

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

Ken McQueen
Cabinet Secretary

Matthias Sayer
Deputy Cabinet Secretary

David R. Catanach, Division Director
Oil Conservation Division



New Mexico Oil Conservation Division approval and conditions listed below are made in accordance with OCD Rule 19.15.7.11 and are in addition to the actions approved by BLM on the following 3160-3 APD form.

Operator Signature Date: 3/23/2017

Well information;

Operator WAX, Well Name and Number W Escudada Unit 301H

API# 30-043-21304, Section 17, Township 22 N/S, Range 7 E/W

Conditions of Approval: (See the below checked and handwritten conditions)

- Notify Aztec OCD 24hrs prior to casing & cement.
- Hold C-104 for directional survey & "As Drilled" Plat
- Hold C-104 for NSL, NSP, DHC
- Spacing rule violation. Operator must follow up with change of status notification on other well to be shut in or abandoned
- Regarding the use of a pit, closed loop system or below grade tank, the operator must comply with the following as applicable:
 - A pit requires a complete C-144 be submitted and approved prior to the construction or use of the pit, pursuant to 19.15.17.8.A
 - A closed loop system requires notification prior to use, pursuant to 19.15.17.9.A
 - A below grade tank requires a registration be filed prior to the construction or use of the below grade tank, pursuant to 19.15.17.8.C
- Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string
- Submit Gas Capture Plan form prior to spudding or initiating recompletion operations
- Regarding Hydraulic Fracturing, review EPA Underground Injection Control Guidance 84
- Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.
- Well-bore communication is regulated under 19.15.29 NMAC. This requires well-bore Communication to be reported in accordance with 19.15.29.8.

Charles T. Lewis
NMOCD Approved by Signature

8-9-2017
Date

1220 South St. Francis Drive • Santa Fe, New Mexico 87505
Phone (505) 476-3441 • Fax (505) 476-3462 • www.emnrd.state.nm.us/ocd

HELD FOR
Unit approval
Rec'd on
6-5-18

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No. NOG13111802	
6. If Indian, Allottee or Tribe Name EASTERN NAVAJO	
7. If Unit or CA Agreement, Name and No.	
8. Lease Name and Well No. W ESCAVADA UNIT 301H	
9. API Well No. 20-043-21304	
10. Field and Pool, or Exploratory BASIN MANCOS / ESCAVADA MANCO:	
11. Sec., T. R. M. or Blk. and Survey or Area SEC 17 / T22N / R7W / NMP	
12. County or Parish SANDOVAL	13. State NM
14. Distance in miles and direction from nearest town or post office* 53.9 miles	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 20 feet	16. No. of acres in lease 160
17. Spacing Unit dedicated to this well 280	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 187 feet	19. Proposed Depth 4142 feet / 4204 feet
20. BLM/BIA Bond No. on file FED: UTB000178 / IND: B001576	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6804 feet	22. Approximate date work will start* 06/01/2017
23. Estimated duration 30 days	

OIL CONS. DIV DIST. 3
AUG 04 2017

24. Attachments
- The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:
- Well plat certified by a registered surveyor.
 - A Drilling Plan.
 - A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
 - Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
 - Operator certification
 - Such other site specific information and/or plans as may be required by the BLM.

25. Signature (Electronic Submission)	Name (Printed/Typed) Lacey Granillo / Ph: (505)333-1816	Date 03/23/2017
Title Permitting Tech III		
Approved by (Signature) <i>[Signature]</i>	Name (Printed/Typed)	Date 8/1/17
Title AEM		

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 2)

*(Instructions on page 2)

BLM'S APPROVAL OR ACCEPTANCE OF THIS ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS"

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

NMOCD *AV*

District I
 3625 N. French Drive, Hobbs, NM 88240
 Phone: (575) 393-6161 Fax: (575) 393-0720

District II
 811 S. First Street, Artesia, NM 88210
 Phone: (575) 748-1283 Fax: (575) 748-9720

District III
 1000 Rio Brazos Road, Aztec, NM 87410
 Phone: (505) 334-6178 Fax: (505) 334-6170

District IV
 1220 S. St. Francis Drive, Santa Fe, NM 87505
 Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
 Energy, Minerals & Natural Resources Department

Form C-102
 Revised August 1, 2011

Submit one copy to
 Appropriate District Office

OIL CONSERVATION DIVISION
 1220 South St., Francis Drive
 Santa Fe, NM 87505

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-043-21304	*Pool Code 98225	*Pool Name ESCAVADA w/ Mancos
*Property Code 31A188321258	*Property Name W ESCAVADA UNIT	*Well Number 301H
*GRID No. 120782	*Operator Name WPX ENERGY PRODUCTION, LLC	*Elevation 6804'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	17	22N	7W		1101	NORTH	187	EAST	SANDOVAL

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	8	22N	7W		2304	SOUTH	893	WEST	SANDOVAL

¹² Dedicated Acres 280.00	N/2 SW/4, SE/4 SW/4 SW/4 SE/4 - Section 8 N/2 NE/4, SE/4 NE/4 - Section 17	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-14100
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION
 UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A
 NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

END-OF-LATERAL
 2304' FSL B93' FHL
 SEC 8, T22N, R7W
 LAT: 36.153240°N
 LONG: 107.603194°W
 DATUM: NAD1927

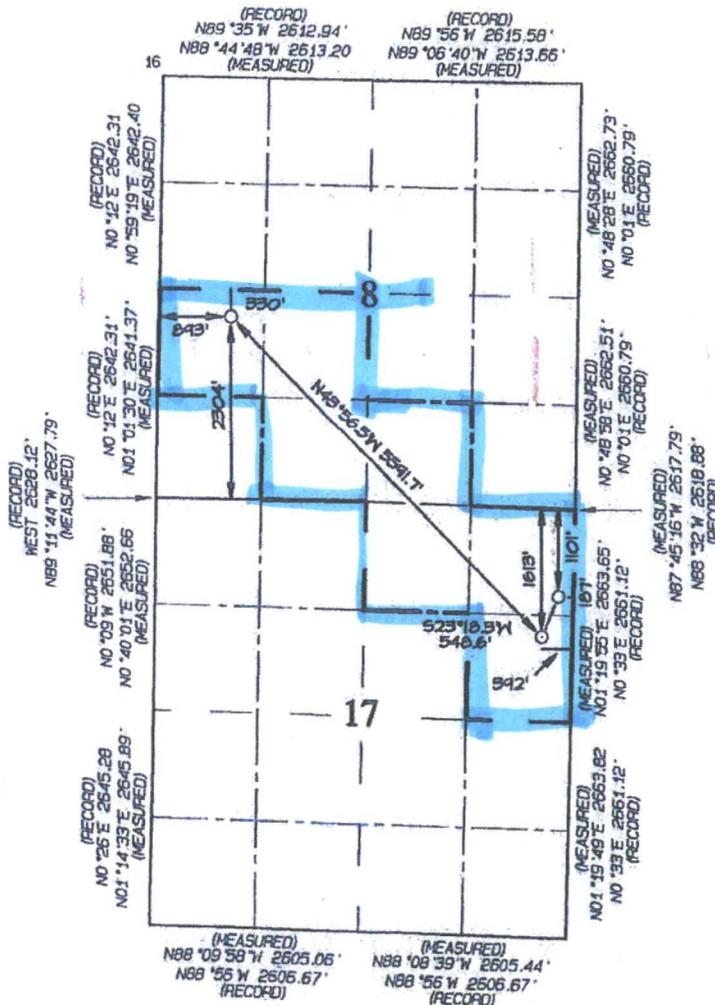
LAT: 36.153255°N
 LONG: 107.603802°W
 DATUM: NAD1983

SURFACE LOCATION
 1101' FHL 187' FEL
 SEC 17, T22N, R7W
 LAT: 36.143722°N
 LONG: 107.589154°W
 DATUM: NAD1927

LAT: 36.143737°N
 LONG: 107.589762°W
 DATUM: NAD1983

POINT-OF-ENTRY
 1613' FHL 392' FEL
 SEC 17, T22N, R7W
 LAT: 36.142330°N
 LONG: 107.589865°W
 DATUM: NAD1927

LAT: 36.142345°N
 LONG: 107.590473°W
 DATUM: NAD1983



¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom-hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

[Signature] 3/16/17
 Date
Lacey Granillo
 Printed Name
lacey.granillo@wpxenergy.com
 E-mail Address

¹⁸ SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date Revised: MARCH 15, 2017
 Date of Survey: MARCH 3, 2016

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
 Certificate Number 15269

DEPT 372286-Ending - Blanket Sundry for op change rec'd April 2018.

While drill pipe is in use, the pipe rams and the blind rams will be function tested once each trip. The BOPE will be tested to 2,000 psi (High) for 10 minutes and the annular tested to 1,500 psi for 10 minutes. Pressure test surface casing to 1,500 psi for 30 minutes and intermediate casing to 1,500 psi for 30 minutes. Utilize a BOPE Testing Unit with a recording chart and appropriate test plug for testing. All tests and inspections will be recorded in the tour book as to time and results.

III. MATERIALS

A. CASING PROGRAM:

CASING TYPE	OH SIZE (IN)	DEPTH (MD)	CSG SIZE	WEIGHT	GRADE	CONN
SURFACE	12.25"	320.00'	9.625"	36 LBS	J-55 or equiv	STC
INTERMEDIATE	8.75"	5,369.77'	7"	23 LBS	J-55 or equiv	LTC
PRODUCTION	6.125"	5219.77' - 10,960.58'	4.5"	11.6 LBS	P-110 or equiv	LTC
TIE BACK	6.125"	Surf. - 5219.77'	4.5"	11.6 LBS	P-110 or equiv	LTC

B. FLOAT EQUIPMENT:

1. SURFACE CASING:

9-5/8" notched regular pattern guide shoe. Run (1) standard centralizer on each of the bottom (4) joints of Surface Casing.

2. INTERMEDIATE CASING:

7" cement nose guide shoe with a self-fill insert float. Place float collar one joint above the shoe. Install (1) centralizer on each of the bottom (3) joints and one standard centralizer every (3) joints to 2,500 ft. Run (1) centralizer at 2,500 ft., 2,300ft., 2,000ft., 1,500 ft., and 1,000 ft. If losses are encountered during the drilling of the intermediate section a DV tool will be utilized and a 2 stage cement job may be planned to ensure cement circ back to surface. The DV tool will be placed 100' above the top of the Chacra formation. If cement is circulated back to surface on the first stage, a cancellation device will be dropped to shift the dv tool closed and the 2nd stage cement job will be aborted at that time, if no cement is seen at surface on the 1st stage the stage tool will be opened and a 2nd stage cement job will be pumped.

3. PRODUCTION LINER:

Run 4-1/2" Liner with cement nose guide Float Shoe + 2jts. of 4-1/2" casing + Landing Collar + 4-1/2" pup joint + 1 RSI (Sliding Sleeve) positioned inside the 330ft Hard line. Centralizer program will be determined by Wellbore condition and when Lateral is evaluated by Geoscientists and Reservoir Engineers. Set seals on Liner Hanger. Test TOL to 1500 psi for 15 minutes.

C. CEMENT:

(Note: Volumes may be adjusted onsite due to actual conditions)

1. Surface:

5 bbl Fresh Water Spacer, 100 sx (160 cu.ft.) of 14.5 ppg Type I-II (Neat G) + 20% Fly Ash cement w/ 7.41 gal/sack mix water ratio @ 1.61 cu ft/sx yield. Calculated @ volume + 50% excess. WOC 12 hours. Test csg to 600psi. Total Volume: (160 cu-ft/100 sx/ Bbls).TOC at Surface.

2. Intermediate:

Spacer #1: 20 bbl (112 cuft) Chemwash. Lead Cement: 99 bbls, 283 sks, (557 cuft), 12.3 ppg @ 1.97 cuft/sk yield. Tail Cement: 59 bbls, 254 sks, (331 cuft), 13.5 ppg @ 1.3 cuft/sk yield. Displacement: Displace w/ +/- 211 bbl Drilling mud or water. Total Cement: 158 bbls, 537 sks, (888 cuft)

3. Prod Liner:

Spacer #1: 10 bbl (56 cu-ft) Water Spacer. Spacer #2: 40 bbl 9.5 ppg (224.6 cu-ft) Toned Spacer III. Spacer #3: 10 bbl Water Spacer. Lead Cement: Extencem™ System. Yield 1.36 cuft/sk 13.3 ppg (562 sx /765 cuft /136 bbls). Tail Spacer: 20 BBL of MMCR. Displacement: Displace w/ +/-143bbl Fr Water. Total Cement (562 sx /765bbls).

D. COMPLETION:

Run CCL for perforating

A. PRESSURE TEST:

1. Pressure test 4-1/2" casing to 4500 psi max, hold at 1500 psi for 30 minutes. Increase pressure to Open RSI sleeves.

B. STIMULATION:

1. Stimulate with approximately 2,805,000# 20/40 mesh sand and 340,000# 16/30 mesh sand in 619,113 gallons water with 42,696 mscf N2 for 17 stages.
2. Isolate stages with flow through frac plug.
3. Drill out frac plugs and flowback lateral.

C. RUNNING TUBING:

1. Production Tubing: Run 2-7/8", 6.5#, J-55, EUE tubing with a SN on top of bottom joint. Land tubing near Top of Liner.

If this horizontal well is drilled past the applicable setbacks, an unorthodox location application is not required because the completed interval in this well, as defined by 19.15.16.7 B(1) NMAC, will be entirely within the applicable setbacks. This approach complies with all applicable rules, including 19.15.16.14 A(3) NMAC, 19.15.16.14 B(2) NMAC, 19.15.16.15 B(2) NMAC, and 19.15.16.15. B(4) NMAC.

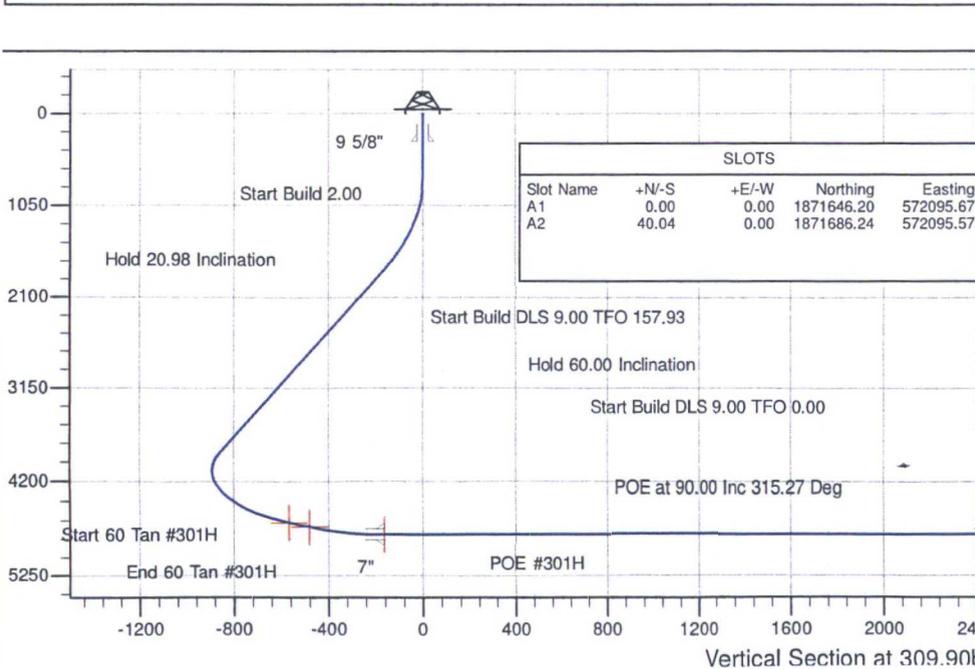
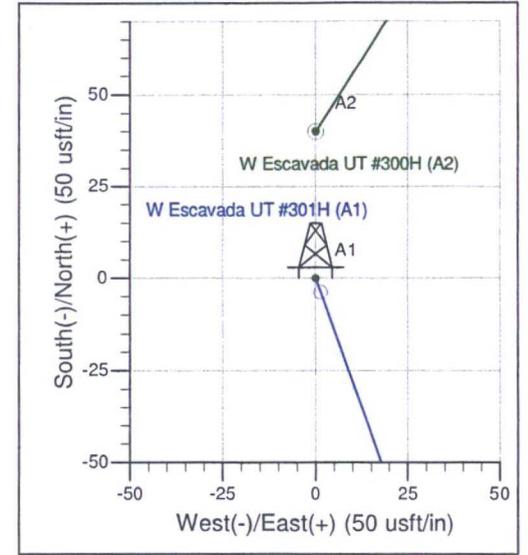
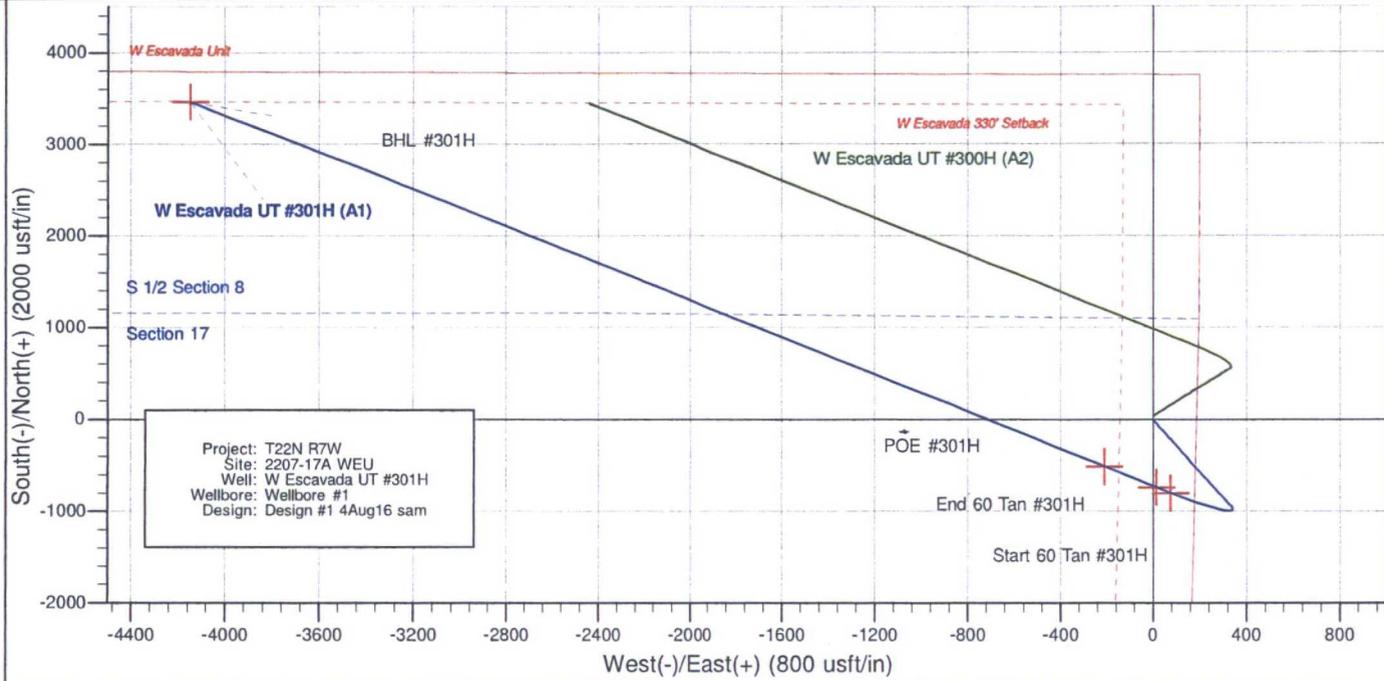
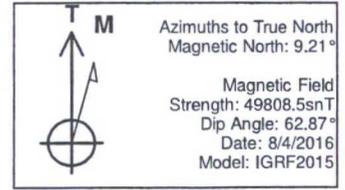
NOTES:

A 4-1/2" 11.6# P-110 Liner will be run to TD and landed +/- 150 ft. into the 7" 23# J-55 Intermediate casing with a Liner Hanger and pack-off assembly then cemented to top of liner hanger.

After cementing and TOL clean up operations are complete, the TOL will be tested to 1500 psi (per BLM).



Well Name: W Escavada UT #301H
 Surface Location: 2207-17A WEU
 NAD 1927 (NADCON CONUS) , US State Plane 1927 (Exact solution) New Mexico West 3003
 Ground Elevation: 6804.00
 +N/-S 0.00 +E/-W 0.00 Northing 1871646.20 Easting 572095.67 Latitude 36.143722 Longitude -107.589154 Slot A1
 GL @ 6804.00usft (Original Well Elev)



DESIGN TARGET DETAILS									
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape	
Start 60 Tan #301H	4638.71	-794.32	74.91	1870852.07	572172.58	36.141540	-107.588900	Point	
End 60 Tan #301H	- plan hits target center								
	4688.71	-732.99	13.96	1870913.25	572111.47	36.141708	-107.589107	Point	
	- plan misses target center by 0.15usft at 5036.31usft MD (4688.65 TVD, -732.87 N, 14.03 E)								
POE #301H	4774.00	-506.66	-210.06	1871139.01	571886.88	36.142330	-107.589865	Point	
	- plan hits target center								
BHL #301H	4774.00	3465.11	-4144.80	1875100.88	567942.17	36.153240	-107.603194	Point	
	- plan hits target center								

SLOTS				
Slot Name	+N/-S	+E/-W	Northing	Easting
A1	0.00	0.00	1871646.20	572095.67
A2	40.04	0.00	1871686.24	572095.57

ANNOTATIONS									
TVD	MD	Inc	Azi	+N/-S	+E/-W	V Sect	Departure	Annotation	
750.00	750.00	0.00	0.00	0.00	0.00	0.00	0.00	Start Build 2.00	
1775.82	1799.12	20.98	160.50	-179.06	63.43	-163.51	189.96	Hold 20.98 Inclination	
3882.81	4055.74	20.98	160.50	-940.74	333.22	-859.04	998.01	Start Build DLS 9.00 TFO 157.93	
4638.71	4936.43	60.00	315.27	-794.32	74.91	-566.95	1379.35	Hold 60.00 Inclination	
4688.71	5036.43	60.00	315.27	-732.80	13.96	-480.72	1465.95	Start Build DLS 9.00 TFO 0.00	
4753.10	5206.20	75.28	315.27	-621.59	-96.21	-324.87	1622.49	Start DLS 9.00 TFO 0.00	
4774.00	5369.76	90.00	315.27	-506.66	-210.06	-163.81	1784.27	POE at 90.00 Inc 315.27 Deg	
4774.00	10960.57	90.00	315.27	3465.11	-4144.80	5402.44	7375.08	TD at 10960.57	

WPX Energy

T22N R7W

2207-17A WEU

W Escavada UT #301H - Slot A1

Wellbore #1

Plan: Design #1 4Aug16 sam

Standard Planning Report

04 August, 2016

WPX Planning Report

Database:	COMPASS	Local Co-ordinate Reference:	Well W Escavada UT #301H (A1) - Slot A1
Company:	WPX Energy	TVD Reference:	GL @ 6804.00usft (Original Well Elev)
Project:	T22N R7W	MD Reference:	GL @ 6804.00usft (Original Well Elev)
Site:	2207-17A WEU	North Reference:	True
Well:	W Escavada UT #301H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 4Aug16 sam		

Project T22N R7W			
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico West 3003		

Site 2207-17A WEU			
Site Position:		Northing:	1,871,686.24 usft
From:	Map	Easting:	572,095.57 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in
		Latitude:	36.143832
		Longitude:	-107.589154
		Grid Convergence:	0.14 °

Well W Escavada UT #301H - Slot A1						
Well Position	+N/-S	-40.04 usft	Northing:	1,871,646.20 usft	Latitude:	36.143722
	+E/-W	0.00 usft	Easting:	572,095.67 usft	Longitude:	-107.589154
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	6,804.00 usft

Wellbore Wellbore #1					
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF2015	8/4/2016	(°) 9.21	(°) 62.87	(nT) 49,808

Design Design #1 4Aug16 sam					
Audit Notes:					
Version:		Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(bearing)	
	0.00	0.00	0.00	309.90	

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
750.00	0.00	0.00	750.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,799.12	20.98	160.50	1,775.82	-179.06	63.43	2.00	2.00	0.00	160.50	
4,055.74	20.98	160.50	3,882.81	-940.74	333.22	0.00	0.00	0.00	0.00	
4,936.43	60.00	315.27	4,638.71	-794.32	74.91	9.00	4.43	17.57	157.93	Start 60 Tan #301H
5,036.43	60.00	315.27	4,688.71	-732.80	13.96	0.00	0.00	0.00	0.00	End 60 Tan #301H
5,206.20	75.28	315.27	4,753.10	-621.59	-96.21	9.00	9.00	0.00	0.00	
5,369.77	90.00	315.27	4,774.00	-506.66	-210.06	9.00	9.00	0.00	0.00	POE #301H
10,960.58	90.00	315.27	4,774.00	3,465.11	-4,144.80	0.00	0.00	0.00	0.00	BHL #301H

WPX
Planning Report

Database:	COMPASS	Local Co-ordinate Reference:	Well W Escavada UT #301H (A1) - Slot A1
Company:	WPX Energy	TVD Reference:	GL @ 6804.00usft (Original Well Elev)
Project:	T22N R7W	MD Reference:	GL @ 6804.00usft (Original Well Elev)
Site:	2207-17A WEU	North Reference:	True
Well:	W Escavada UT #301H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 4Aug16 sam		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
320.00	0.00	0.00	320.00	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8"									
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
750.00	0.00	0.00	750.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
1,000.00	5.00	160.50	999.68	-10.28	3.64	-9.38	2.00	2.00	0.00
1,500.00	15.00	160.50	1,491.46	-92.01	32.59	-84.02	2.00	2.00	0.00
1,799.12	20.98	160.50	1,775.82	-179.06	63.43	-163.51	2.00	2.00	0.00
Hold 20.98 Inclination									
2,000.00	20.98	160.50	1,963.39	-246.86	87.44	-225.43	0.00	0.00	0.00
2,500.00	20.98	160.50	2,430.23	-415.63	147.22	-379.53	0.00	0.00	0.00
3,000.00	20.98	160.50	2,897.08	-584.40	207.00	-533.64	0.00	0.00	0.00
3,500.00	20.98	160.50	3,363.92	-753.16	266.78	-687.75	0.00	0.00	0.00
4,000.00	20.98	160.50	3,830.77	-921.93	326.56	-841.86	0.00	0.00	0.00
4,055.74	20.98	160.50	3,882.81	-940.74	333.22	-859.04	0.00	0.00	0.00
Start Build DLS 9.00 TFO 157.93									
4,500.00	21.77	299.90	4,314.14	-976.09	286.43	-845.82	9.00	0.18	31.38
4,936.43	60.00	315.27	4,638.71	-794.32	74.91	-566.95	9.00	8.76	3.52
Hold 60.00 Inclination									
5,000.00	60.00	315.27	4,670.50	-755.21	36.16	-512.13	0.00	0.00	0.00
5,036.43	60.00	315.27	4,688.71	-732.80	13.96	-480.72	0.00	0.00	0.00
Start Build DLS 9.00 TFO 0.00 †									
5,206.20	75.28	315.27	4,753.10	-621.59	-96.21	-324.87	9.00	9.00	0.00
Start DLS 9.00 TFO 0.00									
5,369.77	90.00	315.27	4,774.00	-506.66	-210.06	-163.81	9.00	9.00	0.00
POE at 90.00 Inc 315.27 Deg									
5,370.00	90.00	315.27	4,774.00	-506.49	-210.23	-163.58	0.00	0.00	0.00
7"									
5,500.00	90.00	315.27	4,774.00	-414.14	-301.72	-34.15	0.00	0.00	0.00
6,000.00	90.00	315.27	4,774.00	-58.93	-653.61	463.66	0.00	0.00	0.00
6,500.00	90.00	315.27	4,774.00	296.27	-1,005.51	961.46	0.00	0.00	0.00
7,000.00	90.00	315.27	4,774.00	651.48	-1,357.40	1,459.26	0.00	0.00	0.00
7,500.00	90.00	315.27	4,774.00	1,006.68	-1,709.29	1,957.07	0.00	0.00	0.00
8,000.00	90.00	315.27	4,774.00	1,361.89	-2,061.19	2,454.87	0.00	0.00	0.00
8,500.00	90.00	315.27	4,774.00	1,717.09	-2,413.08	2,952.68	0.00	0.00	0.00
9,000.00	90.00	315.27	4,774.00	2,072.30	-2,764.97	3,450.48	0.00	0.00	0.00
9,500.00	90.00	315.27	4,774.00	2,427.50	-3,116.87	3,948.28	0.00	0.00	0.00
10,000.00	90.00	315.27	4,774.00	2,782.71	-3,468.76	4,446.09	0.00	0.00	0.00
10,500.00	90.00	315.27	4,774.00	3,137.91	-3,820.66	4,943.89	0.00	0.00	0.00
10,960.58	90.00	315.27	4,774.00	3,465.11	-4,144.80	5,402.44	0.00	0.00	0.00
TD at 10960.57									

WPX Planning Report

Database:	COMPASS	Local Co-ordinate Reference:	Well W Escavada UT #301H (A1) - Slot A1
Company:	WPX Energy	TVD Reference:	GL @ 6804.00usft (Original Well Elev)
Project:	T22N R7W	MD Reference:	GL @ 6804.00usft (Original Well Elev)
Site:	2207-17A WEU	North Reference:	True
Well:	W Escavada UT #301H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 4Aug16 sam		

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (bearing)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Start 60 Tan #301H - plan hits target center - Point	0.00	0.00	4,638.71	-794.32	74.91	1,870,852.07	572,172.58	36.141540	-107.588901
End 60 Tan #301H - plan misses target center by 0.15usft at 5036.31usft MD (4688.65 TVD, -732.87 N, 14.03 E) - Point	0.00	0.00	4,688.71	-732.99	13.96	1,870,913.25	572,111.48	36.141708	-107.589107
BHL #301H - plan hits target center - Point	0.00	0.00	4,774.00	3,465.11	-4,144.80	1,875,100.88	567,942.17	36.153241	-107.603194
POE #301H - plan hits target center - Point	0.00	0.00	4,774.00	-506.66	-210.06	1,871,139.02	571,886.89	36.142330	-107.589866

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)
320.00	320.00	9 5/8"	9.625	12.250
5,370.00	4,774.00	7"	7.000	8.750

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
750.00	750.00	0.00	0.00	Start Build 2.00
1,799.12	1,775.82	-179.06	63.43	Hold 20.98 Inclination
4,055.74	3,882.81	-940.74	333.22	Start Build DLS 9.00 TFO 157.93
4,936.43	4,638.71	-794.32	74.91	Hold 60.00 Inclination
5,036.43	4,688.71	-732.80	13.96	Start Build DLS 9.00 TFO 0.00
5,206.20	4,753.10	-621.59	-96.21	Start DLS 9.00 TFO 0.00
5,369.77	4,774.00	-506.66	-210.06	POE at 90.00 Inc 315.27 Deg
10,960.58	4,774.00	3,465.11	-4,144.80	TD at 10960.57

Construction and maintenance activities would cease if soil or road surfaces become saturated to the extent that construction equipment is unable to stay within the project area and/or when activities cause irreparable harm to roads, soils, or streams. Surfacing material, such as sandstone, would be used if economically viable and would be obtained from a permitted location.

The Natural Resources Conservation Service (NRCS) has mapped the soils in the proposed W Escavada UT 300H/301H Project area. Complete soil information is available in the NRCS's *Soil Survey of Sandoval County, New Mexico, Eastern Part* (USDA/NRCS 2015). The soil map units within the proposed project area footprint are described in the section below.

A. Blancot – Councilor- Tsosie association, gently sloping

- 1 Within the project area, this soil map unit is found throughout the entirety of the project. As such, excavated soils during construction of the well pad, access road, and well-connect pipelines would consist of native borrow and subsoils from the Blancot-Councilor-Tsosie association, gently sloping soil map unit. A brief description of this soil can be found below.
- 2 The Blancot-Councilor-Tsosie soil association is composed of 40 percent Blancot and similar soils, 30 percent Councilor and similar soils, 25 percent Tsosie and similar soils, and 5 percent of minor components. This soil map unit is considered a well-drained soil, with the depth to water table and depth to restrictive layer being more than 80 inches. This soil association has a moderate to high potential for water erosion and low to moderate potential for wind erosion. The Blancot-Councilor-Tsosie association is typically found ranging in elevation from 6,600 to 7,000 feet in elevation, along valley sides, ridges, fan remnants, stream terraces, valley floors and alluvial fans (0- to 5-percent slopes) and within loamy, sandy and salt flat ecological sites (USDA/NRCS 2015).

7. METHODS FOR HANDLING WASTE

✓ A. Cuttings

- 1 Drilling operations will utilize a closed-loop system. Drilling of the horizontal laterals will be accomplished with water-based mud. All cuttings will be placed in roll-off bins and hauled to a commercial disposal facility or land farm. WPX will follow Onshore Oil and Gas Order No. 1 regarding the placement, operation, and removal of closed-loop systems. No blow pit will be used.
- 2 Closed-loop tanks will be adequately sized for containment of all fluids.

B. Drilling Fluids

- 1 Drilling fluids will be stored onsite in above-ground storage tanks. Upon termination of drilling operations, the drilling fluids will be recycled and transferred to other permitted closed-loop systems or returned to the vendor for reuse, as practical. All residual fluids will be hauled to a commercial disposal facility.

C. Spills

- 1 Any spills of non-freshwater fluids will be immediately cleaned up and removed to an approved disposal site.

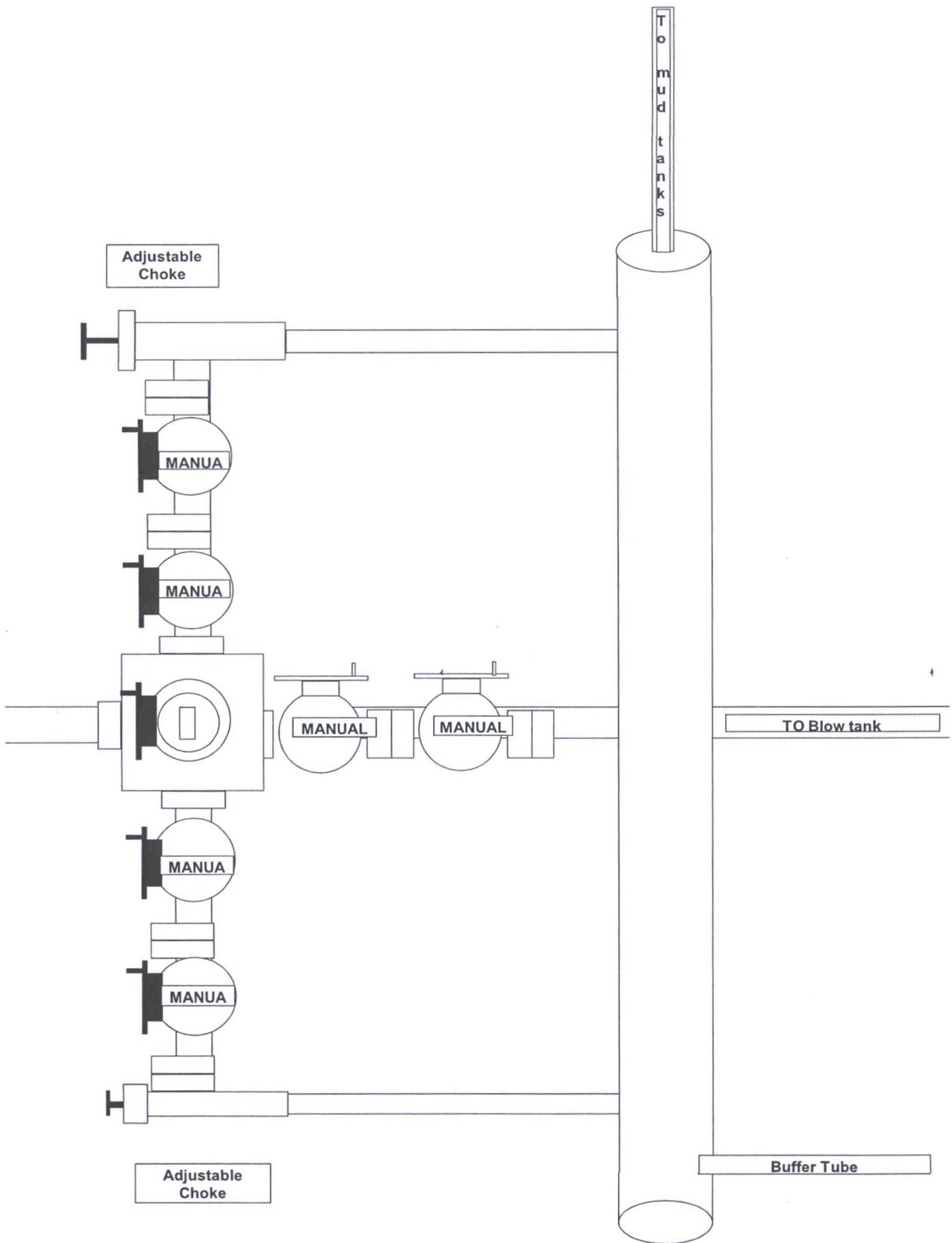
D. Sewage

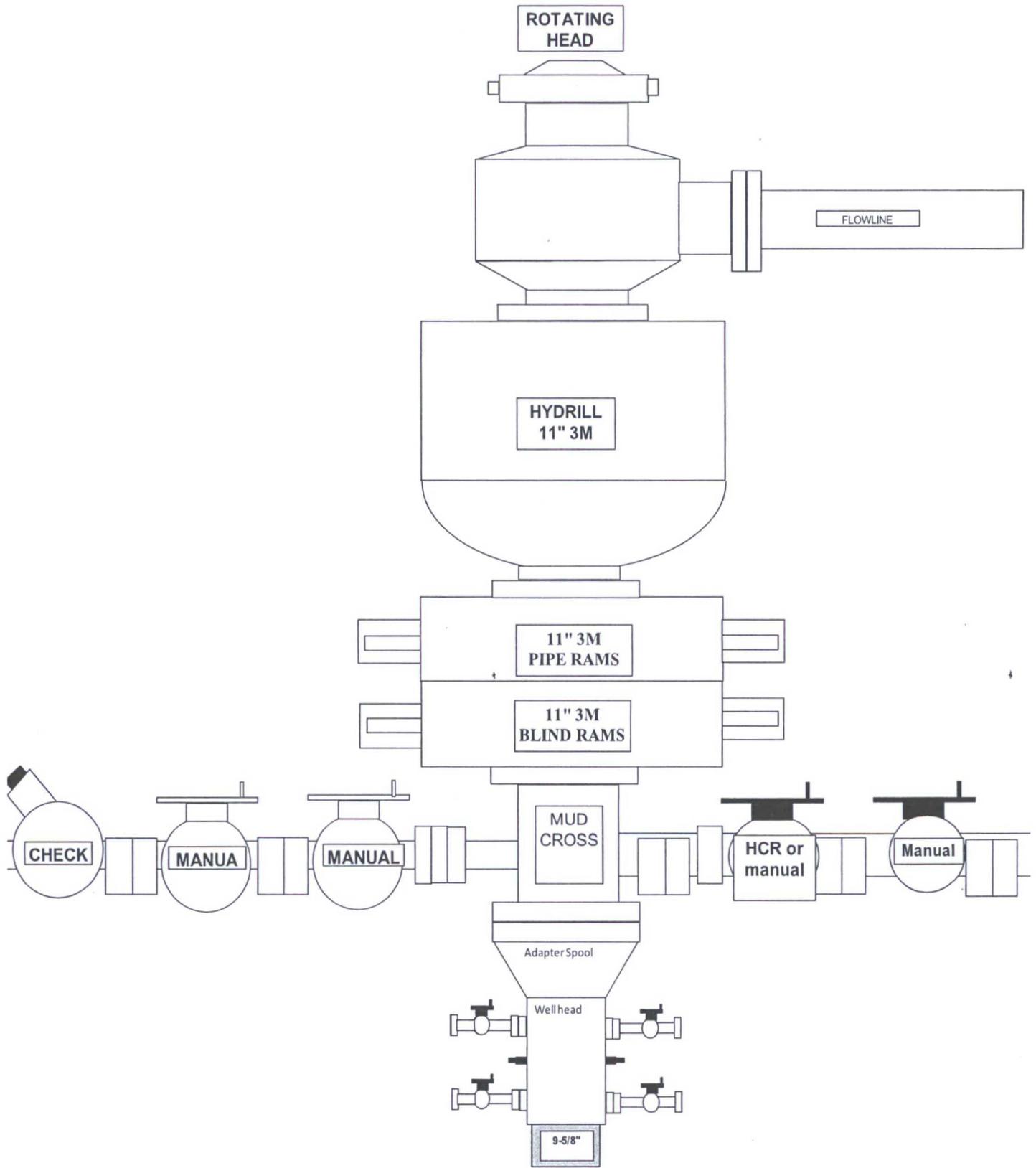
- 1 Portable toilets will be provided and maintained during construction, as needed (see Figures 2 & 3 in Appendix B for the location of toilets).

E. Garbage and other waste material

- 1 All garbage and trash will be placed in a metal trash basket. The trash and garbage will be hauled off site and dumped in an approved landfill, as needed.

F. Hazardous Waste





Directions from the Intersection of US Hwy 550 & US Hwy 64

in Bloomfield, NM to WPX Energy Production, LLC W Escavada Unit #301H

1101' FNL & 187' FEL, Section 17, T22N, R7W, N.M.P.M., Sandoval County, NM

Latitude: 36.143737°N Longitude: 107.589762°W Datum: NAD1983

From the intersection of US Hwy 550 & US Hwy 64 in Bloomfield, NM, travel Southerly on US Hwy 550 for 53.6 miles to Mile Marker 97.7;

Go Right (Southerly) on Indian Service Route #474 for 4.9 miles to fork in roadway;

Go Right (Westerly) exiting Indian Service Route #474 for 2.5 miles to fork in roadway;

Go Right (Westerly) which is straight for 0.3 miles to fork in roadway;

Go Right (Westerly) which is straight for 1.0 miles to 4-way intersection;

Go Straight (Westerly) for 1.2 miles to 4-way intersection;

Go Left (Southerly) for 1.7 miles to 4-way intersection;

Go Right (Westerly) for 1.9 miles to beginning of WPX N Escavada Unit #317H proposed access on left-hand side of existing roadway;

Go Left (South-westerly) which is straight for 2696.7' to staked WPX W Escavada Unit #301H location.