State of New Mexico Energy, Minerals and Natural Resources Department

Susana Martinez Governor

Ken McQueen **Cabinet Secretary**

Matthias Saver Deputy Cabinet Secretary David R. Catanach, Division Director **Oll 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: Well information: avada Unit 303H Well Name and Number Operator EW 7, Township 22 (N/S, Range) API# 20-1 306, Section \

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 0 to be shut in or abandoned
- Regarding the use of a pit, closed loop system or below grade tank, the operator must comply 0 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 0 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 0

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.

NMOCD Approved by Signature 1220 South St. Francis Drive - Santa Fe, New Mexico or 500

Date

rit app h. 2.0 Phone (505) 476-3441 • Fax (505) 476-3462 • www.emnrd.state.nm.us/ocd

OIL CONS. DIV DIST. 3

Form 3160 -3 (March 2012)	9	AUG 1 0 2	2017	OMB N	APPROVED o. 1004-0137 ctober 31, 2014
UNITED STATES DEPARTMENT OF THE	INTERIO			5. Lease Serial No. NOG13121807	
BUREAU OF LAND MAN				6. If Indian, Allotee	or Tribe Name
APPLICATION FOR PERMIT TO	DRILL	JR REENTER		EASTERN NAVAJO	Contraction of the second s
la. Type of work:	ER			7. If Unit or CA Agree NMNM135218X	
lb. Type of Well: 🔽 Oil Well 🔲 Gas Well 🛄 Other		Single Zone 🖌 Multip	ole Zone	8. Lease Name and W WESCAVADA UN	
2. Name of Operator WPX ENERGY LLC				9. API Well No.	3-21306
3a. Address 720 S Main Aztec NM 87410	3b. Phone (505)333	No. (include area code) 3-1822		10. Field and Pool, or H BASIN MANCOS /	Exploratory ESCAVADA MANCO:
4. Location of Well (Report location clearly and in accordance with a	•			11. Sec., T. R. M. or B	lk. and Survey or Area
At surface SESE / 235 FSL / 228 FEL / LAT 36.13277 / At proposed prod. zone NWSE / 2303 FSL / 2487 FEL / LA		and the second second	240	SEC 17 / T22N / R	7W / NMP
14. Distance in miles and direction from nearest town or post office* 53.9 miles	41 30.1332	2537 LONG-107.615	249	12. County or Parish SANDOVAL	13. State NM
 Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 	16. No. o 160	f acres in lease	17. Spacin 440	g Unit dedicated to this v	vell
 Distance from proposed location* to nearest well, drilling, completed, 228 feet applied for, on this lease, ft. 		osed Depth et / 15632 feet		BIA Bond No. on file TB000178 / IND: B00	01576
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6878 feet	22. Appr 06/01/2	oximate date work will stat	rt*	23. Estimated duration 30 days	n
	NUMPERION.	tachments			
The following, completed in accordance with the requirements of Onshe	ore Oil and O	as Order No.1, must be a	ttached to th	is form:	
 Well plat certified by a registered surveyor. A Drilling Plan. 		4. Bond to cover the Item 20 above).	he operatio	ns unless covered by an	existing bond on file (see
 A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office). 	n Lands, the	 Operator certific Such other site BLM. 		ormation and/or plans as	may be required by the
25. Signature		me (Printed/Typed) cey Granillo / Ph: (505	5)222 101	6	Date 04/17/2017
(Electronic Submission) Title	La		5)555-161	0	04/17/2017
Permitting Tech III Approved by (Signature)	Na	me (Printed/Typed)			Date A
Title	Off	īce			7/3///7
At M		RMINGTON			
Application approval does not warrant or certify that the applicant hol conduct operations thereon. Conditions of approval, if any, are attached.	lds legal or e	quitable title to those righ	its in the sub	oject lease which would e	ntitle the applicant to
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a States any false, fictitious or fraudulent statements or representations as	crime for an s to any matte	y person knowingly and ver within its jurisdiction.	willfully to n	nake to any department o	or agency of the United
(Continued on page 2)				*(Inst	ructions on page 2)

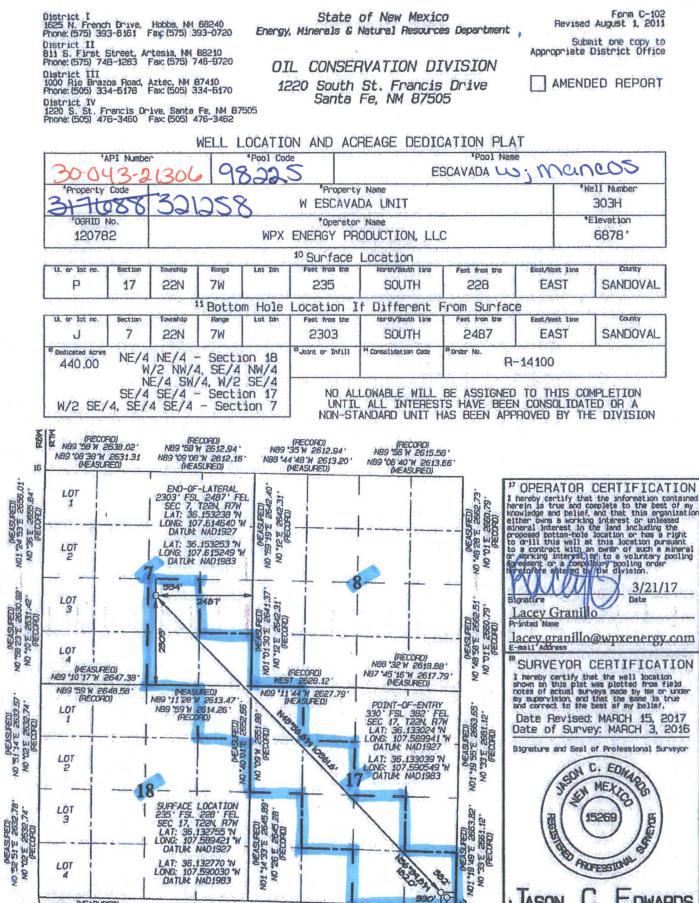
This action is subject to technical and procedural review pursuant to 43 CFR 3185.3 and appeal pursuant to 43 CFR 3165.4

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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"

NMOCDAY



(MEASURED) NBB '09 '38 'W 2605.06' NBB '08 '39 'W 2605.44' NBB '36 'W 2606.67' NBB '56 W 2606.67' (RECORD) (RECORD)

DWARDS ASON Certificate Number 15269

Dlanket Sundery for of

22810-Endu hange piil 2048 2 Q 20

(MEASURED) NBB *48 '13 'N 2507,05 ' NB9 *39 W 2607,66 ' (RECORD)

(MEASURED) NBB '51 '28 'W 2645,82' NBB '39 W 2647,25' (RECORD)

MER



WPX Energy

Operations Plan

(Note: This procedure will be adjusted onsite based upon actual conditions)

Date:	April 17, 2017	Field:	Lybrook Gallup
Well Name:	W Escavada UT #303H	Surface:	
SH Location:	SESE Sec 17 22N-07W	Elevation:	6878' GR
BH Location:	NWSE Sec 7 22N-07W	Minerals:	

Measured Depth: 15,632.36'

I. GEOLOGY

Surface formation - NACIMIENTO

A. FORMATION TOPS: (GR)

NAME	MD	TVD	NAME	MD	TVD
OJO ALAMO	634.00	634.00	POINT LOOKOUT	3,608.00	3,559.00
KIRTLAND	812.00	812.00	MANCOS	3,768.00	3,715.00
PICTURED CLIFFS	1,171.00	1,171.00	GALLUP	4,116.00	4,056.00
LEWIS	1,254.00	1,254.00	KICKOFF POINT	4,049.14	3,998.78
CHACRA	1,553.00	1,550.00	TOP TARGET	5,058.00	4,760.00
CLIFF HOUSE	2,680.00	2,652.00	LANDING POINT	5,272.55	4,808.00
MENEFEE	2,720.00	2,691.00	BASE TARGET	5,272.55	4,808.00
			TD	15,632.36	4,808.00

B. MUD LOGGING PROGRAM:

Mudlogger on location from surface csg to TD.

C. LOGGING PROGRAM:

LWD GR from surface casing to TD.

D. NATURAL GAUGES:

Gauge any noticeable increases in gas flow. Record all gauges in Tour book and on morning reports.

II. DRILLING

A. MUD PROGRAM:

LSND mud (WBM) will be used to drill the 12-1/4" Surface hole, the 8 ¾" Directional Vertical hole, and the curve portion of the wellbore. A LSND (WBM) or (OBM) will be used to drill the lateral portion of well. Treat for lost circulation as necessary. Obtain 100% returns prior to cementing. Notify Engineering of any mud losses.

B. BOP TESTING:

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"	5,272.55'	7"	23 LBS	J-55 or equiv	LTC
PRODUCTION	6.125"	5122.55' - 15,632.36'	4.5"	11.6 LBS	P-110 or equiv	LTC
TIE BACK	6.125"	Surf 5122.55'	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 utalized 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 cancelation 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 opend 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 cuft/100 sx/ Bbls).TOC at Surface.

2. Intermediate:

Spacer #1: 20 bbl (112 cuft) Chemwash. Lead Cement: 96 bbls, 275 sks, (541 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/ +/- 208 bbl Drilling mud or water. Total Cement: 155 bbls, 529 sks, (872 cuft)

3. Prod Liner:

Spacer #1:10 bbl (56.cu-ft) Water Spacer. Spacer #2: 40 bbl 9.5 ppg (224.6 cu-ft) Tuned Spacer III. Spacer #3: 10 bbl Water Spacer. Lead Cement: Extencem [™] System. Yield 1.36 cuft/sk 13.3 ppg (1030 sx /1401 cuft /249 bbls). Tail Spacer: 20 BBL of MMCR. Displacement: Displace w/ +/-216bbl Fr Water. Total Cement (1030 sx /1401bbls).

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

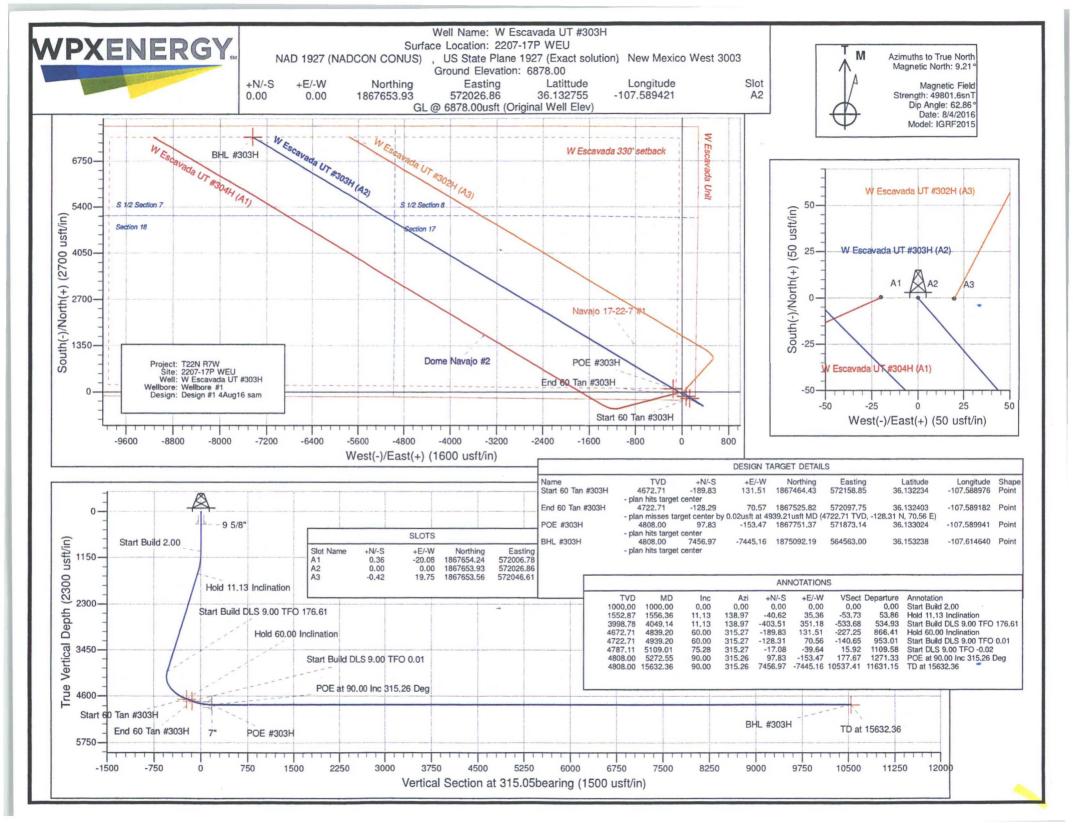
1

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).



WPX Energy

T22N R7W 2207-17P WEU W Escavada UT #303H - Slot A2

Wellbore #1

Plan: Design #1 4Aug16 sam

Standard Planning Report

04 August, 2016



Planning Report

1

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Database: Company: Project: Site: Vell: Vellbore: Design:	T22N 2207- W Esc Wellbo	Energy R7W 17P WEU avada UT #303			TVD Refer MD Refere North Refe	ence:		Nell W Escavada GL @ 6878.00us GL @ 6878.00us Frue Minimum Curvatu	ft (Original W ft (Original W	/ell Elev)
Project	T22N F	R7W								
Map System: Geo Datum: Map Zone:	NAD 192	e Plane 1927 (E 27 (NADCON C xico West 3003	ONUS)		System Dat	tum:	Me	an Sea Level		
Site	2207-1	7P WEU								
Site Position: From: Position Uncert	Maj ainty:		Northi Eastin 0 usft Slot R	g:	and the second se	,653.56 usft ,046.61 usft 13.200 in	Latitude: Longitude: Grid Converg	ence:		36.13275 -107.58935 0.14
Well	W Esca	vada UT #303	H - Slot A2				a generation of the second			
Well Position	+N/-S +E/-W			rthing: sting:		1,867,653.93 572,026.86		tude: gitude:		36.13275 -107.58942
Position Uncert	ainty	0.0	144 13-10			0.00	usft Gro	und Level:		6,878.00 us
Wellbore Magnetics	Wellbo		00 usft We Sample	ellhead Elevatio	Declina	ition	Dip A	ngle		Strength
Magnetics Design	Wellbo	ore #1	Sample			ition		ngle		Strength nT) 49,802
Magnetics Design Audit Notes:	Wellbo	ore #1 odel Name IGRF2015	Sample	a Date 8/4/2016	Declina	ation 9.21	Dip A	ngle) 62.86		(nT)
	- Wellbo Mo Design	ore #1 IGRF2015 #1 4Aug16 sa	Sample	• Date 8/4/2016 •: PL	Declina (*)	stion 9.21 Tie +E (u	Dip A (°	ingle) 62.86 , , Dire (bes		(nT)
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WPX

Planning Report

Database:	COMPASS	Local Co-ordinate Reference:	Well W Escavada UT #303H (A2) - Slot A2
Company:	WPX Energy	TVD Reference:	GL @ 6878.00usft (Original Well Elev)
Project:	T22N R7W	MD Reference:	GL @ 6878.00usft (Original Well Elev)
Site:	2207-17P WEU	North Reference:	True
Well:	W Escavada UT #303H	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"	ESTAN BURN		-19796-114 (As)					Margaret Sharet	19062-PSC ha
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
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1,500.00	10.00	138.97	1,497.47	-32.83	28.57	-43.42	2.00	2.00	0.00
1,556.36	11.13	138.97	1,552.87	-40.62	35.36	-53.73	2.00	2.00	0.00
Hold 11.13 li	nclination		1000						
2,000.00	11.13	138.97	1,988.17	-105.21	91.56	-139.15	0.00	0.00	0.00
2,500.00	11.13	138.97	2,478.77	-178.00	154.91	-235.41	0.00	0.00	0.00
3,000.00	11.13	138.97	2,969.37	-250.78	218,26	-331.68	0.00	0.00	0.00
3,500.00	11.13	138.97	3,459.97	-323.57	281.61	-427.95	0.00	0.00	0.00
4,000.00	11.13	138.97	3,950.57	-396.36	344.96	-524.22	0.00	0.00	0.00
4,049.14	11.13	138.97	3,998.78	-403.51	351.18	-533.68	0.00	0.00	0.00
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4,500.00	29.48	314.49	4,434.60	-356.62	298.39	-463.19	9.00	4.07	38.93
4,839.20	60.00	315.27	4,672.71	-189.83	131.51	-227.25	9.00	9.00	0.23
Hold 60.00 I			NUCLAR AV			19 19 1 19 1 1 1 1 1 1 1 1 1 1 1 1 1 1	STATES A		
4,939.20	60.00	315.27	4,722.71	-128.31	70.56	-140.65	0.00	0.00	0.00
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5,000.00		315.27	4,750.55	-89.93	32.54	-86,63	9.00	9.00	0.00
5,109.01	75.28	315.27	4,787.11	-17.08	-39.64	15.92	9.00	9.00	0.00
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5,273.00	90.00	315.26	4,808.00	98.15	-153.79	178.12	0.00	0.00	0.00
7"					and the second second		Louis Constants		
5,500.00	90.00	315.26	4,808.00	259.40	-313.57	405.12	0.00	0.00	0.00
6,000.00	90.00	315.26	4,808.00	614.58	-665.49	905.11	0.00	0.00	0.00
6,500.00	90.00	315.26	4,808.00	969.75	-1,017.41	1,405.11	0.00	0.00	0.00
7,000.00	90.00	315.26	4,808.00	1,324.93	-1,369.33	1,905.11	0.00	0.00	0.00
7,500.00	90.00	315.26	4,808.00	1,680.11	-1,721.25	2,405.10	0.00	0.00	0.00
8,000.00	90.00	315.26	4,808.00	2,035.29	-2,073.18	2,905.10	0.00	0.00	0.00
8,500.00	90.00	315.26	4,808.00	2,390.46	-2,425.10	3,405.10	0.00	0.00	0.00
9,000.00	90.00	315.26	4,808.00	2,745.64	-2,777.02	3,905.09	0.00	0.00	0.00
9,500.00	90.00	315.26	4,808.00	3,100.82	-3,128.94	4,405.09	0.00	0.00	0.00
10,000.00	90.00	315.26	4,808.00	3,456.00	-3,480.86	4,905.08	0.00	0.00	0.00
10,500.00	90.00	315.26	4,808.00	3,811.17	-3,832.78	5,405.08	0.00	0.00	0.00
11,000.00	90.00	315.26	4,808.00	4,166.35	-4,184.71	5,905.08	0.00	0.00	0.00
11,500.00	90.00	315.26	4,808.00	4,521.53	-4,536.63	6,405.07	0.00	0.00	0.00
12,000.00	90.00	315.26	4,808.00	4,876.71	-4,888.55	6,905.07	0.00	0.00	0.00
12,500.00	90.00	315.26	4,808.00	5,231.88	-5,240.47	7,405.07	0.00	0.00	0.00
13,000.00	90.00	315.26	4,808.00	5,587.06	-5,592.39	7,905.06	0.00	0.00	0.00
13,500.00	90.00	315.26	4,808.00	5,942.24	-5,944.31	8,405.06	0.00	0.00	0.00
14,000.00	90.00	315.26	4,808.00	6,297.42	-6,296.24	8,905.06	0.00	0.00	0.00
14,500.00	90.00	315.26	4,808.00	6,652.59	-6,648.16	9,405.05	0.00	0.00	0.00
15,000.00	90.00	315.26	4,808.00	7,007.77	-7,000.08	9,905.05	0.00	0.00	0.00
15,500.00	90.00	315.26	4,808.00	7,362.95	-7,352.00	10,405.04	0.00	0.00	0.00
15,632.36	90.00 .36	315.26	4,808.00	7,456.97	-7,445.16	10,537.41	0.00	0.00	0.00

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COMPASS 5000.1 Build 78

WPX

Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	COMPASS WPX Energy T22N R7W 2207-17P WE W Escavada I Wellbore #1 Design #1 4A	JT #303H			TVD Refere MD Referen North Refer	ice:	GL @ 6878	avada UT #303H (A2) .00usft (Original Well .00usft (Original Well urvature	Elev)
Design Targets Target Name - hit/miss target - Shape	Dip Anglé (°)	Dip Dir. (bearing	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latifude	Longitude
Start 60 Tan #303H - plan hits target o - Point	0.00 center	0.00	4,672.71	-189.83	131.51	1,867,464.43	572,158.85	36.132234	-107.58897
End 60 Tan #303H - plan misses targ - Point	0.00 let center by 0.02	0.00 Susft at 4939	4,722.71 .21usft MD (-128.29 4722.71 TVD,	70.57 -128.31 N, 70	1,867,525.82 0.56 E)	572,097.75	36.132403	-107.58918
BHL #303H - plan hits target o - Point	0.00 center	0.00	4,808.00	7,456.97	-7,445.16	1,875,092.19	564,563.00	36.153238	-107.61464
POE #303H - plan hits target o - Point	0.00 center	0.00	4,808.00	97.83	-153.47	1,867,751.37	571,873.14	36.133024	-107.58994

Measured Depth	Vertical Depth		and the state	Casing Diameter	Hole Diameter
(usft)	(usft)		Name	(in)	(in)
320.00	320.00	9 5/8"	na y da substanta da la constante de la constan La constante de la constante de	9.625	12.250
5,273.00	4,808.00	7"		7.000	8.750

Measured	Vertical	Local Coor	dinates	
Depth (usft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
1,000.00	1,000.00	0.00	0.00	Start Build 2.00
1,556.36	1,552.87	-40.62	35.36	Hold 11.13 Inclination
4,049.14	3,998.78	-403.51	351.18	Start Build DLS 9.00 TFO 176.61
4,839.20	4,672.71	-189.83	131.51	Hold 60.00 Inclination
4,939.20	4,722.71	-128.31	70.56	Start Build DLS 9.00 TFO 0.01
5,109.01	4,787.11	-17.08	-39.64	Start DLS 9.00 TFO -0.02
5,272.55	4,808.00	97.83	-153.47	POE at 90.00 Inc 315.26 Deg
15,632,36	4.808.00	7,456,97	-7,445.16	TD at 15632.36

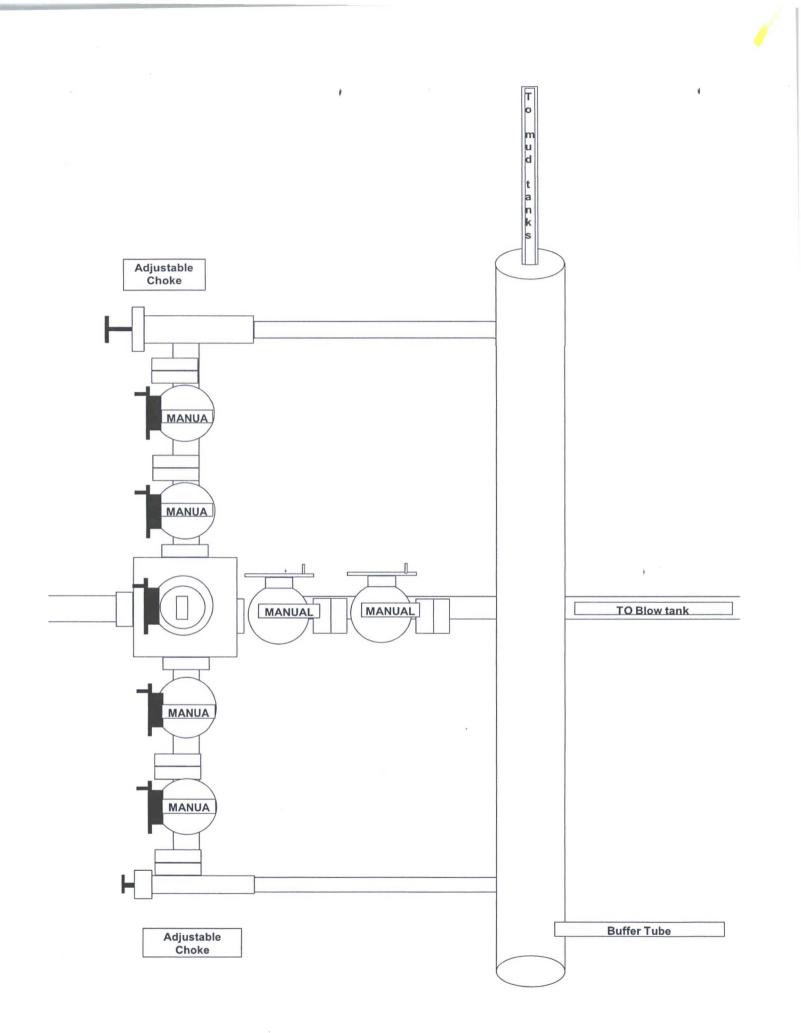
The Natural Resources Conservation Service (NRCS) has mapped the soils in the proposed W Escavada 302H/303H/304H Project area. Complete soil information is available in the NRCS's *Soil Survey of Sandoval County, New Mexico, Eastern Part* (USDA/NRCS 2015). The soil map units within the proposed project area footprint are described in the sections below.

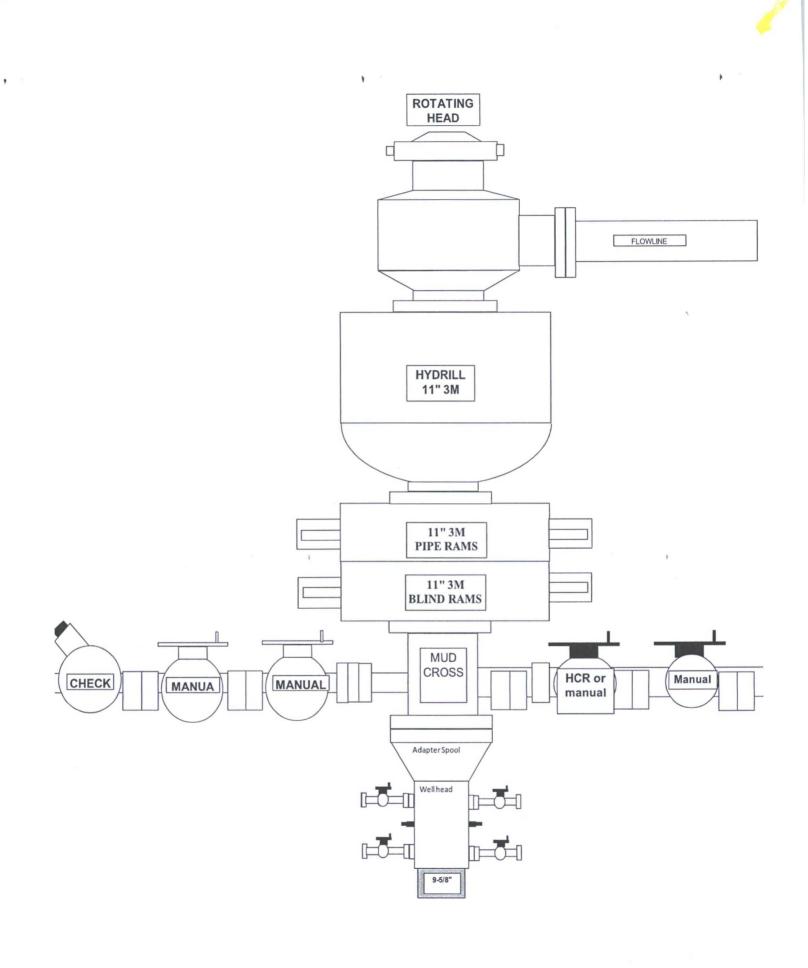
- A. Blancot Lybrook association, gently sloping
 - 1 Within the project area, this soil map unit is found across the well pad and a small area where the access and pipeline leave the well pad. As such, excavated soils during construction of the well pad, access road, and well-connect pipeline would consist of native borrow and subsoils from the Blancot –Lybrook association, gently sloping soil map unit. A brief description of this soil can be found below.
 - 2 The Blancot-Lybook soil association is composed of 55 percent Blancot and similar soils, 25 percent Lybrook and similar soils, and 20 percent of other 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-Lybrook association is typically found ranging in elevation from 6,600 to 7,000 feet in elevation along valley sides, valley floors, stream terraces and ridges (0- to 8-percent slopes) and within loamy and salt flat ecological sites (USDA/NRCS 2015).
- B. Blancot Councelor- Tsosie association, gently sloping
 - 1 Within the project area, this soil map unit is found throughout the majority of the access road and well-connect pipeline. As such, excavated soils during construction of the access road and wellconnect pipelines would consist of native borrow and subsoils from the Blancot –Councelor-Tsosie association, gently sloping soil map unit. A brief description of this soil can be found below.
 - 2 The Blancot-Councelor-Tsosie soil association is composed of 40 percent Blancot and similar soils, 30 percent Councelor and similar soils, 25 percent Tsosie and similar soils, and 5 percent of other 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-Councelor-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





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

in Bloomfield, NM to WPX Energy Production, LLC W Escavada Unit #303H 235' FSL & 228' FEL, Section 17, T22N, R7W, N.M.P.M., Sandoval County, NM

Latitude: 36.132770°N Longitude: 107.590030°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 begin WPX N Escavada Unit #317H proposed access on left-hand side of existing roadway;

Go Left (South-westerly) which is straight following along WPX N Escavada Unit #317H & WPX W Escavada Unit #300H proposed access's for 2685.0' to fork in proposed roadway;

Go Left (Southerly) which is straight for an additional 4258.6' to staked WPX W Escavada Unit #303H location.