State of New Mexico Energy, Minerals and Natural Resources Department

Susana Martinez

Governor

Ken McQueen Cabinet Secretary David R. Catanach, Division Director Oil Conservation Division



Matthias Sayer Deputy Cabinet Secretary

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: 1/16/2017
Well information; Operator WPK, Well Name and Number Kimber Wesh Unit 7711H
, went take the transfer of th
API# 30-045-35827, Section 26, Township 23 N/S, Range 9 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
O 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.
Charlet 6-9-2017
NMOCD Approved by Signature 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
Filotio (303) 470-3441 - Fax (303) 470-3402 - www.eiiiiiu.state.iiii.us/000

Form 3160 -3 (March 2012) FORM APPROVED OMB No. 1004-0137 Expires October 31, 2014 UNITED STATES 5. Lease Serial No. DEPARTMENT OF THE INTERIOR NMNM136267 BUREAU OF LAND MANAGEMENT 6. If Indian, Allotee or Tribe Name APPLICATION FOR PERMIT TO DRILL OR REENTER 7. If Unit or CA Agreement, Name and No. DRILL REENTER la. Type of work: KIMBETO WASH UNIT / NMNM135255A 8. Lease Name and Well No. Oil Well Gas Well Other Single Zone Multiple Zone lb. Type of Well: KWU 777H 9. API Well No. Name of Operator WPX ENERGY LLC 30.045-3b. Phone No. (include area code) 3a. Address 10. Field and Pool, or Exploratory 720 S Main Aztec NM 87410 BASIN MANCOS / MANCOS 11. Sec., T. R. M. or Blk. and Survey or Area Location of Well (Report location clearly and in accordance with any State requirements.*) At surface NESW / 1939 FSL / 2285 FWL / LAT 36.196036 / LONG -107.795341 SEC 28 / T23N / R9W / NMP At proposed prod. zone NWNW / 1265 FNL / 667 FWL / LAT 36.216169 / LONG -107.818894 12. County or Parish 14. Distance in miles and direction from nearest town or post office* SAN JUAN 37.8 miles 15. Distance from proposed* 17. Spacing Unit dedicated to this well 16. No. of acres in lease location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 20. BLM/BIA Bond No. on file 19. Proposed Depth 18. Distance from proposed location* to nearest well, drilling, completed, 1453.8 feet applied for, on this lease, ft. FED: UTB000178 5500 feet / 10000 feet 22. Approximate date work will start* Elevations (Show whether DF, KDB, RT, GL, etc.) 23. Estimated duration 6538 feet 02/20/2017 48 days 24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

- 1. Well plat certified by a registered surveyor
- 2. A Drilling Plan.

KP

- 3. 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).
- 5. Operator certification
- Such other site specific information and/or plans as may be required by the

(Electronic Submission) Marie Jaramillo / Ph: (505)533-1808 01/16/2017	
Title	
Permitting Tech III	
Approved by (Signature) Name (Printed/Typed) Date	7
Title Office	
APM FARMINGTON	

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)

Date

13. State

NM

This action is subject to technic, and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4 OIL CONS. DIV DIST. 3

JUN 0 2 2017

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"



District I 1625 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 4000 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

N/5

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Section 28

Section 29

1280.00

State of New Mexico Energy, Minerals & Natural Resources Department Form C-102 Revised August 1, 2011

Submit one copy to Appropriate District Office

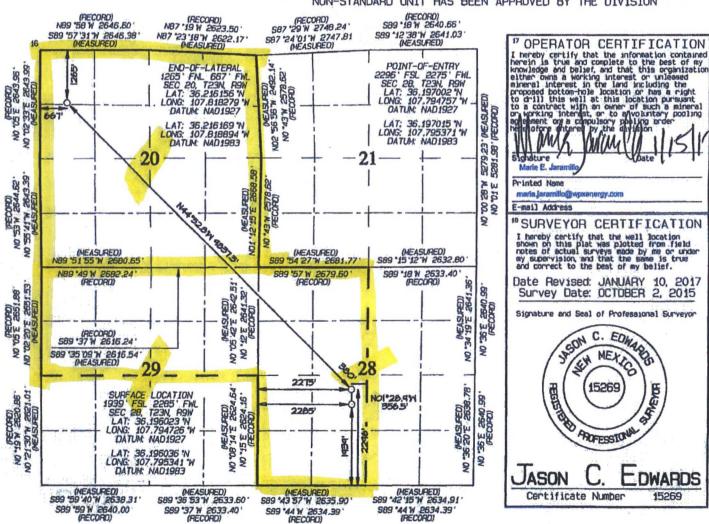
AMENDED REPORT

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

WELL	LOCATION	ANID	ACREAGE	DEDICATION	PLAT
711	LOCA I TON	MINU	MULILAUL	DEDICALION	1

30.045	API Numbe			*Pool Code					
Property 31614	Code	300	1		*Property KW			*W	777H
706AIO No. 1207B2			WPX	•	Elevation 6538				
			:		¹⁰ Surface	Location			
UL or lot no.	Section	Township	Rango	Lot Idn	Feet from the	North/South line	Feet from the	East/Nest line	County
K	28	23N	9W		1939	SOUTH	2285	WEST	SAN JUAN
		11	Botto	m Hole	Location I	f Different	From Surface	е	
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	50	23N	9W		1265	NORTH	667	WEST	SAN JUAN
Dedicated Acres	Fr	tire Se	rtion	20	¹³ Joint or Infill	¹⁴ Cormolidation Code	S Order No.		

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



Leoleral Linerals Mariago Surface



WPX Energy

Operations Plan

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

Date:

December 29, 2016

Field:

Basin Mancos

Well Name:

KWU #777H

Surface:

BLM

SH Location:

NESW Sec 28-23N-09W

Elevation: 6538' GR

BH Location:

NWNW Sec 20-23N-09W

Minerals:

Measured Depth: 14,667.95'

I. GEOLOGY

Surface formation - OJO ALAMO/ NACIMIENTO

A. FORMATION TOPS: (GR)

NAME	MD	TVD	NAME	MD	TVD
OJO ALAMO	37.00	37.00	POINT LOOKOUT	3,147.00	3,107.00
KIRTLAND	179.00	179.00	MANCOS	3,325.00	3,280.00
PICTURED CLIFFS	646.00	646.00	GALLUP	3,666.00	3,614.00
LEWIS	846.00	846.00	KICKOFF POINT	3,607.48	3,556.32
CHACRA	1,059.00	1,059.00	TOP TARGET	4,727.00	4,358.00
CLIFF HOUSE	2,199.00	2,181.00	LANDING POINT	4,830.58	4,367.00
MENEFEE	2,211.00	2,192.00	BASE TARGET	4,830.58	4,367.00
and the state of t		Note that the second se	TD	14,667.95	4,421.00

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 %" 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"	4,830.58'	7"	23 LBS	J-55 or equiv	LTC
PRODUCTION	6.125"	4680.58' - 14,667.95'	4.5"	11,6 LBS	P-110 or equiv	LTC
TIE BACK	6.125"	Surf 4680.58'	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 cu-ft/100 sx/ Bbls).TOC at Surface.

2. Intermediate:

Spacer #1: 20 bbl (112 cuft) Chemwash. Lead Cement: 83 bbls, 238 sks, (468 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/ +/- 190 bbl Drilling mud or water. Total Cement: 142 bbls, 492 sks, (799 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 (979 sx /1331 cuft /237 bbls). Tail Spacer: 20 BBL of MMCR. Displacement: Displace w/ +/-203bbl Fr Water. Total Cement (979 sx /1331bbls).

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.

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

T23N R9W 2309-28K WLU-KWU Kimbeto Wash UT #777H - Slot A2

Wellbore #1

Plan: Design #2 27Sept16 sam

Standard Planning Report

27 September, 2016

WPX

Planning Report

Database: COMPASS WPX Energy Company: Project: **T23N R9W** 2309-28K WLU-KWU Site: Well: Kimbeto Wash UT #777H Wellbore: Wellbore #1

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:

Well Kimbeto Wash UT #777H (A2) - Slot A2 GL @ 6538.00usft (Original Well Elev) GL @ 6538.00uslt (Original Well Elev) True Minimum Curvature

Design: Design #2 27Sept16 sam

T23N R9W Project

Map System: Geo Datum:

US State Plane 1927 (Exact solution) NAD 1927 (NADCON CONUS)

System Datum:

Mean Sea Level

Map Zone: New Mexico West 3003

Site 2309-28K WLU-KWU 1,890,595.89 usft Northing: 36.196023 Site Position: Latitude: From: Мар Easting: 511,391.51 usft Longitude: -107.794726 Slot Radius: 0.02 **Position Uncertainty:** 0.00 usft 13.200 in **Grid Convergence:**

Well Kimbeto Wash UT #777H - Slot A2 Well Position +N/-S 0.00 usft Northing: 1,890,595.89 usft Latitude: 36,196023 +E/-W 0.00 usft Easting: 511,391.51 usft Longitude: -107.794726 0.00 usft 0.00 usft 6,538.00 usft **Position Uncertainty** Wellhead Elevation: **Ground Level:**

Wellbore	Wellbore #1	Patental Argument to the Company of		Language de la companya de la compan	name or an about the second
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle	Field Strength (nT)
	IGRF2015	5/25/2016	9,32	62,88	49,834

Design De	esign #2 27Sept16 sam	Annual State of the Control of the Control	control magazina de la Aprille a patrificação de la Capacida de	record in the second and the control of the second of the
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	316,53

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	an annual and a second and a second and a second
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,619.78	12.40	110.69	1,614.95	-23.59	62.48	2.00	2.00	0.00	110.69	
3,607.48	12,40	110.69	3,556.32	-174.31	461.65	0.00	0.00	0.00	0.00	
4,400.70	60.00	315.14	4,231.72	71.79	274.11	9.00	6.00	-19.61	-157.77	Start 60 tan #777
4,500.70	60,00	315.14	4,281.72	133.18	213,02	0.00	0.00	0.00	0.00	End 60 tan #777h
4,669.00	75.15	315.14	4,345.74	243.14	103,61	9.00	9.00	0.00	0.00	
4,830,58	89.69	315.14	4,367.00	356.36	-9.06	9.00	9.00	0.00	0.00	POE #777H
14,667.95	89.68	315.14	4,421.00	7,329.62	-6,947,69	0.00	0.00	0.00	-179.72	BHL #777H

WPX Planning Report

Database: Company: Project: Site:

COMPASS WPX Energy **T23N R9W**

2309-28K WLU-KWU Kimbeto Wash UT #777H

Well: Wellbore: Wellbore #1

Design #2 27Sept16 sam Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Kimbeto Wash UT #777H (A2) - Slot A2 GL @ 6538.00ush (Original Well Elev) GL @ 6538.00ush (Original Well Elev)

Minimum Curvature

Measured			Vertical			Vertical	Doelos	Bulld	Turn
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Dogleg Rate	Rate	Rate
(usft)	(°)	(bearing)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0,00	0.00	0.00	0.00
320.00 9 5/8"	0,00	0.00	320.00	0.00	0.00	0,00	0,00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0,00	0.00	0,00
1,000,00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
The second secon	and the same of th	0.00	1,000.00	U.UU	0.00	0.00	0.00	0.00	0.00
Start Build 2 1,500.00	10.00	110.69	1,497.47	-15.37	40.72	-39.17	2,00	2,00	0.00
						, , , , ,			
1,619.78	12.40	110.69	1,614.95	-23.59	62.48	-60.10	2.00	2,00	0.00
Hold 12.40 li	clination								
2,000.00	12.40	110.69	1,986.31	-52.42	138.83	-133,55	0.00	0.00	0.00
2,500.00	12.40	110.69	2,474.66	-90.33	239.24	-230.15	0.00	0.00	0.00
3,000.00	12,40	110,69	2,963.00	-128.24	339.65	-326.74	0.00	0.00	0.00
3,500.00	12.40	110.69	3,451.35	-166,16	440.06	-423.33	0.00	0.00	0.00
3,607.48	12,40	110.69	3,556.32	-174.31	461.65	-444.09	0,00	0.00	0.00
Start Build D	LS 9.00 TFO -16	57.77					54.549.569.50°		
4,000.00	24.25	322.87	3,939.15	-123.29	452.09	-400.50	9.00	3.02	-37.66
4,400.70	60.00	315.14	4,231.72	71.79	274.11	-136.47	9.00	8.92	-1.93
Hold 60.00 lr	clination	A MINESON DE LA				Lay.	THE RESERVE		
4,500.00	60.00	315.14	4,281.37	132.75	213.45	-50.50	0.00	0.00	0.00
4,500.70	60.00	315.14	4,281.72	133.18	213.02	-49.89	0.00	0.00	0.00
Start Build D	LS 9.00 TFO 0.0	0			rection the				
4,669.00	75.15	315.14	4,345.74	243.14	103,61	105.18	9.00	9,00	0.00
Start DLS 9.0	Assembly design in the last brightness of the	913,14	4,040.74	240.19	100,01	100.10	5.00	5.00	0.00
4,830.58	89.69	315.14	4,367.00	356.36	-9.06	264,87	9.00	9.00	0.00
The second secon	Inc 315.14 Deg		4,307,00	300,30	-5.00	204,01	8.00	3,00	0.00
5,000.00	89.69	315.14	4,367.92	476,46	-128.56	434.24	0.00	0.00	0.00
								0.00	0.00
5,500,00	89.69	315.14	4,370.64	830.89	-481.22	934.08	0.00	0.00	0.00
6,000.00	89.69	315.14	4,373.37	1,185.31	-833.89	1,433.93	0.00	0.00	0.00
6,500.00	89.69	315.14	4,376.09	1,539.74	-1,186.56	1,933.77	0.00	0.00	0.00
7,000.00	89.69	315.14	4,378.82	1,894.17	-1,539.23	2,433.62	0.00	0.00	0.00
7,500.00	89.69	315.14	4,381.55	2,248.59	-1,891.89	2,933.46	0.00	0.00	0.00
8,000.00	89.69	315.14	4,384.29	2,603.02	-2,244.56	3,433.31	0.00	0.00	0.00
8,500.00	89.69	315.14	4,387.02	2,957.45	-2,597.23	3,933.16	0.00	0.00	0.00
9,000.00	89.69	315.14	4,389.76	3,311.88	-2,949.89	4,433.00	0.00	0.00	0.00
9,500.00	89.69	315.14	4,392.50	3,666.30	-3,302.56	4,932.85	0.00	0.00	0.00
10,000.00	89.69	315.14	4,395.25	4,020.73	-3,655.23	5,432.69	0.00	0.00	0,00
10,500.00	89.69	315.14	4,398.00	4,375.16	-4,007.89	5,932.54	0.00	0.00	0.00
11,000.00	89.68	315.14	4,400.75	4,729.58	-4,360.56	6,432.38	0.00	0.00	0.00
11,500.00	89.68	315.14	4,403.50	5,084.01	-4,713.23	6,932.23	0.00	0.00	0.00
12,000.00	89,68	315.14	4,406.25	5,438.44	-5,065.90	7,432.07	0.00	0.00	0.00
12,500.00	89.68	315.14	4,409.01	5,792.86	-5,418.56	7,931.92	0.00	0.00	0.00
13,000.00	89.68	315.14	4,411.77	6,147,29	-5,771.23	8,431.76	0.00	0.00	0.00
13,500.00	89.68	315.14	4,414.54	6,501.72	-6,123.90	8,931.61	0.00	0.00	0.00
14,000.00	89.68	315.14	4,417.30	6,856.14	-6,476.56	9,431,45	0.00	0,00	0.00
14,500.00	89.68	315.14	4,417.30	7,210.57	-6,829,23	9,431.45	0.00	0.00	0.00
14,667.95	89.68	315.14	4,421.00	7,329.62	-6,947.69	10,099.19	0.00	0.00	0.00
And the latest the same of the latest the la	asured depth	313.14	4,421.00	1,028.02	-0 ₁ 947,09	10,089.18	0.00	0.00	0.00

WPX

Planning Report

Database: COMPASS
Company: WPX Energy
Project: T23N R9W
Site: 2309-28K WLU-KWU
Well: Kimbelo Wash UT #777H
Wellbore: Wellbore #1
Design: Design #2 27Sept16 sam

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well Kimbeto Wash UT #777H (A2) - Slot A2 GL @ 6536.00usft (Original Well Elev) GL @ 6538.00usft (Original Well Elev) True Minimum Curvature

Design Targets						No. of the last of			中共中国的影響的機
Target Name - hit/miss target Di - Shape	ip Angle (°)	Dip Dir. (bearing	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Start 60 tan #777H - plan hits target center - Point	0,00	0.00	4,231.72	71.79	274.11	1,890,667.79	511,665.59	36.196220	-107.793797
End 60 tan #777H - plan hits target center - Point	0.00	0.00	4,281.72	133.18	213.02	1,890,729.16	511,604.48	36.196389	-107.794004
POE #777H - plan hits target center - Point	0.00	0.00	4,367.00	356,36	-9.06	1,890,952.25	511,382.31	36,197002	-107.794757
BHL#777H - plan hits target center - Point	0.00	0.00	4,421,00	7,329.62	-6,947.69	1,897,922.75	504,440.90	36.216156	-107.818279

ising Points	上线线线			图 2017年	"不够可能就是你就我们	建设的 种植物的
	Measured Depth (usft)	Vertical Depth (usft)		Name	Casing Diameter (in)	Hole Diameter (in)
	320.00 4,830.58	320.00 4,367.00	9 5/8" 7"		9.625 7.000	12.250 8.750

Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment	
1,000.00	1,000.00	0.00	0.00	Start Build 2,00	
1,619.78	1,614,95	-23.59	62.48	Hold 12.40 Inclination	
3,607.48	3,556.32	-174.31	461.65	Start Build DLS 9,00 TFO -157,77	
4,400.70	4,231.72	71.79	274.11	Hold 60.00 Inclination	
4,500.70	4,281.72	133.18	213.02	Start Build DLS 9.00 TFO 0.00	
4,669.00	4,345.74	243.14	103.61	Start DLS 9.00 TFO 0.00	
4,830,58	4.367.00	356.36	-9.06	POE at 89.69 Inc 315.14 Deg	
14,667,95	4,421.00	7,329,62	-6,947,69	14667,95 Measured depth	



Well Name: Kimbeto Wash UT #777H

Surface Location: 2309-28K WLU-KWU NAD 1927 (NADCON CONUS)

, US State Plane 1927 (Exact solution) New Mexico West 3003

Ground Elevation: 6538.00

Northing Easting 1890595.89 511391.51

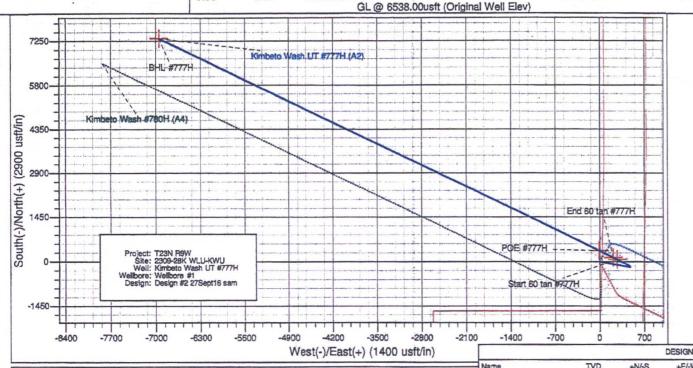
+E/-W

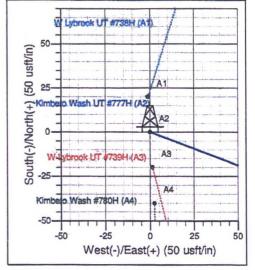
0.00

Latittude 36.196023

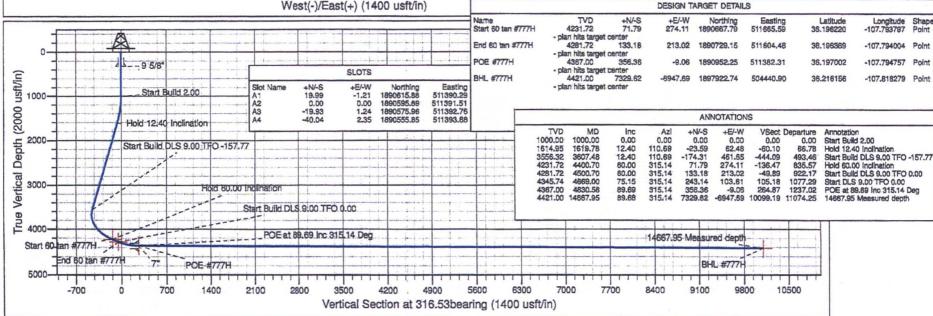
Longitude -107.794726 Slot A2 Azimuths to True North Magnetic North: 9.32

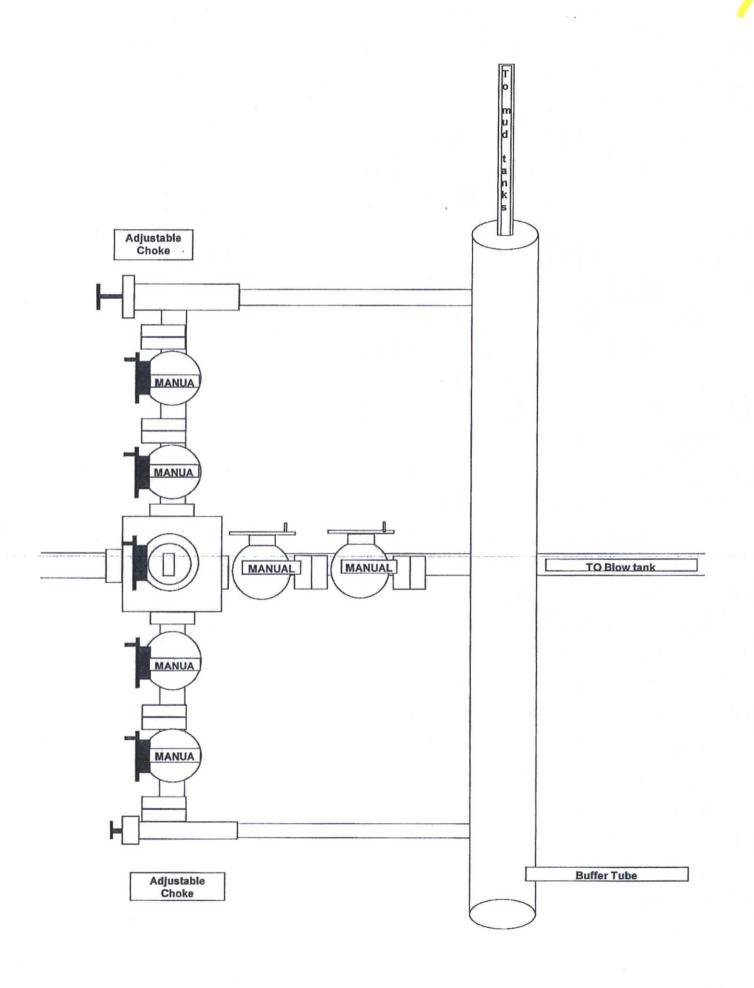
Magnetic Field Strength: 49833.9snT Dip Angle: 62.88 Date: 5/25/2016 Model: IGRF2015

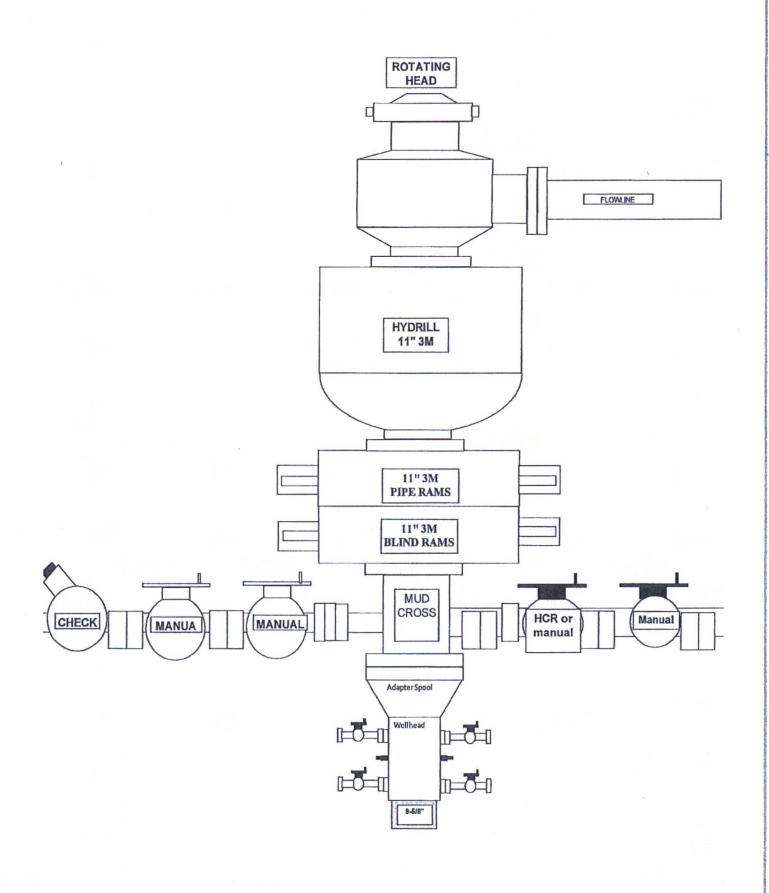




Shape







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 KWU 777H/780H and W Lybrook Unit 738H/739H Project area. Complete soil information is available in the NRCS's *Soil Survey of San Juan 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 - Notal association, gently sloping

Within the project area, this soil map unit is found at the northern half of the access road, well-connect pipeline corridor, and TUA.

The Blancot-Notal soil association is composed of 55 percent Blancot and similar soils and 25 percent Notal and similar soils. 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-Notal association is typically found ranging in elevation from 5,600 to 6,400 feet in elevation, along fan remnant and stream terrace landforms (0-to 5-percent slopes) and within loamy and salt flat ecological sites (USDA/NRCS 2015).

B. Badland

Within the project area, this soil map unit is found across the majority of the well pad at the northern end and the southern half of the access, well-connect pipeline corridor, and TUA. Most of the well pad construction within this soil unit would result in fill.

The parent material of the Badland map unit primarily consists of shale. This soil is considered a somewhat excessively drained soil, with the depth to restrictive layer (paralithic bedrock) being zero to two inches. Available water capacity for the Badland soil unit is very low (zero inches). This soil type has a low to moderate potential for water erosion and moderate potential for wind erosion. Badland soils are typically found along the side slopes of break landforms (5- to 80-percent slopes), and are commonly used for wildlife habitat (USDA/NRCS 2015).

C. Fruitland-Persayo-Sheppard complex (hilly)

Within the project area, this soil map unit is found at the southern end of the well pad and construction buffer zone. This end of the well pad would require a 2-3 feet of cut. The construction buffer zone was expanded to 75 feet along the south end of the well pad in order to accommodate the necessary room for a silt trap and topsoil storage within these soils.

The Fruitland-Persayo-Sheppard complex (hilly) is composed of 40 percent Fruitland and similar soils, 30 percent Persayo and similar soils, and 25 percent Sheppard and similar soils. Fruitland-Persayo-Sheppard complex (hilly) soils are found on alluvial fans, stream terraces, hills, ridges, breaks, and dunes ranging from 4,000 feet to 6,400 feet in elevation. Fruitland soils occur on slopes of 5 to 30 percent, are well drained, and have a high water permeability. Persayo soils occur on slopes of 5 to 30 percent, are well drained, and have low to moderately high water permeability. Sheppard soils occur on slopes of 5 to 30 percent, are excessively drained, and have high to very high water permeability. This soil complex has a low to moderate potential for water erosion and moderate to high potential for wind erosion. The Fruitland-Persayo-Sheppard complex (hilly) is generally found within sandy, shale hills, and deep sand ecological sites (USDA/NRCS 2015).

7. METHODS FOR HANDLING WASTE

A. Cuttings

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

<u>Directions from the Intersection of US Hwy 550 & US Hwy 64</u> in Bloomfield, NM to WPX Energy Production, LLC KWU #777H

1939' FSL & 2285' FWL, Section 28, T23N, R9W, N.M.P.M., San Juan County, NM

Latitude: 36.196036°N Longitude: 107.795341°W Datum: NAD1983

From the intersection of US Hwy 550 & US Hwy 64 in Bloomfield, NM, travel Southerly on US Hwy 550 for 37.8 miles to Mile Marker 113.4;

Go Right (South-westerly) on County Road #7890 for 0.8 miles to fork in roadway;

Go Left (Southerly) remaining on County Road #7890 for 1.3 miles to four-way intersection;

Go Left (South-easterly) remaining on County Road #7890 for 0.6 miles to fork in roadway;

Go Right (South-westerly) remaining on County Road #7890 for 0.5 miles to begin WPX W Lybrook Unit #720H proposed access on right-hand side of County Road;

Go Right (Westerly) exiting County Road #7890 following along WPX W Lybrook Unit #720H proposed access for 3123.1' to fork in proposed access;

Go Left (Westerly) which is straight, following along WPX W Lybrook Unit #726H proposed access for 3937.3' to fork in proposed access;

Go Left (Westerly) which is straight, following along WPX W Lybrook Unit #730H proposed access for 10,164.2' to fork in proposed access at begin WPX W Lybrook Unit #736H new access;

Go Left (South-westerly) which is straight continuing for an additional 1453.8' to staked WPX KWU #777H location.