22/2015	6:00 6:30	0.50	FB	28		P		HELD SAFETY MEETING ON FLOWBACK PROCEDURES FILLED OUT JSA.
	6:30 6:00	23.50	FB	19		P		1975 PSI, 12 CHOKE, RECOVERED 303 MCF, 354 BBLS OIL AND 385 BBLS H2O.
6/23/2015	6:00 7:30	1.50	WLWORK	28		P		CREW TRAVEL HELD SAFETY MEETING ON RIGGING UP WIRELINE FILLED OUT JSA.
	7:30 10:00	2.50	WLWORK	27		P		RU WIRELINE PRESSURE TEST LUBRICATOR TO 4000 PSI HELD, RIH SET PKR W/ PUMP OUT PLUG AND PLUG CATHER @ 8430' TO CENTER ELEMENT.

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	10:00 12:30	2.50	WOR	16		P		STARED BLEEDING DOWN WELL. ND WIRELINE FLANGE, GOATHEAD, 5" HCR VALVE, CROSS FLOW, 5" HCR VALVE AND SPOOL. NU BOP.
	12:30 13:30	1.00	MIRU	01		P		MIRU RIG. FINISHED BLEDDING DOWN WELL. RECOVERED 191 MCF, 117 BBLS OIL AND 114 BBLS H2O.
	13:30 17:30	4.00	WOR	39		P		RIH W/ 5" PKR, 5-JTS 2 3/8 L-80 EUE TBG, X-OVER AND 248 JTS 2 7/8 L-80 EUE TBG.EOT @ 8270'. CLOSED IN WELL CLOSED TIW VALVE AND INSTALLED NIGHT CAP, CLOSED CSG VALVE AND INSTALLED NIGHT CAPS. SDFN.
6/24/2015	6:00 7:30	1.50	WOR	28		P		CREW TRAVEL HELD SAFETY MEETING ON PICKING UP TUBING. FILLED OUT JSA.
	7:30 8:00	0.50	WOR	39		P		OTSIP, OCSIP. CONTINUED RIH W/ 6-JTS 2 7/8 L-80 EUE TBG. TAGGED WIRELINE SET PKR @ 8446' TBG MEASURMENT. RU PUMP LINE.
	8:00 10:00	2.00	WOR	06		P		CIRCULATE WELL CLEAN W/ 335 BBLS PKR FLUID.
	10:00 13:00	3.00	WOR	16		P		SET PKR @ 8410' W/ 10K TENSION. LANDED TBG W/ 6' TBG SUB AND TBG HANGER W/ TIW VALVE IN TBG HEAD, PRESSURE TEST CSG @ 1000 PSI FOR 15 MIN HELD. ND BOP AND FRAC VALVE. REMOVED TIW VALVE INSTALLED BPV. NIPPLED UP PRODUCTION TREE AND FLOW LINE. REMOVED BPV. INSTALLED TWO WAY CHECK. PRESSURE TEST WELLHEAD AND FLOW LINE @ 5000 PSI HELD. REMOVED TWO WAY CHECK. PUMPED OUT PLUG. OPENED WELL @ 13:00 W/ 1600 PSI ON 14 CHOKE. TURNED WELL OVER TO FLOWBACK CREW.
	13:00 14:00	1.00	RDMO	02		P		RIGGED DOWN RIG CLEANED LOCATION AND GOT READY TO MOVE.

Table of Contents

1	General.....	1
1.1	Customer Information.....	1
1.2	Well Information.....	1
2	Summary.....	1
2.1	Operation Summary.....	1