

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 Winslow 4-1C5								
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 ALAMONT								
4. TYPE OF WELL Oil Well <input checked="" type="checkbox"/> 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') Holly K. Winslow						14. SURFACE OWNER PHONE (if box 12 = 'fee')								
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee') PO Box 3817, Big Bear Lake, CA 92315						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')								
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			19. SLANT VERTICAL <input checked="" type="checkbox"/> DIRECTIONAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/>								
20. LOCATION OF WELL		FOOTAGES		QTR-QTR		SECTION		TOWNSHIP		RANGE		MERIDIAN		
LOCATION AT SURFACE		800 FNL 1800 FEL		NWNE		1		3.0 S		5.0 W		U		
Top of Uppermost Producing Zone		800 FNL 1800 FEL		NWNE		1		3.0 S		5.0 W		U		
At Total Depth		800 FNL 1800 FEL		NWNE		1		3.0 S		5.0 W		U		
21. COUNTY DUCESNE			22. DISTANCE TO NEAREST LEASE LINE (Feet) 800			23. NUMBER OF ACRES IN DRILLING UNIT 80								
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 1200			26. PROPOSED DEPTH MD: 13100 TVD: 13100								
27. ELEVATION - GROUND LEVEL 6012			28. BOND NUMBER 400JU0708			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE Duchesne City								
Hole, Casing, and Cement Information														
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight				
Cond	17.5	13.375	0 - 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 - 9700	29.0	HCP-110 LT&C	10.4	Class G	563	1.91	12.5				
							Class G	292	1.64	13.0				
L1	6.125	5	9500 - 13100	18.0	HCP-110 LT&C	12.8	Class G	206	1.52	14.2				
ATTACHMENTS														
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES														
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER						<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN								
<input checked="" type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)						<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER								
<input type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)						<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP								
NAME Maria S. Gomez			TITLE Principal Regulatory Analyst			PHONE 713 997-5038								
SIGNATURE			DATE 02/12/2015			EMAIL maria.gomez@epenergy.com								
API NUMBER ASSIGNED 43013532690000			APPROVAL  Permit Manager											

**Winslow 4-1C5
Sec. 1, T3S, R5W
DUCHESNE COUNTY, UT**

EP ENERGY E&P COMPANY, L.P.

DRILLING PROGRAM

1. Estimated Tops of Important Geologic Markers

<u>Formation</u>	<u>Depth</u>
Green River (GRRV)	4,728' TVD
Green River (GRTN1)	5,490' TVD
Mahogany Bench	6,384' TVD
L. Green River	7,836' TVD
Wasatch	9,631' TVD
T.D. (Permit)	13,100' TVD

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

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
	Green River (GRRV)	4,728' MD / TVD
	Green River (GRTN1)	5,490' MD / TVD
	Mahogany Bench	6,384' MD / TVD
Oil	L. Green River	7,836' MD / TVD
Oil	Wasatch	9,631' MD / TVD

3. Pressure Control Equipment: (Schematic Attached)

A Diverter Stack on structural pipe from surface to 700' MD/TVD. A Diverter System from 700' MD/TVD to 2,200' MD/TVD on Conductor. A 10M BOP stack w/ rotating head, 5M annular, flex rams, blind rams, mud cross & single w/ flex ram from 2,200' MD/TVD to 9,700' MD/TVD. A 10M BOP stack w/ rotating head, 5M annular, flex rams, blind rams, mud cross & single w/ flex ram from 9,700' MD/TVD to TD (13,100' MD/TVD).

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

We pre-set the Miya 3-6C4 which is 2,512' or 0.476 miles due East of the proposed location and had no issues.

There are 6 SWD wells within 3 miles of the proposed location but none of them are within 0.5 miles. I do not think we will see anything from any of the below wells.

The Rhoades Moon 1-36B5 SWD is 4,941' or 0.936 miles North of the proposed location. It is owned by EP Energy & is an active SWD well. It has been injecting since 2001. The injection interval is from 4114'-5055'. The injection rate averages 7200 bbls/day @ 900 psi (maximum allowable injection pressure is 1400 psi). When the well goes down for maintenance, the pressure dissipates to 600 psi. Using 600 psi, the EMW @ 4114' is 11.4 ppg (the weight of the fluid being injected is ~8.6 ppg). Since this SWD is due North of the proposed location (which means it is not on fracture orientation) & more than 0.75 miles away, I do not think we will see any pressure from this well.

The IWM 3-30B4 SWD well is 8,952' or 1.696 miles North East of the proposed location. The injection interval is @ 4063'-5130'. It has been injecting ~5,000 bbls/day @ 720 psi. IWM owns this well & it is an active SWD well. The shut in pressure is 321 psi. Using 321 psi, the EMW @ 4063' is 10.12 ppg. Since this SWD is North East of the proposed location (which means it is not on fracture orientation) & more than 1.5 miles away, I know we will not see any pressure from this well.

The Blue Bench 1-13C5 SWD is 10,615' or 2.01 miles to the South 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 will not see any pressure from this well since it is 2.01 miles away from the proposed location. We have drilled as close as 0.98 miles to this SWD well (that well is between the SWD & this proposed location) & on fracture orientation and have not seen any pressure while drilling.

The Lindsay Russell 2-32B4 SWD well is 11,801' or 2.235 miles North East of the proposed location. The injection interval is @ 2464'-3726'. It has been injecting between 1600-2000 bbls/day @ 900 psi. We own this well & it is an active SWD well. When it goes down on maintenance or goes down, the pressure dissipates to 20 psi and stays at 20 psi. Using 20 psi, the EMW @ 2464' is 8.76 ppg. Since this SWD is North East of the proposed location (which means it is not on fracture orientation) & more than 2 miles away, I know we will not see any pressure from this well.

The LDS Church 2-27B5 SWD is 13,116' or 2.484 miles North West of the proposed location. It is owned by EP Energy & has been injecting since 11/4/74. It has been injecting at an average of 4,100 bbls/day @ 505 psi. The maximum allowable injection pressure is 550 psi. When it goes down for maintenance, the pressure dissipates to 150 psi. The injection interval is from 2,088'-2,860'. The EMW is 9.98 ppg. Since this SWD is North West of the proposed location (which means it is not on fracture orientation) & more than 2 miles away, I know we will not see any pressure from this well.

The Belcher 2-33B4 SWD is 13,953' or 2.64 miles North East of the proposed location. It is owned by EP Energy & it is a pretty new SWD well (it was converted to a SWD well in 9/2014). The injection interval is from 4,142'-6,230'. It has been injecting at an average of 4,200 bbls/day @ 626 psi. The shut in pressure is 283 psi. The EMW is 9.91 ppg. Since this SWD is North East of the proposed location (which means it is not on fracture orientation) & more than 2.5 miles away, I know we will not see any pressure from this well.

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, 5M annular, flex rams, blind rams, mud cross & single w/ flex ram 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:

Patterson 307 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 (13,100' MD/TVD)
- C) Choke manifold with one manual and one hydraulic operated choke
- D) Full opening floor valve with drill pipe thread
- E) Upper and lower Kelly cock
- F) Shaker, de-sander and centrifuge

4. Proposed Casing & Cementing Program:

Please refer to the attached Wellbore Diagram.

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

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

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

5. **Drilling Fluids Program:**

Proposed Mud Program:

Interval	Type	Mud Weight
Surface	Air	Air
Intermediate	WBM	9.3 – 10.4
Production	WBM	11.0 – 12.8

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 (13,100' MD/TVD)

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

7. **Abnormal Conditions:**

Maximum anticipated bottomhole pressure calculated at 13,100' TVD equals approximately 8,719 psi. This is calculated based on a 0.6656 psi/ft gradient (12.8 ppg mud density at TD).

Maximum anticipated surface pressure equals approximately 5,837 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/ft).

Maximum anticipated surface pressure based on frac gradient at 7" casing shoe is 0.8 psi/ft at 9,700' TVD = 7,760 psi

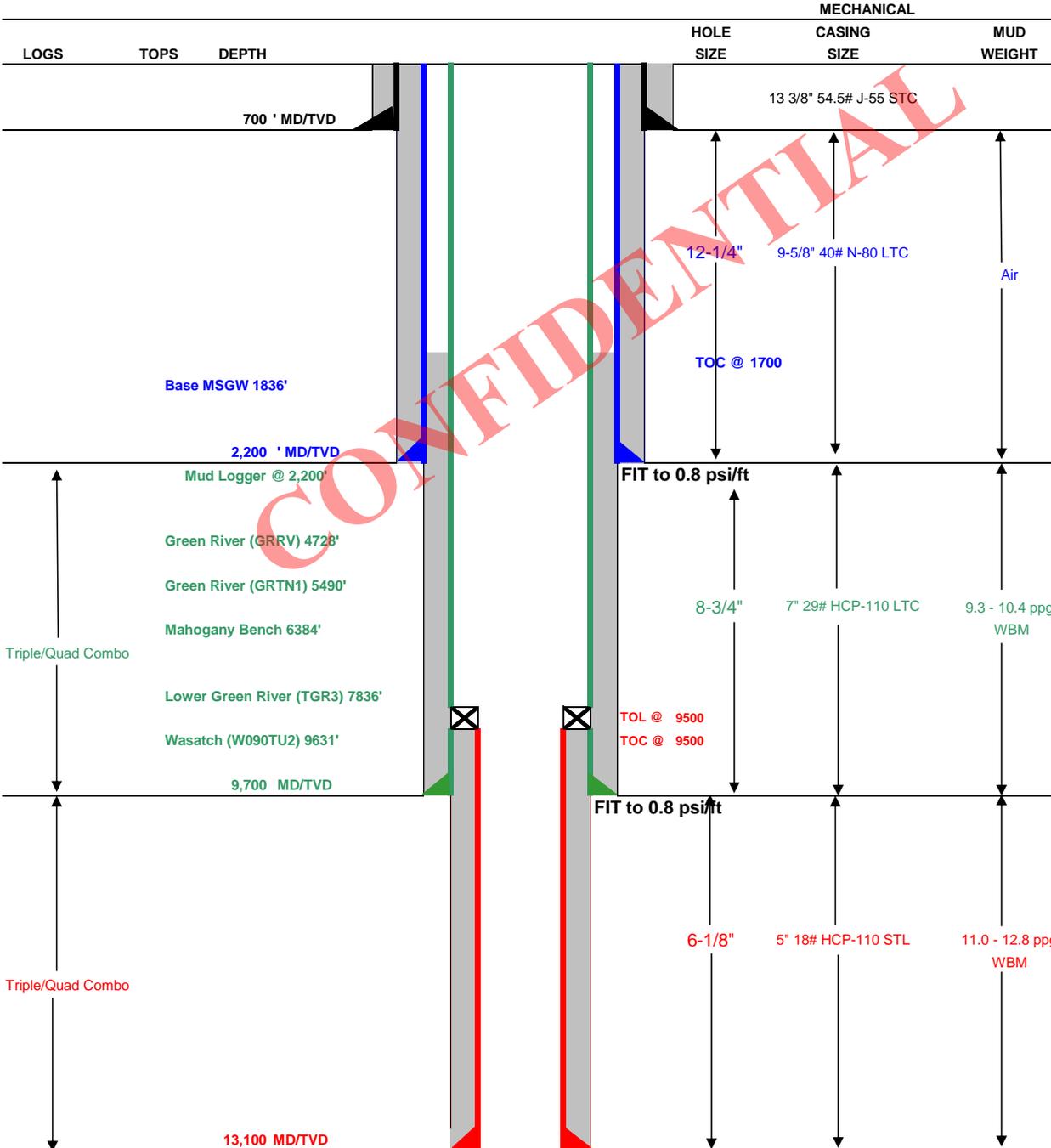
BOPE and casing design will be based on the lesser of the two MASPs which is 5,837 psi.

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



Drilling Schematic

Company Name: EP ENERGY	Date: January 16, 2015
Well Name: Winslow 4-1C5	TD: 13,100
Field, County, State: Altamont, Duchesne, Utah	AFE #: TBD
Surface Location: Sec 1 T3S R5W 800' FNL 1800' FEL	BHL: Straight Hole
Objective Zone(s): Green River, Wasatch	Elevation: 6012
Rig: Patterson 307	Spud (est.): TBD
BOPE Info: Diverter Stack from 700' to 2,200'. 11 10M BOP stack w/ rotating head & 5M annular from 2,200' to 9,700'. 11 10M BOP stack w/ rotating head, 5M annular, flex rams, blind rams, mud cross & single w/ flex ram from 9,700' to TD	



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	9700	29.00	HCP-110	LTC	11,220	9,750	797
PRODUCTION LINER	5'	9500	13100	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	5,600	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	563	30%	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		3,600	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	206	25%	14.2 ppg	1.52

FLOAT EQUIPMENT & CENTRALIZERS	
CONDUCTOR	PDC drillable guide shoe, 1 joint, PDC drillable float collar. Thread lock all float equipment. Install bow spring centralizers on the bottom 3 joints of casing.
SURFACE	PDC drillable guide shoe, 1 joint casing, PDC drillable float collar. Thread lock all float equipment. Install bow spring centralizers on the bottom 3 joints of casing & every 3rd joint thereafter.
INTERMEDIATE	PDC drillable 10M, P-110 float shoe, 1 joint, PDC drillable 10M, P-110 float collar. Thread lock all float equipment. Maker joint at +/- 7,800'.
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.
WINSLOW 4-1C5
SECTION 1, T3S, R5W, U.S.B.&M.

PROCEED NORTH ON PAVED STATE HIGHWAY 87 FROM THE INTERSECTION OF HIGHWAY 87 WITH U.S. HIGHWAY 40 IN DUCHESNE, UTAH APPROXIMATELY 5.87 MILES TO AN INTERSECTION;

TURN LEFT AND TRAVEL NORTHWESTERLY 0.48 MILES ON STATE ROAD 35 TO AN INTERSECTION OF AN EXISTING 2-TRACK ROAD AND THE BEGINNING OF THE PROPOSED ACCESS ROAD;

TURN RIGHT AND TRAVEL NORTHERLY 0.39 MILES FOLLOWING ROAD FLAGS TO THE PROPOSED WELL LOCATION;

TOTAL DISTANCE FROM DUCHESNE, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 6.74 MILES.

CONFIDENTIAL

EP ENERGY E&P COMPANY, L.P.

FIGURE #1

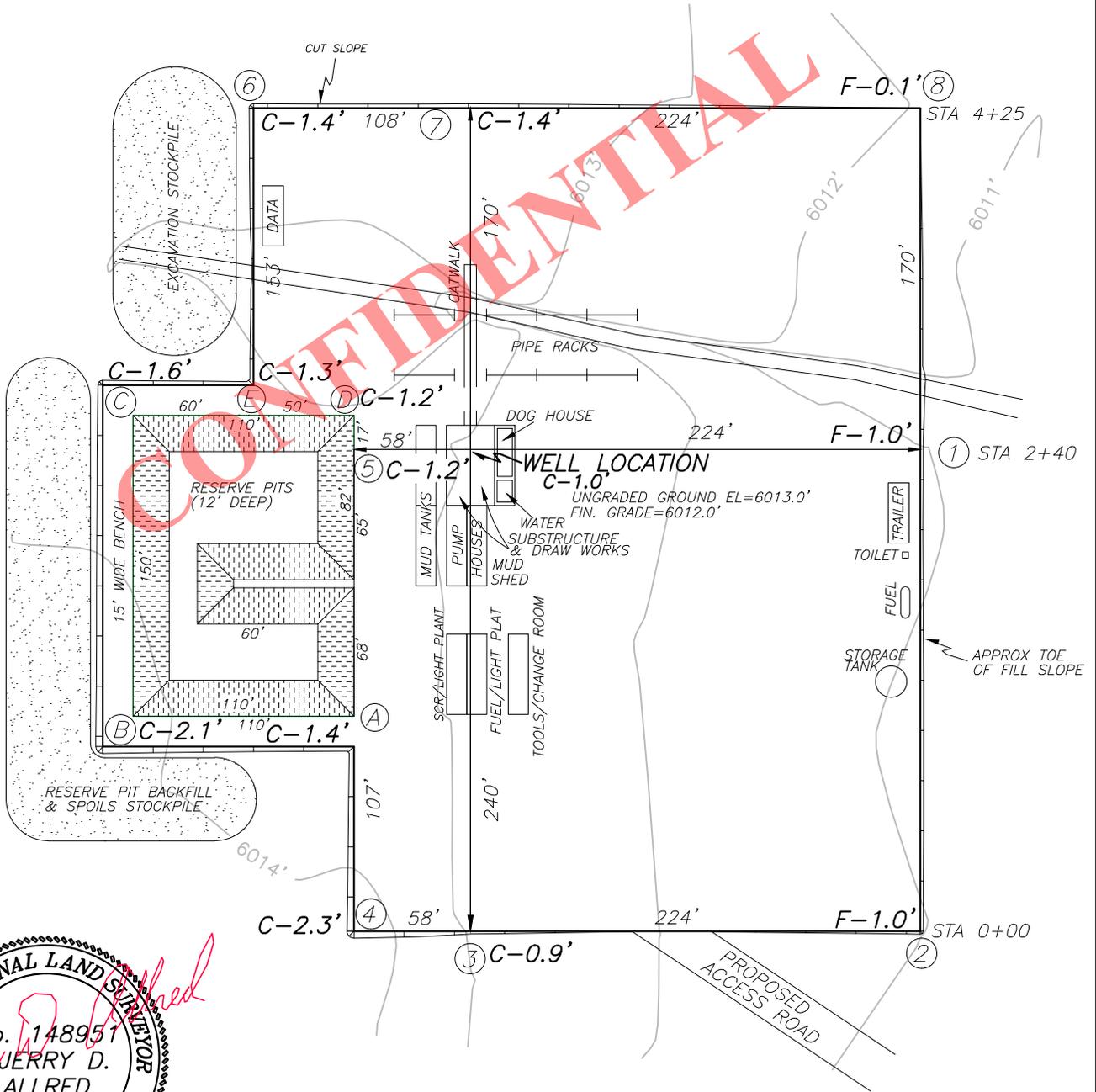
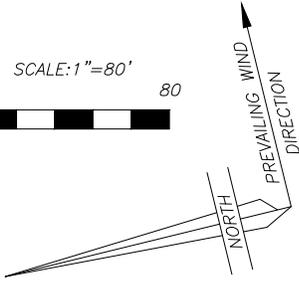
LOCATION LAYOUT FOR

WINSLOW 4-1C5

SECTION 1, T3S, R5W, U.S.B.&M.

800' FNL, 1800' FEL

SCALE: 1"=80'



16 JUL 2014 01-128-532

JERRY D. ALLRED & ASSOCIATES
 SURVEYING CONSULTANTS

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

RECEIVED: February 12, 2015

EP ENERGY E&P COMPANY, L.P.

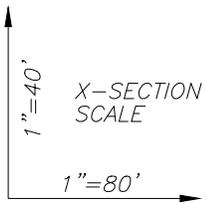
FIGURE #2

LOCATION LAYOUT FOR

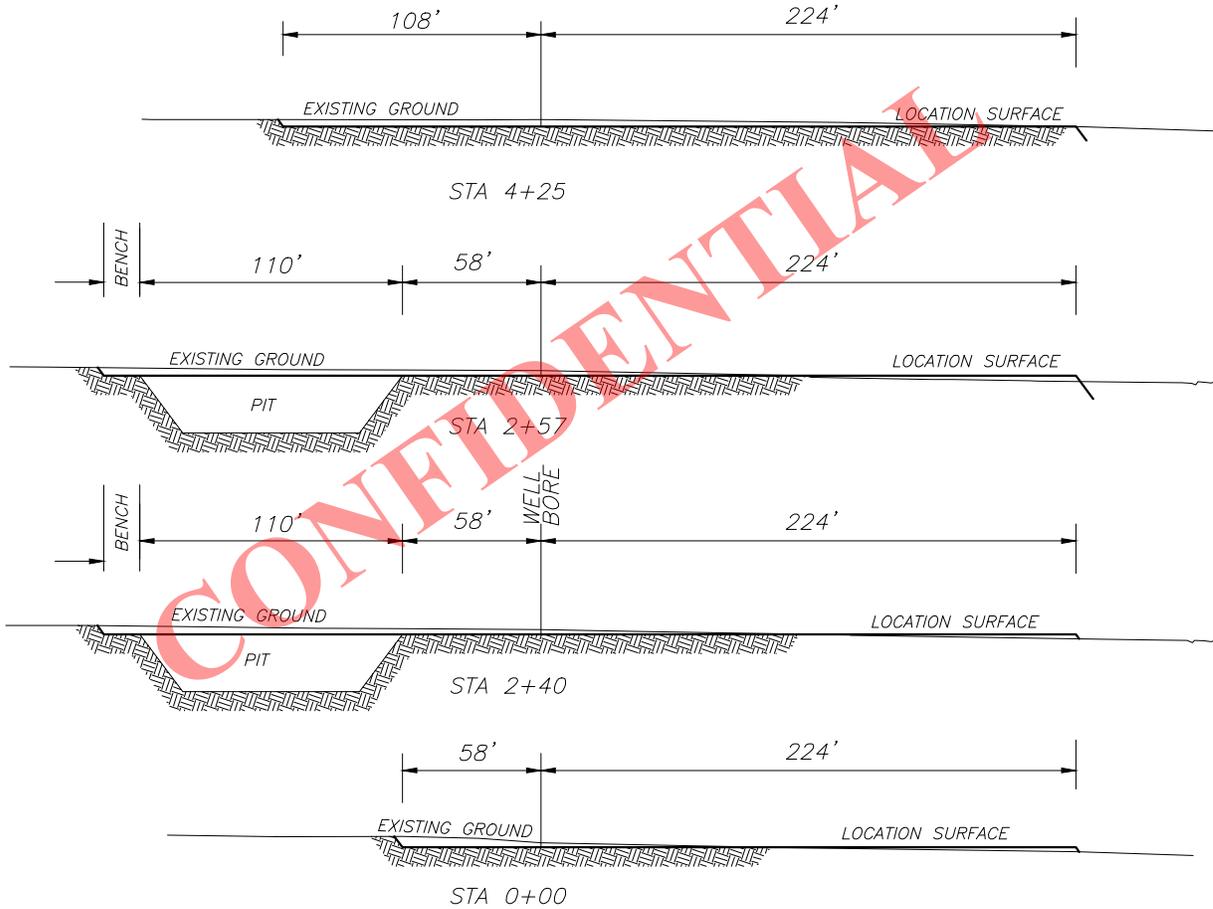
WINSLOW 4-1C5

SECTION 1, T3S, R5W, U.S.B.&M.

800' FNL, 1800' FEL



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



APPROXIMATE YARDAGES

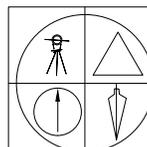
TOTAL CUT (INCLUDING PIT) = 9657 CU. YDS.

- PIT CUT = 4955 CU. YDS.
- TOPSOIL STRIPPING: (6") = 2740 CU. YDS.
- REMAINING LOCATION CUT = 1962 CU. YDS

TOTAL FILL = 1962 CU. YDS.

LOCATION SURFACE GRAVEL=1495 CU. YDS. (4" DEEP)

ACCESS ROAD GRAVEL=529 CU. YDS.



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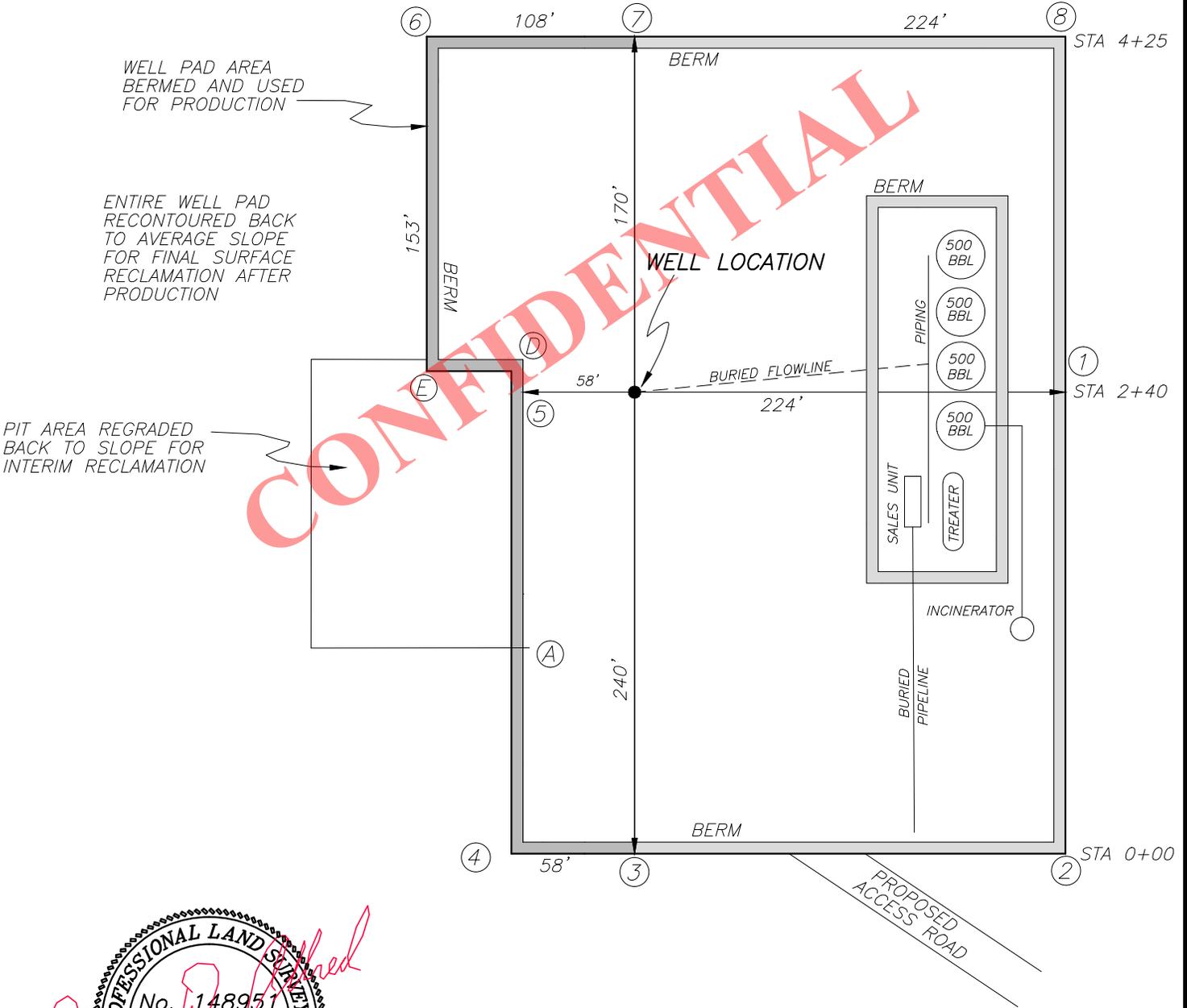
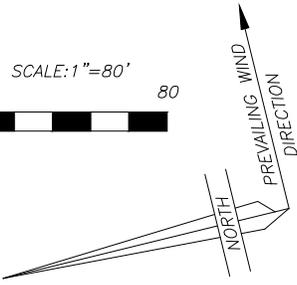
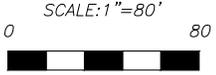
FIGURE #3

LOCATION LAYOUT FOR

WINSLOW 4-1C5

SECTION 1, T3S, R5W, U.S.B.&M.

800' FNL, 1800' FEL



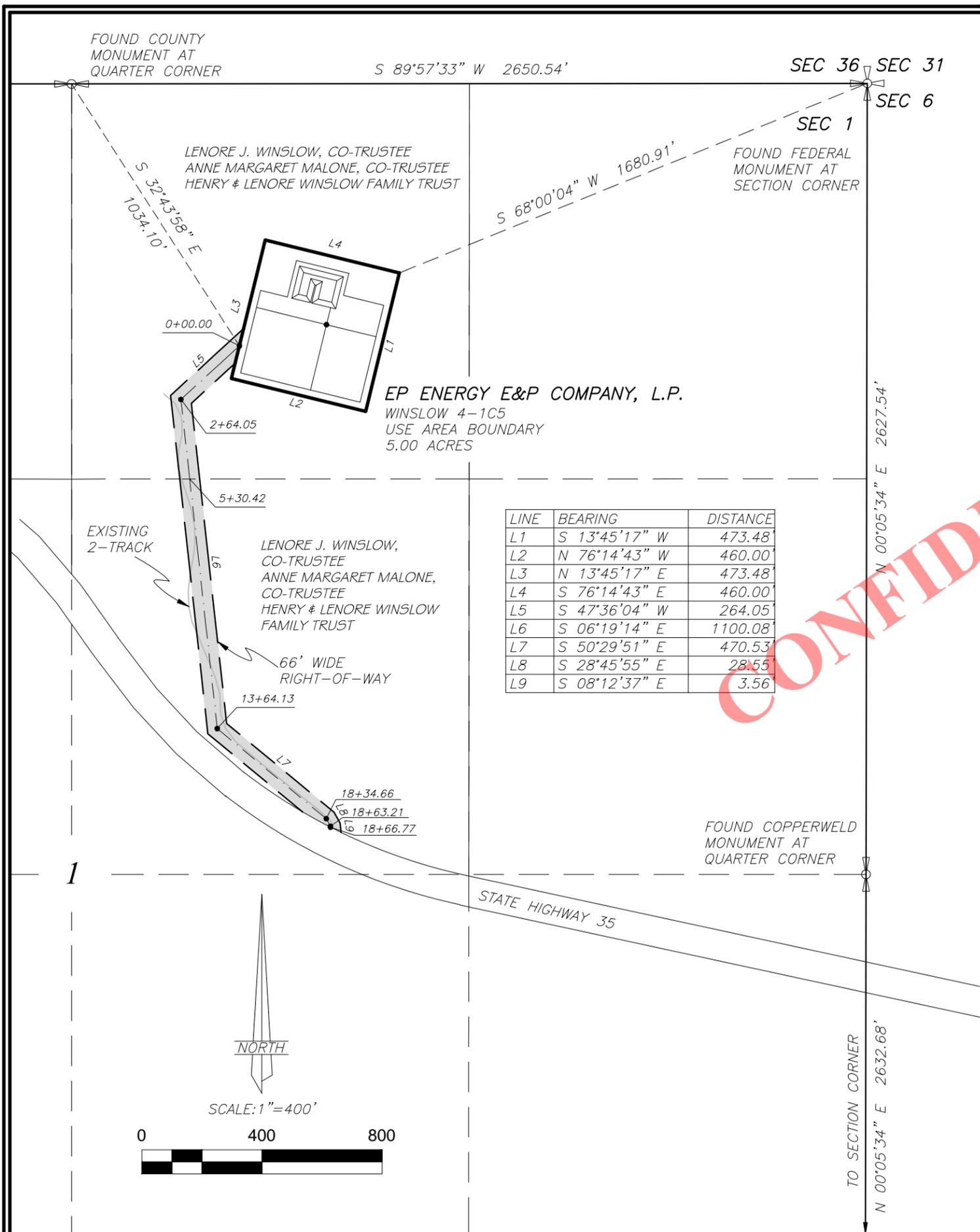
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LOCATION USE AREA AND RIGHT-OF-WAY SURVEY FOR
EP ENERGY E&P COMPANY, L.P.
WINSLOW 4-1C5

NE1/4 OF SECTION 1
 TOWNSHIP 3 SOUTH, RANGE 5 WEST, U.S.B.&M.
 DUCHESNE COUNTY, UTAH

HENRY & LENORE WINSLOW FAMILY TRUST



EP ENERGY E&P COMPANY, L.P.
 WINSLOW 4-1C5
 USE AREA BOUNDARY
 5.00 ACRES

LINE	BEARING	DISTANCE
L1	S 13°45'17" W	473.48
L2	N 76°14'43" W	460.00
L3	N 13°45'17" E	473.48
L4	S 76°14'43" E	460.00
L5	S 47°36'04" W	264.05
L6	S 06°19'14" E	1100.08
L7	S 50°29'51" E	470.53
L8	S 28°45'55" E	28.55
L9	S 08°12'37" E	3.56

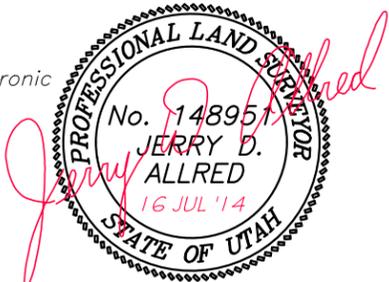
USE AREA BOUNDARY DESCRIPTION

Commencing at the Northeast Corner of Section 1, Township 3 South, Range 5 West of the Uintah Special Base and Meridian;
 Thence South 68°00'04" West 1680.91 feet to the TRUE POINT OF BEGINNING;
 Thence South 13°45'17" West 473.48 feet;
 Thence North 76°14'43" West 460.00 feet;
 Thence North 13°45'17" East 473.48 feet;
 Thence South 73°14'43" East 460.00 feet to the TRUE POINT OF BEGINNING, containing 5.00 acres.

RIGHT-OF-WAY DESCRIPTION

A 66 feet wide right-of-way over a portion of Section 1, Township 3 South, Range 5 West of the Uintah Special Base and Meridian, the centerline of said right-of-way being further described as follows:
 Commencing at the North Quarter Corner of said Section 1;
 Thence South 32°43'58" East 1034.10 feet to the TRUE POINT OF BEGINNING, said point being on the West line of the EP Energy E&P Company, L.P. WINSLOW 4-1C5 well location use area boundary;
 Thence South 47°36'04" West 264.05 feet;
 Thence South 06°19'14" East 1100.08 feet;
 Thence South 50°29'51" East 470.53 feet;
 Thence South 28°45'55" East 28.55 feet;
 Thence South 08°12'37" East 3.56 feet to the North right-of-way line of State Highway 35. Said right-of-way being 1866.77 feet in length with the side lines being shortened or elongated to intersect said use area boundary and said right-of-way line.

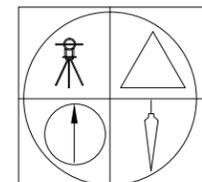
This is to certify that this plat was prepared from the field notes and electronic data collector files of an actual survey made by me, or under my personal supervision, of the use area and right-of-way shown hereon, and that the monuments indicated were found or set during said survey, and that this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



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

THIS SURVEY WAS PERFORMED USING GLOBAL POSITIONING SYSTEM PROCEDURES AND EQUIPMENT

THE BASIS OF BEARINGS IS GEODETIC NORTH DERIVED FROM G.P.S. OBSERVATIONS AT A CONTROL POINT (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

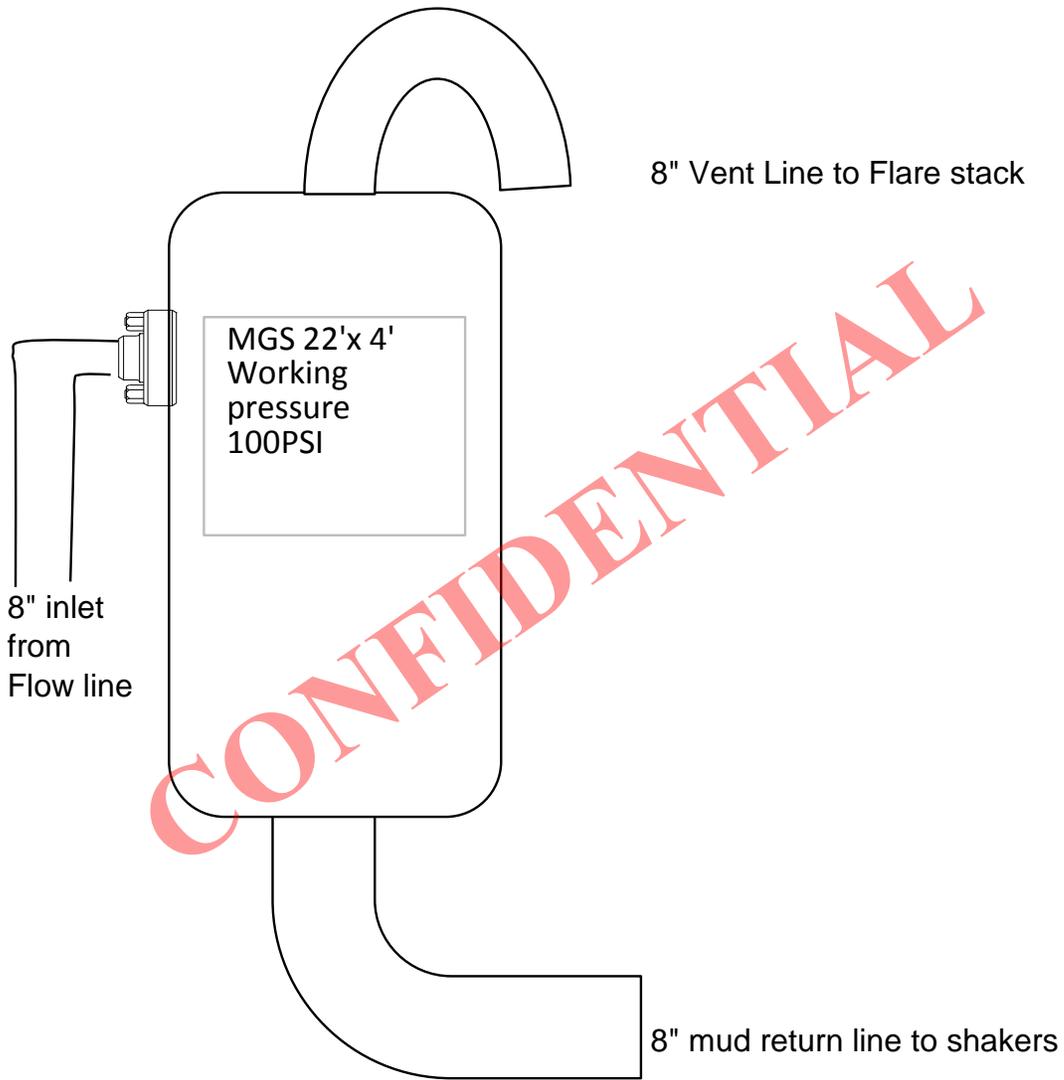


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 (435) 738-5352

16 JUL 2014 01-128-532



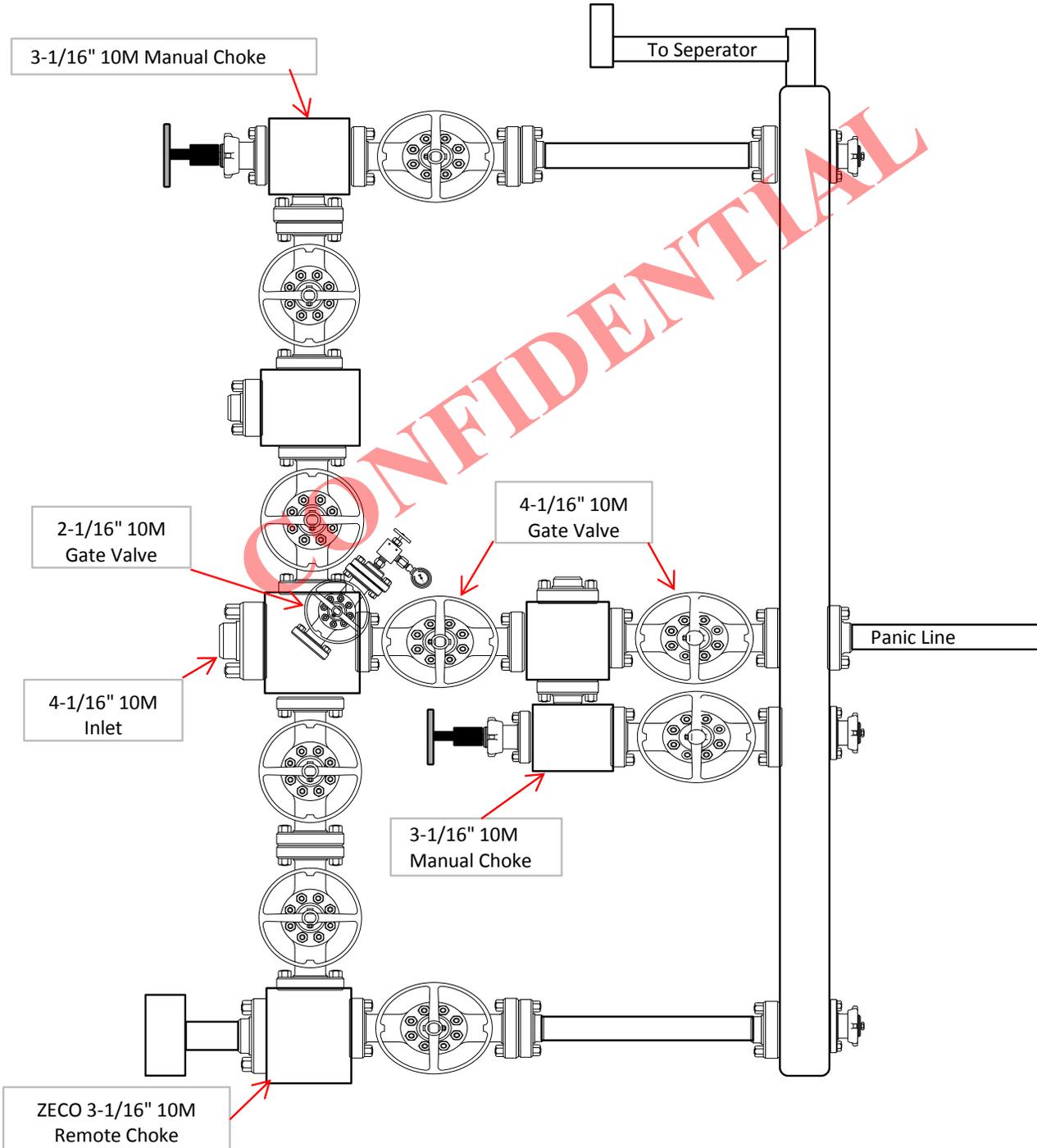
Mud Gas Separator





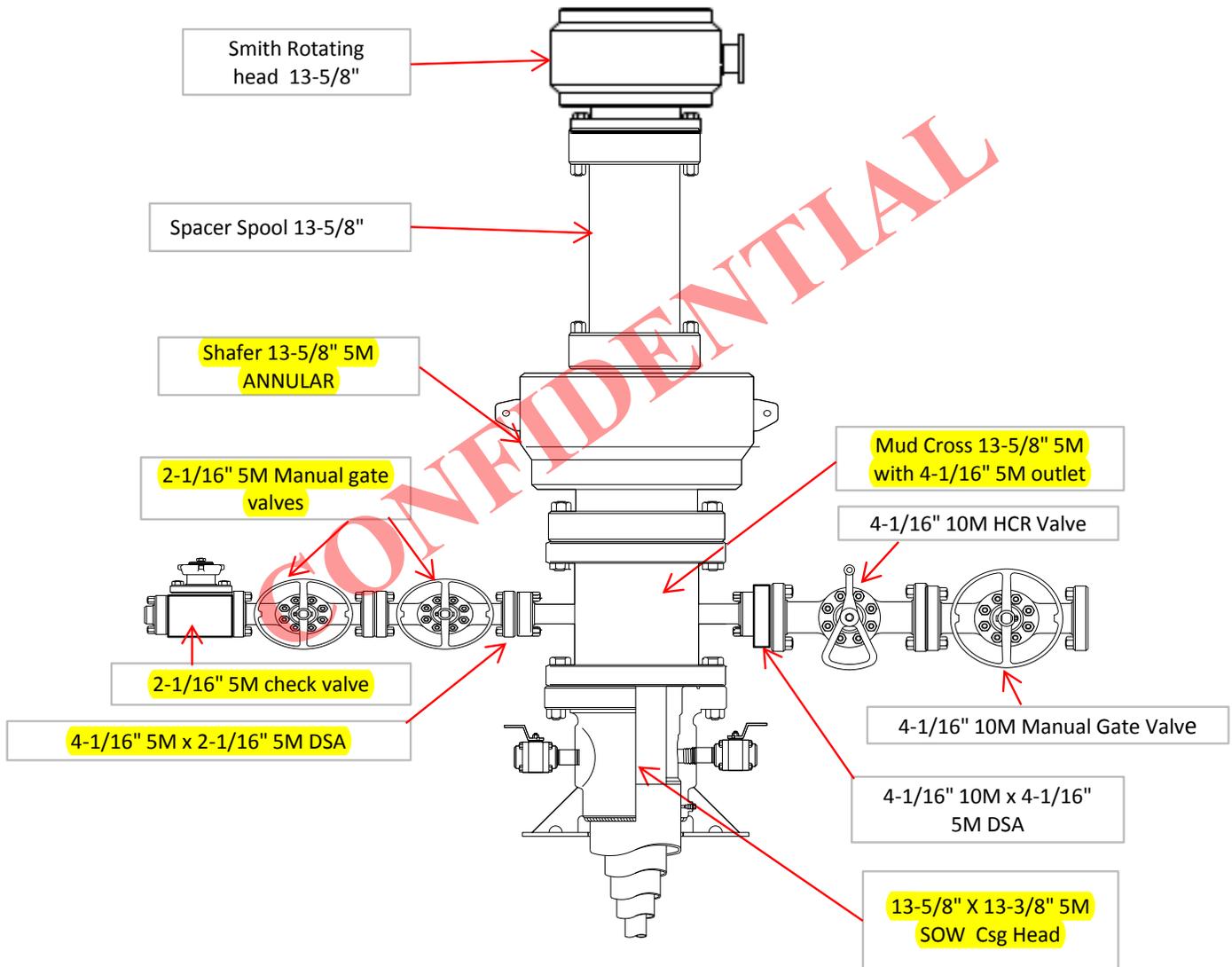
10M Choke Manifold Configuration

All valves on the Choke Manifold are 3-1/16" 10M except for those that are identified below.



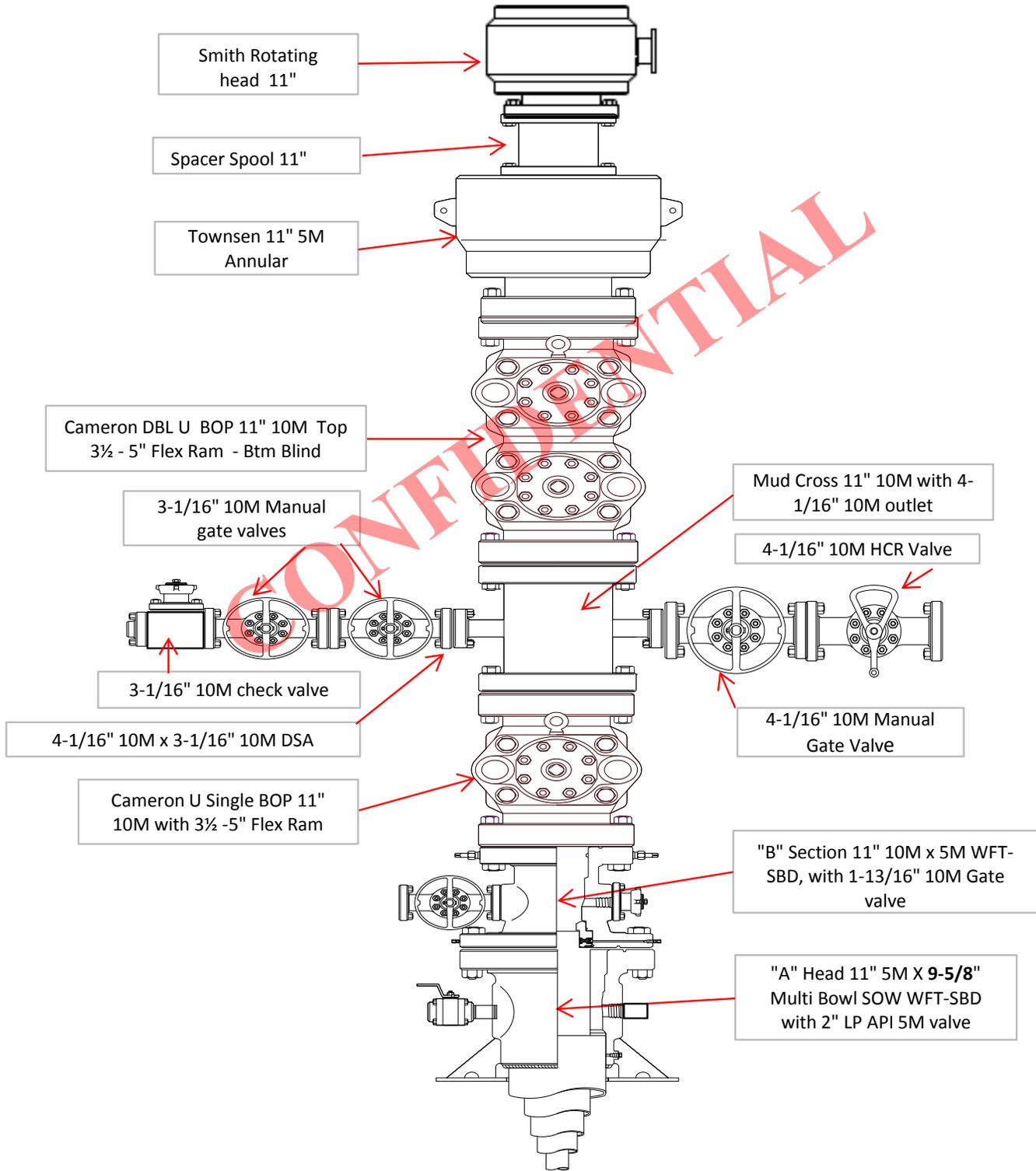


Surface 13-5/8" 3M Diverter Configuration



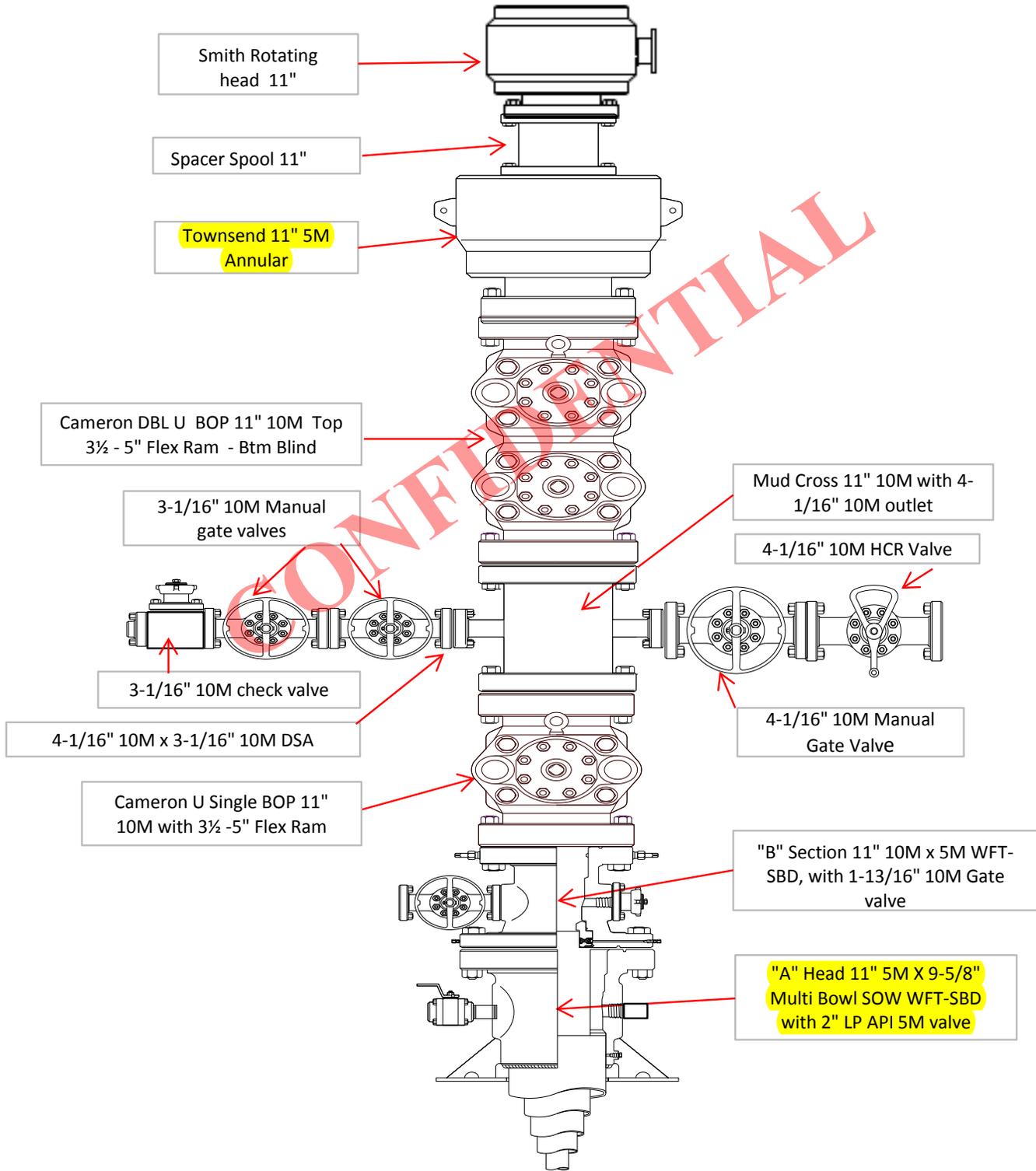


Intermediate 11" 5M BOP Configuration





Production 11" 10M BOP Configuration

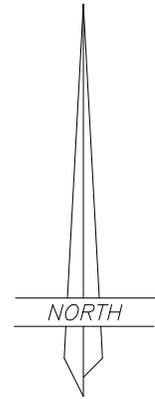
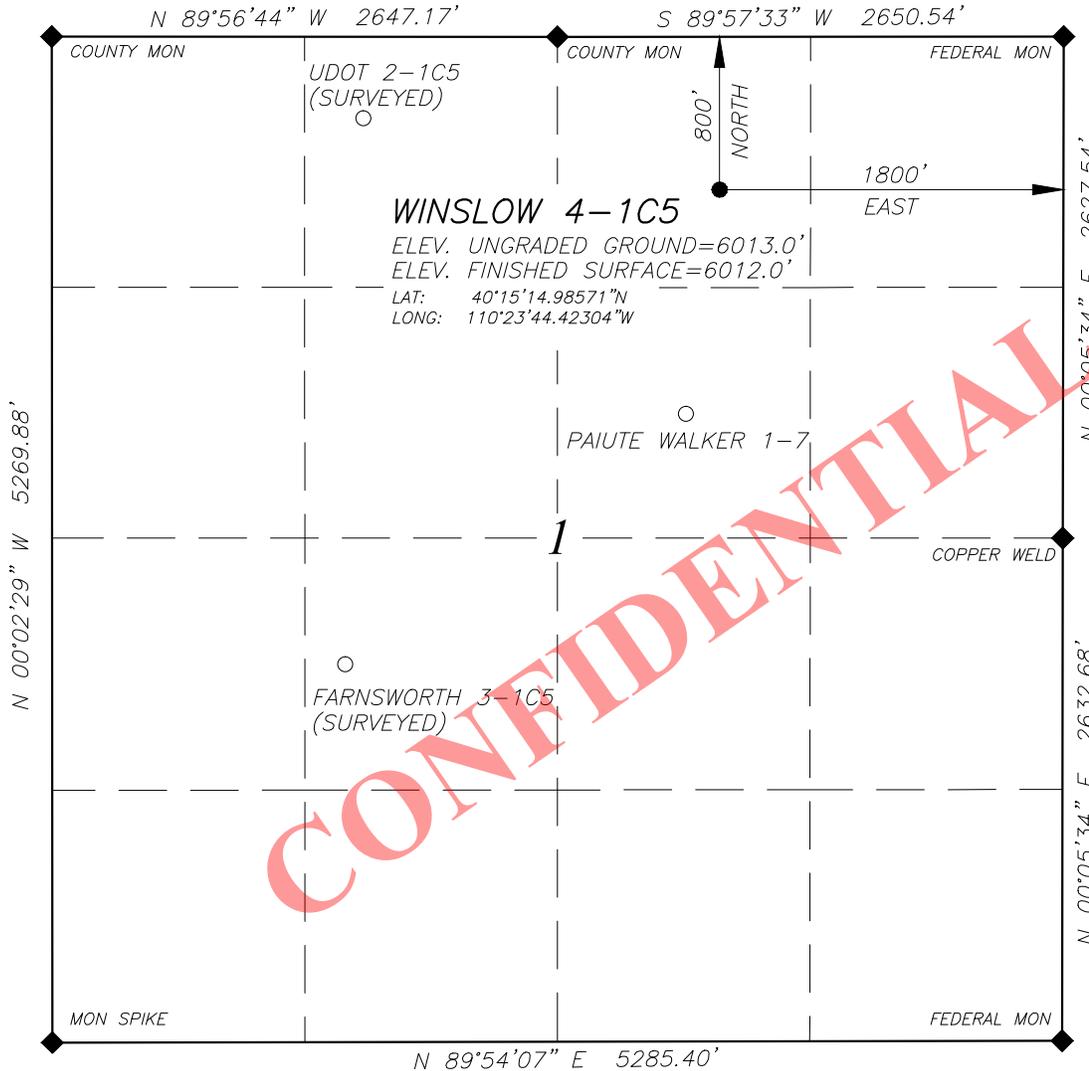


EP ENERGY E&P COMPANY, L.P.

WELL LOCATION

WINSLOW 4-1C5

LOCATED IN THE NW¼ OF THE NE¼ OF SECTION 1, T3S, R5W, U.S.B.&M. DUCHESNE COUNTY, UTAH



SCALE: 1" = 1000'



NOTE:
NAD27 VALUES FOR WELL POSITION:
LAT: 40.25420686° N
LONG: 110.39496155° 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

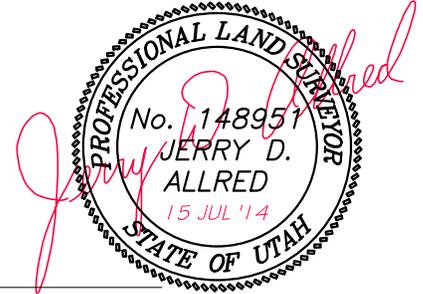
THIS SURVEY WAS PERFORMED USING GLOBAL POSITIONING SYSTEM PROCEDURES AND EQUIPMENT

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

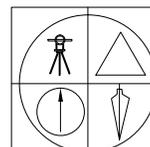
BASIS OF ELEVATIONS: NAVD 88 DATUM USING THE UTAH REFERENCE NETWORK CONTROL SYSTEM

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, REGISTERED LAND SURVEYOR, CERTIFICATE NO. 148951 (UTAH)

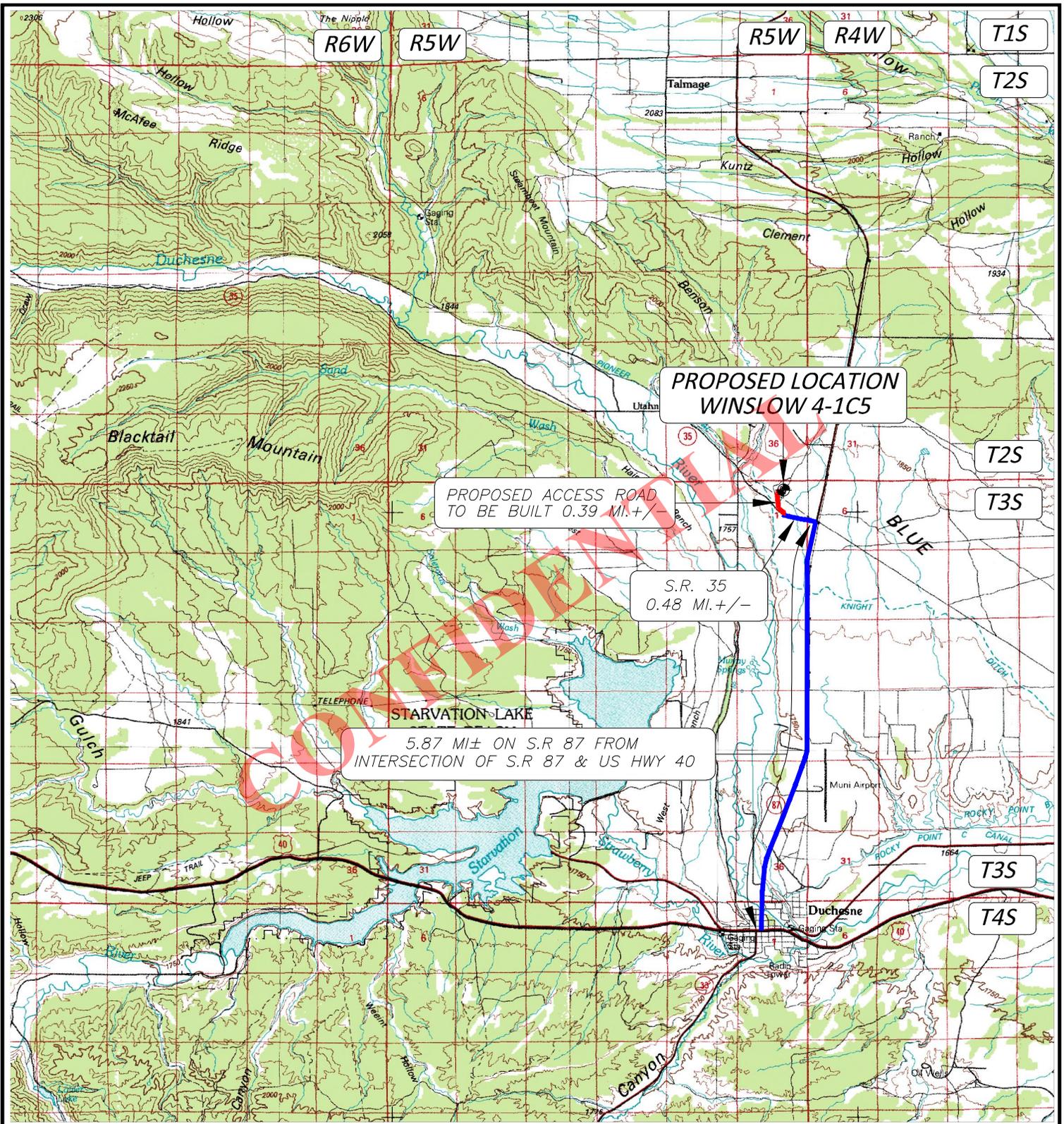


JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS

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

15 JUL 2014 01-128-532

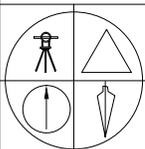
RECEIVED: February 12, 2015



LEGEND:

 PROPOSED WELL LOCATION

01-128-532



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.

WINSLOW 4-1C5

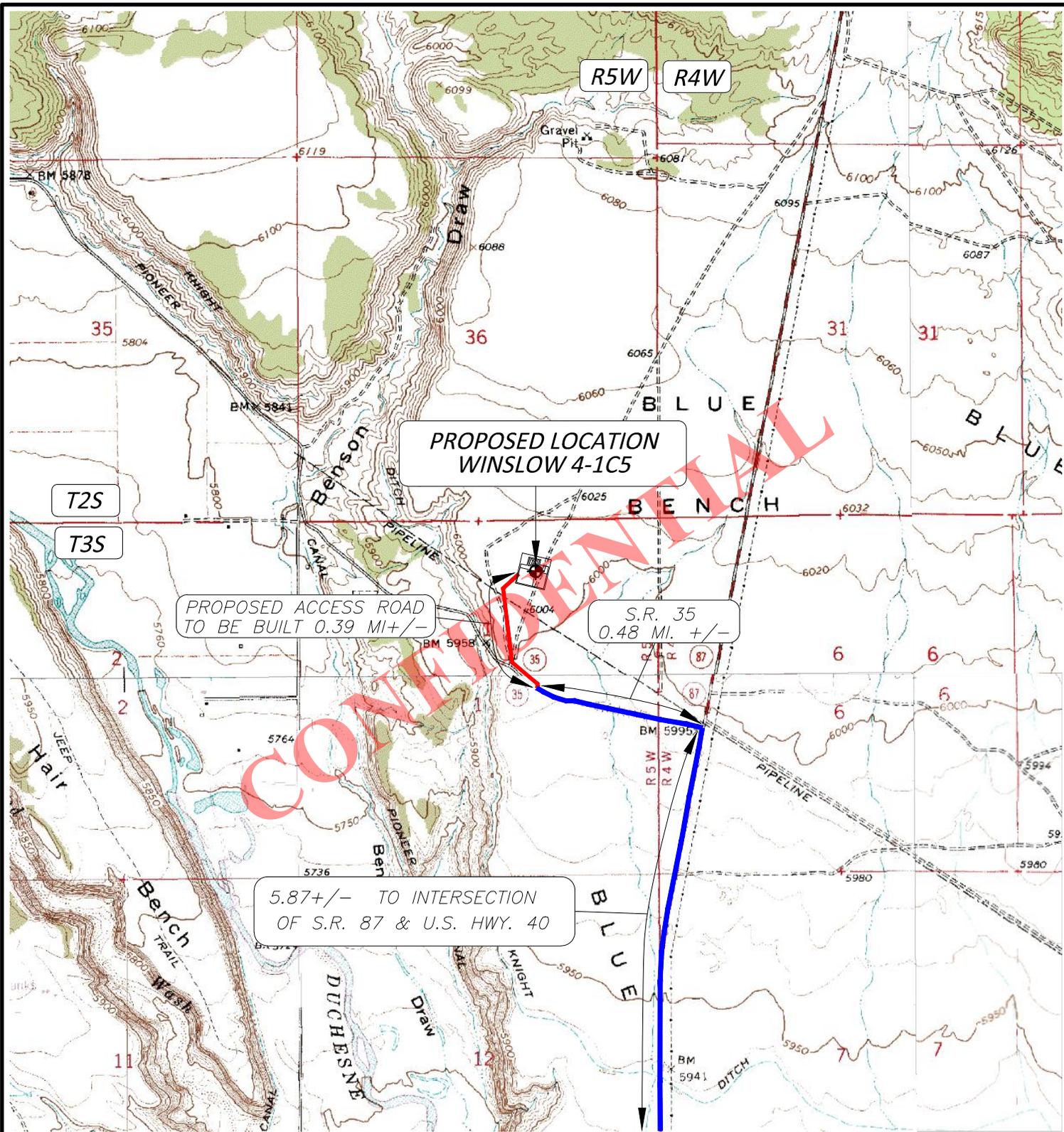
SECTION 1, T3S, R5W, U.S.B.&M.

800' FNL 1800' FEL

TOPOGRAPHIC MAP "A"

SCALE; 1"=10,000'

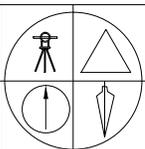
15 JUL 2014



LEGEND:

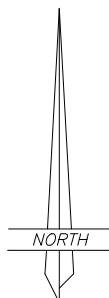
-  PROPOSED WELL LOCATION
-  PROPOSED ACCESS ROAD
-  EXISTING GRAVEL ROAD
-  EXISTING PAVED ROAD

01-128-532



JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS

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

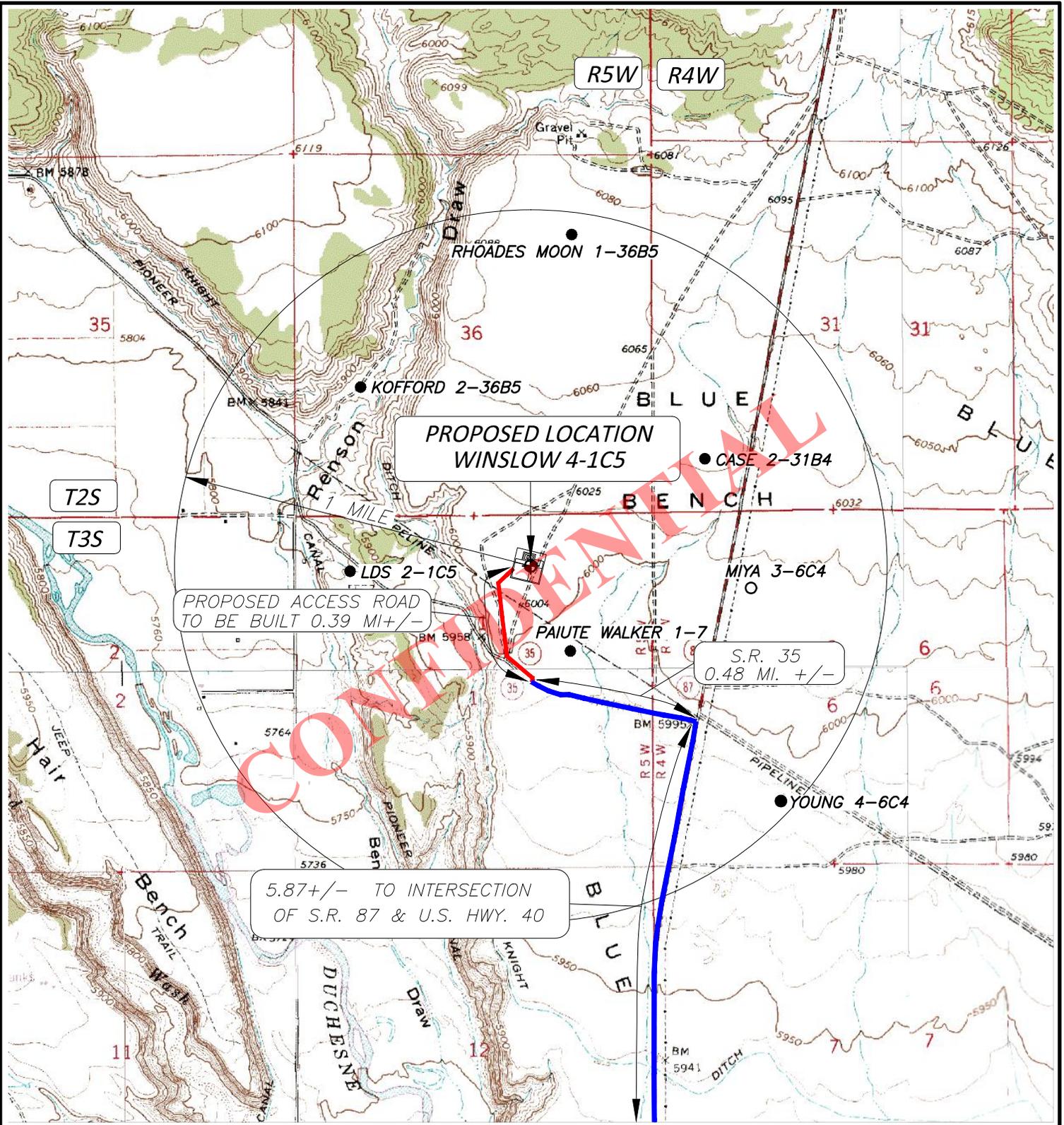


EP ENERGY E&P COMPANY, L.P.

WINSLOW 4-1C5
SECTION 1, T3S, R5W, U.S.B.&M.
800' FNL 1800' FEL

TOPOGRAPHIC MAP "B"

SCALE; 1"=2000'
15 JUL 2014



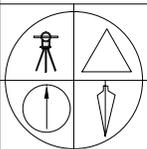
LEGEND:

⊕ PROPOSED WELL LOCATION

2-25C6

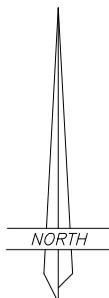
● ○ + ⊕ ⊙ ⊙ ⊙

01-128-532



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.

WINSLOW 4-1C5
SECTION 1, T3S, R5W, U.S.B.&M.
800' FNL 1800' FEL

TOPOGRAPHIC MAP "C"

SCALE; 1"=2000'
15 JUL 2014

**AFFIDAVIT OF SURFACE USE AGREEMENT
AND RIGHT-OF-WAY AGREEMENT**

This **Affidavit of Surface Use Agreement and Right-of-Way Agreement** ("Affidavit"), dated effective this 2nd day of September, 2014 ("Effective Date"), is being made by **EP Energy E&P Company, L.P.** ("EP Energy"), a Delaware limited partnership, whose address is 1001 Louisiana Street, Suite 2400, Houston, Texas 77002, and herein represented by **John DeWitt, Jr.** ("Affiant"), being first duly sworn upon oath, who hereby deposes and states as follows:

1. Affiant is over eighteen (18) years of age and is currently employed by EP Energy as a Senior Landman.

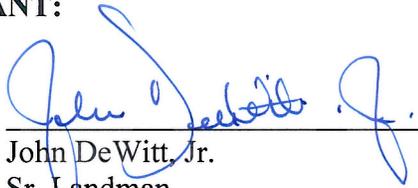
2. EP Energy is the operator of the proposed Winslow 4-1C5 (the "Well") which is located in the Northwest Quarter of the Northeast Quarter (NW¹/₄NE¹/₄) of Section 1, Township 3 South, Range 5 West, U.S.M., Duchesne County, Utah (the "Drillsite Location"). The surface owner(s) of the Drillsite Location are **Holly K. Winslow**, whose address is P.O. Box 3817, Big Bear Lake, California 92315, **Nancy J. Herring**, whose address is 30695 Aspen Lane, Lebanon, Oregon 97355, **Teresa V. Burris**, whose address is 12570 South Indian Road, Smith River, California 95567, and **Anne Malone**, whose address is 434 West 13th Street, Burley, Idaho 83318, and whose telephone number is (208)-678-1727 (collectively, the "Surface Owner").

3. EP Energy and the Surface Owner have entered into and executed that certain *Surface Use Agreement*, dated effective July 23, 2014, 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 EP Energy's operations including, but not limited to, construction of the Drillsite Location and drilling the Well.

4. EP Energy and the Surface Owner have also entered and executed that certain *Right-of-Way Agreement*, dated effective July 23, 2014, 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 EP Energy's operations including, but not limited to, construction and use of an access road, pipeline and/or power line corridor across portions of the West Half of the Northeast Quarter (W¹/₂NE¹/₄) of Section 1, Township 3 South, Range 5 West, U.S.M., Duchesne County, Utah.

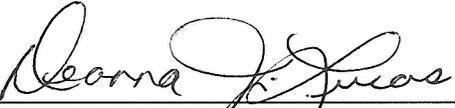
FURTHER AFFIANT SAYETH NOT.

AFFIANT:

By: 
Name: John DeWitt, Jr.
Title: Sr. Landman

STATE OF TEXAS §
 §
COUNTY OF HARRIS §

Sworn to and subscribed before me on this 2nd day of SEPTEMBER, 2014, by **John DeWitt, Jr.** as Sr. Landman for **EP Energy E&P Company, L.P.**, a Delaware limited partnership, on behalf of said limited partnership.


Notary Public in and for the State of Texas



[SEAL]

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 .39 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 .39 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:

Holly K. Winslow
PO Box 3817
Big Bear Lake, CA 92315

Nancy J. Herring
30695 Aspen Lane
Lebanon, OR 97355

Teresa V. Burris
12570 S Indian Rd
Smith River, CA 95567

Anne Malone
434 West 13th Street
Burley, ID 83318
208-678-1727

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

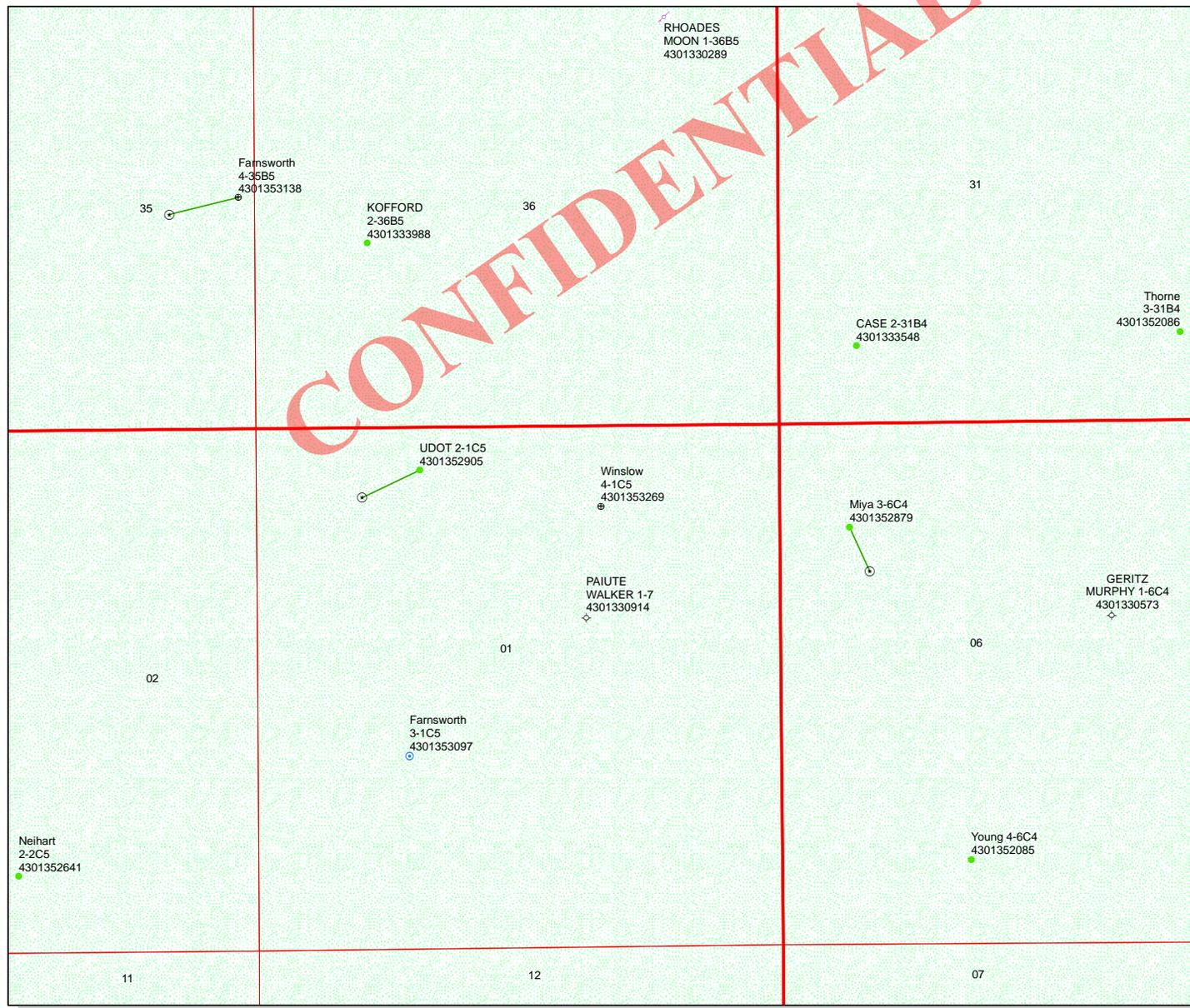
Regarding This APD

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

CONFIDENTIAL



API Number: 4301353269

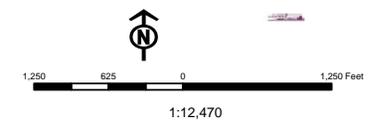
Well Name: Winslow 4-1C5

Township: T03.0S Range: R05.0W Section: 01 Meridian: U

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

Map Prepared: 2/12/2015
Map Produced by Diana Mason

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



Ent 477537 Bk A724 Pg 245
 Date: 26-SEP-2014 2:01:11PM
 Fee: \$20.00 Check
 Filed By: DMH
 CAROLYNE MADSEN, Recorder
 DUCHESNE COUNTY CORPORATION
 For: EP ENERGY E&P COMPANY

MEMORANDUM OF RIGHT-OF-WAY AGREEMENT

This Memorandum of Right-of-Way Agreement ("Memorandum"), dated effective this 23rd day of July, 2014 ("Effective Date"), is made by and between **Holly K. Winslow**, whose address is P.O. Box 3817, Big Bear Lake, California 92315, **Anne Malone**, whose address is 434 West 13th Street, Burley, Idaho 83318, **Nancy J. Herring**, whose address is 30695 Aspen Lane, Lebanon, Oregon 97355, **Teresa B. Burris**, whose address is 12570 South Indian Road, Smith River, California 95567 (collectively, "Grantor"), and **EP Energy E&P Company, L.P.** ("Grantee"), a Delaware limited partnership, whose address is 1001 Louisiana Street, Suite 2400, Houston, Texas 77002.

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the above named Grantor and Grantee have executed that certain *Right-of-Way Agreement* (the "Agreement"), dated effective as of the Effective Date, which governs Grantee's oil and gas operations on the surface of the following described lands owned by Grantor in Duchesne County, Utah:

Township 3 South, Range 5 West, USM

Section 1: Beginning at the North quarter corner; thence North 89°57'31" East 1325.25 feet, to the Northeast Corner of the North half of the West half of the East half; thence South 0°02'58" West 2628.20 feet, to the Southeast corner of said North half of said West half of said East half; thence South 0°03'01" West 3.88 feet, along the East line of the South half of said West half of said East half to a point on the North right-of-way line of Utah State Road #35; thence North 77°50'22" West 8.91 feet, along said right-of-way line to the beginning of a 1859.85 foot radius curve to the right; thence Northwesterly 623.49 feet, along the arc of said curve and right-of-way line (long chord = 620.56 feet, long chord bearing = North 68°12'42" West); thence North 48°17'53" West 291.06 feet, along said right-of-way line to the beginning of a 1829.85 foot radius curve to the right; thence Northwesterly 462.28 feet, along the arc of said curve and right-of-way line (long chord = 461.09 feet, long chord bearing = North 42°21'09" West) to the point of tangency; thence North 35°08'04" West 127.32 feet, along said right-of-way line; thence North 52°08'01" West 103.46 feet, along said right-of-way line to the beginning of a 1482.39 foot radius curve to the left; thence Northwesterly 92.16 feet along the arc of said curve and right-of-way line (long chord = 92.15 feet, long chord bearing = North 36°54'56" West) to a point on the North-South quarter section line; thence North 0°00'25" East 1623.26 feet, to the Point of Beginning.

ALSO: Beginning at the center quarter corner of said Section; thence North 0°00'25" East 836.90 feet, along the North-South quarter section line to a point on the South right-of-way line of Utah State Road #35; thence South 35°08'04" East 180.33 feet, along said right-of-way line to the beginning of a 1959.85 foot radius curve to the left; thence Southeasterly 802.93 feet along the arc of said curve and right-of-way line (long chord = 797.39 feet, long chord bearing = South 46°54'19" East); thence South 50°18'08" West 891.84 feet, to a point on said North-South quarter section line; thence North 0°00'25" East 425.00 feet, to the Point of Beginning.

(the "Premises"), more particularly described in **Exhibit "A"** attached hereto and made a part hereof, and to use the surface of the Premises for the purpose of surveying, constructing, maintaining and using a road for the purpose of drilling, operating and maintaining one or more wells for the production of oil and/or gas, and constructing, maintaining, altering, inspecting, repairing, replacing, changing the size of, operating, and removing a pipeline and from time to time additional pipeline or pipelines, drips, valves, electrical power lines, whether buried or overhead, cathodic equipment, and all appurtenances convenient for the maintenance and operation of said lines and for the transportation of oil, gas, produced water, or other substances therein, under, on, over and through the Premises, and which grants unto Grantee the right of ingress and egress, over and across the Premises for any purpose necessary or incidental to the drilling, equipping, completing for production, recompleting, operating, maintaining, or plugging and abandoning one or more oil and/or gas wells, and the right to select, change or alter the location of any of the above-described facilities upon the Premises; provided, however, that this easement shall not exceed sixty-six feet (66') in width.

The Agreement shall remain in full force and effect from the Effective Date, subject to the termination provisions of the Agreement.

The Agreement neither modifies nor diminishes Grantee's rights under any oil and gas lease owned by Grantee covering all or any portion of the Premises.

The Agreement is binding upon Grantor and Grantee and their respective successors and assigns. Executed copies of the Agreement are maintained in the possession of Grantor and Grantee.

This Memorandum is placed of record for the purpose of giving notice of the Agreement and is given in lieu of recording the Agreement in the records of Duchesne County, Utah. This Memorandum may be executed in any number of counterparts, each of which shall be deemed an original, but all of which shall constitute one and the same instrument.

[SIGNATURE PAGES FOLLOW]

CONFIDENTIAL

This instrument is executed as of the dates of acknowledgement below, but effective for all purposes as of the Effective Date.

GRANTOR:

By: Holly K Winslow
Name: Holly K Winslow

By: Anne Malone
Name: Anne Malone

By: Nancy J. Herring
Name: Nancy J. Herring

By: Teresa B. Burris
Name: Teresa B. Burris
TB

CONFIDENTIAL

ACKNOWLEDGEMENT

STATE OF California §
COUNTY OF San Bernardino §

The foregoing instrument was acknowledged before me on this 18 day of August, 2014, by **Holly K. Winslow**.

CMadden
NOTARY PUBLIC

My Commission Expires: June 16, 2014



ACKNOWLEDGEMENT

STATE OF Idaho §
COUNTY OF Cassia §

The foregoing instrument was acknowledged before me on this 21 day of August, 2014, by **Anne Malone**.

Carrie L. Clayton
NOTARY PUBLIC

My Commission Expires: 9-27-2019



ACKNOWLEDGEMENT

STATE OF Oregon §
COUNTY OF Linn §

The foregoing instrument was acknowledged before me on this 11 day of August, 2014, by **Nancy J. Herring**.

Jennifer L. Meltzer
NOTARY PUBLIC

My Commission Expires: Oct 16, 2016



ACKNOWLEDGEMENT

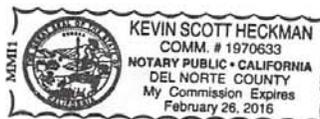
STATE OF California §
COUNTY OF Del Norte §

The foregoing instrument was acknowledged before me on this 8th day of August, 2014, by **Teresa B. Burris**.
SB v.

[Signature]
NOTARY PUBLIC

My Commission Expires: Feb. 26, 2014

This instrument is executed as of the dates of acknowledgement below, but effective for all purposes as of the Effective Date.



GRANTEE:

EP ENERGY E&P COMPANY, L.P.

By: [Signature]
Name: Thomas L. Muchard JDD
Title: Agent and Attorney-in-Fact

ACKNOWLEDGEMENT

STATE OF TEXAS §
 §
COUNTY OF HARRIS §

The foregoing instrument was acknowledged before me on this 11th day of September, 2014, by **Thomas L. Muchard** as Agent and Attorney-in-Fact for EP Energy E&P Company, L.P., a Delaware limited partnership, on behalf of said limited partnership.

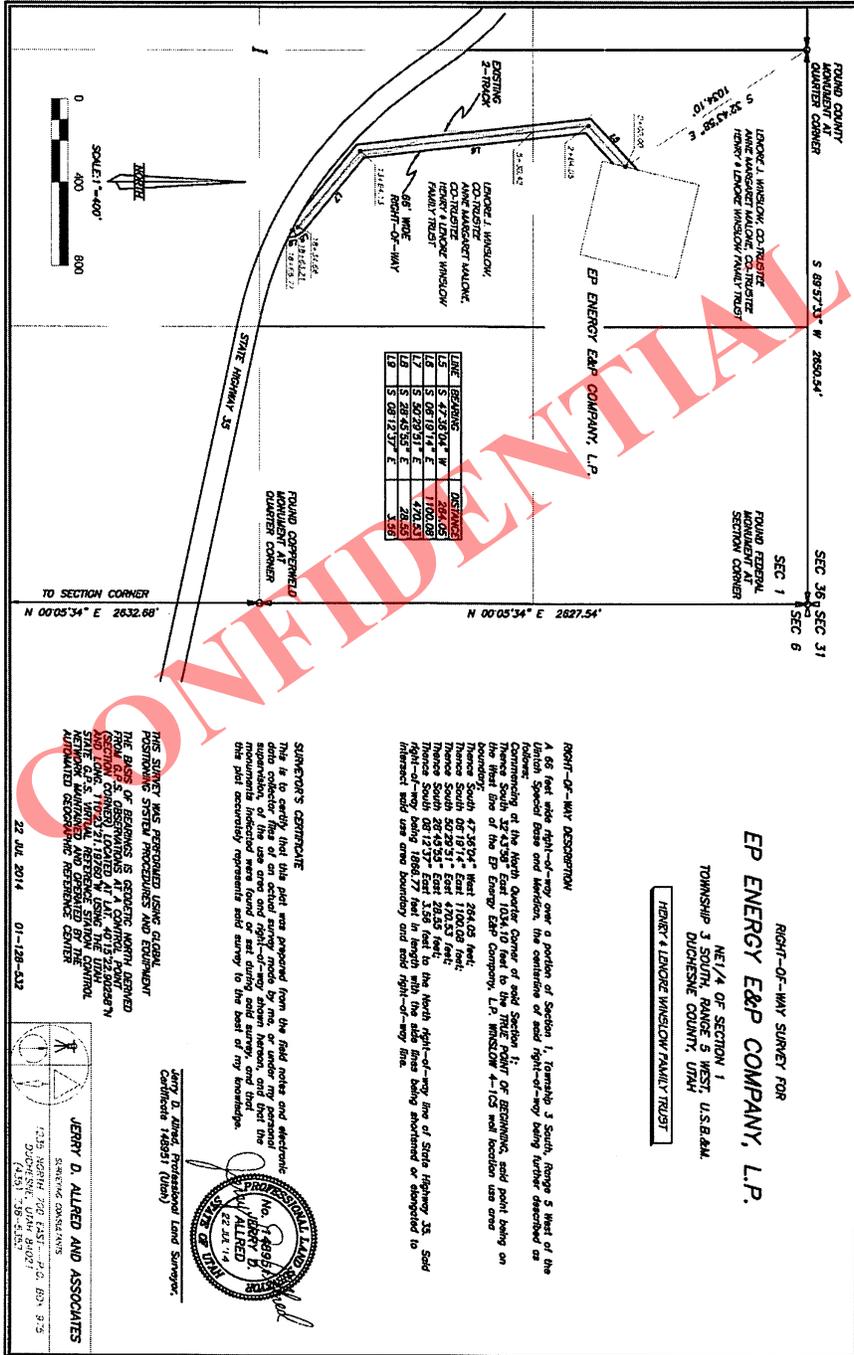


[Signature]
NOTARY PUBLIC

My Commission Expires: 8/2/2018

CONFIDENTIAL

EXHIBIT "A"



Ent 477536 Bk A724 Pg 240
 Date: 26-SEP-2014 1:59:32PM
 Fee: \$18.00 Check
 Filed By: DMH
 CAROLYNE MADSEN, Recorder
 DUCHESNE COUNTY CORPORATION
 For: EP ENERGY E&P COMPANY

MEMORANDUM OF SURFACE USE AGREEMENT

This **Memorandum of Surface Use Agreement** ("**Agreement**"), dated effective this 23rd day of July, 2014 ("**Effective Date**"), is made by and between **Holly K. Winslow**, whose address is P.O. Box 3817, Big Bear Lake, California 92315, **Anne Malone**, whose address is 434 West 13th Street, Burley, Idaho 83318, **Nancy J. Herring**, whose address is 30695 Aspen Lane, Lebanon, Oregon 97355, **Teresa B. Burris**, whose address is 12570 South Indian Road, Smith River, California 95567 (collectively, "**Grantor**"), and **EP Energy E&P Company, L.P.** ("**Grantee**"), a Delaware limited partnership, whose address is 1001 Louisiana Street, Suite 2400, Houston, Texas 77002. Grantor and Grantee are referred to herein individually as a "**Party**" and collectively as "**Parties**."

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the above named Grantor and Grantee have executed that certain *Surface Use Agreement* (the "**Agreement**"), dated effective as of the Effective Date, which governs Grantee's oil and gas operations on the surface of the following described lands owned by Grantor in Duchesne County, Utah:

Township 3 South, Range 5 West, USM
 Section 1: NW¼NE¼

(the "**Premises**"), more particularly described in **Exhibit "A"** attached hereto and made a part hereof.

The Agreement shall remain in full force and effect from the Effective Date, and for so long thereafter as any oil and gas lease owned by Grantee covering all or any portion of the Premises remains valid, and for so long thereafter as Grantee conducts oil and/or gas operations upon the Premises, subject to the termination provisions of the Agreement.

The Agreement neither modifies nor diminishes Grantee's rights under any oil and gas lease owned by Grantee covering all or any portion of the Premises.

The Agreement is binding upon Grantor and Grantee and their respective successors and assigns. Executed copies of the Agreement are maintained in the possession of Grantor and Grantee.

This Memorandum is placed of record for the purpose of giving notice of the Agreement and is given in lieu of recording the Agreement in the records of Duchesne County, Utah. This Memorandum may be executed in any number of counterparts, each of which shall be deemed an original, but all of which shall constitute one and the same instrument.

[SIGNATURE PAGES FOLLOW]

This instrument is executed as of the dates of acknowledgement below, but effective for all purposes as of the Effective Date.

GRANTOR:

By: Holly K. Winslow
Name: Holly K. Winslow

By: Anne Malone
Name: Anne Malone

By: Nancy J. Herring
Name: Nancy J. Herring

By: Teresa B. Burris
Name: Teresa B. Burris
TB VB

CONFIDENTIAL

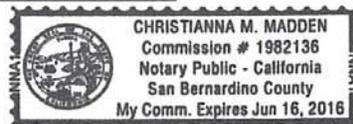
ACKNOWLEDGEMENT

STATE OF California §
COUNTY OF San Bernardino §

The foregoing instrument was acknowledged before me on this 18 day of August, 2014, by **Holly K. Winslow**.

Maadd
NOTARY PUBLIC

My Commission Expires: June 16, 2016



ACKNOWLEDGEMENT

STATE OF Idaho §
COUNTY OF Cassia §

The foregoing instrument was acknowledged before me on this 21 day of August, 2014, by **Anne Malone**.

Carrie L. Clayton
NOTARY PUBLIC

My Commission Expires: 9-29-2019



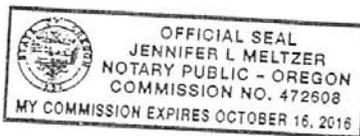
ACKNOWLEDGEMENT

STATE OF Oregon §
COUNTY OF Linn §

The foregoing instrument was acknowledged before me on this 11 day of August, 2014, by **Nancy J. Herring**.

J. Meltzer
NOTARY PUBLIC

My Commission Expires: Oct 16, 2016



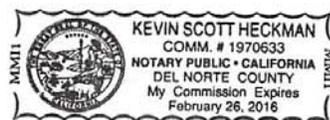
ACKNOWLEDGEMENT

STATE OF California §
COUNTY OF Del Norte §

The foregoing instrument was acknowledged before me on this 8th day of August, 2014, by **Teresa B. Burris**.

TB v. [Signature]
NOTARY PUBLIC

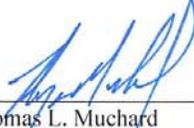
My Commission Expires: Feb. 26, 2016



This instrument is executed as of the dates of acknowledgement below, but effective for all purposes as of the Effective Date.

GRANTEE:

EP ENERGY E&P COMPANY, L.P.

By: 
Name: Thomas L. Muchard JDB
Title: Agent and Attorney-in-Fact

ACKNOWLEDGEMENT

STATE OF TEXAS §
 §
COUNTY OF HARRIS §

The foregoing instrument was acknowledged before me on this 16th day of September 2014, by **Thomas L. Muchard** as Agent and Attorney-in-Fact for EP Energy E&P Company, L.P., a Delaware limited partnership, on behalf of said limited partnership.

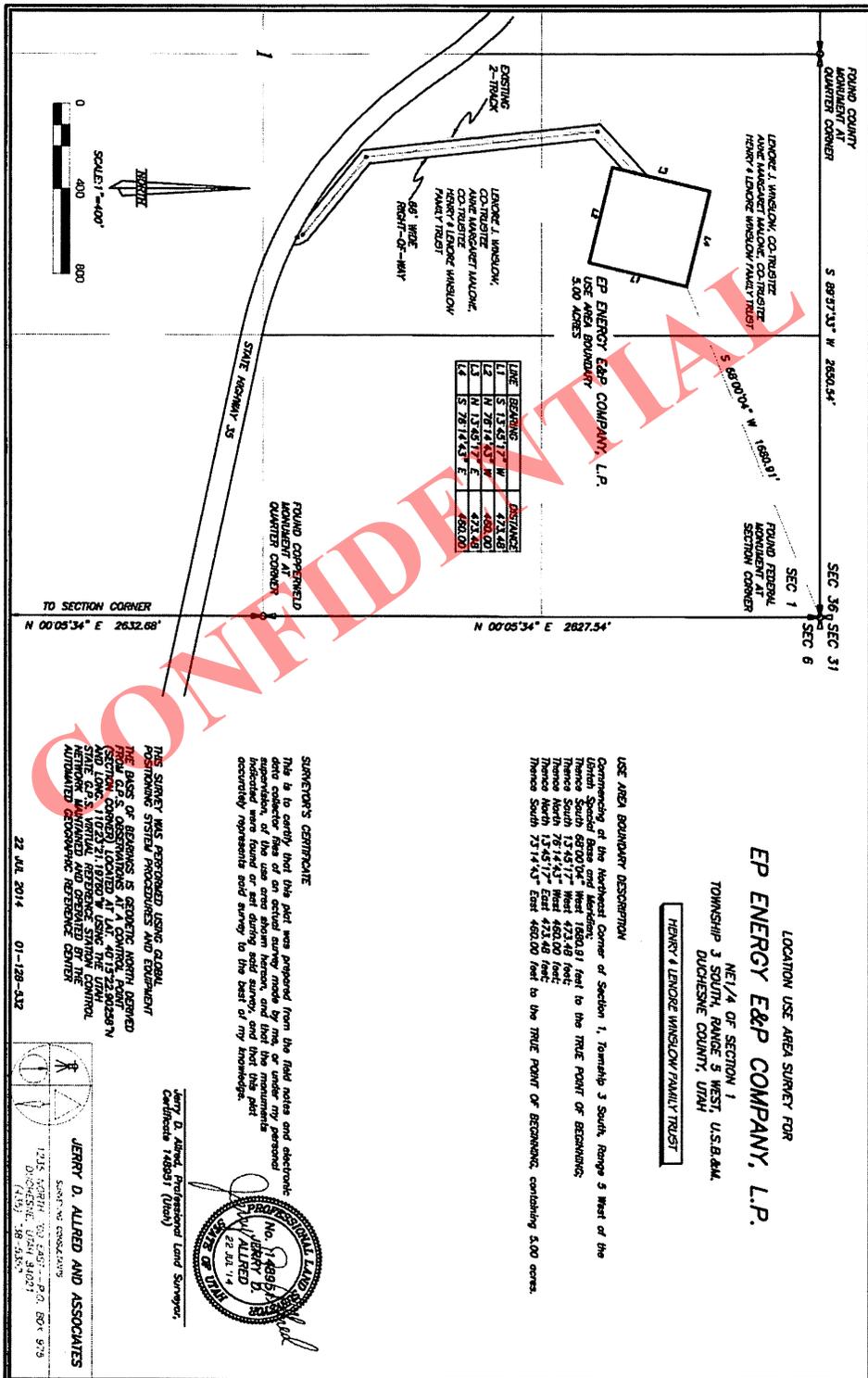



NOTARY PUBLIC

My Commission Expires: 8/2/2018

CONFIDENTIAL

EXHIBIT "A"



Well Name	EP ENERGY E&P COMPANY, L.P. Winslow 4-1C5 43013532690000			
String	Cond	Surf	I1	L1
Casing Size(")	13.375	9.625	7.000	5.000
Setting Depth (TVD)	700	2200	9700	13100
Previous Shoe Setting Depth (TVD)	0	700	2200	9700
Max Mud Weight (ppg)	8.3	8.3	10.4	12.8
BOPE Proposed (psi)	500	500	10000	10000
Casing Internal Yield (psi)	2730	5750	11220	13940
Operators Max Anticipated Pressure (psi)	8719			12.8

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 stack
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
Required Casing/BOPE Test Pressure=		500	psi
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi *Assumes 1psi/ft frac gradient

Calculations	Surf String	9.625	"
Max BHP (psi)	.052*Setting Depth*MW=	950	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	686	NO <input type="checkbox"/> diverter, air drilling
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
Required Casing/BOPE Test Pressure=		2200	psi
*Max Pressure Allowed @ Previous Casing Shoe=		700	psi *Assumes 1psi/ft frac gradient

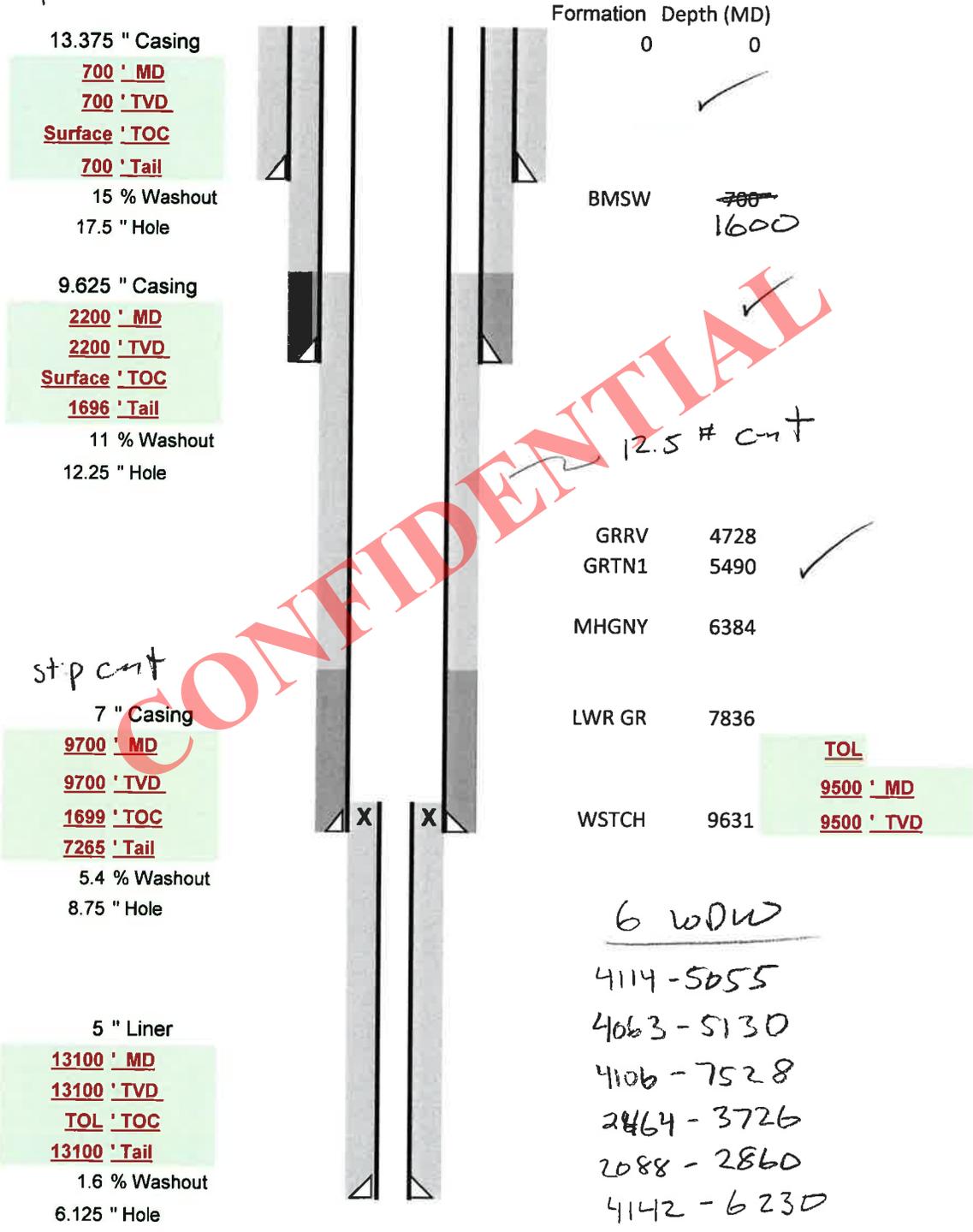
Calculations	I1 String	7.000	"
Max BHP (psi)	.052*Setting Depth*MW=	5246	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	4082	YES <input type="checkbox"/> 10M BOP stack, 5M annular
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	3112	YES <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)=	3596	NO <input type="checkbox"/> OK
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=	8719	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	7147	YES <input type="checkbox"/> 10M BOP stack, 5M annular
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	5837	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)=	7971	YES <input type="checkbox"/>
Required Casing/BOPE Test Pressure=		9758	psi
*Max Pressure Allowed @ Previous Casing Shoe=		9700	psi *Assumes 1psi/ft frac gradient

EP ENERGY E&P COMPANY, L.P.

Winslow 4-1C5
43013532690000

stip rot head



13.375 " Casing
700 ' MD
700 ' TVD
Surface ' TOC
700 ' Tail
15 % Washout
17.5 " Hole

9.625 " Casing
2200 ' MD
2200 ' TVD
Surface ' TOC
1696 ' Tail
11 % Washout
12.25 " Hole

stip cut
7 " Casing
9700 ' MD
9700 ' TVD
1699 ' TOC
7265 ' Tail
5.4 % Washout
8.75 " Hole

5 " Liner
13100 ' MD
13100 ' TVD
TOL ' TOC
13100 ' Tail
1.6 % Washout
6.125 " Hole

Formation Depth (MD)
0 0

BMSW ~~700~~
1600

GRRV 4728
GRTN1 5490
MHGNY 6384

LWR GR 7836
WSTCH 9631

TOL
9500 ' MD
9500 ' TVD

12.5 # cut

6 WDW
4114 - 5055
4063 - 5130
4106 - 7528
2464 - 3726
2088 - 2860
4142 - 6230

EP ENERGY E&P COMPANY, L.P.
Winslow 4-1C5
43013532690000

1.125											1.8													
MAASP	Collapse Strength (psi)	Collapse Load (psi)	Collapse DF	Burst Strength (psi)	Burst Load (psi)	Burst DF	Tension Strength (kips)	Tension DF	Neutral Point (ft)	Tension Air (kips)	Tension Buoyed (kips)	MAASP	Collapse Strength (psi)	Collapse Load (psi)	Collapse DF	Burst Strength (psi)	Burst Load (psi)	Burst DF	Tension Strength (kips)	Tension DF	Neutral Point (ft)	Tension Air (kips)	Tension Buoyed (kips)	
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													
MAASP	Collapse Strength (psi)	Collapse Load (psi)	Collapse DF	Burst Strength (psi)	Burst Load (psi)	Burst DF	Tension Strength (kips)	Tension DF	Neutral Point (ft)	Tension Air (kips)	Tension Buoyed (kips)													
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	3591	40.0	N-80	LTC	373	2.36	195	1.30													
MAASP	Collapse Strength (psi)	Collapse Load (psi)	Collapse DF	Burst Strength (psi)	Burst Load (psi)	Burst DF	Tension Strength (kips)	Tension DF	Neutral Point (ft)	Tension Air (kips)	Tension Buoyed (kips)													
5829	9200	5241	1.76	11220	7963	1.41	797	3.36	8157	281.3	237.0													
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													
10.4	0.22	0.0	0.0	7963	29.0	HCP-110	LTC	563.0	1.91	292.0	1.64													
MAASP	Collapse Strength (psi)	Collapse Load (psi)	Collapse DF	Burst Strength (psi)	Burst Load (psi)	Burst DF	Tension Strength (kips)	Tension DF	Neutral Point (ft)	Tension Air (kips)	Tension Buoyed (kips)													
5829	13418	8711	1.54	13940	8711	1.60	495	9.49	12395	64.8	52.2													
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													
12.8	0.22	0.0	0.0	9500	18.0	HCP-110	LTC	206.0	1.52	0.0	0.00													

13.375 " Casing

9.625 " Casing

7 " Casing

5 " Casing

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator EP ENERGY E&P COMPANY, L.P.
Well Name Winslow 4-1C5
API Number 43013532690000 **APD No** 11069 **Field/Unit** ALTAMONT
Location: 1/4,1/4 NWNE **Sec 1 Tw** 3.0S **Rng** 5.0W 800 FNL 1800 FEL
GPS Coord (UTM) 551391 4456150 **Surface Owner** Holly K. Winslow

Participants

Kelsey Carter (Land Agent); Randy Frederick (EP Energy Construction); Dennis Ingram (UDOGM)

Regional/Local Setting & Topography

The proposed Winslow 4-1C5 is located in northeastern Utah, approximately 5.87 miles north of Duchesne on US Highway 87, then west along the Tabiona Highway for 0.48 miles, then north along a new access road for another 0.39 miles into well site. This project is located along the northwestern reached of Blue Bench, which is a nearly flat bench that slopes gently to the south and west toward the Duchesne River Drainage. Blue Bench was utilized at one time as an alfalfa producing cropland and irrigated, but has since transformed into an arid, dry habitat with dense sagebrush community. Residential area and river bottom to the south, Utahan and the Duchesne River bottom to the southwest. The immediate area at the proposed well site slopes gently to the south, southwest, and is open, sagebrush country west of Highway 87.

Surface Use Plan

Current Surface Use

Wildlfe Habitat
Deer Winter Range

New Road Miles

0.39

Well Pad

Width 407 **Length** 410

Src Const Material

Onsite

Surface Formation

UNTA

Ancillary Facilities N

Top soil storage not noted on cut and fill sheets, so operator shall store topsoil south of location between corners 8, 1, and 2.

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

Dense, high sagebrush, bunch grass, prickly pear cactus;

Potential mule deer, mountain lion, coyote, fox, rabbit, prairie dog, field mice, other small mammals native to region, also birds typically found in northeastern Utah

Soil Type and Characteristics

Reddish color, fine-grained, sandy loam with some clays but mostly blow sand

Erosion Issues N

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

Site-Specific Factors	Site Ranking
Distance to Groundwater (feet) >200	0
Distance to Surface Water (feet) >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	
Presence Nearby Utility Conduits Not Present	0
Final Score	25 1 Sensitivity Level

Characteristics / Requirements

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

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

Landowners invited but did not attend, no drainage issues, store topsoil off south side of location between corners 8, 1, & 2.

Dennis Ingram
Evaluator

3/4/2015
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
11069	43013532690000	LOCKED	OW	P	No
Operator	EP ENERGY E&P COMPANY, L.P.		Surface Owner-APD	Holly K. Winslow	
Well Name	Winslow 4-1C5		Unit		
Field	ALTAMONT		Type of Work	DRILL	
Location	NWNE 1 3S 5W U 800 FNL 1800 FEL GPS Coord (UTM) 551389E 4456141N				

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 and intermediate holes will be drilled utilizing fresh water mud. The estimated depth to the base of moderately saline ground water is 1,700 feet. A search of Division of Water Rights records indicates that there are 25 water wells within a 10,000 foot radius of the center of Section 1. These wells probably produce water from the Duchesne River Formation and associated alluvium. The wells are listed as being used for irrigation, stock watering, municipal, oil exploration and domestic. The proposed drilling, casing and cement program should adequately protect the highly used Duchesne River aquifer.

Brad Hill
APD Evaluator

3/16/2015
Date / Time

Surface Statement of Basis

Surface slopes to the south, southwest, relatively, minus any drainage issues. The reserve pit is staked off the north side of the location in cut, and will require a 20 mil synthetic liner as proposed in the Application to Drill. The location shall also be bermed to prevent drilling or production fluids from leaving the location. Topsoil shall be stored south of location between corners 8, 1, & 2.

A presite was scheduled and performed for the Winslow 4-1C5 on March 4, 2015 to take input and address issues regarding the construction and drilling of this well. The landowner of record was reached by telephone and invited to the presite but did not attend. EP Energy and the surface owners have entered into a surface Use Agreement dated July 23, 2014, and submitted an Affidavit to the Division for records.

Dennis Ingram
Onsite Evaluator

3/4/2015
Date / Time

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 20ils shall be properly installed and maintained in the reserve pit.
Pits	The reserve pit should be located on the north side of the location.
Surface	The well site shall be bermed to prevent fluids from entering or leaving the pad.

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 2/12/2015

API NO. ASSIGNED: 43013532690000

WELL NAME: Winslow 4-1C5

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

PHONE NUMBER: 713 997-5038

CONTACT: Maria S. Gomez

PROPOSED LOCATION: NWNE 01 030S 050W

Permit Tech Review:

SURFACE: 0800 FNL 1800 FEL

Engineering Review:

BOTTOM: 0800 FNL 1800 FEL

Geology Review:

COUNTY: DUCHESNE

LATITUDE: 40.25415

LONGITUDE: -110.39573

UTM SURF EASTINGS: 551389.00

NORTHINGS: 4456141.00

FIELD NAME: ALTAMONT

LEASE TYPE: 4 - Fee

LEASE NUMBER: Fee

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

SURFACE OWNER: 4 - Fee

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

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

Commingling Approved

LOCATION AND SITING:

- R649-2-3.
- Unit:
- R649-3-2. General
- R649-3-3. Exception
- Drilling Unit
- Board Cause No: Cause 139-124
- Effective Date: 11/6/2014
- Siting: 8 WELLS PER SECTION
- R649-3-11. Directional Drill

Comments: Presite Completed

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



GARY R. HERBERT
Governor

SPENCER J. COX
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: Winslow 4-1C5

API Well Number: 43013532690000

Lease Number: Fee

Surface Owner: FEE (PRIVATE)

Approval Date: 3/16/2015

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:

Cement volume for the 7" casing shall be determined from actual hole diameter in order to place tail cement from the pipe setting depth back to 7300' MD (above Lower Green River) as indicated in the submitted drilling plan.

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

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

Additional Approvals:

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

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

- Plug and abandonment of the well - contact Dustin Doucet

Notification Requirements:

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

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

Contact Information:

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

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

Reporting Requirements:

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

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

Approved By:



For John Rogers
Associate Director, Oil & Gas

CONFIDENTIAL

Carol Daniels <caroldaniels@utah.gov>

NWNE S-01 T039 R05W FEB LEASE

Cemented 13 3/8" CONDUCTOR II on Winslow 4-1C5

1 message

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

Tue, Mar 31, 2015 at 7:49 AM

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

RE: EP ENERGY
WINSLOW 4-1C5
API Well Number: 43013532690000
DUCHESNE CO., UTAH

Pro Petro cemented 715' of 13 3/8" CONDUCTOR II on Winslow 4-1C5 well 03/31/2015.

Regards,
Eugene Parker
Well site Supervisor
Patterson 307
713-997-1255

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.

CONFIDENTIAL

Carol Daniels <caroldaniels@utah.gov>

NWNE SEC 01 T035 ROSW FEE LEASE

WITHIN 24 HOURS POST NOTICE - Spudded 24" conductor hole on Winslow 4-1C5

1 message

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

Fri, Mar 27, 2015 at 2:37 PM

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

RE: EP ENERGY

~~FLANNERY 3-2004~~ *WINSLOW 4 1C5*

API Well Number: 43013532690000

DUCHESNE CO., UTAH

Leon Ross Drilling began drilling 24" conductor hole on the Winslow 4-1C5 well 03/26/2015.

Regards,
Eugene Parker
Well site Supervisor
Patterson 307
713-997-1255

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.

CONFIDENTIAL

Carol Daniels <caroldaniels@utah.gov>

NWNE SEC. 01 T035 R05W FEE LEASE

WITHIN 24 HOURS POST NOTICE - Spudded 8 3/4" hole on Winslow 4-1C5

1 message

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

Sat, Apr 18, 2015 at 2:18 PM

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

RE: EP ENERGY
WINSLOW 4-1C5
API Well Number: 43013532690000
DUCHESNE CO., UTAH

Patterson Drilling began drilling 8 3/4" Intermediate hole on the Winslow 4-1C5 well, 1600 HOURS on 04/17/2015.

Regards,
Eugene Parker
Well site Supervisor
Patterson 307
713-997-1255

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.

CONFIDENTIAL

Carol Daniels <caroldaniels@utah.gov>

NWNE S-01 T 03S R05W FEE LEASE

Intent to run & cement Intermediate Casing on Winslow 4-1C5

1 message

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

Fri, Apr 24, 2015 at 12:34 PM

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

RE: EP ENERGY
WINSLOW 4-1C5
API Well Number: 43013532690000
DUCHESNE CO., UTAH

We intend to run & cement 9,700' of 7" Intermediate Casing on the Winslow 4-1C5 well within 24 hrs.

Regards,
Eugene Parker
Well site Supervisor
Patterson 307
713-997-1255

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
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.	5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
1. TYPE OF WELL Oil Well	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.	7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 1001 Louisiana , Houston, TX, 77002	8. WELL NAME and NUMBER: Winslow 4-1C5
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0800 FNL 1800 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 01 Township: 03.0S Range: 05.0W Meridian: U	9. API NUMBER: 43013532690000
5. PHONE NUMBER: 713 997-5038 Ext	9. FIELD and POOL or WILDCAT: ALTAMONT
	COUNTY: DUCHESNE
	STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 5/22/2015	<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 well into the Wasatch. Please see attached.

Approved by the
May 27, 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 5/13/2015	

Winslow 4-1C5

Initial Completion

API # : 4301353269

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 ~12131' – 12450' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of THS 30/50. Total clean water volume is 3746 bbls. |
| Stage #2 | RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~11829' – 12098' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of THS 30/50. Total clean water volume is 3740 bbls. |
| Stage #3 | RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~11524' – 11783' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of THS 30/50. Total clean water volume is 3735 bbls. |
| Stage #4 | RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~11186' – 11452' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of THS 30/50. Total clean water volume is 3729 bbls. |
| Stage #5 | RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~10899' – 11151' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of THS 30/50. Total clean water volume is 3724 bbls. |

Stage #6 RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~10601' – 10860' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of THS 30/50. Total clean water volume is 3718 bbls.

Stage #7 RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~10298' – 10570' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of TLC 30/50. Total clean water volume is 3713 bbls.

Stage #8 RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~10027' – 10254' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of TLC 30/50. Total clean water volume is 3708 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	12,131	12,450	319	NA	23	69	17	THS 30/50	150,000	470	3,000	5,000	3,746	4,158
Stage #2	11,829	12,098	269	12,113	23	69	17	THS 30/50	150,000	558	3,000	5,000	3,740	4,152
Stage #3	11,524	11,783	259	11,798	22	66	17	THS 30/50	150,000	579	3,000	5,000	3,735	4,147
Stage #4	11,186	11,452	266	11,467	23	69	17	THS 30/50	150,000	564	3,000	5,000	3,729	4,141
Stage #5	10,899	11,151	252	11,166	23	69	17	THS 30/50	150,000	595	3,000	5,000	3,724	4,136
Stage #6	10,601	10,860	259	10,875	23	69	17	THS 30/50	150,000	579	3,000	5,000	3,718	4,131
Stage #7	10,298	10,570	272	10,585	23	69	17	TLC 30/50	150,000	551	3,000	5,000	3,713	4,114
Stage #8	10,027	10,254	227	10,269	23	69	17	TLC 30/50	150,000	661	3,000	5,000	3,708	4,109
Stage #9	9,771	9,990	219	10,005	22	66	17	TLC 30/50	150,000	685	3,000	5,000	3,704	4,104
Average per Stage			260		23	68	17		150,000	582	3,000	5,000	3,724	4,132
Totals per Well			2,342		205	615	153		1,350,000		27,000	45,000	33,517	37,191

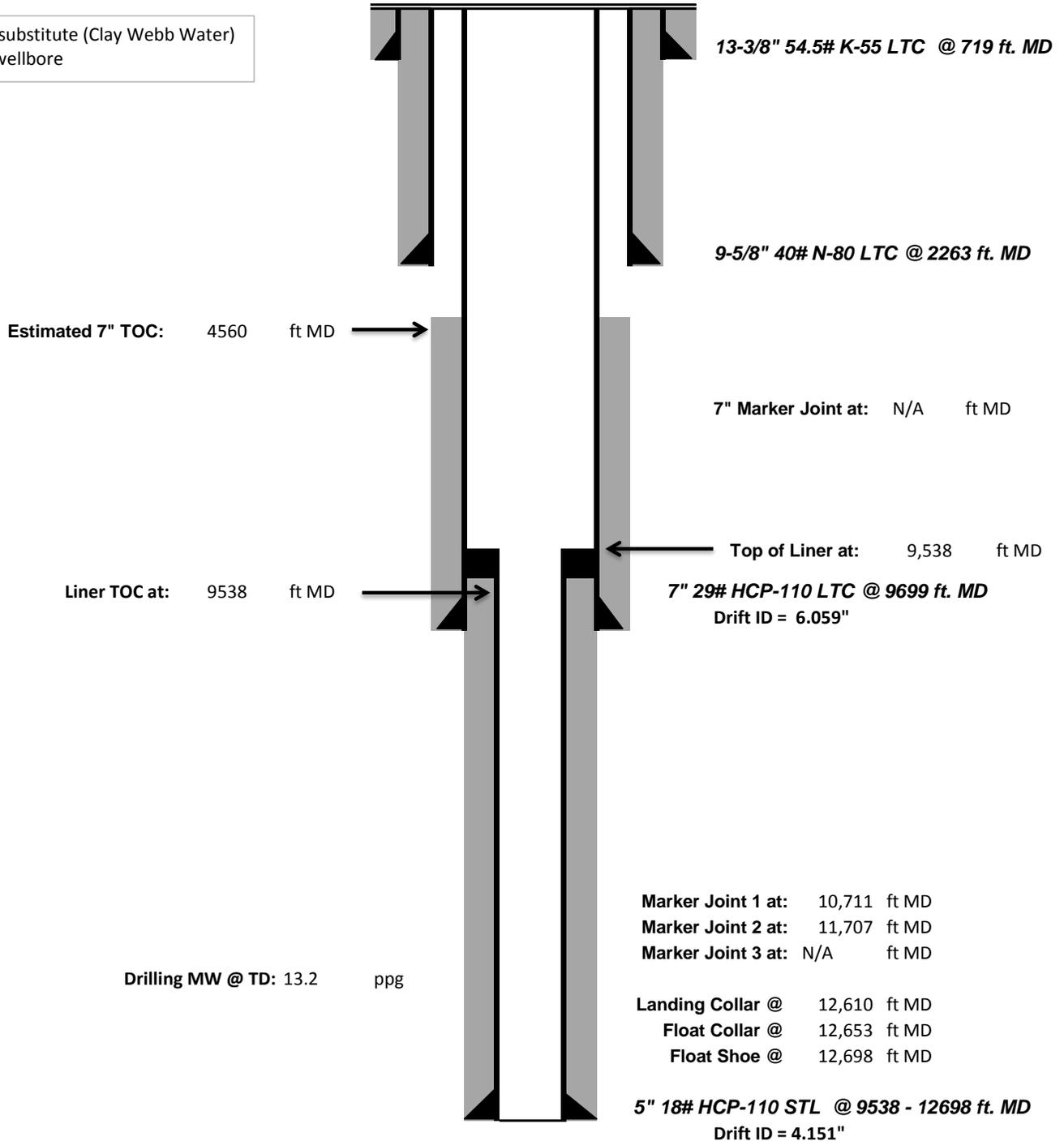


Pre-Completion Wellbore Schematic

Well Name: **Winslow 4-1C5**
 Company Name: **EP Energy**
 Field, County, State: **Altamont, Duchesne, UT**
 Surface Location: **Lat: 40 15' 14.985" N Long: 110 23' 44.423" W**
 Producing Zone(s): **Upper Wasatach**

Last Updated: **5/12/2015**
 By: **Peter Schmeltz**
 TD: **12,698**
 API: **4301353269**
 AFE: **162790**

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



13-3/8" 54.5# K-55 LTC @ 719 ft. MD

9-5/8" 40# N-80 LTC @ 2263 ft. MD

Estimated 7" TOC: 4560 ft MD

7" Marker Joint at: N/A ft MD

Liner TOC at: 9538 ft MD

Top of Liner at: 9,538 ft MD

7" 29# HCP-110 LTC @ 9699 ft. MD
 Drift ID = 6.059"

Drilling MW @ TD: 13.2 ppg

Marker Joint 1 at: 10,711 ft MD
 Marker Joint 2 at: 11,707 ft MD
 Marker Joint 3 at: N/A ft MD

Landing Collar @ 12,610 ft MD
 Float Collar @ 12,653 ft MD
 Float Shoe @ 12,698 ft MD

5" 18# HCP-110 STL @ 9538 - 12698 ft. MD
 Drift ID = 4.151"

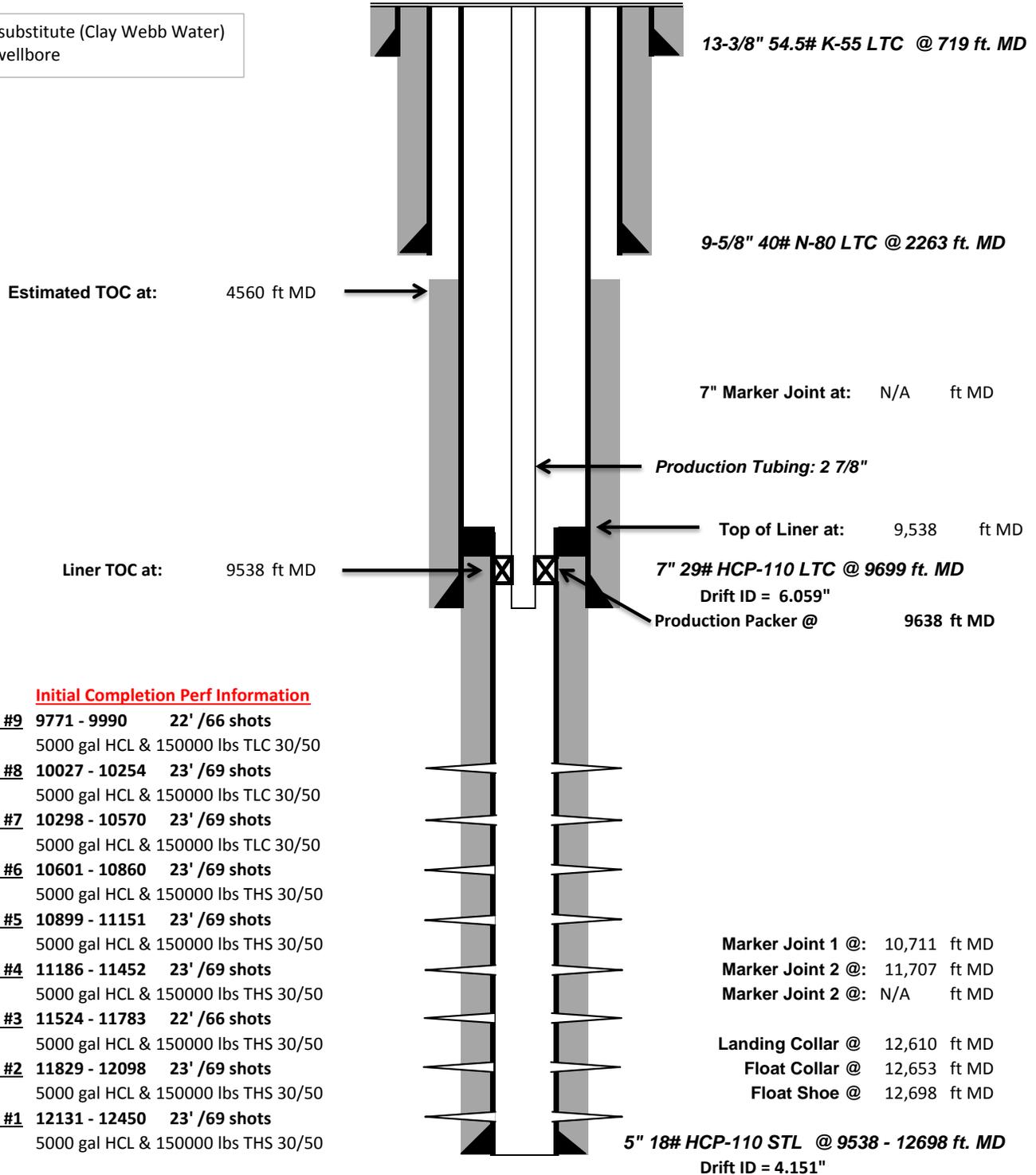


Post-Completion Wellbore Schematic

Well Name: **Winslow 4-1C5**
 Company Name: **EP Energy**
 Field, County, State: **Altamont, Duchesne, UT**
 Surface Location: **Lat: 40 15' 14.985" N Long: 110 23' 44.423" W**
 Producing Zone(s): **Upper Wasatach**

Last Updated: **5/12/2015**
 By: **Peter Schmeltz**
 TD: **12,698**
 API: **4301353269**
 AFE: **162790**

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



Initial Completion Perf Information

- Stage #9** 9771 - 9990 22' /66 shots
5000 gal HCL & 150000 lbs TLC 30/50
- Stage #8** 10027 - 10254 23' /69 shots
5000 gal HCL & 150000 lbs TLC 30/50
- Stage #7** 10298 - 10570 23' /69 shots
5000 gal HCL & 150000 lbs TLC 30/50
- Stage #6** 10601 - 10860 23' /69 shots
5000 gal HCL & 150000 lbs THS 30/50
- Stage #5** 10899 - 11151 23' /69 shots
5000 gal HCL & 150000 lbs THS 30/50
- Stage #4** 11186 - 11452 23' /69 shots
5000 gal HCL & 150000 lbs THS 30/50
- Stage #3** 11524 - 11783 22' /66 shots
5000 gal HCL & 150000 lbs THS 30/50
- Stage #2** 11829 - 12098 23' /69 shots
5000 gal HCL & 150000 lbs THS 30/50
- Stage #1** 12131 - 12450 23' /69 shots
5000 gal HCL & 150000 lbs THS 30/50

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

AMENDED REPORT FORM 8
(highlight changes)

5. LEASE DESIGNATION AND SERIAL NUMBER:

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT or CA AGREEMENT NAME

8. WELL NAME and NUMBER:

9. API NUMBER:

10 FIELD AND POOL, OR WILDCAT

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

12. COUNTY

13. STATE

UTAH

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL GAS WELL DRY OTHER _____

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

2. NAME OF OPERATOR:

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

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE:

AT TOP PRODUCING INTERVAL REPORTED BELOW:

AT TOTAL DEPTH:

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

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

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each) 23. WAS WELL CORED? NO YES (Submit analysis)
WAS DST RUN? NO YES (Submit report)
DIRECTIONAL SURVEY? NO YES (Submit copy)

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

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

25. TUBING RECORD

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

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A)				
(B)				
(C)				
(D)				

27. PERFORATION RECORD

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

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

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL

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

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

30. WELL STATUS:

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

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

INTERVAL B (As shown in item #26)

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

INTERVAL C (As shown in item #26)

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

INTERVAL D (As shown in item #26)

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

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

33. SUMMARY OF POROUS ZONES (Include Aquifers):

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

34. FORMATION (Log) MARKERS:

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

35. ADDITIONAL REMARKS (Include plugging procedure)

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

NAME (PLEASE PRINT) _____ TITLE _____
 SIGNATURE _____ DATE _____

This report must be submitted within 30 days of

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

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

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

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

Attachment to Well Completion Report**Form 8 Dated June 23, 2015****Well Name: Winslow 4-1C5****Items #27 and #28 Continued****27. Perforation Record**

Interval (Top/Bottom – MD)	Size	No. of Holes	Perf. Status
10899'-11151'	.38	69	Open
10601'-10860'	.38	69	Open
10298'-10570'	.38	69	Open
10027'-10254'	.38	69	Open
9771'-9990'	.38	66	Open

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

Depth Interval	Amount and Type of Material
11186'-11452'	5000 gal acid, 3000# 100 mesh, 150700# 30/50 THS
10899'-11151'	5000 gal acid, 3000# 100 mesh, 150400# 30/50 THS
10601'-10860'	5000 gal acid, 5000# 100 mesh, 147780# 30/50 THS
10298'-10570'	5000 gal acid, 3000# 100 mesh, 150000# 30/50 TLC
10027'-10254'	5000 gal acid, 3000# 100 mesh, 150600# 30/50 TLC
9771'-9990'	5000 gal acid, 3000# 100 mesh, 151060# 30/50 TLC



Company: EP Energy Job Number: _____
 Well: Winslow 4-1C5 Mag Decl.: _____
 Location: Duchesne, UT Dir Driller: _____
 Rig: Patterson 307 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	0.30	159.27	100.00	100.00	-0.24	0.24	S	0.09	E	0.26	159.27	0.30	0.30	159.27
2	200.00	0.19	160.23	100.00	200.00	-0.64	0.64	S	0.24	E	0.68	159.50	0.11	-0.11	0.96
3	300.00	0.40	211.59	100.00	300.00	-1.09	1.09	S	0.11	E	1.09	174.04	0.32	0.21	51.36
4	400.00	0.35	248.99	100.00	400.00	-1.49	1.49	S	0.35	W	1.53	193.25	0.24	-0.05	37.41
5	500.00	0.22	211.49	100.00	499.99	-1.77	1.77	S	0.74	W	1.91	202.62	0.22	-0.13	-37.51
6	600.00	0.13	286.33	100.00	599.99	-1.90	1.90	S	0.95	W	2.12	206.55	0.23	-0.09	74.84
7	700.00	0.11	118.43	100.00	699.99	-1.91	1.91	S	0.98	W	2.15	207.11	0.24	-0.03	-167.90
8	800.00	0.11	350.23	100.00	799.99	-1.86	1.86	S	0.91	W	2.07	206.09	0.19	0.00	231.79
9	900.00	0.33	62.91	100.00	899.99	-1.64	1.64	S	0.67	W	1.77	202.29	0.32	0.22	-287.32
10	1000.00	0.42	154.36	100.00	999.99	-1.84	1.84	S	0.25	W	1.86	187.88	0.54	0.09	91.45
11	1100.00	0.33	106.51	100.00	1099.99	-2.26	2.26	S	0.18	E	2.26	175.31	0.32	-0.09	-47.85
12	1200.00	0.45	117.87	100.00	1199.99	-2.52	2.52	S	0.81	E	2.65	162.11	0.14	0.12	11.36
13	1300.00	0.54	92.66	100.00	1299.98	-2.73	2.73	S	1.63	E	3.18	149.11	0.23	0.08	-25.21
14	1400.00	0.36	104.23	100.00	1399.98	-2.83	2.83	S	2.40	E	3.71	139.65	0.20	-0.18	11.58
15	1500.00	0.84	114.27	100.00	1499.97	-3.21	3.21	S	3.37	E	4.65	133.56	0.49	0.49	10.04
16	1600.00	0.58	119.94	100.00	1599.97	-3.76	3.76	S	4.48	E	5.85	130.02	0.27	-0.26	5.67
17	1700.00	0.81	116.30	100.00	1699.96	-4.32	4.32	S	5.55	E	7.03	127.94	0.24	0.23	-3.64
18	1800.00	1.04	114.64	100.00	1799.95	-5.01	5.01	S	7.00	E	8.61	125.60	0.23	0.23	-1.66
19	1900.00	0.89	129.57	100.00	1899.93	-5.89	5.89	S	8.43	E	10.28	124.94	0.29	-0.15	14.93
20	2000.00	0.89	120.23	100.00	1999.92	-6.77	6.77	S	9.70	E	11.83	124.94	0.15	0.00	-9.34
21	2100.00	0.90	118.35	100.00	2099.91	-7.54	7.54	S	11.06	E	13.39	124.28	0.03	0.01	-1.88
22	2147.00	1.15	133.56	47.00	2146.90	-8.04	8.04	S	11.73	E	14.22	124.43	0.78	0.53	32.37
23	2370.00	1.00	51.10	223.00	2369.87	-8.36	8.36	S	14.86	E	17.05	119.35	0.64	-0.07	-36.98
24	2466.00	2.20	39.30	96.00	2465.83	-6.41	6.41	S	16.68	E	17.87	111.01	1.29	1.25	-12.29
25	2561.00	2.40	42.00	95.00	2560.76	-3.52	3.52	S	19.17	E	19.49	100.40	0.24	0.21	2.84
26	2656.00	2.40	38.40	95.00	2655.67	-0.48	0.48	S	21.73	E	21.74	91.26	0.16	0.00	-3.79
27	2758.00	2.30	47.50	102.00	2757.59	2.58	2.58	N	24.57	E	24.70	84.01	0.38	-0.10	8.92
28	2846.00	2.90	31.30	88.00	2845.50	5.67	5.67	N	27.03	E	27.62	78.15	1.07	0.68	-18.41
29	2942.00	2.50	31.30	96.00	2941.39	9.54	9.54	N	29.38	E	30.89	72.02	0.42	-0.42	0.00
30	3037.00	2.80	25.80	95.00	3036.29	13.40	13.40	N	31.46	E	34.20	66.94	0.41	0.32	-5.79
31	3132.00	2.90	21.70	95.00	3131.17	17.72	17.72	N	33.36	E	37.77	62.03	0.24	0.11	-4.32
32	3228.00	2.50	29.10	96.00	3227.07	21.80	21.80	N	35.28	E	41.47	58.28	0.55	-0.42	7.71
33	3322.00	2.60	19.70	94.00	3320.97	25.60	25.60	N	36.99	E	44.99	55.31	0.46	0.11	-10.00
34	3417.00	2.20	18.50	95.00	3415.89	29.36	29.36	N	38.30	E	48.26	52.53	0.42	-0.42	-1.26
35	3511.00	2.60	350.90	94.00	3509.81	33.18	33.18	N	38.53	E	50.85	49.27	1.29	0.43	353.62



Company: EP Energy
Well: Winslow 4-1C5
Location: Duchesne, UT
Rig: Patterson 307

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	3607.00	2.20	343.50	96.00	3605.73	37.09	37.09	N	37.67	E	52.86	45.44	0.53	-0.42	-7.71
37	3702.00	2.10	348.80	95.00	3700.66	40.55	40.55	N	36.81	E	54.77	42.23	0.23	-0.11	5.58
38	3798.00	2.40	0.60	96.00	3796.58	44.28	44.28	N	36.49	E	57.38	39.49	0.57	0.31	-362.71
39	3894.00	1.90	349.90	96.00	3892.52	47.86	47.86	N	36.23	E	60.03	37.13	0.67	-0.52	363.85
40	3990.00	2.40	11.00	96.00	3988.45	51.40	51.40	N	36.34	E	62.95	35.26	0.97	0.52	-353.02
41	4086.00	2.00	11.20	96.00	4084.38	55.02	55.02	N	37.05	E	66.33	33.95	0.42	-0.42	0.21
42	4182.00	2.70	14.90	96.00	4180.30	58.85	58.85	N	37.95	E	70.02	32.82	0.75	0.73	3.85
43	4278.00	2.30	16.40	96.00	4276.21	62.88	62.88	N	39.08	E	74.03	31.86	0.42	-0.42	1.56
44	4373.00	1.40	8.10	95.00	4371.16	65.86	65.86	N	39.78	E	76.94	31.13	0.99	-0.95	-8.74
45	4469.00	1.60	0.40	96.00	4467.12	68.36	68.36	N	39.95	E	79.18	30.31	0.30	0.21	-8.02
46	4563.00	2.80	20.40	94.00	4561.05	71.82	71.82	N	40.76	E	82.58	29.58	1.50	1.28	21.28
47	4659.00	1.90	29.90	96.00	4656.97	75.40	75.40	N	42.37	E	86.49	29.34	1.02	-0.94	9.90
48	4754.00	2.10	26.10	95.00	4751.91	78.33	78.33	N	43.92	E	89.80	29.28	0.25	0.21	-4.00
49	4850.00	2.90	25.50	96.00	4847.82	82.10	82.10	N	45.74	E	93.98	29.13	0.83	0.83	-0.63
50	4946.00	1.80	29.20	96.00	4943.74	85.61	85.61	N	47.52	E	97.91	29.04	1.16	-1.15	3.85
51	5042.00	1.60	21.50	96.00	5039.70	88.17	88.17	N	48.75	E	100.75	28.94	0.32	-0.21	-8.02
52	5137.00	2.40	28.00	95.00	5134.64	91.16	91.16	N	50.17	E	104.06	28.83	0.87	0.84	6.84
53	5232.00	2.40	25.60	95.00	5229.56	94.71	94.71	N	51.96	E	108.03	28.75	0.11	0.00	-2.53
54	5327.00	2.70	17.50	95.00	5324.46	98.64	98.64	N	53.50	E	112.21	28.47	0.49	0.32	-8.53
55	5423.00	1.10	17.30	96.00	5420.41	101.68	101.68	N	54.45	E	115.34	28.17	1.67	-1.67	-0.21
56	5518.00	1.60	359.70	95.00	5515.38	103.87	103.87	N	54.72	E	117.40	27.78	0.68	0.53	360.42
57	5614.00	2.20	8.10	96.00	5611.33	107.04	107.04	N	54.97	E	120.33	27.18	0.69	0.63	-366.25
58	5709.00	2.00	9.90	95.00	5706.26	110.48	110.48	N	55.51	E	123.64	26.68	0.22	-0.21	1.89
59	5803.00	1.70	22.90	94.00	5800.21	113.38	113.38	N	56.33	E	126.60	26.42	0.55	-0.32	13.83
60	5898.00	1.20	6.80	95.00	5895.18	115.66	115.66	N	57.00	E	128.94	26.24	0.67	-0.53	-16.95
61	5994.00	0.30	328.40	96.00	5991.18	116.87	116.87	N	56.99	E	130.03	25.99	1.02	-0.94	335.00
62	6090.00	0.90	217.90	96.00	6087.17	116.49	116.49	N	56.39	E	129.42	25.83	1.09	0.63	-115.10
63	6185.00	1.20	190.50	95.00	6182.16	114.93	114.93	N	55.75	E	127.74	25.88	0.61	0.32	-28.84
64	6281.00	2.20	184.30	96.00	6278.11	112.10	112.10	N	55.43	E	125.06	26.31	1.06	1.04	-6.46
65	6376.00	2.70	185.30	95.00	6373.03	108.05	108.05	N	55.09	E	121.29	27.01	0.53	0.53	1.05
66	6471.00	2.60	183.70	95.00	6467.92	103.68	103.68	N	54.74	E	117.24	27.84	0.13	-0.11	-1.68
67	6567.00	2.90	171.90	96.00	6563.81	99.10	99.10	N	54.94	E	113.31	29.01	0.67	0.31	-12.29
68	6662.00	2.70	173.50	95.00	6658.70	94.50	94.50	N	55.54	E	109.61	30.44	0.23	-0.21	1.68
69	6756.00	3.00	184.10	94.00	6752.58	89.84	89.84	N	55.61	E	105.66	31.76	0.64	0.32	11.28
70	6852.00	2.10	191.30	96.00	6848.49	85.61	85.61	N	55.09	E	101.80	32.76	0.99	-0.94	7.50
71	6947.00	1.90	197.40	95.00	6943.43	82.40	82.40	N	54.28	E	98.67	33.37	0.31	-0.21	6.42
72	7043.00	2.20	195.50	96.00	7039.37	79.11	79.11	N	53.31	E	95.39	33.97	0.32	0.31	-1.98



Company: EP Energy
Well: Winslow 4-1C5
Location: Duchesne, UT
Rig: Patterson 307

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	7139.00	2.50	193.30	96.00	7135.29	75.29	75.29	N	52.33	E	91.70	34.80	0.33	0.31	-2.29
74	7234.00	2.70	201.30	95.00	7230.19	71.19	71.19	N	51.04	E	87.60	35.64	0.44	0.21	8.42
75	7330.00	2.90	195.80	96.00	7326.08	66.75	66.75	N	49.56	E	83.14	36.59	0.35	0.21	-5.73
76	7426.00	2.80	197.30	96.00	7421.96	62.18	62.18	N	48.20	E	78.67	37.79	0.13	-0.10	1.56
77	7520.00	2.90	207.00	94.00	7515.84	57.86	57.86	N	46.44	E	74.20	38.75	0.52	0.11	10.32
78	7616.00	2.90	205.60	96.00	7611.72	53.51	53.51	N	44.29	E	69.46	39.61	0.07	0.00	-1.46
79	7712.00	3.20	198.70	96.00	7707.58	48.78	48.78	N	42.38	E	64.62	40.98	0.49	0.31	-7.19
80	7807.00	1.50	208.00	95.00	7802.50	45.17	45.17	N	40.95	E	60.97	42.19	1.83	-1.79	9.79
81	7902.00	1.70	209.20	95.00	7897.46	42.84	42.84	N	39.67	E	58.39	42.80	0.21	0.21	1.26
82	7998.00	2.50	201.00	96.00	7993.40	39.65	39.65	N	38.23	E	55.08	43.96	0.89	0.83	-8.54
83	8093.00	2.90	189.20	95.00	8088.29	35.34	35.34	N	37.10	E	51.24	46.39	0.72	0.42	-12.42
84	8189.00	3.10	188.30	96.00	8184.16	30.37	30.37	N	36.34	E	47.36	50.11	0.21	0.21	-0.94
85	8285.00	2.40	188.80	96.00	8280.05	25.82	25.82	N	35.66	E	44.02	54.09	0.73	-0.73	0.52
86	8380.00	2.90	181.40	95.00	8374.95	21.45	21.45	N	35.29	E	41.30	58.71	0.64	0.53	-7.79
87	8475.00	3.50	182.90	95.00	8469.80	16.15	16.15	N	35.09	E	38.63	65.28	0.64	0.63	1.58
88	8570.00	2.20	186.10	95.00	8564.68	11.44	11.44	N	34.75	E	36.58	71.77	1.38	-1.37	3.37
89	8665.00	1.80	184.20	95.00	8659.62	8.14	8.14	N	34.45	E	35.39	76.70	0.43	-0.42	-2.00
90	8761.00	2.20	190.60	96.00	8755.56	4.83	4.83	N	34.00	E	34.34	81.92	0.48	0.42	6.67
91	8857.00	2.20	188.40	96.00	8851.49	1.19	1.19	N	33.39	E	33.41	87.95	0.09	0.00	-2.29
92	8952.00	2.50	174.80	95.00	8946.41	-2.67	2.67	S	33.31	E	33.42	94.59	0.66	0.32	-14.32
93	9047.00	2.80	168.10	95.00	9041.31	-7.01	7.01	S	33.98	E	34.69	101.65	0.45	0.32	-7.05
94	9143.00	2.60	187.40	96.00	9137.21	-11.46	11.46	S	34.18	E	36.05	108.54	0.96	-0.21	20.10
95	9238.00	2.40	187.20	95.00	9232.12	-15.57	15.57	S	33.65	E	37.08	114.83	0.21	-0.21	-0.21
96	9332.00	2.70	184.50	94.00	9326.02	-19.73	19.73	S	33.23	E	38.65	120.70	0.34	0.32	-2.87
97	9428.00	3.20	167.70	96.00	9421.90	-24.60	24.60	S	33.62	E	41.67	126.19	1.03	0.52	-17.50
98	9522.00	3.30	181.80	94.00	9515.75	-29.87	29.87	S	34.10	E	45.33	131.22	0.85	0.11	15.00
99	9618.00	3.40	184.50	96.00	9611.58	-35.47	35.47	S	33.79	E	48.99	136.39	0.19	0.10	2.81
100	9647.00	3.10	189.50	29.00	9640.54	-37.10	37.10	S	33.59	E	50.05	137.84	1.42	-1.03	17.24
101	9700.00	3.12	193.23	53.00	9693.46	-39.92	39.92	S	33.03	E	51.81	140.40	0.38	0.04	7.04
102	9800.00	2.88	210.06	100.00	9793.33	-44.74	44.74	S	31.14	E	54.52	145.16	0.91	-0.24	16.82
103	9900.00	3.23	215.37	100.00	9893.18	-49.21	49.21	S	28.26	E	56.75	150.14	0.45	0.35	5.31
104	10000.00	2.48	212.92	100.00	9993.06	-53.32	53.32	S	25.45	E	59.09	154.48	0.76	-0.75	-2.45
105	10100.00	2.50	212.58	100.00	10092.96	-56.98	56.98	S	23.10	E	61.48	157.93	0.03	0.02	-0.34
106	10200.00	2.25	208.31	100.00	10192.88	-60.55	60.55	S	21.00	E	64.08	160.87	0.31	-0.26	-4.27
107	10300.00	2.65	199.34	100.00	10292.79	-64.45	64.45	S	19.30	E	67.28	163.33	0.56	0.40	-8.96
108	10400.00	2.84	196.27	100.00	10392.67	-69.02	69.02	S	17.84	E	71.29	165.51	0.24	0.19	-3.07
109	10500.00	2.93	198.14	100.00	10492.54	-73.83	73.83	S	16.35	E	75.62	167.51	0.13	0.09	1.87



Company: EP Energy
Well: Winslow 4-1C5
Location: Duchesne, UT
Rig: Patterson 307

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

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

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')		
							N/S (ft)	E/W (ft)	Distance (ft)	Direction Azimuth					
110	10600.00	2.64	193.45	100.00	10592.43	-78.49	78.49	S	15.02	E	79.92	169.17	0.37	-0.30	-4.69
111	10700.00	2.90	187.07	100.00	10692.31	-83.24	83.24	S	14.17	E	84.44	170.34	0.40	0.26	-6.38
112	10800.00	2.68	187.59	100.00	10792.19	-88.07	88.07	S	13.55	E	89.10	171.25	0.21	-0.21	0.51
113	10900.00	2.72	184.29	100.00	10892.08	-92.76	92.76	S	13.07	E	93.67	171.98	0.16	0.04	-3.29
114	11000.00	3.08	184.45	100.00	10991.95	-97.80	97.80	S	12.68	E	98.62	172.61	0.35	0.35	0.16
115	11100.00	3.41	184.61	100.00	11091.79	-103.44	103.44	S	12.23	E	104.16	173.26	0.34	0.34	0.16
116	11200.00	3.30	187.10	100.00	11191.62	-109.26	109.26	S	11.64	E	109.88	173.92	0.19	-0.12	2.49
117	11300.00	3.43	183.28	100.00	11291.45	-115.10	115.10	S	11.11	E	115.64	174.49	0.26	0.14	-3.82
118	11400.00	3.54	181.93	100.00	11391.26	-121.17	121.17	S	10.84	E	121.66	174.89	0.14	0.11	-1.35
119	11500.00	3.31	183.20	100.00	11491.08	-127.14	127.14	S	10.57	E	127.58	175.25	0.24	-0.23	1.27
120	11600.00	3.45	187.55	100.00	11590.91	-133.01	133.01	S	10.01	E	133.39	175.69	0.29	0.13	4.35
121	11700.00	3.61	189.87	100.00	11690.72	-139.09	139.09	S	9.08	E	139.39	176.26	0.22	0.16	2.32
122	11800.00	4.10	193.33	100.00	11790.49	-145.67	145.67	S	7.72	E	145.87	176.97	0.55	0.49	3.45
123	11900.00	4.01	191.74	100.00	11890.24	-152.57	152.57	S	6.18	E	152.70	177.68	0.15	-0.09	-1.58
124	12000.00	3.75	200.40	100.00	11990.02	-159.06	159.06	S	4.33	E	159.12	178.44	0.64	-0.26	8.66
125	12100.00	3.03	197.08	100.00	12089.84	-164.65	164.65	S	2.41	E	164.67	179.16	0.75	-0.72	-3.33
126	12200.00	3.06	184.67	100.00	12189.70	-169.84	169.84	S	1.42	E	169.84	179.52	0.66	0.04	-12.41
127	12300.00	3.21	186.79	100.00	12289.55	-175.28	175.28	S	0.87	E	175.28	179.71	0.18	0.14	2.12
128	12400.00	3.15	187.67	100.00	12389.40	-180.77	180.77	S	0.18	E	180.77	179.94	0.07	-0.06	0.87
129	12500.00	3.42	190.00	100.00	12489.23	-186.43	186.43	S	0.71	W	186.44	180.22	0.30	0.27	2.33
130	12542.00	3.34	189.80	42.00	12531.16	-188.87	188.87	S	1.13	W	188.88	180.34	0.20	-0.20	-0.47
131	12703.00	3.34	189.80	161.00	12691.89	-198.11	198.11	S	2.73	W	198.13	180.79	0.00	0.00	0.00
132															
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CENTRAL DIVISION

ALTAMONT FIELD
WINSLOW 4-1C5
WINSLOW 4-1C5
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	WINSLOW 4-1C5		
Project	ALTAMONT FIELD	Site	WINSLOW 4-1C5
Rig Name/No.	PATTERSON/307	Event	DRILLING LAND
Start date	3/26/2015	End date	
Spud Date/Time	4/17/2015	UWI	WINSLOW 4-1C5
Active datum	KB @6,036.0ft (above Mean Sea Level)		
Afe No./Description	162790/53705 / WINSLOW 4-1C5		

2 Summary**2.1 Operation Summary**

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
4/14/2015	6:00 6:00	24.00	DPDCOND	07		P	2,284.0	PRE-SET RIG DRILLED 24" HOLE TO 40'. SET, CMT 2 JTS OF 20" 53.4# GRADE "B" PE COND 40' - DRILLED 17-1/2" HOLE TO 735'. SET SFC CSG 17 JTS OF 13-3/8" 54# K-55 LTC SHOE AT 735" GL. CMT 13-3/8" COND CSG LEAD CMT: 860 SK'S (171 BBLS) OF 15.1 PPG, BUMPED PLUG. HAD 41 BBLS OF GOOD CMT / SFC. NO FALL BACK OF CEMENT. DRILLED 12-1/4" HOLE TO 2260'. RAN 51 JOINTS OF 9-5/8" 40# N-80 LTC SHOE AT 2239' GL. CMT 9-5/8" LEAD CMT: 400 SKS (169 BBLS) OF 12.0 PPG. TAIL CMT: 200 SKS (47 BBLS) 14.3 PPG. BUMPED PLUG. HAD 31 BBLS OF GOOD CMT TO SURFACE.
4/15/2015	6:00 16:00	10.00	MIRU	01		P	2,260.0	RIGGING UP. UNABLE TO PUT DERRICK ON FLOOR, HIGH WINDS. 90% MOVED IN 35 % RIGGED UP.
	16:00 6:00	14.00	MIRU	66		P	2,260.0	UNABLE TO PUT DERRICK ON FLOOR DUE TO HIGH WINDS.
4/16/2015	6:00 6:00	24.00	MIRU	01		P	2,284.0	MIRU. 100% MOVED IN. 70% RIGGED UP.
4/17/2015	6:00 13:00	7.00	CASSURF	28		P	2,284.0	FINISHED RU. PERFORMED S & E INSPECTION. BEGAN RIG DAY RATE 13:00 HRS, 04/16/2015.
	13:00 20:30	7.50	CASSURF	30		P	2,284.0	TESTED CHOKE MANIFOLD AT 250 PSI LOW, 10,000 PSI HIGH, WHILE NU 11" 10M ANNULAR & BOPE. WEATHERFORD TORQUED ALL CONNECTIONS.
	20:30 0:30	4.00	CASSURF	19		P	2,284.0	TESTED ANNULAR 250 PSI LOW / 4,000 PSI HIGH. REMAINDER BOPE, FLOOR VALVES, ETC TESTED 250 PSI LOW / 5,000 PSI HIGH & HELD >10 MINUTES EACH TEST. MIXED SPUD MUD & DRESSED SHAKERS WHILE TESTING.
	0:30 1:00	0.50	CASSURF	31		P	2,284.0	TESTED CASING TO 2,500 PSI, HELD >30 MINUTES.
	1:00 6:00	5.00	CASSURF	28		P	2,284.0	CENTRALIZED & STABILIZED STACK. NU ROT HEAD & FLOWLINE.
4/18/2015	6:00 9:00	3.00	CASSURF	14		P	2,284.0	INSERTED & LOCKED WEAR BUSHING IN WELL HEAD. PUMU RYAN'S ASSEMBLY & TESTED. MU 8 3/4" MM54D INSERT PDC BIT.
	9:00 13:00	4.00	CASSURF	13		P	2,284.0	PUMU DCs & HWDP 5" DP FROM RACKS.
	13:00 13:30	0.50	CASSURF	31		P	2,284.0	RETESTED CASING TO 1,950 PSI AT 1/2 BBLS INCREMENTS, RECORDING DATA POINTS FOR CHART.
	13:30 15:00	1.50	CASSURF	32		P	2,284.0	DRILLED CEMENT, FE & 10' NH TO 2,294'.
	15:00 16:00	1.00	CASSURF	15		P	2,294.0	C & C MUD, PERFORMED FIT TO 15.4 PPG EMW.

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	16:00 6:00	14.00	DRLINT1	07		P	2,294.0	DRILLED 2,284' - 3,580'. LOST MUD TO HOLE AT: 2,994' 89 BBLS / HR 3113' 115 BBLS / HR 3,235' 129 BBLS / HR.
4/19/2015	6:00 16:00	10.00	DRLINT1	07		P	3,580.0	DRILLED 3,580' - 4,431'.
	16:00 16:30	0.50	DRLINT1	12		P	4,431.0	RIG SERVICE.
	16:30 6:00	13.50	DRLINT1	07		P	4,431.0	DRILLED 4,431' - 5,371'.
4/20/2015	6:00 6:00	24.00	DRLINT1	07		P	5,371.0	DRILLED 5,371 - 7,250'.
4/21/2015	6:00 7:30	1.50	DRLINT1	43		N	7,250.0	CIRC THROUGH HOSE & PUMP-IN SUB WHILE REPLACED TDU WASH PIPE, PACKING.
	7:30 14:30	7.00	DRLINT1	07		P	7,250.0	DRILLED 7,250' - 7,595'. LOST PUMP PSI, PENETRATION RATE DECREASED.
	14:30 23:30	9.00	DRLINT1	13		P	7,595.0	TOOH, BACK-REAMED. TIGHT AT 6,494' 6,367' - 5,910' 4,691' 3,250' 3,177' - 3,080'.
	23:30 0:30	1.00	DRLINT1	14		P	7,595.0	LAI D DOWN GUTTED MUD MOTOR & RINGED OUT PDC BIT. PUMU FRESH RYAN MUD MOTOR. SCRIBED SAME. MU BIT #2.
	0:30 6:00	5.50	DRLINT1	13		P	7,595.0	TIH. FILLED DP AT 1,900' INTERVALS.
4/22/2015	6:00 16:30	10.50	DRLINT1	07		P	7,595.0	DRILLED 7,595' - 8,337'.
	16:30 17:00	0.50	DRLINT1	12		P	8,337.0	RIG SERVICED.
	17:00 6:00	13.00	DRLINT1	07		P	8,337.0	DRILLED 8,337' - 8,894'.
4/23/2015	6:00 8:00	2.00	DRLINT1	45		N	8,894.0	REPAIRED BOTH MUD PUMPS, REPLACED SOME VALVES & SEATS. CIRCULATED AT REDUCED RATE 285 GPM WHILE WORKING ON OPPOSITE PUMP.
	8:00 14:00	6.00	DRLINT1	07		P	8,894.0	DRILLED 8,894' - 9,198'.
	14:00 14:30	0.50	DRLINT1	12		P	9,198.0	RIG SERVICED.
	14:30 15:30	1.00	DRLINT1	07		P	9,198.0	DRILLED 9,198' - 9,296'.
	15:30 16:30	1.00	DRLINT1	47		N	9,296.0	RECALIBRATED EDS/RIG SMART SYSTEM.
	16:30 6:00	13.50	DRLINT1	07		P	9,296.0	DRILLED 9,296' - 9,695'. BEGAN LOSING MUD AT 90 BPH WITH 3 LCM. INCREASED LCM TO 15.
4/24/2015	6:00 7:00	1.00	DRLINT1	07		P	9,695.0	DRILLED 9,695' - 9,699' ICP.
	7:00 8:00	1.00	DRLINT1	15		P	9,699.0	C & C MUD.
	8:00 17:00	9.00	DRLINT1	13		P	9,699.0	TOOH SLOWLY. OBSERVED SEVERAL TIGHT SPOTS.
	17:00 18:30	1.50	DRLINT1	14		P	9,699.0	LAI D DOWN BIT & DIRECTIONAL TOOLS.
	18:30 1:00	6.50	DRLINT1	13		P	9,699.0	MU RR BIT #2 ON SLICK BHA. FILLED DP EVERY 2,400' TO BTM AT 9,699'. RESISTANCE AT 4,815' - 4,822', REAMED THROUGH SAME.
	1:00 5:00	4.00	DRLINT1	15		P	9,699.0	C & C MUD. RECORDED 2,746 UNITS OF GAS & 8' -12' FLARE BURNED FOR 30 MINUTES. MUD WT CUT 10.2 PPG TO 9.8 PPG. INCREASED MUD WT TO 10.4 PPG.
	5:00 6:00	1.00	DRLINT1	14		P	9,699.0	PUMPED SLUG. LD 5" DP.
4/25/2015	6:00 14:00	8.00	DRLINT1	14		P	9,699.0	L/D 5" DRILL STRING.
	14:00 14:30	0.50	DRLINT1	42		P	9,699.0	REMOVED WEAR BUSHING.
	14:30 6:00	15.50	CASINT1	24		P	9,699.0	RU FRANK'S WESTATES' CASING TOOLS. PUMU SHOE, FLOAT JT, & FC. SIH WITH 7", 29#, HCP-110, LT&C, INTERMEDIATE CASING. CBU, DISPLACED 10.4 PPG WITH 10.0 PPG MUD FROM 500' TO 1,862' WITH INTERMITTENT RETURNS. RAN CSG TO 3,641'. UNABLE TO ESTABLISH FULL RETURNS FROM 3,641'. CONTINUE SIH, PARTIAL RETURNS.
4/26/2015	6:00 11:00	5.00	CASINT1	24		P	9,699.0	FINISHED SIH FROM 6,500'. BROKE CIRCULATION AT 1,000' INTERVALS, NO RETURNS UNLESS SWABBING ON CASING UPSTROKE. TAGGED BOTTOM. SPACED OUT. PUMU LDG JOINT. RAN TOTAL OF 233 JTS PLUS 1 MARKER OF 7", 29#, HCP-110, LT&C CASING TO 9,695'. MARKER TOP AT 7,739', FC @ 9,651'.
	11:00 12:00	1.00	CASINT1	15		P	9,699.0	RD FILL-UP TOOL. INSTALLED HES' CMT HEAD & LINES. PUMPED AWAY 170 BBLS AT 3.5 BPM WITHOUT RETURNS. PUMPED 40 BBLS OF 20 PPB LCM PILL.

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	12:00 15:30	3.50	CASINT1	25		P	9,699.0	SWITCHED LINE TO HES. TESTED P & L TO 5,000 PSI. PUMPED 20 BBLs FW, THEN MIXED & PUMPED 40 BBLs 10.3 PPG TUNED SPACER. M & P 810 SXS, 276 BBLs OF 12.5 PPG, 1.91 YLD EXTENDACEM LEAD CMT. TAILED WITH 305 SXS, 89 BBLs OF 13.0 PPG, 1.64 YLD EXPANDACEM CMT. RELEASED PLUG. DISPLACED WITH 116 BBLs 10.0 PPG MUD AT 7 BPM. CAUGHT CMT AFTER 116 GONE, PRESSURE 415 PSI AT 6 BPM. WITH 340 GONE, 1,165 PSI AT 6 BPM. SLOWED TO FINAL RATE 2.5 BPM AT 931PSI. BUMPED PLUG 359 BBLs TOTAL WITH 1,615 PSI AT 1615 HRS, 04-25-2015. BLEED BACK 2 BBLs, FLOATS HELD. VIRTUALLY NO RETURNS THROUGH OUT MIXING OR DISPLACING CMT.
	15:30 17:00	1.50	CASINT1	26		P	9,699.0	FLUSHED WELL HEAD THROUGH BOPE. LANDED CSG HANGER IN HEAD WITH 236K STRING WT. REMOVED LANDING JOINT. RD BAILS & CSG ELEVATORS.
	17:00 19:00	2.00	CASINT1	27		P	9,699.0	INSERTED & TESTED PACK OFF TO 5,000 PSI FOR >10 MINUTES.
	19:00 1:00	6.00	CASINT1	30		P	9,699.0	RU WEATHERFORD TESTERS. LANDED TEST PLUG IN HEAD. TESTED ANNULAR 250 PSI LOW / 4,000 PSI HIGH. TESTED FLOOR VALVES & REMAINDER OF 11" 10M BOPE TO 250 LOW & 10,000 PSI. HELD ALL TESTS >10 MINUTES.
	1:00 2:00	1.00	CASINT1	45		P	9,699.0	TESTED CSG TO 2,500 PSI FOR 30 MINUTES. RD TESTER.
	2:00 6:00	4.00	CASINT1	14		P	9,699.0	M/U 6 1/8" PDC BIT (3 1/2 IF PIN). PUMU 6" PHA AND 4 3/4" DRILL COLLARS.
4/27/2015	6:00 11:00	5.00	CASINT1	14		P	9,699.0	PUMU 4" DP FROM RACKS TO 4,525'. FILLED DP AT 1,500' INTERVALS. DP PLUGGED OFF.
	11:00 17:00	6.00	CASINT1	71		N	9,699.0	TOOH. FOUND 3' OF FINE (CORNMEAL SIZED) CUTTINGS IN NBS. TIH 4,425'.
	17:00 23:00	6.00	CASINT1	14		P	9,699.0	CONTINUED TO PUMU 4" DP FROM RACK FILLING DP EVERY 1,500' TO 9,243'.
	23:00 23:30	0.50	CASINT1	42		P	9,699.0	INSERTED ROTATING HEAD RUBBER.
	23:30 0:30	1.00	CASINT1	31		P	9,699.0	RETESTED CASING TO 2,500 PSI AT 1/2 BBL INCREMENTS TO RECORD DATA POINTS FOR FIT CHART.
	0:30 1:00	0.50	CASINT1	14		P	9,699.0	PUMU 4" DP FROM RACKS. TAGGED UPON TOP PLUG AT 9,653'.
	1:00 2:30	1.50	CASINT1	32		P	9,699.0	DRILLED OUT CEMENT & FLOAT EQUIPMENT, 10' NH. SHOE AT 9,699'.
	2:30 3:30	1.00	DRLPRD	33		P	9,709.0	PREFORMED FIT. SURFACE 1,715 PSI AT TVD 9,692' AMW: 12.0 PPG. = 15.4 PPG.
	3:30 5:00	1.50	DRLPRD	07		P	9,709.0	DRILL 9,709' - 9,741'. LOST ALL RETURNS.
	5:00 6:00	1.00	DRLPRD	52		N	9,741.0	MIX & PUMPED LCM PILLS, ATTEMPTING TO REGAIN RETURNS.
4/28/2015	6:00 6:30	0.50	DRLPRD	52		N	9,741.0	MIX & PUMPED LCM PILLS, REGAINED RETURNS. BYPASSED SHAKERS, UTILIZING 15 LCM.
	6:30 14:00	7.50	DRLPRD	07		P	9,741.0	DRILLED 9,741' - 10,148'.
	14:00 15:30	1.50	DRLPRD	11		P	10,148.0	SL SURVEY AT 10,115' = 2.13 DEGREES.
	15:30 17:30	2.00	DRLPRD	07		P	10,148.0	DRILLED 10,148' - 10,245'.
	17:30 18:00	0.50	DRLPRD	12		P	10,245.0	RIG SERVICED.
	18:00 6:00	12.00	DRLPRD	07		P	10,245.0	DRILLED 10,245' - 10,750'.
4/29/2015	6:00 18:30	12.50	DRLPRD	07		P	10,750.0	DRILL 10,750' - 11,286'.
	18:30 19:00	0.50	DRLPRD	12		P	11,286.0	RIG SERVICED.
	19:00 6:00	11.00	DRLPRD	07		P	11,286.0	DRILL 11,286' TO 11,697'.
4/30/2015	6:00 15:00	9.00	DRLPRD	07		P	11,697.0	DRILLING FROM 11,697' TO 12,052'.
	15:00 15:30	0.50	DRLPRD	12		P	12,052.0	RIG SERVICE.
	15:30 6:00	14.50	DRLSURF	07		P	12,052.0	DRILLING FROM 12,052' TO 12610'
5/1/2015	6:00 12:00	6.00	DRLPRD	07		P	12,610.0	DRILLING FROM 12,610' TO 12,703'. (30' CORRECTION IN TALLY)
	12:00 13:00	1.00	DRLPRD	15		P	12,703.0	SIMULATE CONNECTION, CIRCULATE BU. BU GAS PASON 1012. 3RD PARTY.

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	13:00 14:30	1.50	DRLPRD	13		P	12,703.0	SHORT TRIP TO CASING SHOE. FLOW CHECK.
	14:30 16:30	2.00	DRLPRD	13		P	12,703.0	TIH.
	16:30 18:00	1.50	DRLPRD	15		P	12,703.0	CIRCULATE BU. BU GAS PASON 3193 UNITS.
	18:00 1:00	7.00	DRLPRD	15		P	12,703.0	CIRCULATE @ REDUCED RATE INCREASE MUD WT. TO 13.2 PPG & SHAKE OUT LCM.
	1:00 6:00	5.00	DRLPRD	13		P	12,703.0	TRIP OUT OF HOLE.
5/2/2015	6:00 8:30	2.50	EVLPRD	13		P	12,703.0	TOH FOR LOGS. LDDC'S.
	8:30 19:30	11.00	EVLPRD	22		P	12,703.0	PJSM. RU WEATHERFORD OPEN HOLE LOGGING. RUN ULTRA SLIM QUAD COMBO. LOG STOPPED AT 9750'. LOG OUT TO SURFACE CASING WITH NEUTRON AND GAMMA RAY.
	19:30 20:30	1.00	CASPRD1	24		P	12,703.0	RIG UP FRANK'S WESTATES' CASING TOOLS & TORQUE-TURN.
	20:30 21:30	1.00	CASPRD1	24		P	12,703.0	MU FLOAT SHOE, 1 JOINT, FLOAT COLLAR, 1 JOINT, LANDING COLLAR. CHECKED FLOATS.
	21:30 1:30	4.00	CASPRD1	24		P	12,703.0	PICK UP & M/UP 76 JTS PLUS 2 MARKER JTS OF 5", 18#, HCP-110, STL LINER. 3,171 TOTAL, CIRC B/UP, DISPLACED 13.2 WITH 12.8 PPG MUD AT 2.5 BPM @ 1,000' & 2,000'. 3,171'.
	1:30 2:30	1.00	CASPRD1	24		P	12,703.0	PUMU HES' STANDARD MODEL 5" X 7" VERSAFLEX LINER HANGER. MU 1 STAND DP. INSTALLED R/H RUBBER. CIRC B/UP FROM 3,171' AT 2.5 BPM WHILE RD CASING TOOLS.
5/3/2015	2:30 6:00	3.50	CASPRD1	24		P	12,703.0	STAGE IN HOLE WITH 5" LINER ON 4" DP. DISPLACING 13.2 PPG MUD WITH 12.8 PPG MUD. FILL PIPE PER 10 STANDS. CIRC B/UP PER 2000'. AT 0600 HRS. LINER @ 6000'.
	6:00 11:00	5.00	CASPRD1	13		P	12,703.0	STAGE IN HOLE WITH 5" LINER ON 4" DP. DISPLACING 13.2 PPG MUD WITH 12.8 PPG MUD. FILL PIPE PER 10 STANDS. CIRC B/UP PER 2000'.
	11:00 13:00	2.00	CASPRD1	16		P	12,703.0	WASH THROUGH BRIDGES FROM 9,721' TO 10,029'. SOME ROTATION.
	13:00 15:30	2.50	CASPRD1	13		P	12,703.0	TIH WITH LINER. CIRCULATE BU AT 11,300' AT 2.5 BPM
	15:30 16:00	0.50	CASPRD1	16		P	12,703.0	WASH BRIDGE FROM 11,292' TO 11,300'
	16:00 17:00	1.00	CASPRD1	13		P	12,703.0	TIH WITH LINER. TAG BOTTOM.
	17:00 19:00	2.00	CASPRD1	15		P	12,703.0	CIRCULATE BU.
	19:00 20:00	1.00	CASPRD1	25		P	12,703.0	SPACE OUT & RIG UP CEMENT HEAD.
	20:00 22:00	2.00	CASPRD1	15		P	12,703.0	CIRCULATE & CONDITION MUD FOR CEMENT JOB.
	22:00 0:00	2.00	CASPRD1	25		P	12,703.0	SWITCHED LINE TO CEMENTERS. HES TESTED P & L TO 9,000 PSI. M & P 20 BBLS 13.0 PPG TUNED SPACER III. M & P 230 SKS / 62 BBLS EXPANDACEM PREMIUM CEMENT AT 14.2 PPG WITH 1.52 YIELD. WASHED LINES. DROPPED DRILL PIPE DART. PUMPED 60 BBLS CLA-WEB / ALDACIDE PLUS 97 BBLS 12.8 PPG MUD. BUMPED PLUG WITH 2,635 PSI @ 00:00 HRS, 05/02/2015. PRESSURE PRIOR TO BUMPING PLUG, 2635 PSI. BLED BACK 1.0 BBLS, FLOATS HELD. HAD FULL RETURNS THROUGH OUT JOB.
	0:00 1:00	1.00	CASPRD1	24		P	12,703.0	RUPTURED DISC AT 5,200 PSI. RELEASED BALL. PRESSURED TO 6,700 PSI, EXPANDED HANGER. PULL TESTED LINER WITH 80K OVERPULL. SAT DOWN 70K, RELEASED SETTING TOOL FROM LINER HANGER. LANDED FS AT 12,698', FC AT 12,653', LC AT 12,610', TOL AT 9,527' WITH 164' OF LAP. TOTAL LINER LENGTH: 3,171'. MARKER JT TOPS AT 11,699', 10,703'. DISPLACED CEMENT FROM ANNULUS; HAD 20 BBLS OF TUNED SPACER PLUS 2 BBLS OF CEMENT BACK.
	1:00 3:00	2.00	CASPRD1	31		P	12,703.0	POSITIVE TESTED LINER TOP TO 1,000 PSI FOR >10 MINUTES. DISPLACED MUD FROM DP & ANNULUS WITH 200 BBLS OF FRESH WATER FOLLOWED BY 470 BBLS FRESH WATER WITH 2% CLA-WEB / ALDACIDE WATER.
3:00 4:30	1.50	CASPRD1	15		P	12,703.0	MONITOR WELL FOR FLOW >15 MINS, WELL STATIC. R/D CMT LINES & HEAD.	

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	4:30 6:00	1.50	CASPRD1	14		P	12,703.0	LAID DOWN 4" DP.
5/4/2015	6:00 15:00	9.00	CASPRD1	14		P	12,703.0	LAY DOWN 4" DP
	15:00 0:00	9.00	CASPRD1	29		P	12,703.0	ND 10K BOPE. INSTALL TUBING SPOOL AND FRACK VALVE. PRESSURE TEST 5000 PSI / 15 MINUTES. OK. RIG RELEASED AT 00:00 ON 05/04/2015.
	0:00 6:00	6.00	RDMO	02		P	12,703.0	RIGGING DOWN FOR MOVE TO THE CIRCLE B2-3C5.
5/5/2015	6:00 6:00	24.00	RDMO	02		P	12,703.0	RIG DOWN AND MOVE TO THE CIRCLE B 2-3C5. 90% RIGGED DOWN, 90% MOVED. 0% RIGGED UP.

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CENTRAL DIVISION

ALTAMONT FIELD
WINSLOW 4-1C5
WINSLOW 4-1C5
COMPLETION LAND

Operation Summary Report

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1 General**1.1 Customer Information**

Company	CENTRAL DIVISION
Representative	
Address	

1.2 Well Information

Well	WINSLOW 4-1C5		
Project	ALTAMONT FIELD	Site	WINSLOW 4-1C5
Rig Name/No.		Event	COMPLETION LAND
Start date	5/14/2015	End date	
Spud Date/Time	4/17/2015	UWI	WINSLOW 4-1C5
Active datum	KB @6,036.0ft (above Mean Sea Level)		
Afe No./Description	162790/53705 / WINSLOW 4-1C5		

2 Summary**2.1 Operation Summary**

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
5/9/2015	6:00 7:00	1.00	WLWORK	28		P		TRAVEL TO LOCATION, HSM WRITE & REVIEW JSA ON RIGGING UP / RIGGING DOWN
	7:00 13:00	6.00	WLWORK	18		P		R/U WIRELINE TRUCK, RIH W/ CBL TOOL TO 12,543', PRESSURE UP CSG TO 4,000 PSI, POOH RUNNING CBL UNDER PRESSURE FROM 12,540' TO 1,100', TOP OF CEMENT AROUND 3,288', BLEED OFF PRESSURE, R/D WIRELINERS, SECURE WELL, MOVE OFF.
5/12/2015	6:00 7:30	1.50	MIRU	28		P		TGSM & JSA (PU TBG)
	7:30 10:30	3.00	MIRU	01		P		MIRU, NU BOPE, SET CAT WALK AND PIPE RACKS, OFF LOAD 305 JTS 2 7/8", 100 JTS 2 3/8", RU WORK FLOOR AND TBG EQUIPMENT.
	10:30 18:00	7.50	WOR	40		P		PUMU & RIH W/ 4 1/8" BIT, BIT SUB, 100 JTS 2 3/8" 8RD, X/O TO 2 7/8" 8RD, 280 JTS 2 7/8" 8RD. SWIFN RU PUMP AND RETURN LINES, CREW TRAVEL.
5/13/2015	6:00 7:30	1.50	WOR	28		P		CT HOLD SAFETY MTG ON RU POWER SWIVEL, WRITE & REVIEW JSA'S
	7:30 11:30	4.00	WOR	10		P		0 PSI ON WELL, CONT PU 7 JTS 2-7/8" TBG, TAG @ 12584' TM, RU POWER SWIVEL & CLEAN OUT TO 12628' TM, TO LANDING COLLAR, CIRC WELL BORE CLEAN W/ BLEACHED 2% KCL WATER
	11:30 15:00	3.50	WOR	24		P		RIG DWN & RACK OUT POWER SWIVEL, POOH LAYING DWN 196 JTS 2-7/8" TBG, RIG BROKE DWN
	15:00 17:00	2.00	WOR	59		N		WORK ON RIG AIR SUPPLY SYSTEM
	17:00 18:30	1.50	WOR	24		P		CONT L.D. 91 JTS 2-7/8" TBG, RACK OUT PUMP & PUMP LINES, SECURE WELL SHUT & LOCK PIPE RAMS, INSTALL & CLOSE TIW VALVE W/ NIGHT CAP, CLOSE & NIGHT CAP CSG VALVES
5/14/2015	6:00 7:30	1.50	WOR	28		P		CT HOLD SAFETY MTG ON LAYING DWN TBG, WRITE & REVIEW JSA'S
	7:30 10:00	2.50	WOR	24		P		0 PSI ON WELL, CONT POOH & LD 1 JT 2-7/8" TBG, 2-7/8" X 2-3/8" X OVER, 100 JTS 2-3/8" WORK STRING, BIT SUB & 4-1/8" BIT, SHUT 10K FRAC VALVE
	10:00 12:00	2.00	WOR	16		P		RD TBG TONGS & WORK FLOOR, NDBOP, NU 10K NIGHT CAP ON TOP OF 10K FRAC VALVE, CLOSE & NIGHT CAP CSG VALVES, RIG DWN RIG, PU LOC & MOVE OUT

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
5/15/2015	6:00 7:00	1.00	SITEPRE	28		P		CREW TRAVEL TO LOCATION HSM WRITE AND REVIEW JSA TOPIC; N/U FRAC STACK
	7:00 18:00	11.00	STG01	16		P		N/U 10K FRAC STACK TEST CSG 9K AND CHART FOR 30 MIN GOOD TEST STACK TO 10K AND CHART GOOD RU WATER TRANSFER AND FLOW BACK LINES R/U WATER TREATMENT EQUIPMENT START TREATING WATER START RE-FILLING STG AREA TANKS
5/16/2015	6:00 7:00	1.00	STG01	28		P		CREW TRAVEL TO LOCATION HSM WRITE AND REVIEW JSA TOPIC; WIRELINE OPERATIONS & WEATHER
	7:00 10:00	3.00	STG01	21		P		MIRU WIRELINE TIH w PERFORATE STG 1 w 2-3/4" 16GM CHARGE 3 SPF 120 PHASING CORRELATED TO THE PERFORATORS CBL/GR/CCL LOG RUN #1 5/8/15 STARTING PRESSURE 0 PSI ENDING PRESSURE 0 PSI TOH SECURE WELL CLOSE MASTER VALVE TOP AND BTM HCR VLAVES ALL CSG VALVES AND 9 5/8" CSG VALVES INSTALL NIGHT CAPS R/D WIRELINE
	10:00 18:00	8.00	SITEPRE	01		P		PREPARE LOCATION FOR FRAC CONTINUE FILLING STAGING AREA
5/17/2015	6:00 18:00	12.00	SITEPRE	28		P		CONTINUE FILL FRAC TANKS AND START HEATING WATER
5/18/2015	6:00 7:00	1.00	SITEPRE	28		P		CREW TRAVEL TO LOCATION HSM WRITE AND REVIEW JSA TOPIC; RIGGING UP
5/19/2015	6:00 7:56	1.93	STG01	28		P		CREW TRAVEL TO LOCATION HSM WRITE AND REVIEW JSA TOPIC; FRAC OPERATIONS
	7:56 9:14	1.30	STG01	35		P		STAGE 1; PRESSURE TEST LINES TO 9400 PSI. OPEN WELL. SICP 470 PSI. BREAK DOWN STAGE 1 PERFORATIONS 12450' TO 12131' AT 4988 PSI, PUMPING 9.7 BPM. PUMP 7 BBLS OF TREATED WATER STEP DOWN RATE IN 4 STEPS SHUT DOWN FOR 15 MIN ISDP 4306 FG .78 5MIN 4203 10 MIN 4203 15MIN 4203 TREATED STAGE 1... AS PER PROCEDURE TREAT W/ 5000 GAL 15% HCL ACID FR-76 WATER ACID FLUSH 25# HYBOR G PAD FR-76 100 MESH FR-76 WATER SWEEP FR-76 .5# 30/50 THS 1# 30/50 THS 20# HYBOR 2# 30/50 THS 20# HYBOR G 3# 30/50 THS STG FLUSH TO TOP PERF...ISDP 4740 PSI. AVG RATE 72 BPM. AVG PSI 5665 PSI. MAX PSI 7992 PSI. TTL PROP 153500 TURN OVER TO WIRELINE
	9:14 11:13	1.98	STG02	21		P		STAGE 2; SET COMPOSITE FRAC PLUG AT 12113' PRESSURE ON WELL 4400 PSI PERFORATE STAGE 2 PERFORATIONS 12098' TO 11829', 23 NET FEET 69 TTL SHOTS W/ 2-3/4" 3 JSPF, 120 DEG PHASING GUNS END PRESSURE 4300 PSI ALL PERFS CORRELATED TO THE PERFORATORS CBL/GR/CCL LOG RUN #1 5/8/15
	11:13 12:28	1.25	STG02	35		P		STAGE 2; PRESSURE TEST LINES TO 9533 PSI. OPEN WELL. SICP 4114 PSI. BREAK DOWN STAGE 2 PERFORATIONS 12098' TO 11820' AT 4541 PSI, PUMPING 10 BPM. PUMP 7 BBLS OF TREATED WATER STEP DOWN RATE IN 4 STEPS SHUT DOWN FOR 15 MIN ISDP 4383 FG .78 5MIN 4221 10 MIN 4221 15MIN 4221 TREATED STAGE 2... AS PER PROCEDURE TREAT W/ 5000 GAL 15% HCL ACID FR-76 WATER ACID FLUSH 25# HYBOR G PAD FR-76 100 MESH FR-76 WATER SWEEP FR-76 .5# 30/50 THS 1# 30/50 THS 20# HYBOR 2# 30/50 THS 20# HYBOR G 3# 30/50 THS STG FLUSH TO TOP PERF...ISDP 4669 PSI. AVG RATE 74 BPM. AVG PSI 6160 PSI. MAX PSI 7974 PSI. TTL PROP 154000 TURN OVER TO WIRELINE

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	12:28 14:15	1.78	STG03	21		P		STAGE 3; SET COMPOSITE FRAC PLUG AT 11798' PRESSURE ON WELL 4400 PSI PERFORATE STAGE 3 PERFORATIONS 11783' TO 11524', 22 NET FEET 66 TTL SHOTS W/ 2-3/4" 3 JSPF, 120 DEG PHASING GUNS END PRESSURE 4300 PSI ALL PERFS CORRELATED TO THE PERFORATORS CBL/GR/CCL LOG RUN #1 5/8/15
	14:15 15:31	1.27	STG03	35		P		STAGE 3; PRESSURE TEST LINES TO 9450 PSI. OPEN WELL. SICP 3996 PSI. BREAK DOWN STAGE 3 PERFORATIONS 11783' TO 11524' AT 4762 PSI, PUMPING 10 BPM. PUMP 7 BBLS OF TREATED WATER STEP DOWN RATE IN 4 STEPS SHUT DOWN FOR 15 MIN ISDP 4212 FG .79 5MIN 4023 10 MIN 4023 15MIN 4023 TREATED STAGE 3... AS PER PROCEDURE TREAT W/ 5000 GAL 15% HCL ACID FR-76 WATER ACID FLUSH 25# HYBOR G PAD FR-76 100 MESH FR-76 WATER SWEEP FR-76 .5# 30/50 THS 1# 30/50 THS 20# HYBOR 2# 30/50 THS 20# HYBOR G 3# 30/50 THS STG FLUSH TO TOP PERF...ISDP 4546 PSI. AVG RATE 73 BPM. AVG PSI 5423 PSI. MAX PSI 7551 PSI. TTL PROP 153900 TURN OVER TO WIRELINE
	15:31 17:18	1.78	STG04	21		P		STAGE 4; SET COMPOSITE FRAC PLUG AT 11467' PRESSURE ON WELL 4400 PSI PERFORATE STAGE 4 PERFORATIONS 11452' TO 11186', 23 NET FEET 69 TTL SHOTS W/ 2-3/4" 3 JSPF, 120 DEG PHASING GUNS END PRESSURE 4300 PSI ALL PERFS CORRELATED TO THE PERFORATORS CBL/GR/CCL LOG RUN #1 5/8/15
	17:18 18:35	1.28	STG04	35		P		STAGE 4; PRESSURE TEST LINES TO 9476 PSI. OPEN WELL. SICP 4200 PSI. BREAK DOWN STAGE 4 PERFORATIONS 11452' TO 11186' AT 4774 PSI, PUMPING 10 BPM. PUMP 7 BBLS OF TREATED WATER STEP DOWN RATE IN 4 STEPS SHUT DOWN FOR 15 MIN ISDP 4491 FG .83 5MIN 4411 10 MIN 4411 15MIN 4411 TREATED STAGE 4... AS PER PROCEDURE TREAT W/ 5000 GAL 15% HCL ACID FR-76 WATER ACID FLUSH 25# HYBOR G PAD FR-76 100 MESH FR-76 WATER SWEEP FR-76 .5# 30/50 THS 1# 30/50 THS 20# HYBOR 2# 30/50 THS 20# HYBOR G 3# 30/50 THS STG FLUSH TO TOP PERF...ISDP 4665 PSI. AVG RATE 74 BPM. AVG PSI 5428 PSI. MAX PSI 7433 PSI. TTL PROP 153700 TURN OVER TO WIRELINE
	18:35 22:00	3.42	STG05	21		P		STAGE 5; SET COMPOSITE FRAC PLUG AT 11166' PRESSURE ON WELL 3200 PSI PERFORATE STAGE 5 PERFORATIONS 11151' TO 11044' GUN SHORTED TOH REPAIR GUN TIH FINISH PERFORATING 11017'- 10899' 23 NET FEET 69 TTL SHOTS W/ 2-3/4" 3 JSPF, 120 DEG PHASING GUNS END PRESSURE 2800 PSI ALL PERFS CORRELATED TO THE PERFORATORS CBL/GR/CCL LOG RUN #1 5/8/15 TOH SECURE WELL CLOSED 7" MASTER VALVE CLOSED AND LOCK TOP AND BTM HCR VALVES CLOSED ALL CSG VALVES INSTALL NIGHT CAPS SDFN
5/20/2015	6:00 6:10	0.17	STG05	28		P		CREW TRAVEL TO LOCATION HSM WRITE AND REVIEW JSA TOPIC; FRAC OPERATIONS

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	6:10 7:29	1.32	STG05	35		P		STAGE 5; PRESSURE TEST LINES TO 9440 PSI. OPEN WELL. SICP 3130 PSI. BREAK DOWN STAGE 5 PERFORATIONS 11151' TO 10899' AT 5923 PSI, PUMPING 10 BPM. PUMP 7 BBLS OF TREATED WATER STEP DOWN RATE IN 4 STEPS SHUT DOWN FOR 15 MIN ISDP 4163 FG .81 5MIN 3851 10 MIN 3620 15MIN 3080 TREATED STAGE 5... AS PER PROCEDURE TREAT W/ 5000 GAL 15% HCL ACID FR-76 WATER ACID FLUSH 25# HYBOR G PAD FR-76 100 MESH FR-76 WATER SWEEP FR-76 .5# 30/50 THS 1# 30/50 THS 20# HYBOR 2# 30/50 THS 20# HYBOR G 3# 30/50 THS STG FLUSH TO TOP PERF...ISDP 4742 PSI. AVG RATE 74 BPM. AVG PSI 5578 PSI. MAX PSI 7440 PSI. TTL PROP 153400 TURN OVER TO WIRELINE
	7:29 9:00	1.52	STG05	21		P		STAGE 6; SET COMPOSITE FRAC PLUG AT 10875' PRESSURE ON WELL 4100 PSI PERFORATE STAGE 6 PERFORATIONS 10860' TO 10601', 23 NET FEET 69 TTL SHOTS W/ 2-3/4" 3 JSPF, 120 DEG PHASING GUNS END PRESSURE 0 PSI ALL PERFS CORRELATED TO THE PERFORATORS CBL/GR/CCL LOG RUN #1 5/8/15 (NOTE; PERFORATION AT 10774' WENT ON VACUUM)
	9:00 10:44	1.73	STG06	35		P		STAGE 6; PRESSURE TEST LINES TO 9512 PSI. OPEN WELL. SICP 17 PSI. LOAD HOLE w 48 BBLS BREAK DOWN STAGE 6 PERFORATIONS 10860' TO 10601' AT 4210 PSI, PUMPING 10 BPM. PUMP 7 BBLS OF TREATED WATER STEP DOWN RATE IN 4 STEPS SHUT DOWN FOR 15 MIN ISDP 4038 FG .81 5MIN 2886 10 MIN 1618 15MIN 0 TREATED STAGE 6... AS PER PROCEDURE TREAT W/ 5000 GAL 15% HCL ACID FR-76 WATER ACID FLUSH 25# HYBOR G PAD FR-76 100 MESH ADD EXTRA 2000# OF 100 MESH FR-76 WATER SWEEP FR-76 .5# 30/50 THS 1# 30/50 THS 20# HYBOR 2# 30/50 THS 20# HYBOR G 3# 30/50 THS STG FLUSH TO TOP PERF...ISDP 4733 PSI. AVG RATE 75 BPM. AVG PSI 5567 PSI. MAX PSI 7636 PSI. TTL PROP 152780 TURN OVER TO WIRELINE
	10:44 12:24	1.67	STG07	21		P		STAGE 7; SET COMPOSITE FRAC PLUG AT 10585' PRESSURE ON WELL 4200 PSI PERFORATE STAGE 7 PERFORATIONS 10570' TO 10298', 23 NET FEET 69 TTL SHOTS W/ 2-3/4" 3 JSPF, 120 DEG PHASING GUNS END PRESSURE 4100 PSI ALL PERFS CORRELATED TO THE PERFORATORS CBL/GR/CCL LOG RUN #1 5/8/15
	12:24 13:37	1.22	STG07	35		P		STAGE 7; PRESSURE TEST LINES TO 9509 PSI. OPEN WELL. SICP 3750 PSI. BREAK DOWN STAGE 7 PERFORATIONS 10570' TO 10298 AT 4770 PSI, PUMPING 10 BPM. PUMP 7 BBLS OF TREATED WATER STEP DOWN RATE IN 4 STEPS SHUT DOWN FOR 15 MIN ISDP 4178 FG .83 5MIN 4048 10 MIN 4048 15MIN 4048 TREATED STAGE 7... AS PER PROCEDURE TREAT W/ 5000 GAL 15% HCL ACID FR-76 WATER ACID FLUSH 25# HYBOR G PAD FR-76 100 MESH FR-76 WATER SWEEP FR-76 .5# 30/50 TLC 1# 30/50 TLC 20# HYBOR 2# 30/50 TLC 20# HYBOR G 3# 30/50 TLC STG FLUSH TO TOP PERF...ISDP 4635 PSI. AVG RATE 74 BPM. AVG PSI 5514 PSI. MAX PSI 6742 PSI. TTL PROP 153000 TURN OVER TO WIRELINE
	13:37 15:09	1.53	STG08	21		P		STAGE 8; SET COMPOSITE FRAC PLUG AT 10269' PRESSURE ON WELL 4200 PSI PERFORATE STAGE 8 PERFORATIONS 10254' TO 10027', 23 NET FEET 69 TTL SHOTS W/ 2-3/4" 3 JSPF, 120 DEG PHASING GUNS END PRESSURE 3400 PSI ALL PERFS CORRELATED TO THE PERFORATORS CBL/GR/CCL LOG RUN #1 5/8/15

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	15:09 16:26	1.28	STG08	35		P		STAGE 8; PRESSURE TEST LINES TO 9527 PSI. OPEN WELL. SICP 3043 PSI. BREAK DOWN STAGE 8 PERFORATIONS 10254' TO 10027' AT 3717 PSI, PUMPING 10 BPM. PUMP 7 BBLs OF TREATED WATER STEP DOWN RATE IN 4 STEPS SHUT DOWN FOR 15 MIN ISDP 3620 FG .79 5MIN 3465 10 MIN 3310 15MIN 3155 TREATED STAGE 8... AS PER PROCEDURE TREAT W/ 5000 GAL 15% HCL ACID FR-76 WATER ACID FLUSH 25# HYBOR G PAD FR-76 100 MESH FR-76 WATER SWEEP FR-76 .5# 30/50 TLC 1# 30/50 TLC 20# HYBOR 2# 30/50 TLC 20# HYBOR G 3# 30/50 TLC STG FLUSH TO TOP PERF...ISDP 4369 PSI. AVG RATE 75 BPM. AVG PSI 4858 PSI. MAX PSI 5553 PSI. TTL PROP 153600 TURN OVER TO WIRELINE
	16:26 17:45	1.32	STG09	21		P		STAGE 9; SET COMPOSITE FRAC PLUG AT 10005' PRESSURE ON WELL 4200 PSI PERFORATE STAGE 9 PERFORATIONS 9990' TO 9771', 22 NET FEET 66 TTL SHOTS W/ 2-3/4" 3 JSPF, 120 DEG PHASING GUNS END PRESSURE 3000 PSI ALL PERFS CORRELATED TO THE PERFORATORS CBL/GR/CCL LOG RUN #1 5/8/15
	17:45 19:13	1.47	STG09	35		P		STAGE 9; PRESSURE TEST LINES TO 9654 PSI. OPEN WELL. SICP 2825 PSI. BREAK DOWN STAGE 9 PERFORATIONS 9990' TO 9771' AT 3370 PSI, PUMPING 10 BPM. PUMP 7 BBLs OF TREATED WATER STEP DOWN RATE IN 4 STEPS SHUT DOWN FOR 15 MIN ISDP 2753 FG .71 5MIN 2687 10 MIN 2621 15MIN 2555 TREATED STAGE 9... AS PER PROCEDURE TREAT W/ 5000 GAL 15% HCL ACID FR-76 WATER ACID FLUSH 25# HYBOR G PAD FR-76 100 MESH FR-76 WATER SWEEP FR-76 .5# 30/50 TLC 1# 30/50 TLC 20# HYBOR 2# 30/50 TLC 20# HYBOR G 3# 30/50 TLC STG FLUSH TO TOP PERF...ISDP 3520 PSI. AVG RATE 75 BPM. AVG PSI 4118 PSI. MAX PSI 5541 PSI. TTL PROP 154520
	19:13 20:00	0.78	STG09	35		P		SECURE WELL CLOSE 7" MASTER VALVE TOP AND BTM HCR VALVES AND LOCK CLOSE CSG VALVES w NIGHT CAPS CLOSE 9-5/8" CSG VALVES w NIGHT CAPS R/D CANDY CANES SDFN
5/21/2015	6:00 7:00	1.00	RDMO	28		P		CREW TRAVEL TO LOCATION HSM WRITE AND REVIEW JSA TOPIC; RIGGING DOWN
	7:00 13:00	6.00	RDMO	02		P		RDMO FRAC EQUIPMENT
5/22/2015	6:00 7:00	1.00	CTU	28		P		CREW TRAVEL TO LOCATION HSM WRITE AND REVIEW JSA TOPIC; COIL TBG OPERATIONS
	7:00 11:00	4.00	CTU	10		P		MIRU COIL TBG PRESURE TEST BOPE STACK AND FLOW BACK LINES TEST GOOD
	11:00 12:00	1.00	CTU	10		P		HSM UP DATE JSA TOPIC; PRESSURE....PRESURE TEST BOPE STACK AND FLOW BACK LINES TEST GOOD
	12:00 21:22	9.37	CTU	10		P		OPEN WELL 3500 PSI TIH TAG SAND AT 9758' C/O TO 9761' WELL WENT ON VACUUM TOH ABOVE LINER TOP AT 9538' START NITROGEN RE-ESTABLISH CIRC TIH DRILL PLUG AT 10005' C/O TO START DRILLING PLUG AT 10269' STUCK COIL TBG WORK TO FREE COIL TBG TOH ABOVE LINER AT 9538' COIL STILL DRAGGING TOH w COIL TBG SECURE WELL CLOSE 7" MASTER VALVE...HSM UP DATE JSA TOPIC; N/D TO LOOK AT MOTOR...LOOK AT MOTOR COIL CONNECTOR FLOW CROSS ON 10 K STACK OFF SIDE VALVE FOUND SAND CHECKED FLOW CROSS ON COIL TBG STACK BOPE STRIPPER RUBBER STRIPPER FOUND NOTHING

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	21:22 1:20	3.97	CTU	10		P		HSM UP DATE JSA TOPIC; COIL TBG OPERATION CHANGE OF SCOPE...P/U NEW MOTOR FUNCTION TEST GOOD N/U TEST LUBRICATOR AND FLOW BACK LINE GOOD OPEN WELL TIH TO 2000' CHECK HYDRAULICS AND WT INDICATOR READING GOOD START NITROGEN CONTINUE TIH TO PLUG AT 10269' COIL TBG PRESSURED UP AND PLUGGED UNABLE TO PUMP THROUGH TBG TOH UP DATE JSA TOPIC; N/D LUBRICATOR...MOTOR PLUGGED L/D MOTOR
	1:20 6:00	4.67	CTU	10		P		HSM UP DATE JSA TOPIC; COIL TBG OPERATION P/U MOTOR ASSEMBLY...CHECK SCENES P/U NEW MOTOR FUNCTION TEST GOOD N/U TEST LUBRICATOR AND FLOW BACK LINE GOOD OPEN WELL 1700 PSI TIH TO PLUG AT 10269' DRILL PLUG AT 10585' DRILL PLUG AT 10875' CURRENTLY DRILLING PLUG AT 11467'
5/23/2015	6:00 12:20	6.33	CTU	10		P		CREW CHANGE HSM WRITE AND REVIEW JSA TOPIC; COIL TBG OPERATIONS...CONTINUE DRILLING PLUG C/O TO PBTD AT 12601' CTMD CIRC WELL CLEAN TOH w COIL TBG
	12:20 14:51	2.52	RDMO	02		P		SECURE WELL CLOSE 7" MASTER VALVE UP DATE JSA TOPIC; RIGGING DOWN... L/D MOTOR ASSEMBLY BLOW REAL DRY RDMO COIL TBG
	14:51 6:00	15.15	FB	17		P		OPEN WELL ON A 12/64 CHOCK 2800 PSI TURN WELL OVER TO FLOW BACK...OIL 0 BBLS WATER 668 BBLS MCFD 0 12/64 CHOCK 2600 PSI
5/24/2015	6:00 6:00	24.00	FB	17		P		FLOW BACK. WELL OIL 8 BBLS WATER 889 BBLS MCFD 64 12/64 CHOCK 2350 PSI
5/25/2015	6:00 6:00	24.00	FB	17		P		FLOW BACK. WELL OIL 160 BBLS WATER 678 BBLS MCFD 213 12/64 CHOCK 2200 PSI
5/26/2015	6:00 6:00	24.00	FB	17		P		FLOW BACK. WELL OIL 157 BBLS WATER 505 BBLS MCFD 268 12/64 CHOCK 2100 PSI
5/27/2015	6:00 7:00	1.00	WLWORK	28		P		CREW TRAVEL TO LOCATION HSM WRITE AND REVIEW JSA TOPIC; WIRELINE OPERATIONS
	7:00 10:00	3.00	WLWORK	27		P		MIRU WIRELINE OPEN WELL 2200 PSI TIH w 4" GAUGE RING TO 9660' TOH L/D GAUGE RING TIH w 5" STI PKR AND SET AT 9650' w 2200 PSI TOH RDMO WIRELINE START BLEEDING DOWN WELL
	10:00 12:00	2.00	WHDTRE	16		P		N/D FRAC STACK TO 7" MASTER VALVE N/U 5K BOPE
	12:00 15:00	3.00	MIRU	01		P		MIRU RIG RACK AND TALLY TBG FINISH BLEEDING OFF WELL
	15:00 18:00	3.00	WOR	39		P		P/U SIH w ON/OFF TOOL 5-JTS 2 3/8" CHANGE HANDLING TOOLS CONTINUE P/U 140-JTS OF 2 7/8" TBG EOT 4718'
5/28/2015	6:00 7:00	1.00	WOR	28		P		CREW TRAVEL TO LOCATION HSM WRITE AND REVIEW JSA TOPIC; TRIPPING TBG
	7:00 10:30	3.50	WOR	39		P		CONTINUE TIH w 150- JTS OF 2 7/8" TBG TTL OF 290-JTS
	10:30 13:28	2.97	WOR	06		P		R/U CIRC WELL CLEAN w 450 BBLS OF PKR FLUID
	13:28 15:00	1.53	WHDTRE	16		P		HSM UP DATE JSA TOPIC; N/D N/U...LAND TBG ON HANGER N/D BOPE AND 7" MASTER VALVE N/U WELL HEAD PLUM IN FACILITIES TEST WELL HEAD GOOD TEST CSG TO 1000 PSI GOOD TEST LINE TO FACILITIES GOOD PUMP OUT PLUG
	15:00 15:30	0.50	RDMO	02		P		RDMO ROAD RIG TO THE 3-9B4
	15:30 16:00	0.50	FB	17		P		OPEN WELL 1900 PSI ON A 12/64 CHOCK TURN WELL OVER TO FLOW BACK

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STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
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.	5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
1. TYPE OF WELL Oil Well	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.	7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 1001 Louisiana, Houston, TX, 77002	8. WELL NAME and NUMBER: Winslow 4-1C5
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0800 FNL 1800 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 01 Township: 03.0S Range: 05.0W Meridian: U	9. API NUMBER: 43013532690000
PHONE NUMBER: 713 997-5138 Ext	9. FIELD and POOL or WILDCAT: ALTAMONT
	COUNTY: DUCHESNE
	STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 5/9/2016	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

Please see attached procedure along with before and after WBD's.

Approved by the
April 26, 2016
Oil, Gas and Mining

Date: _____
 By: DeKQ

NAME (PLEASE PRINT) Linda Renken	PHONE NUMBER 713 997-5138	TITLE Sr. Regulatory Analyst
SIGNATURE N/A	DATE 4/22/2016	

Winslow 4-1C5 Recom Summary Procedure

- POOH with ESP & tubing. Inspect/Repair/Re-furbish as needed. Replace any bad tubing.
- Set 15k CBP for 5" 18# casing @ 9,730' and dump bail 15' of cement on top of plug.
- Stage 1:
 - Perforate new UW/LGR interval from **9,570' – 9,686'**.
 - Prop Frac perforations with **80,000** lbs 30/50 prop (w/ **6,000** lbs 100 mesh & **6,000** gals 15% HCl acid) (Stage 1 Recom).
- Stage 2:
 - RIH with 5" CBP & set @ 9,565'.
 - Perforate new LGR interval from **9,450' – 9,523'**.
 - Acid Frac Perforations with **10,000** gals 15% HCl acid (Stage 2 Recom).
- Stage 3:
 - RIH w/ 7" CBP & set @ 9,279'.
 - Perforate new LGR interval from **9,068' – 9,264'**.
 - Acid Frac Perforations with **20,000** gals 15% HCl (Stage 3 Recom).
- Stage 4:
 - RIH w/ 7" CBP & set @ 8,927'.
 - Perforate new LGR interval from **8,665' – 8,912'**.
 - Prop Frac perforations with **150,000** lbs 30/50 prop (w/ **8,000** lbs 100 mesh & **12,000** gals 15% HCl acid) (Stage 4 Recom).
- Clean out well drilling up (2) 7" CBPs and (1) 5" CBP, leaving 5" 15k CBP @ 9,730' w/ 15' CMT. (PBSD @ 9,715'). Top perf BELOW plugs @ 9,771'.
- RIH w/ production tubing and ESP.
- Clean location and resume production.



Current ESP Wellbore Schematic

Well Name: **Winslow 4-1C5**
 Company Name: **EP Energy**
 Field, County, State: **Altamont, Duchesne, UT**
 Surface Location: **Lat: 40 15' 14.985" N Long: 110 23' 44.423" W**
 Producing Zone(s): **Upper Wasatach**

Last Updated: **6/23/2015**
 By: **Tomova**
 TD: **12,698**
 API: **4301353269**
 AFE: **162790**

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

291 Jts 2 7/8" 6.5# N-80 8rd Tubing

13-3/8" 54.5# K-55 LTC @ 719 ft. MD

9-5/8" 40# N-80 LTC @ 2263 ft. MD

Estimated TOC at: 4560 ft MD

Seating Nipple @ ~9,335'
1 jt 2 7/8" Tubing
Drain Sub
1 jts 2 7/8" Tubing
Top of ESP @ ~9,400'
EOP @ 9,500'

Top of Liner at: 9,538 ft MD

Liner TOC at: 9538 ft MD

7" 29# HCP-110 LTC @ 9699 ft. MD
 Drift ID = 6.059"

Initial Completion Perf Information

Stage #	Interval	Shots	Fluid
Stage #9	9771 - 9990	22' /66 shots	5000 gal HCL & 150000 lbs TLC 30/50
Stage #8	10027 - 10254	23' /69 shots	5000 gal HCL & 150000 lbs TLC 30/50
Stage #7	10298 - 10570	23' /69 shots	5000 gal HCL & 150000 lbs TLC 30/50
Stage #6	10601 - 10860	23' /69 shots	5000 gal HCL & 150000 lbs THS 30/50
Stage #5	10899 - 11151	23' /69 shots	5000 gal HCL & 150000 lbs THS 30/50
Stage #4	11186 - 11452	23' /69 shots	5000 gal HCL & 150000 lbs THS 30/50
Stage #3	11524 - 11783	22' /66 shots	5000 gal HCL & 150000 lbs THS 30/50
Stage #2	11829 - 12098	23' /69 shots	5000 gal HCL & 150000 lbs THS 30/50
Stage #1	12131 - 12450	23' /69 shots	5000 gal HCL & 150000 lbs THS 30/50

Marker Joint 1 @: 10,711 ft MD
 Marker Joint 2 @: 11,707 ft MD
 Marker Joint 2 @: N/A ft MD
 Landing Collar @ 12,610 ft MD
 Float Collar @ 12,653 ft MD
 Float Shoe @ 12,698 ft MD

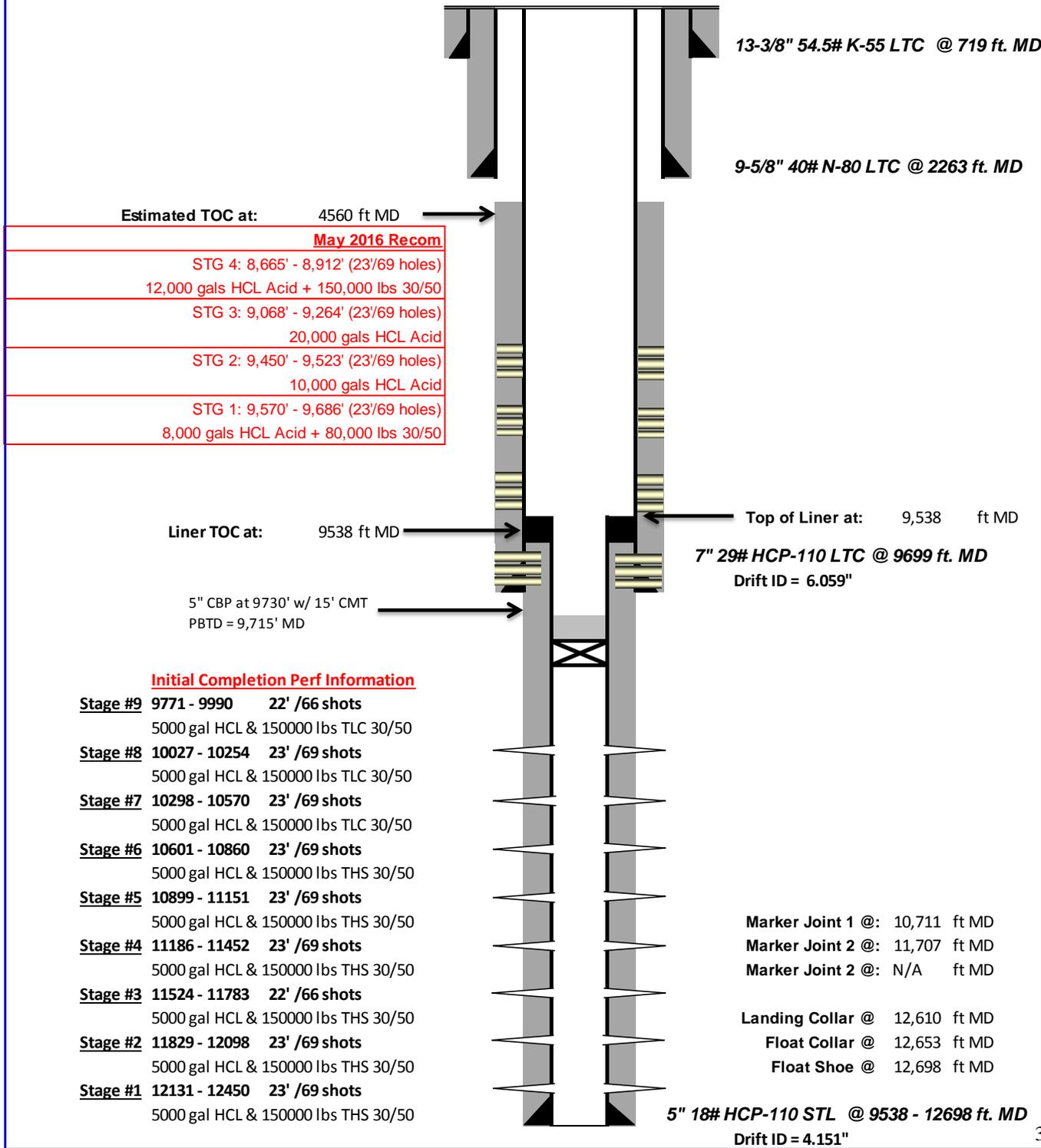
5" 18# HCP-110 STL @ 9538 - 12698 ft. MD
 Drift ID = 4.151"



Proposed Wellbore Schematic

Well Name: **Winslow 4-1C5**
 Company Name: **EP Energy**
 Field, County, State: **Altamont, Duchesne, UT**
 Surface Location: **Lat: 40 15' 14.985" N Long: 110 23' 44.423" W**
 Producing Zone(s): **Upper Wasatch and LGR**

Last Updated: **4/22/2016**
 By: **Jon Weitzel**
 TD: **12,698**
 API: **4301353269**
 AFE:



STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
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.	5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: Winslow 4-1C5
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.	9. API NUMBER: 43013532690000
3. ADDRESS OF OPERATOR: 1001 Louisiana , Houston, TX, 77002	PHONE NUMBER: 713 997-5138 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0800 FNL 1800 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWN Section: 01 Township: 03.0S Range: 05.0W Meridian: U	9. FIELD and POOL or WILDCAT: ALTAMONT
	COUNTY: DUCHESNE
	STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 7/15/2016	<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="Plug Drill Out"/>

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

Please see attached proposed procedure along with current and post WBD's.

Approved by the
July 20, 2016
Oil, Gas and Mining

Date: _____
 By: D. K. Quist

NAME (PLEASE PRINT) Linda Renken	PHONE NUMBER 713 997-5138	TITLE Sr. Regulatory Analyst
SIGNATURE N/A	DATE 7/13/2016	

Winsow 4-1 C5 Drillout Summary Procedure

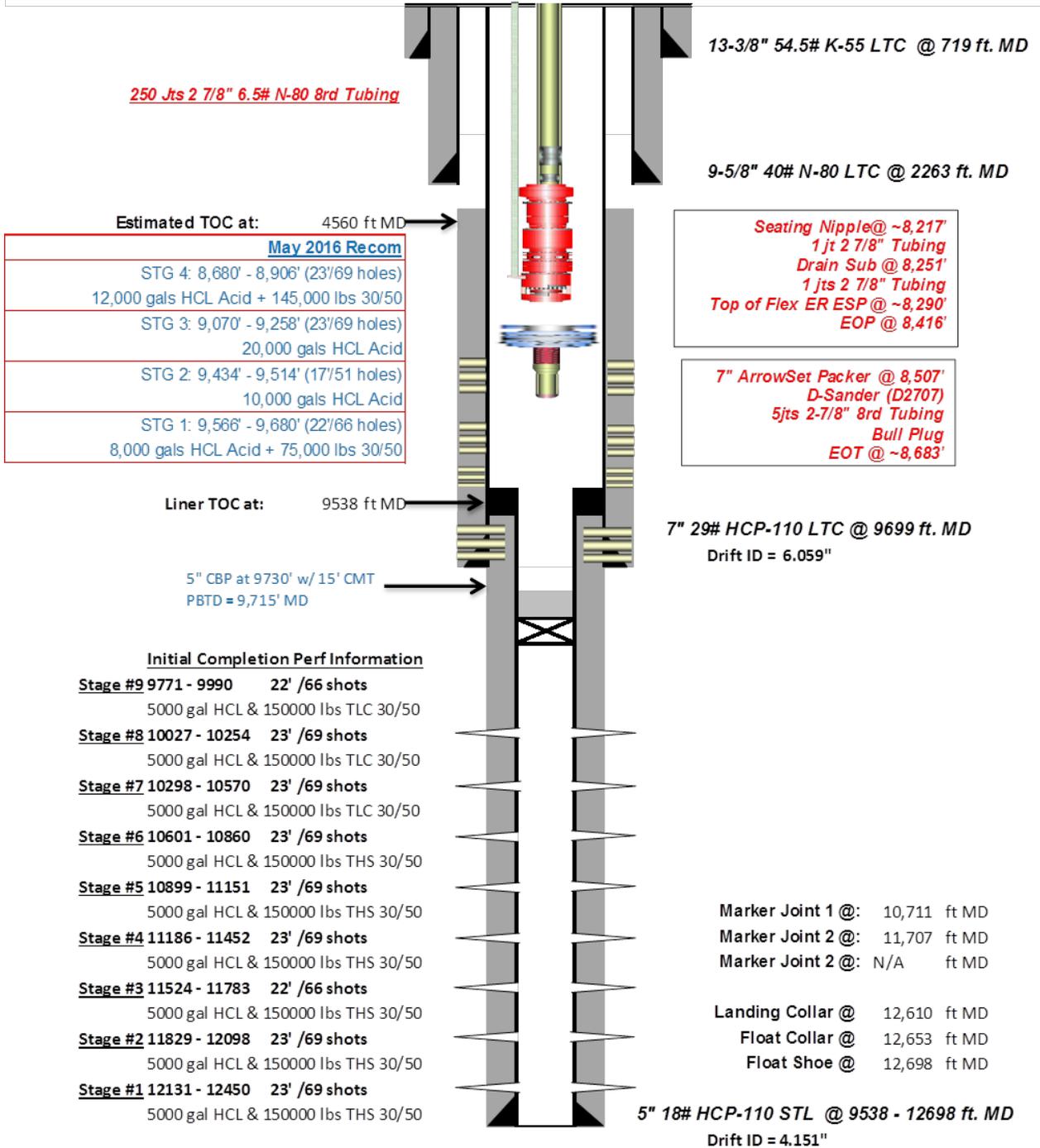
- POOH with ESP, Cap string, cable & tubing. Inspect/Repair/Re-furbish as needed. Replace any bad tubing and joints of rods.
- TIH retrieve 7" pkr and d-sander assembly and POOH.
- Pick up rock bit, and run in hole to drill up cmt and (1) 5" CBP @ 9,715'. Note top perf BELOW plug is @ 9,771'. Continue cleaning out well to TD @ 12,698'.
- Pull out of hole with work string and rock bit.
- RIH with pkr and d-sander assembly and set pkr according to WBD.
- RIH with ESP, cap string, cable & tubing land tbg according to WBD.
- Clean location and resume production.

CURRENT WBD:



Current RECOM Wellbore Schematic

Well Name: Winslow 4-1C5	Last Updated: 7/8/2016
Company Name: EP Energy	By: Tomova
Field, County, State: Altamont, Duchesne, UT	TD: 12,698
Surface Location: Lat: 40 15' 14.985" N Long: 110 23' 44.423" W	API: 4301353269
Producing Zone(s): Upper Wasatch and LGR	AFE:

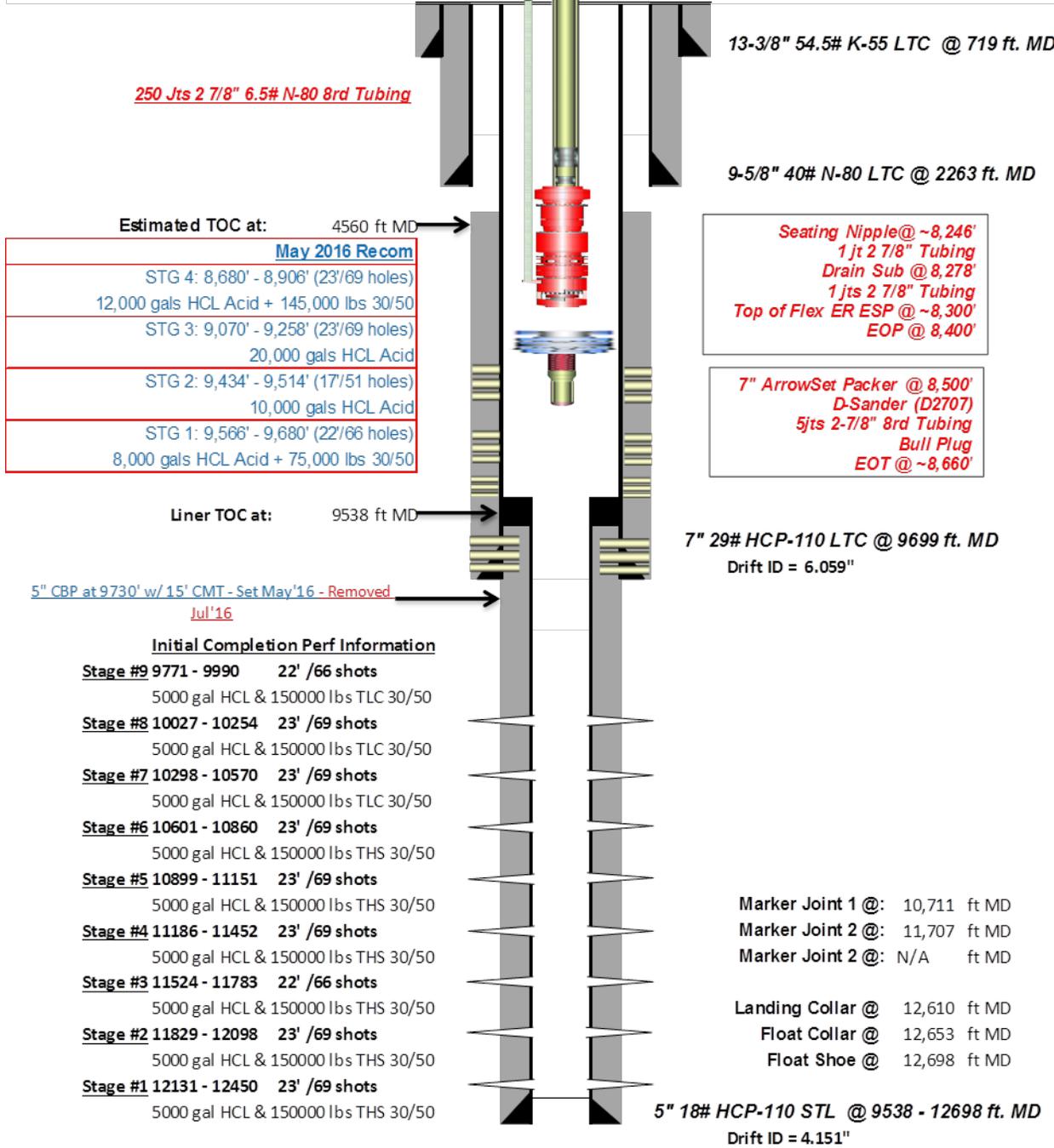


PROPOSED WBD:



Proposed RECOM-DO Wellbore Schematic

Well Name: Winslow 4-1C5	Last Updated: 7/8/2016
Company Name: EP Energy	By: Tomova
Field, County, State: Altamont, Duchesne, UT	TD: 12,698
Surface Location: Lat: 40 15' 14.985" N Long: 110 23' 44.423" W	API: 4301353269
Producing Zone(s): Upper Wasatch and LGR	AFE: _____



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:

U . S . B . & M .

12. COUNTY

13. STATE

UTAH

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL GAS WELL DRY OTHER _____

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

2. NAME OF OPERATOR:

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

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE:

AT TOP PRODUCING INTERVAL REPORTED BELOW:

AT TOTAL DEPTH:

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

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

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each) 23. WAS WELL CORED? NO YES (Submit analysis)
WAS DST RUN? NO YES (Submit report)
DIRECTIONAL SURVEY? NO YES (Submit copy)

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

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

25. TUBING RECORD

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

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A)				
(B)				
(C)				
(D)				

27. PERFORATION RECORD

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

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

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL

29. ENCLOSED ATTACHMENTS:

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

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: _____

Well Name: _____

Items #27 and #28 Continued

27. Perforation Record

Interval (Top/Bottom-MD)	Size	No. of Holes	Perf. Status

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

Depth Interval	Amount and Type of Material

CENTRAL DIVISION

ALTAMONT FIELD
WINSLOW 4-1C5
WINSLOW 4-1C5
RECOMPLETE LAND

Operation Summary Report

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

1 General**1.1 Customer Information**

Company	CENTRAL DIVISION
Representative	
Address	

1.2 Well Information

Well	WINSLOW 4-1C5		
Project	ALTAMONT FIELD	Site	WINSLOW 4-1C5
Rig Name/No.		Event	RECOMPLETE LAND
Start date	5/10/2016	End date	
Spud Date/Time	4/17/2015	UWI	WINSLOW 4-1C5
Active datum	KB @6,036.0usft (above Mean Sea Level)		
Afe No./Description	166739/56829 / WINSLOW 4-1C5		

2 Summary**2.1 Operation Summary**

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (usft)	Operation
5/11/2016	11:00 12:30	1.50	MIRU	01		P		ROAD RIG FROM 3-36B5 TO LOC, SPOT IN & RU, WHILE HOT OILER FLUSHING TBG W/ 55 BBLs TREATED 2% KCL
	12:30 14:30	2.00	WOR	16		P		PUMP 60 BBLs TREATED 2% KCL DWN CSG, NDWH, MU TBG SUB W/ TIW VALVE IN TBG HANGER, PU ON TBG, ND ESP LANDING HEAD & 5K X 10K DSA FLANGE, BREAK OFF LD TBG HANGER, STRIP OFF LANDING HEAD & DSA, STRIP ON & NU 10K X 5K X OVER SPOOL, BOP & HYDRILL, FUNCTION TEST BOP & HYDRILL
	14:30 19:00	4.50	PRDHEQ	39		P		RU CAP TUBE & ESP CABLE SPOOLERS, TOOH W/ 186 JTS 2-7/8" EUE L-80 TBG, FLUSHING TBG AS NEEDED, WELL BORE HOLDING FLUID BARRIER 1, SHUT HYDRILL BARRIER 2, SHUT & NIGHT CAP TIW VALVE BARRIER 1 & 2, SHUT & BULL PLUG CSG VALVES BARRIER 1 & 2 SDFN
5/12/2016	6:00 7:00	1.00	WOR	28		P		CT HOLD SAFETY MTG ON, LD ESP EQUIPMENT WRITE & REVIEW JSA'S
	7:00 11:30	4.50	PRDHEQ	39		P		0 PSI ON WELL, CONT TOOH W/ 98 JTS 2-7/8" TBG & 2-7/8" COLLAR STOP, RU HOT OILER & PUMP 20 BBLs HOT H2O DWN TBG TO FLUSH PUMPS, CONT POOH W/ 1 JT 2-7/8" TBG, 2-7/8" P.S.N., 1 JT 2-7/8" TBG, 2-7/8" DRAIN SUB, 1 JT 2-7/8" TBG, 6" X 2-7/8" TBG SUB, LAY DWN ESP EQUIP, TOP 3 PUMPS WERE LOCKED UP, BTM 2 PUMP GOOD, INTAKE SEALS & MTR ALL GOOD, ESP CABLE TESTED GOOD, HOT OILER PUMPING DWN CSG BARRIER 1, SHUT BLIND RAMS BARRIER 2, RIG DWN SPOOLERS & MOVE OFF LOCATION
	11:30 13:00	1.50	PRDHEQ	16		P		RD WORK FLOOR, ND HYDRILL, NU W.L. 5K FLANGE, RU WORK FLOOR, RU W.L. TEST LUBRICATOR GOOD TEST
	13:00 17:30	4.50	WLWORK	26		P		RIH W/ 4-1/8" GR/JB TO 9750', 6" GR/JB TO 9538' TOP OF 5" LT, RIH & SET 5" 15K CBP @ 9735', FILL CSG W/ 87 BBLs TREATED 2% KCL, DUMP BAIL 20' CMT ON TOP OF PLUG NEW PBTD @ 9715', POOH W/ W.L., SECURE WELL, BARRIER 1 5" CBP, BARRIER 2 BLIND RAMS SHUT & LOCKED, CLOSE & BULL PLUG CSG VALVES BARRIER 1 & 2, RIG DWN WIRE LINE, SDFN
5/13/2016	6:00 7:00	1.00	WOR	28		P		CT HOLD SAFETY MTG ON NDBOP & NU FRAC STACK, WRITE & REVIEW JSA'S

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (usft)	Operation
	7:00 12:00	5.00	WOR	16		P		0 PSI ON WELL, LAND TBG HANGER W/ 2 WAY CHECK IN LANDING HEAD, NDBOP, NU 10K FRAC VALVE, TEST CONNECTION TO 9500 PSI, PULL 2 WAY CHECK & TBG HANGER, TEST CSG TO 8000 PSI FOR 15 MIN GOOD TEST, CONT NU FRAC STACK & TESTING TO 9500 PSI GOOD TEST, RUN FLOW BACK LINES & TEST TO 8000 PSI GOOD TEST
	12:00 14:00	2.00	WLWORK	21		P		MIRU THE PERFORATORS, PU LUBRICATOR & TEST TO 4500 PSI GOOD TEST, RIH & PERF STG 1 PERFS FROM 9680' - 9566' USING 3-1/8" GUNS, 22.7 GM CHARGES, 3 SPF @ 120 DEG PHASING, STARTING PRESSURE 1000 PSI ENDING 900 PSI, POOH & SECURE WELL, CLOSE MASTER FRAC VALVE BARRIER 1, CLOSE & LOCK BOTH 7" HCR VALVES 7 NIGHT CAP W.L. FLANGE, CLOSE & NIGHT CAP CSG VALVES BARRIER 1 & 2, SDFN
5/14/2016	6:00 6:00	24.00	MIRU	01		P		MOVE IN SPOT FRAC EQUIP & RU PUMP LINES
5/15/2016	6:00 7:00	1.00	STG01	28		P		DT HOLD SAFETY MTG ON WORKING W/ FRAC & W.L. CREW, WRITE & REVIEW JSA'S
	7:00 10:00	3.00	MIRU	01		P		CONT RI HALLIBURTON FRAC EQUIP, SET & TEST POP OFF
	10:00 12:15	2.25	STG01	35		P		PRESSURE TEST PUMP LINES TO 9520 PSI. OPEN WELL. SICP 370 PSI. BREAK DOWN STAGE 1 PERFORATIONS @ 5132 PSI, PUMPING 11 BPM, TREAT STG 1 PERFS 6000 GALLONS 15% HCL ACID, PERFORM STEP RATE SHUT DOWN TEST. ISIP 3029 PSI. FG .75. 5 MIN 2822 PSI. 10 MIN 2664 PSI. 15 MIN 2451 PSI. TREAT STAGE 1 PERFORATIONS W/ 5000 LBS 100 MESH SAND IN 1/2 PPG STAGE & 76100 LBS WHITE 30/50 SAND IN 1/2 PPG, 1 PPG, 1.75 PPG & 2.5 PPG STAGES. ISIP 3593 PSI. FG .81. AVG RATE 72.6 BPM. MAX RATE 77.4 BPM. AVG PSI 4791 PSI. MAX PSI 5280 PSI. 3216 BBLs WATER TO RECOVER SHUT IN WELL & TURN OVER TO W.L., MASTER FRAC VALVE BARRIER 1, BTM HCR VALVE BARRIER 2
	12:15 14:00	1.75	STG02	21		P		EQUALIZE LUBRICATOR, RIH W/ 7" PLUG & PERF GUNS, TAG BTM OF PLUG @ 9497', POOH & LOG CCL UP TO SHORT JT, POOH LD PLUG & PERF GUNS
	14:00 23:30	9.50	WLWORK	18		N		RIH W/ CCL & 3-1/8" WT BAR TO 9566', POOH & LOG UP TO SHORT JT IN 7" CSG COUNTING CSG COLLARS ON LOG & IN CSG TALLY TO CONFIRM WERE 7" SHORT JT IS AT, POOH W/ WT BARS & CCL, SHUT MASTER FRAC VALVE BARRIER 1, SHUT HCR VALVES BARRIER 2, NIGHT CAP W.L. FLANGE, SHUT & NIGHT CAP CSG VALVES BARRIER 1 & 2, SDFN
5/16/2016	6:00 7:00	1.00	WOR	28		P		CT HOLD SAFETY MTG ON WORKING W/ WIRE LINE, WRITE & REVIEW JSA'S
	7:00 8:30	1.50	STG02	21		P		TEST LUBRICATOR TO 4800 PSI, RIH & SET 7" CBP @ 9529'. PERFORATE STAGE 2 PERFORATIONS FROM 9514' TO 9434', USING 3-1/8" TAG-RTG GUNS, 22.7 GRAM CHARGES, 3 SPF, 120 DEGREE PHASING. ALL PERFS CORRELATED TO THE PERFORATORS W.L. CBL/GR/CCL RUN 1 LOG DATED 5/08/2015, STARTING PRESSURE 1000 PSI, ENDING 900 PSI, POOH W/ W.L., SHUT WELL IN & TURN OVER TO FRAC CREW. 7" MASTER VALVE BARRIER 1, 7" HCR VALVE BARRIER 2

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (usft)	Operation
	8:30 10:00	1.50	STG02	35		P		TEST PUMP LINES TO 9471 PSI, OPEN WELL CSG 328 PSI, BRK DWN STG 2 PERFS @ 4815 PSI @ 14.8 BPM, PUMP TOTAL 90 BBLS & PERFORM STEP RATE DWN TEST, ISIP 2569, F.G. .76, 5 MIN 2569 PSI, 10 MIN 2462 PSI, 15 MIN 2394 PSI, TREAT STG 2 PERFS W/ 10,000 GALS 15% HCL ACID DROPPING 60 BIO BALLS IN 4 DROPS THRU OUT ACID, FLUSH ACID 10 BBLS PAST BTM PERF, ISIP 3472 PSI, F.G. .80, 5 MIN 2663 PSI, 10 MIN 2541 PSI. MAX PRESSURE 7582 PSI, AVG PRESSURE 6373 PSI, MAX PUMP RATE 53.1 BPM, AVG PUMP RATE 44.7 BPM, SHUT WELL IN & TURN OVER TO W.L. CREW, TOTAL BBLS TO RECOVER 722 BBLS, 7" MASTER VALVE BARRIER 1, 7" HCR VALVE BARRIER 2
	10:00 12:00	2.00	STG03	21		P		TEST LUBRICATOR TO 4800 PSI, RIH & SET 7" CBP @ 9273'. PERFORATE STAGE 3 PERFORATIONS FROM 9258' TO 9070', USING 3-1/8" TAG-RTG GUNS, 22.7 GRAM CHARGES, 3 SPF, 120 DEGREE PHASING. ALL PERFS CORRELATED TO THE PERFORATORS W.L. CBL/GR/CCL RUN 1 LOG DATED 5/08/2015, STARTING PRESSURE 2300 PSI, ENDING 800 PSI, POOH W/ W.L., SHUT WELL IN & TURN OVER TO FRAC CREW. 7" MASTER VALVE BARRIER 1, 7" HCR VALVE BARRIER 2
	12:00 13:15	1.25	STG03	35		P		TEST PUMP LINES TO 9381 PSI, OPEN WELL CSG 410 PSI, BRK DWN STG 3 PERFS @ 1551 PSI @ 14.6 BPM, PUMP TOTAL 99 BBLS & PERFORM STEP RATE DWN TEST, ISIP 1259, F.G. .57, 5 MIN 830 PSI, 10 MIN 694 PSI, 15 MIN 619 PSI, TREAT STG 3 PERFS W/ 20,000 GALS 15% HCL ACID DROPPING 80 BIO BALLS IN 4 DROPS THRU OUT ACID, FLUSH ACID 10 BBLS PAST BTM PERF, ISIP 1649 PSI, F.G. .61, 5 MIN 1318 PSI, 10 MIN 1184 PSI. MAX PRESSURE 5628 PSI, AVG PRESSURE 3165 PSI, MAX PUMP RATE 52.5 BPM, AVG PUMP RATE 50 BPM, SHUT WELL IN & TURN OVER TO W.L. CREW, TOTAL BBLS TO RECOVER 927 BBLS 7" MASTER VALVE BARRIER 1, 7" HCR VALVE BARRIER 2
	13:15 15:00	1.75	STG04	21		P		TEST LUBRICATOR TO 4800 PSI, RIH & SET 7" CBP @ 8921'. PERFORATE STAGE 4 PERFORATIONS FROM 8906' TO 8680', USING 3-1/8" TAG-RTG GUNS, 22.7 GRAM CHARGES, 3 SPF, 120 DEGREE PHASING. ALL PERFS CORRELATED TO THE PERFORATORS W.L. CBL/GR/CCL RUN 1 LOG DATED 5/08/2015, STARTING PRESSURE 900 PSI, ENDING 600 PSI, POOH W/ W.L., SHUT WELL IN & TURN OVER TO FRAC CREW. 7" MASTER VALVE BARRIER 1, 7" HCR VALVE BARRIER 2
	15:00 17:45	2.75	STG04	35		P		PRESSURE TEST PUMP LINES TO 9482 PSI. OPEN WELL. SICP 257 PSI. BREAK DOWN STAGE 4 PERFORATIONS @ 1604 PSI, PUMPING 10 BPM, TREAT STG 4 PERFS W/ 12000 GALLONS 15% HCL ACID, PERFORM STEP RATE SHUT DOWN TEST. ISIP 1515 PSI. FG .61. 5 MIN 1301 PSI. 10 MIN 1158 PSI. 15 MIN 1069 PSI. TREAT STAGE 4 PERFORATIONS W/ 8280 LBS 100 MESH SAND IN 1/2 PPG STAGE & 144580 LBS WHITE 30/50 SAND IN 1/2 PPG, 1 PPG, 1.5 PPG, 2 PPG & 3 PPG STAGES. ISIP 2217 PSI. FG .69. AVG RATE 75 BPM. MAX RATE 75.7 BPM. AVG PSI 2819 PSI. MAX PSI 3183 PSI. 5584 BBLS WATER TO RECOVER SHUT IN MASTER FRAC VALVE BARRIER 1, BTM HCR VALVE BARRIER 2, TOP HCR VALVE & NIGHT CAP, CSG VALVES CLOSED W/ 2 VALVES BARRIER 1 & 2, HAD TO SHUT DWN TWICE DURING STG ONCE BECAUSE COMPUTERS FROZE UP. AND ONCE BECAUSE SUCTION ON GROWLER WASNT KEEPING TUB FULL
	17:45 20:45	3.00	RDMO	02		P		RIG DWN & MOVE OFF LOCATION W/ W.L. & FRAC EQUIP
	20:45 6:00	9.25	FB	19		P		TURN WELL OVER TO FLOW BACK CREW, OPEN WELL ON 12/64 CHOKE @ 1150 PSI FLOWED BACK 238 BBLS WATER, CURRENT PRESSURE IS 725

5/17/2016

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (usft)	Operation
	6:00 6:00	24.00	WOR	19		P		HOLD SAFETY MTG ON CLEANING CHOKES, WRITE & REVIEW JSA'S, WELL FLOWING @ 350 PSI, 14/64 CHOKE, MADE 660 BBLS WTR, TRACE OIL
5/18/2016	6:00 6:00	24.00	FB	19		P		HOLD SAFETY MTG ON TURNING WELL TO PROD FACILITY, WRITE & REVIEW JSA'S, CURRENT PRESSURE 200 PSI, CHOKE 20/64, FLOWED 775 BBLS WATER & 47 BBLS OIL, GAS GOING TO FLARE
5/19/2016	6:00 7:00	1.00	WOR	28		P		CT HOLD SAFETY MTG ON ND FRAC STACK, WRITE & REVIEW JSA'S
	7:00 8:30	1.50	WOR	16		P		200 PSI ON CSG FLOWING TO PRODUCTION, SHUT WELL IN & OPEN IT TO FLOW BACK TANK, ND 7" 10K NIGHT CAP, TOP 7" HCR VALVE & GOAT HEAD
	8:30 9:30	1.00	WOR	15		P		FLOWING CSG PRESSURE, 75 PSI, HOOK UP PUMP & PUMP 150 BBLS BRINE DWN CSG, ENDING PRESSURE 0 PSI
	9:30 12:00	2.50	WOR	16		P		ND BTM 7" HCR VALVE, KILL FLUID BARRIER 1, 7" FRAC VALVE BARRIER 2, NU 10K X 5K X OVER SPOOL & 5K BOP ON TOP OF FRAC VALVE, CHANGE OUT BLIND RAMS TO 2-7/8" PIPE RAMS, TEST BOP TO 4500 PSI GOOD TEST, HIGH & LOW TEST CHARTED, CSG 25 PSI, PUMP 50 BBLS BRINE DWN CSG, CSG ON VACUME
	12:00 16:00	4.00	PRDHEQ	39		P		RIH W/ 6" ROCK BIT, 2-7/8" EUE X 3-1/2" REG BIT SUB, 1 JT 2-7/8" TBG, 2-7/8" P.S.N. & 272 JTS 2-7/8" EUE L-80 TBG TALLYING IN HOLE, TAG @ 8901', LD 1 JT 2-7/8" TBG
	16:00 18:00	2.00	PRDHEQ	10		P		RU POWER SWIVEL, PU 1 JT W/ SWIVEL, BREAK REV CIRC W/ 45 BBLS TREATED 2% KCL, CLEAN OUT 20' SAND & DRILL OUT 7" CBP @ 8921', CIRC CLEAN, PUMP 10 BBLS BRINE DWN TBG, RIG DWN POWER SWIVEL
	18:00 19:00	1.00	PRDHEQ	39		P		TOOH W/ 14 JTS 2-7/8" TBG, EOT @ 8568', SECURE WELL, SHUT & LOCK BOTH SETS PIPE RAMS BARRIER 1 & 2, SHUT TIW VALVE BARRIER 1, NIGHT CAP TIW VALVE BARRIER 2, SHUT & NIGHT CAP CSG VALVES BARRIER 1 & 2, SDFN
5/20/2016	6:00 7:00	1.00	WOR	28		P		CT HOLD SAFETY MTG ON RU POWER SWIVEL & MAKING CONNECTIONS, WRITE & REVIEW JSA'S
	7:00 13:00	6.00	WOR	10		P		SICP 100 PSI, SITP 0 PSI, OPEN CSG TO FLOW BACK TANK, RIH W/ 24 JTS 2-7/8" EUE L-80 TBG, RO POWER SWIVEL BEGIN CIRC, DRILL OUT 7" CBP @ 9273', CIRC TBG CLEAN, PUMP 15 BBLS BRINE DWN TBG, SWIVEL DWN 8 JTS 2-7/8" TBG, DRILL OUT 7" CBP @ 9529', PUSH TO LINER TOP & CONT DRILLING UP CBP REMAINS, CIRC TBG CLEAN, PUMP 20 BBLS BRINE DWN TBG, RIG DWN POWER SWIVEL
	13:00 15:00	2.00	PRDHEQ	39		P		TOOH W/ 186 JTS 2-7/8" TBG, EOT @ 3500'
	15:00 15:45	0.75	WOR	15		P		CIRC WELL W/ 122 BBLS BRINE WTR
	15:45 17:00	1.25	PRDHEQ	39		P		CONT TOOH W/ 186 JTS 2-7/8" TBG, BIT SUB & 6" ROCK BIT
	17:00 17:00	0.00	PRDHEQ	39		P		RIH W/ 4-1/8" BIT, BIT SUB, PU 8 JTS 2-3/8" TBG, 2-3/8" X 2-7/8" EUE X OVER & 156 JTS 2-7/8" EUE L-80 TBG, SECURE WELL SHUT & LOCK UPPER & LOWER PIPE RAMS BARRIER 1 & 2, CLOSE & NIGHT CAP TIW VALVE BARRIER 1 & 2, CLOSE & BULL PLUG CSG VALVES BARRIER 1 & 2, SDFN
5/21/2016	6:00 7:00	1.00	WOR	28		P		CT HOLD SAFETY MTG ON CLEAN WORK AREA & SLIPS & TRIPS, WRITE & REVIEW JSA'S
	7:00 9:00	2.00	PRDHEQ	39		P		SICP 400 PSI, SITP 400 PSI, BLOW GAS DWN TO FLOW BACK TANK, PUMP 15 BBLS BRINE DWN TBG, TIH W/ 131 JTS 2-7/8" TBG TAG FILL @ 9642', RU POWER SWIVEL
	9:00 12:30	3.50	PRDHEQ	10		P		CLEAN OUT SAND FROM 9642' TO 9720' NEW PBTD, CIRC GAS & OIL OUT OF WELL BORE, PUMP 15 BBLS BRINE DWN TBG, RD DWN & RACK OUT SWIVEL
	12:30 14:00	1.50	PRDHEQ	39		P		TOOH W/ 192 JTS 2-7/8" TBG EOT @ 3468'
	14:00 14:45	0.75	WOR	15		P		CIRC WELL BORE W/ 122 BBLS BRINE

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (usft)	Operation
	14:45 15:30	0.75	WOR	39		P		CONT TOOHW W/ 98 JTS 2-7/8" EUE L-80 TBG, 2-7/8" X 2-3/8" EUE X OVER, LD 8 JTS 2-3/8" EUE WORK STRING TBG
	15:30 18:30	3.00	WOR	39		P		CMU & RIH W/ 5-3/4" SOLID NO-GO, 5 JTS 2-7/8" EUE L-80 TBG, DESANDER # 2707, 7" ASX-1 PKR, ON-OFF TOOL & 260 JTS 2-7/8" EUE L-80 TBG, MAKE UP 7" 10K HANGER, SET 7" ASX-1 PKR @ 8507', #2707 DESANDER @ 8515', EOT @ 8683', LAND TBG ON HANGER, TEST CSG TO 1000 PSI GOOD TEST, PKR BARRIER 1, TBG HANGER BARRIER 2, SHUT & LOCK PIPE RAMS, SHUT & NIGHT CAP TIW VALVE BARRIER 1 & 2, CLOSE & BULL PLUG CSG VALVES BARRIER 1 & 2, SDFN
5/22/2016	6:00 7:00	1.00	WOR	28		P		CT HOLD SAFETY MTG ON USING STOP WORK AUTHORITY, WRITE & REVIEW JSA'S
	7:00 9:30	2.50	WOR	16		P		SICP 1000 PSI, SITP 100 PSI, BLPW DWN CSG & TBG TO FLOW BACK TANK, RD WORK FLOOR, ND & STRIP OFF 5K BOP, 10K FRAC VALVE, BARRIER 1 PKR, BARRIER 2 TBG HANGER, CHECK TBG & CSG FOR FLOW NO FLOW, UNLAND TBG & LD TBG HANGER, STRIP ON & NU 10K X 5K DSA, 5K ESP LANDING HEAD, STUMP TESTED BOP & HYDRILL, NU ALL FLANGES, RU WORK FLOOR & TBG TONGS
	9:30 10:45	1.25	PRDHEQ	39		P		J-OFF PKR, TOOHW W/ 154 JTS 2-7/8" TBG EOT @ 3500'
	10:45 11:30	0.75	WOR	15		P		CIRC WELL W/ 130 BBLs BRINE WTR
	11:30 12:30	1.00	PRDHEQ	39		P		CONT TOOHW W/ 106 JTS 2-7/8" TBG & 7" ON-OFF SKIRT
	12:30 14:00	1.50	WOR	24		P		PU & SERV, CENTINEL, ESP MTR, DUAL SEALS, INTAKE & PUMPS, POOH & STAND BACK IN DERRICK W/ ESP EQUIP
	14:00 15:00	1.00	PRDHEQ	39		P		RIH W/ 100 JTS 2-7/8" EUE L-80 TBG, SECURE WELL, SHUT & LOCK PIPE RAMS BARRIER 1, SHUT HYDRILL BARRIER 2, CLOSE & NIGHT CAP TIW VALVE BARRIER 1 & 2, CLOSE & BULL PLUG CSG VALVES BARRIER 1 & 2, SDFW
5/23/2016	6:00 6:00	24.00	WOR	18		P		NO ACTIVITY SDFW
5/24/2016	7:00 8:00	1.00	WOR	28		P		CT HOLD SAFETY MTG ON RIH W/ ESP CABLE & CAP TUBE, WRITE & REVIEW JSA'S
	8:00 9:30	1.50	PRDHEQ	39		P		SICP 300 PSI, SITP 250 PSI, BLOW DWN WELL TO FLOW BACK TANK, CIRC WELL W/ 115 BBLs BRINE WTR, TOOHW W/ 100 JTS 2-7/8" EUE L-80 TBG
	9:30 16:30	7.00	PRDHEQ	03		P		RU ESP CABLE & CAP TUBE SPOOLERS, HOOK UP CAP TUBE & ESP CABLE, RIH 2-3/8" CHEMICAL MANDREL, PRE SERVICED CENTINEL, MTR, DUAL SEALS, SEPERATOR, 5 STG FLEX 10 PUMP, 6" X 2-7/8" EUE N-80 TBG SUB, 1 JT 2-7/8" EUE L-80, 2-7/8" DRAIN SUB, 1 JT 2-7/8" EUE L-80, 2-7/8" P.S.N., 1 JT 2-7/8" EUE L80, COLLAR STOP & 250 JTS 2-7/8" EUE L-80 TBG
	16:30 19:00	2.50	PRDHEQ	16		P		MAKE UPPER PENETRATOR SPLICE, LAND TBG ON HANGER, EOP @ 8416' & P.S.N. @ 8217', RIG DWN WORK FLOOR, ND HYDRILL & BOP, NUWH, HOOK UP FLOW LINES, FLUSH FLOW LINES W/ 15 BBLs HOT 2% KCL & PRESSURE TEST FLOW LINES TO 3500 PSI GOOD TEST, START ESP, PUMPED UP IN 1 MINUTE, TWOTP SDFN
7/23/2016	6:00 7:30	1.50	WOR	28		P		HELD JSA MEETING W/ CREW ON R/U CAP STRING SPOOLER
	7:30 10:30	3.00	WOR	16		P		CSIP 60, TSIP 0, PUMP 60 BBLs DOWN CSG KILL WELL, 40 DOWN TBG, R/D FLOW LINES FLOW "T" ECT. P/U ON TBG HANGER N/D 3M LANDING BOWL. STRIP OUT 3M LANDING BOWL LAND TBG ON HANGER N/U 5K BOP, 5K ANNULAR, R/U TBG WORK FLOOR, PULL HANGER, CABLE, CAP STRING TO TOP SLIPS, R/U BAKER SPOOLERS & WEATHERFORD CAP STRING SPOOLERS
	10:30 16:00	5.50	WOR	39		P		TOOH W/ 250 JT 2 7/8" N-80 8RD TBG, COLLAR STOP, 1 JT 2 7/8" N-80 TBG, 2 7/8" +45 PSN, 1 JT 2 7/8", 2 7/8" DRAIN SUB, 1 JT 2 7/8" N-80 TBG, PUP JT, ESP PUMP! SPOOLING CABLE AS TOOHW

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (usft)	Operation
	16:00 18:30	2.50	WOR	16		P		LAND 7 -1/16" HANGER IN WELL HEAD W/ 2 WC TEST BOP 4000 PSI HIGH, 300 LOW PIPE & BLIND RAMS, 300 LOW, 3000 ANNULERS, R/D TEST TRUCK
	18:30 19:30	1.00	WOR	39		P		M/U 7" RET HEAD TIH W/ 73 JT 2 7/8" N-80 TBG 2,375' CLOSE LOCK PIPE RAMS, INSTALL 2" BULL PLUGS IN ALL POSSIBLE SPOTS, INSTALL TIW VALVE 1ST BARRIER, NIGHT CAO 2ND BARRIER SDFN

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
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.		5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL Oil Well		7. UNIT or CA AGREEMENT NAME:
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.		8. WELL NAME and NUMBER: Winslow 4-1C5
3. ADDRESS OF OPERATOR: 1001 Louisiana , Houston, TX, 77002		9. API NUMBER: 43013532690000
PHONE NUMBER: 713 997-5138 Ext		9. FIELD and POOL or WILDCAT: ALTAMONT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0800 FNL 1800 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 01 Township: 03.0S Range: 05.0W Meridian: U		COUNTY: DUCHESNE
		STATE: UTAH

11.

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 7/27/2016	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="DO Plug"/>

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

Drilled out CBP. Open perms: 8680'-9680' (2016 Recom) &
9771'-12450' (Initial completion. Please see attached for details.

**Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
October 19, 2016**

NAME (PLEASE PRINT) Maria S. Gomez	PHONE NUMBER 713 997-5138	TITLE Consultant
SIGNATURE N/A	DATE 10/10/2016	

CENTRAL DIVISION

ALTAMONT FIELD
WINSLOW 4-1C5
WINSLOW 4-1C5
RECOMPLETE LAND

Operation Summary Report

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

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (usft)	Operation
	14:45 15:30	0.75	WOR	39		P		CONT TOOHW W/ 98 JTS 2-7/8" EUE L-80 TBG, 2-7/8" X 2-3/8" EUE X OVER, LD 8 JTS 2-3/8" EUE WORK STRING TBG
	15:30 18:30	3.00	WOR	39		P		CMU & RIH W/ 5-3/4" SOLID NO-GO, 5 JTS 2-7/8" EUE L-80 TBG, DESANDER # 2707, 7" ASX-1 PKR, ON-OFF TOOL & 260 JTS 2-7/8" EUE L-80 TBG, MAKE UP 7" 10K HANGER, SET 7" ASX-1 PKR @ 8507', #2707 DESANDER @ 8515', EOT @ 8683', LAND TBG ON HANGER, TEST CSG TO 1000 PSI GOOD TEST, PKR BARRIER 1, TBG HANGER BARRIER 2, SHUT & LOCK PIPE RAMS, SHUT & NIGHT CAP TIW VALVE BARRIER 1 & 2, CLOSE & BULL PLUG CSG VALVES BARRIER 1 & 2, SDFN
5/22/2016	6:00 7:00	1.00	WOR	28		P		CT HOLD SAFETY MTG ON USING STOP WORK AUTHORITY, WRITE & REVIEW JSA'S
	7:00 9:30	2.50	WOR	16		P		SICP 1000 PSI, SITP 100 PSI, BLPW DWN CSG & TBG TO FLOW BACK TANK, RD WORK FLOOR, ND & STRIP OFF 5K BOP, 10K FRAC VALVE, BARRIER 1 PKR, BARRIER 2 TBG HANGER, CHECK TBG & CSG FOR FLOW NO FLOW, UNLAND TBG & LD TBG HANGER, STRIP ON & NU 10K X 5K DSA, 5K ESP LANDING HEAD, STUMP TESTED BOP & HYDRILL, NU ALL FLANGES, RU WORK FLOOR & TBG TONGS
	9:30 10:45	1.25	PRDHEQ	39		P		J-OFF PKR, TOOHW W/ 154 JTS 2-7/8" TBG EOT @ 3500'
	10:45 11:30	0.75	WOR	15		P		CIRC WELL W/ 130 BBLs BRINE WTR
	11:30 12:30	1.00	PRDHEQ	39		P		CONT TOOHW W/ 106 JTS 2-7/8" TBG & 7" ON-OFF SKIRT
	12:30 14:00	1.50	WOR	24		P		PU & SERV, CENTINEL, ESP MTR, DUAL SEALS, INTAKE & PUMPS, POOH & STAND BACK IN DERRICK W/ ESP EQUIP
	14:00 15:00	1.00	PRDHEQ	39		P		RIH W/ 100 JTS 2-7/8" EUE L-80 TBG, SECURE WELL, SHUT & LOCK PIPE RAMS BARRIER 1, SHUT HYDRILL BARRIER 2, CLOSE & NIGHT CAP TIW VALVE BARRIER 1 & 2, CLOSE & BULL PLUG CSG VALVES BARRIER 1 & 2, SDFW
5/23/2016	6:00 6:00	24.00	WOR	18		P		NO ACTIVITY SDFW
5/24/2016	7:00 8:00	1.00	WOR	28		P		CT HOLD SAFETY MTG ON RIH W/ ESP CABLE & CAP TUBE, WRITE & REVIEW JSA'S
	8:00 9:30	1.50	PRDHEQ	39		P		SICP 300 PSI, SITP 250 PSI, BLOW DWN WELL TO FLOW BACK TANK, CIRC WELL W/ 115 BBLs BRINE WTR, TOOHW W/ 100 JTS 2-7/8" EUE L-80 TBG
	9:30 16:30	7.00	PRDHEQ	03		P		RU ESP CABLE & CAP TUBE SPOOLERS, HOOK UP CAP TUBE & ESP CABLE, RIH 2-3/8" CHEMICAL MANDREL, PRE SERVICED CENTINEL, MTR, DUAL SEALS, SEPERATOR, 5 STG FLEX 10 PUMP, 6" X 2-7/8" EUE N-80 TBG SUB, 1 JT 2-7/8" EUE L-80, 2-7/8" DRAIN SUB, 1 JT 2-7/8" EUE L-80, 2-7/8" P.S.N., 1 JT 2-7/8" EUE L80, COLLAR STOP & 250 JTS 2-7/8" EUE L-80 TBG
	16:30 19:00	2.50	PRDHEQ	16		P		MAKE UPPER PENETRATOR SPLICE, LAND TBG ON HANGER, EOP @ 8416' & P.S.N. @ 8217', RIG DWN WORK FLOOR, ND HYDRILL & BOP, NUWH, HOOK UP FLOW LINES, FLUSH FLOW LINES W/ 15 BBLs HOT 2% KCL & PRESSURE TEST FLOW LINES TO 3500 PSI GOOD TEST, START ESP, PUMPED UP IN 1 MINUTE, TWOTP SDFN
7/23/2016	6:00 7:30	1.50	WOR	28		P		HELD JSA MEETING W/ CREW ON R/U CAP STRING SPOOLER
	7:30 10:30	3.00	WOR	16		P		CSIP 60, TSIP 0, PUMP 60 BBLs DOWN CSG KILL WELL, 40 DOWN TBG, R/D FLOW LINES FLOW "T" ECT. P/U ON TBG HANGER N/D 3M LANDING BOWL. STRIP OUT 3M LANDING BOWL LAND TBG ON HANGER N/U 5K BOP, 5K ANNULAR, R/U TBG WORK FLOOR, PULL HANGER, CABLE, CAP STRING TO TOP SLIPS, R/U BAKER SPOOLERS & WEATHERFORD CAP STRING SPOOLERS
	10:30 16:00	5.50	WOR	39		P		TOOH W/ 250 JT 2 7/8" N-80 8RD TBG, COLLAR STOP, 1 JT 2 7/8" N-80 TBG, 2 7/8" +45 PSN, 1 JT 2 7/8", 2 7/8" DRAIN SUB, 1 JT 2 7/8" N-80 TBG, PUP JT, ESP PUMP! SPOOLING CABLE AS TOOHW

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (usft)	Operation
	16:00 18:30	2.50	WOR	16		P		LAND 7 -1/16" HANGER IN WELL HEAD W/ 2 WC TEST BOP 4000 PSI HIGH, 300 LOW PIPE & BLIND RAMS, 300 LOW, 3000 ANNULERS, R/D TEST TRUCK
	18:30 19:30	1.00	WOR	39		P		M/U 7" RET HEAD TIH W/ 73 JT 2 7/8" N-80 TBG 2,375' CLOSE LOCK PIPE RAMS, INSTALL 2" BULL PLUGS IN ALL POSSIBLE SPOTS, INSTALL TIW VAVLE 1ST BARRIER, NIGHT CAO 2ND BARRIER SDFN
7/24/2016	6:00 7:30	1.50	WOR	28		P		HELD JSA MEETING W/ CREW TURNING TONG HEADS OVER
	7:30 11:00	3.50	WOR	39		P		TSIP 0, CSIP 150, SHUT OFF ALL IGINTION SOURCE BLEED OFF CSG FLOW BACK TANK, OPEN TBG UP PULL NIGHT CAP, TIW VAVLE CONT TIH W/ 188 JT 2 7/8" N-80 TBG "J" UP ON 7" AS1 PKR & RELEASE TOO H W/ 261 JT 2-7/8" N-80 TBG, 7" RET HEAD, #2707 DESANDER, 5 JT 2 7/8" N-80 TBG, 5 3/4" SOLID NO/GO
	11:00 23:00	12.00	WOR	39		P		MEASURE 4-1/8" MILL TOOTH BIT & BIT SUB, TALLY 2 3/8" TBG P/U 120 JT, X/O, TIH W/ 196 JT 2 7/8" N-80 TBG, (DID NOT SEE LT) TAG UP @ 9,705' R/U DRILL EQUIPMENT START PUMP TRY GAIN CIRC 700 BBLs @ 9 BPM APPROX 1.5 BPM RETURNING START DRILLING (SOMETHING HARD ON TOP!) DRILL 2- 3 HRS FELL THREW (ADDED ANOTHER HOT OILER ON PUMP WITH INCREASED RETURNS LITTLE!) CLEAN OUT SAND CEMENT DOWN 5" CBP @ 9,735' CIRC CLEAN DRILL UP PLUG 1 1/2 HRS CIRC CLEAN RD POWER SWIVEL TIH W/ 68 JT 2 7/8", P/U 20 JT 2 7/8" N-80 TBG , TAG UP @ 12,628' 170' PASS BOTTOM PERFS, 70' FILL,
7/25/2016	0:01 1:00	0.98	WOR	31		P		TOOH PULLED BIT OUT LINER W/ 96 JT 2 7/8" PUT EOT @ 9,486' CLOSE AND LOCK PIPE RAMS 1 ST BARRIER, NIGHT CAP CSG VAVLES 2ND, INSTALL TIW VAVLE 1ST BARRIER, NIGHT CAP TIW 2ND BARRIER SDFN
7/26/2016	7:00 8:30	1.50	WOR	28		P		HELD SAFETY MEETING W/ RIG CREW TOOH PLUGED TBG
	8:30 12:00	3.50	WOR	39		P		TSIP 0, CSIP 600, CHECK ALL IGINTION SOURCE, BLEED CSG OFF FLOW BACK TANK, CONT TOOH W/ 189 JT 2 7/8" N-80 TBG, TIH W/ 20 JNT 2 7/8" NEW, L/D 19 JT 2 7/8", L/D 104 2 3/8" N-80 TBG, BIT SUB, 4 1/8" BIT,
	12:00 15:30	3.50	WOR	39		P		M/U 5-3/4" NO/GO, TIH W/ 5 JT 2 7/8" N-80, 2 7/8" #2707 DESANDER, 7" AS1 PKR KLX, ON/OFF SKIRT TIH W/ 260 JT 2 7/8" SET PKR @ 8,492' "J" OFF PKR!
	15:30 17:00	1.50	WOR	39		P		TOOH W/ 174 JT 2 7/8" N-80 TBG EOT @ 2,547' 78 JT 2 7/8" TBG LEFT IN THE HOLE !
	17:00 17:30	0.50	WOR	31		P		CLOSE LOCK & PIPE RAMS 1ST BARRIER, NIGHT CAP CSG VAVLE 2ND, INSTALL TIW VAVLE 1ST BARRIER, NIGHT CAP W/ NEEDLE VAVLE 2ND BARRIER SDFN
7/27/2016	6:00 7:30	1.50	WLWORK	28		P		HELD JSA MEETING W/ CREW R/U CABLE SPOOLERS
	7:30 9:00	1.50	WOR	39		P		TSIP 100, CSIP 100, SHUT OFF IGNITION SOURCES, BLEED BOTH SIDES OFF FLOW BACK TANK OPEN WELL, CONT TOOH W/ 2 7/8" TBG, 7" RET HEAD,
	9:00 11:00	2.00	WOR	16		P		N/D STACK PULLED 10K X 10K FLANGE OFF, & INSTALLED 3M LANDING SPOOL N/U BOP R/U BAKERS CABLE SPOOLERS, WEATHERFORD CAP STRING SPOULER
	11:00 16:30	5.50	WOR	24		P		M/U CHEMICAL MANDREL, CONTIONAL, ESP MOTOR, SEALS, INTAKE, PUMPS, 6" X 2 7/8" PUP, 1 JT 2 7/8", DRAIN SUB, 1 JT 2 7/8", 2 7/8" PSN, 1 JT 2 7/8", COLLAR STOP CONT TIH BANDING CABLE & CAP STRING TIH W/ 249 JT 2 7/8" TBG

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (usft)	Operation
	16:30 17:30	1.00	WOR	13		P		INSTALL CAP STRING IN 7 1/16" HANGER, SPACE OUT ESP CABLE, PULLED UP MADE FINAL SPICE LOWER HANGER DOWN 3M FLANGE MOTOR @ 8351 NO/GO @ 8380
	17:30 18:00	0.50	WOR	24		P		LAND 7- 1/16" HANGER IN 3M FLANGE RUN IN HANGER PINS CLOSED ANNULERS ON TBG SUB, INSTALL TIW VAVLE W/ NIGHT CAP 2ND BARRIER, SEND CSG UP SALES LINE SDFN
7/28/2016	6:00 7:30	1.50	WOR	28		P		HELD JSA MEETING W/ CREW ON WORKING AROUND WELL HEAD W/ ESP CONNECTION
	7:30 9:00	1.50	WOR	16		P		TSIP O, CSIP O, CHECK ALL IGNITION SOURCE OPEN WELL UP R/D TBG WORK FLOOR USING 2 TAG LINES, N/D WASHINGTON HEAD, 5K HYDRILL, 5K BOP, N/U UP WELL HEAD FLOW LINES ECT.
	9:00 10:00	1.00	WOR	18		P		BAKER HOOKED UP POWER SUPPLY TO WELL HEAD, TOOK APPROX 15 MIN PUMP UP RDMO YOUNG 2-30B4 (TURNED OVER OPERATOR