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: <u>a 13 2017</u> Well information; Operator <u>WPX</u> , Well Name and Number <u>KWU 788+/</u>
API# 30-045-358, Section 32, 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.
Charker 8-17-2017
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

Form 3160 -3 (March 2012) OIL CONS. DIV DIST. 3

FORM APPROVED OMB No. 1004-0137 Expires October 31, 2014

AUG 0 9 2017	7
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5. Lease Serial No. N0G14031935

BUREAU OF LAND MANA	GEMENT	- 1	NUG 1403 1935	A.	
APPLICATION FOR PERMIT TO D			6. If Indian, Allotee	or Tribe Name	67
AFFEIGATION TON FERMIT TO E	THE ON NEEDVEN		EASTERN NAVAJO		<i>P</i>
1a. Type of work: DRILL REENTED	R	with .	7. If Unit or CA Agree KIMBETO WASH L	AND DESCRIPTION OF THE PARTY.	
lb. Type of Well: Oil Well Gas Well Other	Single Zone Multip	le Zone	8. Lease Name and V KWU 788H	Vell No.	
Name of Operator WPX ENERGY LLC		A.	9. API Well No.	3583	38
700 0 Main Anton MIM 07440	3b. Phone No. (include area code) (505)333-1822		10. Field and Pool, or E KWU / BASIN MAN	1 ,	OL
4. Location of Well (Report location clearly and in accordance with any	State requirements.*)		11. Sec., T. R. M. or Bl	k. and Survey or A	rea
At surface SESE / 260 FSL / 227 FEL / LAT 36.176978 / At proposed prod. zone NESE / 1569 FSL / 156 FEL / LAT 3	A STATE OF THE PARTY OF THE PAR	1	SEC 32 / T23N / R9	W / NMP	
14. Distance in miles and direction from nearest town or post office* 37.8 miles			12. County or Parish SAN JUAN	13. Stat NM	e
15. Distance from proposed* location to nearest 20 feet property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No. of acres in lease 160	17. Spacing 1280.41	g Unit dedicated to this w	vell	
18. Distance from proposed location* to nearest well, drilling, completed, 227 feet applied for, on this lease, ft.	19. Proposed Depth 4424 feet / 12092 feet		BIA Bond No. on file B000178 / IND: B00	1576	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6636 feet	22. Approximate date work will star 04/01/2017	t*	23. Estimated duration 30 days	1	
	24. Attachments				
The following, completed in accordance with the requirements of Onshore	Oil and Gas Order No.1, must be at	tached to thi	s form:		
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System L SUPO must be filed with the appropriate Forest Service Office). 	Item 20 above). Solution 20 above (1). Description 20 above (1).	ation	ns unless covered by an ormation and/or plans as		,
25. Signature (Electronic Submission)	Name (Printed/Typed) Lacey Granillo / Ph: (505	5)333-1816		Date 02/13/2017	
Title Permitting Tech III					
Approved by (Signature) Manteeror	Name (Printed/Typed)			Date 8/3/	/-
Title AFM	Office FARMINGTON				
Application approval does not warrant or certify that the applicant holds conduct operations thereon. Conditions of approval, if any, are attached.	legal or equitable title to those right	ts in the sub	ject lease which would en	ntitle the applicant	to
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a cri	me for any person knowingly and w	villfully to m	ake to any department o	r agency of the Un	nited

UNITED STATES

DEPARTMENT OF THE INTERIOR

(Continued on page 2)

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

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

*(Instructions on page 2)

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



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
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

5/2 -

Entire Section

1280.41

Section 30

32

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

Submit one copy to Appropriate District Office

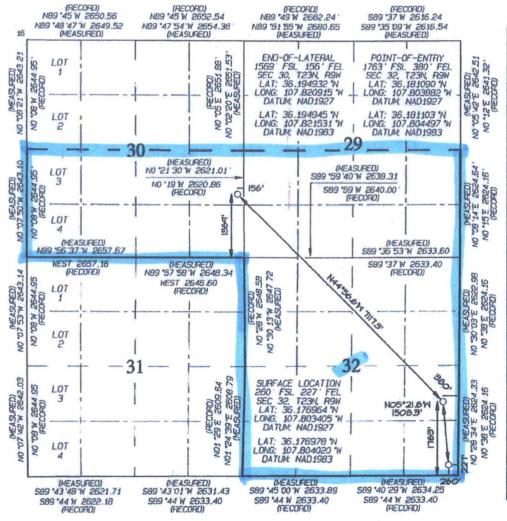
AMENDED REPORT

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-0	API Numbe	1583	8	'Pool Coo 97232		BAS	Pool Nam		OL	
'Property 31614					*Propert	y Name & Kimbeto	wash le	nit	*W	1e11 Number 788H
'OGRID 12078	152			WPX	*Operator	Name RODUCTION, LL	-C		1	6636'
					10 Sunface	Location				
UL or lot no.	Section	Township	Range	Lat Idn	Feet from the	North/South line	Feet from the	East/Wes	t line	County
P	32	23N	9W		260	SOUTH	227	EAS	T	SAN JUAN
			1 Botto	m Hole	Location I	f Different	From Surfac	е		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Wes	t line	County
I	30	23N	9W		1569	SOUTH	156	EAS	ST .	SAN JUAN
Dedicated Acres		/2 - Se		29	13 Joint or Infill	14 Consolidation Code	6 Order No.	1084		-

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



" OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, end 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 pursuent to a contract with an owner of such a mineral or working interests, or to a voluntary pooling appearance on a compulsory pooling order has a right to the contract with an owner of such a mineral or working interests, or to a voluntary pooling appearance on a compulsory pooling order has a right to the contract with an owner of such a mineral or working interests, or to a voluntary pooling appearance on a compulsory poling order has a right to the contract with the contract of the contract o Date Signature Lacey Gran 110 Printed Name lacey.granillo@wpxenergy.com E-mail Address "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: FEBRUARY 13, 2017 Survey Date: JANUARY 15, 2016 Signature and Seal of Professional Surveyor C. EDWARD JASON MEXICO **JEW** REGISTORY SAME TOR 15269 AROFESSIONAL DWARDS

Certificate Number

Naicigo Senface



WPX Energy

Operations Plan

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

Date:

February 8, 2017

Field:

Basin Mancos

6636' GR

Well Name:

KWU #788H

Surface:

SH Location:

SESE SEC 32 23N-09W

Elevation:

BH Location:

NESE SEC 29 23N-09W

Minerals:

Measured Depth: 12,092.08'

I. GEOLOGY

Surface Formation - NACIMIENTO/ OJO ALAMO/ KIRKLAND

A. FORMATION TOPS: (KB)

NAME	MD	TVD	NAME	MD	TVD
OJO ALAMO	60.00	60.00	POINT LOOKOUT	3127.00	3127.00
KIRTLAND	222.00	222.00	MANCOS	3302.00	3302.00
PICTURED CLIFFS	790.00	790.00	GALLUP	3641.00	3641.00
LEWIS	874.00	874.00	KICKOFF POINT	3,961.15	3,793.94
CHACRA	1091.00	1091.00	TOP TARGET	4871.00	4371.00
CLIFF HOUSE	2198.00	2198.00	LANDING POINT	4,974.73	4,380.00
MENEFEE	2275.00	2215.00	BASE TARGET	4,974.73	4,380.00
			TD	12,092.08	4,424.00

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 3/4" 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"	4,974.73'	7"	23 LBS	J-55 or equiv	LTC
PRODUCTION	6.125"	4824.73' - 12,092.08'	4.5"	11.6 LBS	P-110 or equiv	LTC
TIE BACK	6.125"	Surf 4824.73'	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 600 psi. Total Volume: (160 cu-ft/100 sx/ Bbls).TOC at Surface.

2. Intermediate:

Spacer #1: 20 bbl (112 cuft) Chemwash. Lead Cement: 88 bbls, 250 sks, (492 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/ +/- 196 bbl Drilling mud or water. Total Cement: 147 bbls, 504 sks, (823 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 (712 sx /968 cuft /172 bbls). Tail Spacer: 20 BBL of MMCR. Displacement: Displace w/ +/-163bbl Fr Water. Total Cement (712 sx /968bbls).

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 2309-32P KWU Kimbeto Wash UT #788H

Wellbore #1

Plan: Design #1 23May16 sam

Standard Planning Report

23 May, 2016

WPX

Planning Report

COMPASS Database: WPX Energy Company: **T23N R9W** Project: Site: 2309-32P KWU Kimbeto Wash UT #788H Well: Wellbore: Wellbore #1

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

Well Kimbeto Wash UT #788H GL @ 6636,00usft (Original Well Elev) GL @ 6636.00usft (Original Well Elev) True Minimum Curvature

Design: **Project**

T23N R9W

Map System:

US State Plane 1927 (Exact solution)

NAD 1927 (NADCON CONUS)

Design #1 23May16 sam

System Datum:

Mean Sea Level

Geo Datum: Map Zone:

New Mexico West 3003

2309-32P KWU Site

Site Position: From:

Мар

Northing:

1,883,657.32 usft

Latitude:

36.176964

Position Uncertainty:

Easting:

508,832.81 usft

Longitude:

-107.803405

0.00 usft Slot Radius: 13.200 in

Grid Convergence:

0.02 9

Well

Kimbeto Wash UT #788H

Well Position

+N/-S

0.00 usft 0.00 usft

Northing: Easting:

1,883,657.32 usft 508,832.81 usft Latitude:

36.176964

Position Uncertainty

+E/-W

0.00 usft

Wellhead Elevation:

0.00 usft

Longitude: Ground Level:

-107.803405 6,636.00 usft

49,828

Wellbore

Wellbore #1

Magnetics

Model Name

IGRF2015

Sample Date

Declination (°)

Dip Angle (°)

Field Strength (nT)

5/2/2016 9.33 62.86

Design Audit Notes:

Version:

Phase:

Design #1 23May16 sam

PLAN +N/-S Tie On Depth:

0.00

Vertical Section:

Depth From (TVD) (usft) 0.00

(usft) 0.00

+E/-W (usft) 0.00

Direction (bearing) 321.70

Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	42.5
(usft)	(°)	(bearing)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)	(°)	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	
1,801.17	21.02	18.09	1,777.74	181.27	59.21	2.00	2.00	0.00	18.09	
3,961.15	21.02	18.09	3,793.94	917.87	299.80	0.00	0.00	0.00	0.00	
4,545.34	60.00	315.08	4,244.72	1,217.94	142.51	9.00	6.67	-10.79	-76.35	Start 60 Tan #788
4,645.34	60.00	315.08	4,294.72	1,279.26	81.35	0.00	0.00	0.00	0.00	End 60 Tan #788h
4,806.36	74.49	315.08	4,356.84	1,384.12	-23.23	9.00	9.00	0.00	0.00	
4,974.73	89.65	315.08	4,380.00	1,501.84	-140.65	9.00	9.00	0.00	0.00	POE #788H
12,092.08	89.65	315.08	4.424.00	6.541.08	-5,166.65	0.00	0.00	0.00	0.00	BHL #788H

WPX

Planning Report

Database: Company: Project: Site: COMPASS WPX Energy T23N R9W 2309-32P KWU

Well: Kimbeto Wash UT #788H
Wellbore: Wellbore #1

Design: Design #1 23May16 sam

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Kimbeto Wash UT #788H

GL @ 6636,00usft (Original Well Elev) GL @ 6636,00usft (Original Well Elev)

True

Minimum Curvature

	The control of the co	NUMBER OF STREET	LIFE STREET, ST.		NAME OF THE OWNER, WHEN PERSONS	REPRESENTATION OF THE	BUTCHE PERMITS	THE RECEIPTED BY	THE BLADE WAYNER
ned Survey			<u>Corrence</u>	AND DESCRIPTION	HARITAGE PARTY				REPORTED
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn 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	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									
1,000.00	5.00	18.09	999.68	10.36	3.38	6.03	2.00	2.00	0.00
1,500.00	15.00	18.09	1,491.46	92.79	30.31	54.03	2.00	2.00	0.00
1,801.17	21.02	18.09	1,777.74	181.27	59.21	105.55	2.00	2.00	0.00
Hold 21.02		10.00	-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			.00.00	2.00	2.00	A STATE OF THE STA
2,000.00	21.02	18.09	1,963.34	249.08	81.36	145.03	0.00	0.00	0.00
2,500.00	21.02	18.09	2,430.05	419.59	137.05	244.31	0.00	0.00	0.00
3,000.00	21.02	18.09	2,896.77	590.10	192.74	343.60	0.00	0.00	0.00
	21.02	18.09	3,363.49	760.61	248.44	442.88	0.00	0.00	0.00
3,500.00 3,961.15	21.02	18.09	3,363.49	917.87	299.80	534.45	0.00	0.00	0.00
	DLS 9.00 TFO -76		3,793.94	517.07	299.00	554,45	0.00	0.00	0.00
4,000.00	22.10	9.03	2 920 09	931.71	303.11	543.26	9.00	2.77	-23.33
4,500.00	56.28	317.05	3,830.08 4,220.79	1,190.23	169.23	829.11	9.00	6.84	-10.40
4,545.34	60.00	317.05	4,220.79	1,217.94	142.51	867.42	9.00	8.21	-4.35
Hold 60.00		313.00	4,244.72	1,217.54	142.51	007.42	9.00	0.21	4.33
4,645.34	60.00	315.08	4,294.72	1,279.26	81.35	953.44	0.00	0.00	0.00
	DLS 9,00 TFO 0.0								
4,806.36	74.49	315.08	4,356.84	1,384.12	-23.23	1,100.56	9.00	9.00	0.00
	0.00 TFO 0.00								
4,974.73	89.65	315.08	4,380.00	1,501.84	-140.65	1,265.72	9.00	9.00	0.00
POE at 89.0	65 Inc 315.08 Deg	-7"							
5,000.00	89.65	315.08	4,380.16	1,519.74	-158.49	1,290.82	0.00	0.00	0.00
5,500.00	89.65	315.08	4,383.25	1,873.75	-511.57	1,787.48	0.00	0.00	0.00
6,000.00	89.65	315.08	4,386.34	2,227.76	-864.65	2,284.13	0.00	0.00	0.00
6,500.00	89.65	315.08	4,389.43	2,581.77	-1,217.74	2,780.79	0.00	0.00	0.00
7,000.00	89.65	315.08	4,392.52	2,935.78	-1,570.82	3,277.45	0.00	0.00	0.00
7,500.00	89.65	315.08	4,395.61	3,289.79	-1,923.90	3,774.10	0.00	0.00	0.00
8,000.00	89.65	315.08	4,398.70	3,643.80	-2,276.98	4,270.76	0.00	0.00	0.00
8,500.00	89.65	315.08	4,401.79	3,997.81	-2,630.06	4,767.42	0.00	0.00	0.00
9,000.00	89.65	315.08	4,404.88	4,351.82	-2,983.14	5,264.07	0.00	0.00	0.00
9,500.00	89.65	315.08	4,407.98	4,705.84	-3,336.23	5,760.73	0.00	0.00	0.00
10,000.00	89.65	315.08	4,411.07	5,059.85	-3,689.31	6,257.38	0.00	0.00	0.00
10,500.00	89.65	315.08	4,414.16	5,413.86	-4,042.39	6,754.04	0.00	0.00	0.00
11,000.00	89.65	315.08	4,417.25	5,767.87	-4,395.47	7,250.70	0.00	0.00	0.00
11,500.00	89.65	315.08	4,420.34	6,121.88	-4,748.55	7,747.35	0.00	0.00	0.00
12,000.00	89.65	315.08	4,423.43	6,475.89	-5,101.63	8,244.01	0.00	0.00	0.00
12,092.08	89.65	315.08	4,424.00	6,541.08	-5,166.65	8,335.47	0.00	0.00	0.00

WPX

Planning Report

Database: COMPASS
Company: WPX Energy
Project: T23N R9W
Site: 2309-32P KWU
Well: Kimbeto Wash UT #788H
Wellbore: Wellbore #1

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well Kimbeto Wash UT #788H GL @ 6636,00usft (Original Well Elev) GL @ 6636,00usft (Original Well Elev) True

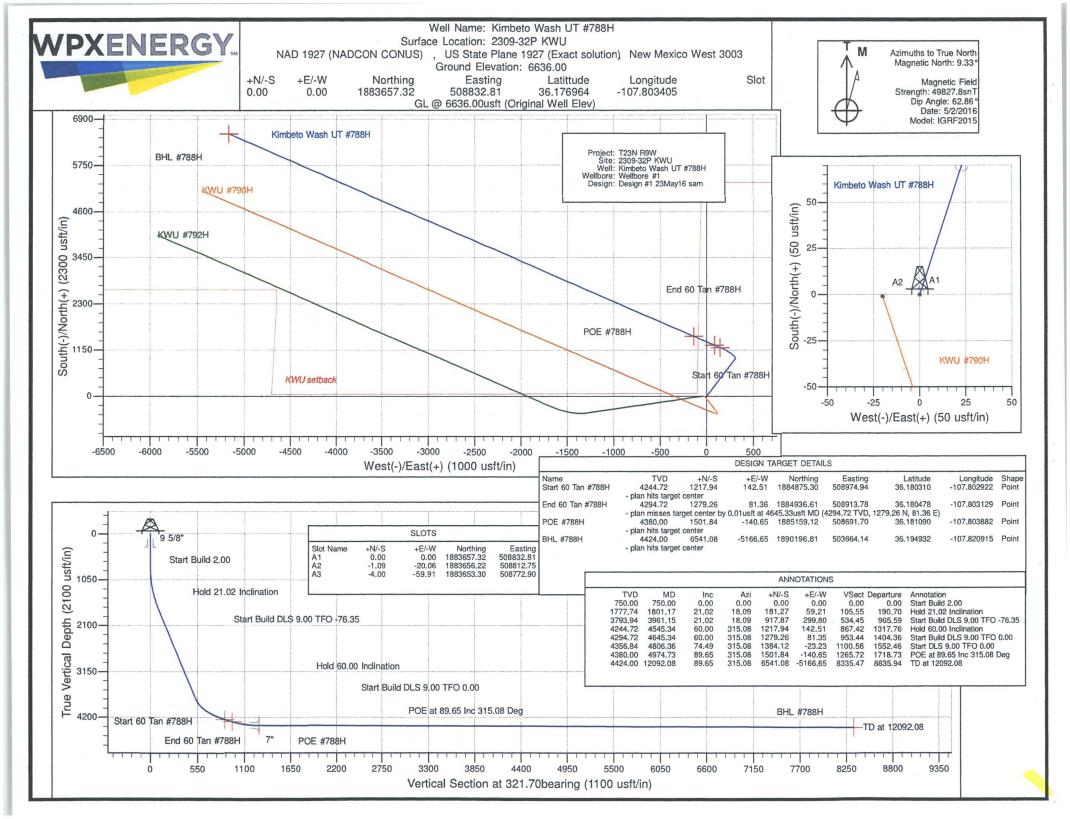
hod: Minimum Curvature

Design: Design #1 23May16 sam

Design Targets	NAME OF TAXABLE								ringstandarism
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 #788H - plan hits target cent - Point	0.00 er	0.00	4,244.72	1,217.94	142.51	1,884,875.31	508,974.95	36.180310	-107.802922
End 60 Tan #788H - plan misses target o - Point	0.00 center by 0.01	0.00 usft at 4645	4,294.72 .33usft MD (1,279.26 4294.72 TVD,	81.36 1279.26 N, 8	1,884,936.61 1.36 E)	508,913.78	36.180478	-107.803130
POE #788H - plan hits target cent - Point	0.00 er	0.00	4,380.00	1,501.84	-140.65	1,885,159.12	508,691.70	36.181090	-107.803882
BHL #788H - plan hits target cent - Point	0.00 er	0.00	4,424.00	6,541.08	-5,166.65	1,890,196.81	503,664.14	36.194932	-107.820916

	sured epth	Vertical Depth			Casing Diameter	Hole Diameter	
	ısft)	(usft)		Name	(in)	(in)	
ti i kana di kana di salam di di di di di di kana yang di di mada mengalah di salah di salah di salah di salah	320.00	320.00	9 5/8"		9.625	12.250	
	4,974.73	4,380.00	7"		7.000	8.750	

Measured	Vertical	Local Coordinates		
Depth (usft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
750.00	750.00	0.00	0.00	Start Build 2.00
1,801.17	1,777.74	181.27	59.21	Hold 21.02 Inclination
3,961.15	3,793.94	917.87	299.80	Start Build DLS 9.00 TFO -76.35
4,545.34	4,244.72	1,217.94	142.51	Hold 60.00 Inclination
4,645.34	4,294.72	1,279.26	81.35	Start Build DLS 9.00 TFO 0.00
4,806.36	4,356.84	1,384.12	-23.23	Start DLS 9.00 TFO 0.00
4,974.73	4,380.00	1,501.84	-140.65	POE at 89.65 Inc 315.08 Deg
12,092.08	4,424.00	6,541.08	-5,166.65	TD at 12092.08



6. CONSTRUCTION MATERIALS

The construction phase of the project would commence upon receipt of the approved APDs. The BLM-FFO will be notified (505-564-7600) at least 48 hours prior to the start of construction activities associated with the project. The construction phase of the project is anticipated to last approximately 3 to 4 weeks.

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 KWU 788H/790H/792H Project area. Complete soil information is available in the NRCS's *Soil Survey of Sandoval County Area, New Mexico, Parts of Los Alamos, Sandoval, and Rio Arriba Counties* (USDA/NRCS 2015). The soil map unit within the proposed project area footprint is described below.

A. Doak-Sheppard-Shiprock association, rolling

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, remote facilities pad, access road, and well-connect pipelines would consist of native borrow and subsoils from the Doak-Sheppard-Shiprock association, rolling soil map unit. A brief description of this soil can be found below.

Doak-Sheppard-Shiprock association, rolling soils are found on mesas, fan remnants, stream terraces, and dunes at 5,600 to 6,400 feet in elevation. The unit is composed of 40 percent Doak soils, 30 percent Sheppard soils, and 20 percent Shiprock soils. Doak soils occur on slopes from 0 to 5 percent and are well drained. Doak soils are deep and have a moderately slow permeability. Sheppard soils occur on slopes from 0 to 15 percent and are deep, somewhat excessively drained, and rapidly permeable. Shiprock soils occur on 0 to 5 percent slopes and are deep, well drained, and have a moderately rapid permeability. They formed in eolian material and slope alluvium. Effective rooting depth for this unit is 60 inches or greater. This unit is mainly used for livestock grazing and wildlife habitat. The major limitations of this mapping unit are: (1) the hazard of soil blowing and (2) the hazard of water erosion. (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

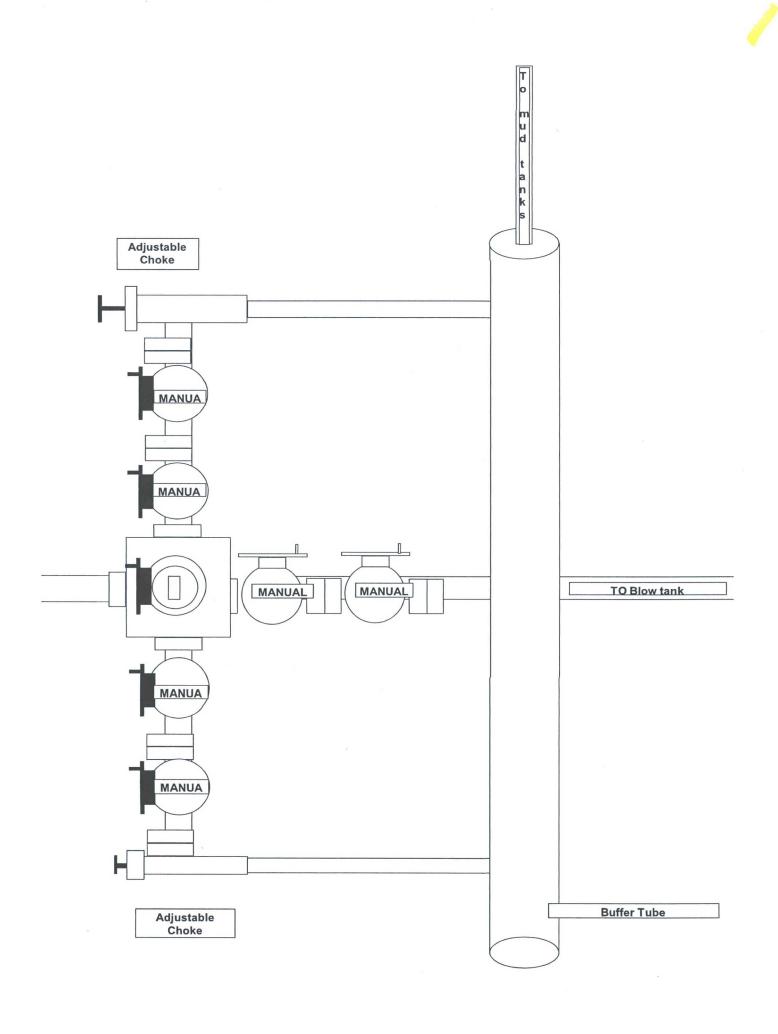
1 Drilling fluids will be stored onsite in above-ground storage tanks. Upon termination of drilling operations, the drilling fluids will be recycled and transferred to other permitted closed-loop systems or returned to the vendor for reuse, as practical. All residual fluids will be hauled to a commercial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

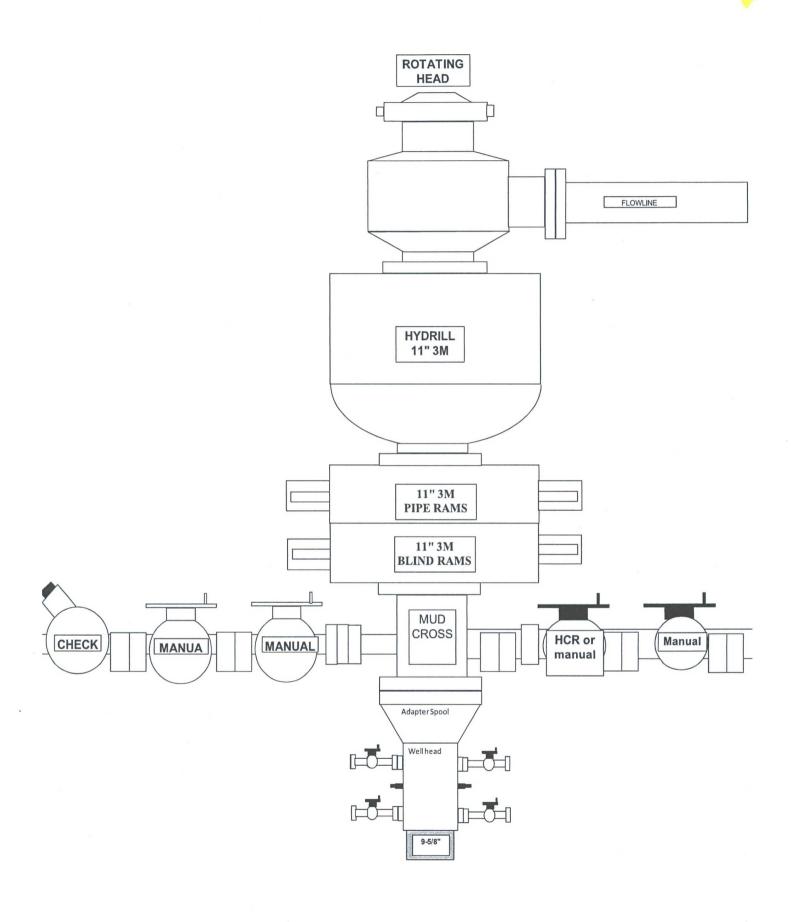
C. Spills

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

D. Sewage

- Portable toilets will be provided and maintained during construction, as needed (see Figures 3 & 4 in Appendix B for the location of toilets).
- E. Garbage and other waste material





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

in Bloomfield, NM to WPX Energy Production, LLC KWU #788H

260' FSL & 227' FEL, Section 32, T23N, R9W, N.M.P.M., San Juan County, NM

Latitude: 36.176978°N Longitude: 107.804020°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;

Go Left (South-westerly) which is straight, following along WPX W Lybrook Unit #738H proposed access for 1267.1' to fork in proposed access;

Go Right (South-westerly) which is straight for 2491.4' along WPX W Lybrook Unit #740H proposed access to staked #740H location;

Go Straight (Westerly) proceeding through staked #740H location for 283.3' to proposed access on west edge of staked location;

Go Straight (Southerly) following along WPX W Lybrook Unit #740H proposed access for an additional 3688.2' to edge of staked WPX KWU Remote #2 Facilities Pad, from which go Straight (Southerly) continuing for an additional 2058.2' to staked WPX KWU #788H location.