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 <u>3160-3</u> APD form.

Operator Signature Date: 12/20/20/6 Well information; _, Well Name and Number_ Combeto wash Unit 772H Operator //

API# 30 - 045-35825, Section 28, Township 23 NS, Range _ 9 EN

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.

-15.201 Date

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) UNITED STATES DEPARTMENT OF THE BURE ALL OF LAND, MAN	FORM OMB N Expires C 5. Lease Serial No. NOG14041965	APPROVED to. 1004-0137 Detober 31, 2014				
APPLICATION FOR PERMIT TO	6. If Indian, Allotee EASTERN NAVAJ	or Tribe Name O				
la. Type of work:	ER			7 If Unit or CA Agree /1/KIMBETO WAS	ement, Name and No. H UNIT / NMNM13525	
lb. Type of Well: 🔽 Oil Well 🔲 Gas Well 💭 Other	Sir	gle Zone 🗹 Multi	ple Zone	8. Lease Name and KWU 772H	Well No.	
2. Name of Operator WPX ENERGY LLC			and Side	9. API Well No. 30-04	5-35825	
3a. Address 720 S Main Aztec NM 87410	3b. Phone No. (505)333-1	(include area code) 822	() · · · ·	10. Field and Pool, or KWU / BASIN MAN	Exploratory NCOS	
 Location of Well (Report location clearly and in accordance with an At surface NENW / 181 FNL / 2397 FWL / LAT 36.2046 At proposed prod. zone NWNE / 444 FNL / 2022 FEL / LAT 	ty State requirem 63 / LONG -1 Γ 36.218351	ents.*) 107.794937 / LONG -107.8100)93	11. Sec., T. R. M. or B SEC 28 / T23N / R	lk. and Survey or Area 9W / NMP	
 Distance in miles and direction from nearest town or post office* 37.8 miles 				12. County or Parish SAN JUAN	13. State NM	
 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 a 160	cres in lease	17. Spacir 960	ng Unit dedicated to this	OIL CONS. DIV DIS	
 Distance from proposed location* to nearest well, drilling, completed, 181 feet applied for, on this lease, ft. 	19. Proposed Depth 20 4464 feet / 11092 feet F		20. BLM/ FED: U	WBIA Bond No. on file JUN 05 UTB000178 / IND: B001576		
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6534 feet	22. Approxim 12/01/201	nate date work will sta 6	art*	23. Estimated duration 30 days		
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office). 	Lands, the	 Bond to cover Item 20 above). Operator certifi Such other site 	the operation cation specific inf	ons unless covered by an ormation and/or plans as	existing bond on file (see s may be required by the	
25. Signature	Name	(Printed/Typed)			Date	
(Electronic Submission)	Lacey	Granillo / Ph: (50	5)333-181	6	12/20/2016	
Permitting Tech III Approved by (Signature)	Name	(Printed/Typed)			Date ////	
Title AFM	Office	INGTON				
Application approval does not warrant or certify that the applicant hole conduct operations thereon. Conditions of approval, if any, are attached.	ds legal or equi	able title to those rig	hts in the sul	bject lease which would e	entitle the applicant to	
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a c States any false, fictitious or fraudulent statements or representations as	to any matter w	erson knowingly and ithin its jurisdiction.	willfully to r	nake to any department of	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 3165.3 and appeal pursuant to 43 CFR 3165.4		ALV ACT OPE	I'S APPI Ion do Rator	ROVAL OR ACC ES NOT RELIEN FROM OBTAIN	EPTANCE OF THIS /E THE LESSEE AND ING ANY OTHER	
LLING OPERATIONS AUTHORIZED SUBJECT TO COMPLIANCE WITH ACHED "GENERAL REQUIREMENTS"	NMOCE		HORIZA FEDERA	ATION REQUIRE L and Indian	ED FOR OPERATIONS LANDS	

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District I 1525 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

OIL CONSERVATION DIVISION

1220 South St. Francis Drive Santa Fe, NM 87505

Revised August 1, 2011

Form C-102

Submit one copy to Appropriate District Office

AMENDED REPORT

OIL CONS. DIV DIST. 3 WELL LOCATION AND ACREAGE DEDICATION PLAT API Number Pool Code Pool Name IUN 1 3 2017 30-045-35825 97232 BASIN MANCOS Well Number Property Code Property Name KIMBETO WASH UNIT 772H 316144 OGRID NO Elevation Operator Name WPX ENERGY PRODUCTION, LLC 120782 6534 ¹⁰ Surface Location UL or lot no eet from the Section Lot Ide North/South Line Feet from the East/West line 200 С 28 23N 9W NORTH 2397 WEST 181 SAN JUAN ¹¹ Bottom Hole Location If Different From Surface UL or lot no Range Lot Idn North/South lin Section Feet from the Feet from the East/West line County 20 23N NORTH 2022 EAST SAN JUAN 9W R 444 4 Consolidation Code Order No Dedicated Joint or Infill Section 20 Entire R-14084 Section 21 960.00 W/2 -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 (RECORD) 589 *18 W 2640.66 589 *12 '38 'W 2641.03 (MEASURED) (RECORD) NB9 *58 W 2646.60 (RECORD) S87 *29 w 2748.24* S87 *24 *01 * 2747.81 (MEASURED) (RECORD) N87 *19 W 2523.50 S89 *57 '31 'W 2646.38 (MEASURED) NB7 "23 18 W 2622.17" (MEASURED) 17 OPERATOR CERTIFICATION "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 hest 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 agregement of a completely pooling order hereform energy by the division. 6/12/17 444 POINT-OF-ENTRY 398' FSL 2293' FWL SEC 21, T23N, R9W LAT: 36,206239 'N LONG: 107.794646 'W DATUM: NAD1927 T (MEASUPED) 02 *56 '56 'W 2492.14 NO *43 W 2578.62 ' (PECOPD) 98 2022 05 E 2643.5 (RECORD) " (MEASURED) LAT: 36.206253 N LONG: 107.795261 W DATUM: NAD1983 2 1 20N 5279.23 20 21 NAME WE OTH Date Signatur (MEASURED) 1 12 15 °E 2668.58 10 43 N 2578.62 (Record) Lacey Granito END-OF-LATERAL 444 FNL 2022 FEL SEC 20, T23N, R9W LAT: 36.218338 N LONG: 107.809478 W M.82. 52 Printed Nam "53 W 2644. lacey.granillo@wpxenergy.com 000 82 E-mail Address DATUM: NAD1927 2 "SURVEYOR CERTIFICATION 380 LAT: 36.218351 "N LONG: 107.810093 "W DATUM: NAD1983 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. 2 2 101 2293 NO9"24.9W 566.5" 398 (MEASURED) 589 *15 *12 * 2632.80 589 *18 * 2633.40 * (RECORD) (MEASURED) NB9 *51 *55 *N 2680.65 NB9 *49 W 2682.24 * (RECORD) IBI' TO (MEASURED) S89 *35 '09 'W 2615.54 S89 *37 'W 2616.24 (RECORD) (MEASURED) 7 * 4 * 19 * E 2641.36 VO * 36 E 2640.99 * (RECORD) Date Revised: JUNE 12, 2017 Survey Date: OCTOBER 2, 2015 2341 88 5 R (MEASURED) NO "05'42'E 2642. 2651 NO 12 E 2641 Signature and Seal of Professional Surveyor EDWARDS (MEASURED) 589 '54'27'W 2681.77' OS E JASON C. S89 *57 W 2679.60 (RECORD) MEXICO 2 2 JEN . 2 28 29 HESTER AND FESSION & MEYOH SURFACE LOCATION 181' FNL 2397' FWL SEC 28, T23N, R9W LAT: 36.204650 'N LONG: 107.794322 'W DATUM: NAD1927 (MEASURED) 3. 36 20 °E 2638.78 NO "36 E 2640.99" (RECORD) (MEASURED) 08'14'E 2624.64 NO "15 E 2624.16" *19 W 2620.86 (RECORD) LAT: 36.204663 "N LONG: 107.794937 "W 2 8 2 DATUM: NAD1983 9

(MEASURED) \$89 *43 57 W 2635.90 (MEASURED) 589 *42 15 W 2634.91 SB9 *44 W 2634.39' (RECORD) S89 *44 W 2634.39 ' (RECORD)

ASON

Certificate Number

DWARDS

15269

16

(MEASURED) 02'33'E 2643.99

2

(MEASURED) *55:41"W 2643.39

2

2651.53

MEAS (MEAS)

(MEASURED) 21'30'W 2621.01

8

(MEASURED) 589 "59 '40 W 2638.31

S89 "59 W 2640.00" (RECORD)

(MEASURED) 589 "36 53 "W 2633.60"

S89 *37 W 2633.40 (RECORD)



WPX Energy

Operations Plan

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

Date:	December 13, 2016	Field:	Basin Mancos
Well Name:	KWU #772H	Surface:	
SH Location:	NENW Sec 28 23N-09W	Elevation:	6534' GR
BH Location:	NWNE Sec 20 23N-09W	Minerals:	

Measured Depth: 11,092.14'

I. <u>GEOLOGY:</u> SURFACE FORMATION - NACIMIENTO

		<u> </u>			
NAME	MD	TVD	NAME	MD	TVD
			a market sector		
OJO ALAMO	72	72	POINT LOOKOUT	3253	3235
KIRTLAND	192	192	MANCOS	3374	3355
PICTURED CLIFFS	772	772	GALLUP	3721	3700
LEWIS	900	899	KICKOFF POINT	3,778.63	3,757.09
CHACRA	1165	1162	TOP TARGET	4648	4424
CLIFF HOUSE	2223	2213	LANDING POINT	4,884.10	4,467.00
MENEFEE	2237	2226	BASE TARGET	4,884.10	4,467.00
			TD	11,092.14	4,464.00

A. FORMATION TOPS (KB)

B. MUD LOGGING PROGRAM: Mudlogger on location from surface csg to TD.

C. LOGGING PROGRAM: LWD GR from surface casing to TD.

D. <u>NATURAL GAUGES</u>: 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. <u>BOP TESTING:</u> While drill pipe is in use, the pipe rams and the blind rams will be function tested once each trip. The anticipated reservoir is expected to be less than 1300 psi, so the BOPE will be tested to 250 psi (Low) for 5 minutes and 1500 psi (High) for 10 minutes. Pressure test surface casing to 600 psi for 30 minutes and intermediate casing to 1500 psi for 30 minutes. Utilize a BOPE Testing Unit with a recording chart and appropriate test plug for testing. The drum brakes will be inspected and tested each tour. All tests and inspections will be recorded in the tour book as to time and results.

III. MATERIALS

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"	4,884.10'	7"	23 LBS	J-55 or equiv	LTC
PRODUCTION	6.125"	4734.1' - 11,092.14'	4.5"	11.6 LBS	P-110 or equiv	LTC
TIE BACK	6.125"	Surf 4734.1'	4.5"	11.6 LBS	P-110 or equiv	LTC

A. CASING PROGRAM:

B. FLOAT EQUIPMENT:

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

2. <u>INTERMEDIATE CASING:</u> 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. A 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.

3. <u>PRODUCTION LINER</u>: 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. CEMENTING:

(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.IntermediateSTAGE 1: Spacer #1: 20 bbl (112 cuft) Chemwash. Lead Cement: 88 bbls, 251 sks, (494
cuft), 12.3 ppg @ 1.97 cuft/sk yield. Tail Cement: 86 bbls, 372 sks, (484 cuft), 13.5 ppg @
1.3 cuft/sk yield. Displacement: Displace w/ +/- 192 bbl Drilling mud or water.
Total Cement: 174 bbls, 623 sks, (978 cuft)STAGE 2: Spacer #1: 20 bbl (112 cuft) Chemwash. Lead Cement: 18 bbls, 52 sks, (102
cuft), 12.3 ppg @ 1.97 cuft/sk yield. Tail Cement: 16 bbls, 78 sks, (90 cuft), 13.5 ppg @
1.3 cuft/sk yield. Displacement: Displace w/ +/- 42 bbl Drilling mud or water.
Total Cement: 34 bbls, 131 sks, (192 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 (623 sx /847 cuft /151 bbls). Tail Spacer: 20 BBL of MMCR. Displacement: Displace w/ +/- 140 bbl Fr Water. Total Cement (623 sx /847bbls). I. COMPLETION

A. CBL

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.

• Although this horizontal well will be 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.

NOTE:

Proposed Operations:

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 2309-28C WLU-KWU Kimbeto Wash UT #774H - Slot A1

Wellbore #1

Plan: Design #2 27Sept16 sam

Standard Planning Report

27 September, 2016

WPX

Planning Report

Database; Company: Project: Site: Well: Well: Wellbore: Design:	COMF WPX T23N 2309- Kimbe Wellb Desig	PASS Energy R9W 28C WLU-KWU ato Wash UT #7 ore #1 n #2 27Sept16	J 174H sam		Local Co- TVD Refer MD Refer North Ref Survey Ca	ordinate Refe rence: ence: erence: alculation Met	rence: \	Well Kimbeto Wa GL @ 6534.00us GL @ 6534.00us True Minimum Curvatu	ush UT #774H ft (Original W ft (Original W ure	l (A1) - Slot A1 ell Elev) ell Elev)
Project	T23N F	89W	20 - 20 - 20 		23 - 54 ×					
Map System: Geo Datum:	US State NAD 192	e Plane 1927 (8 27 (NADCON C	Exact solution)		System Dat	tum:	Me	an Sea Level		
Map Zone:	New Me	xico West 3003								
Site	2309-2	8C WLU-KWU								
Site Position:			Northi	ng:	1,893	,736.25 usft	Latitude:			36.204650
From:	Ma	p	Eastin	g:	511	,489.39 usft	Longitude:			-107.794390
Position Uncert	ainty:	0.0	0 usft Slot R	adius:		13.200 in	Grid Converg	ence:		0.02 °
Well	Kimbet	o Wash UT #77	4H - Slot A1				there is a second se		******	
Well Position	+N/-S	0.	00 usft No	rthing:		1.893.736.23	usft Lati	tude:		36.204650
	+E/-W	-39	83 usft Ea	stina:		511,449,56	usft Lon	aitude:		-107,794525
Position Uncort	alaty	0.	00 usft Ma	liboad Elevati		0.00	usft Gro	und Level		6 534 00 usft
T OSIGON ONCON	unity	0.				0.00				0,007.00 001
magnetics	·····	IGRF2015	Sample	2/17/2015	(°)	9.36	(°) 62.89	Field (49,885
Design	Design	#2 27Sept16 s	am		ii li					
Audit Notes:										
Version:			Phase	: Р	LAN	Tie	on Depth:		0.00	
Vertical Section		1	epth From (TV	D)	+N/-S	+	E/-W	Dire	ction	
			0.00		0.00	0	.00	30	9.31	1 . 1
Plan Sections	-						2			
Why Course							1.1111			
Measured			Vertical	, · · · · ·	11	Dogleg	Build	Turn	117.9.9 A.	And the Real
Depth (usft)	Inclination (°)	Azimuth (bearing)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Rate (*/100usft)	Rate (°/100usft)	Rate (°/100usft)	(°)	Target
					1.					
0.00	0.00	0.00	0.00	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	
1,711.81	24.24	172.08	1,676.00	-250.09	34.78	2.00	2.00	0.00	172.08	
3,769.11	24.24	172.08	3,551.97	-1,086.57	151.11	0.00	0.00	0.00	0.00	
4,658.94	60.00	315.03	4,307.29	-976.29	-146.07	9.00	4.02	16.06	148.01	Start 60 Tan #774H
4,718.94	60.00	315.03	4,337.29	-939.53	-182.79	0.00	0.00	0.00	0.00	End 60 Tan #774H
4,882.12	74.69	315.03	4,399.98	-833.27	-288.93	9.00	9.00	0.00	0.00	
5,051.54	89.93	315.03	4,422.58	-714.84	-407.23	9.00	9.00	0.00	0.00	POE #774H
13,185.55	89.90	315.03	4,434.00	5,039.96	-6,155.64	0.00	0.00	0.00	-176.10	BHL #774H

WPX

Planning Report

Database:	COMPASS	Local Co-ordinate Reference:	Well Kimbeto Wash UT #774H (A1) - Slot A	1-1-1
Company:	WPX Energy	TVD Reference:	GL @ 6534.00usft (Original Well Elev)	
Project:	T23N R9W	MD Reference:	GL @ 6534.00usft (Original Well Elev)	
Site:	2309-28C WLU-KWU	North Reference:	True	
Well:	Kimbeto Wash UT #774H	Survey Calculation Method:	Minimum Curvature	
Wellbore:	Wellbore #1			
Design:	Design #2 27Sept16 sam			e.

Planned Survey

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	
Start Build 2	2.00									
1,000.00	10.00	172.08	997.47	-43.11	5.99	-31.95	2.00	2.00	0.00	
1,500.00	20.00	172.08	1,479.82	-1/1.12	23.80	-126.82	2.00	2.00	0.00	
1,711.81	24.24	172.08	1,676.00	-250.09	34.78	-185.35	2.00	2.00	0.00	
Hold 24.24 I	nclination									
2,000.00	24.24	172.08	1,938.78	-367.27	51.08	-272.18	0.00	0.00	0.00	
2,500.00	24.24	172.08	2,394.71	-570.56	79.35	-422.85	0.00	0.00	0.00	
3,000.00	24.24	172.08	2,850.64	-773.85	107.62	-573.51	0.00	0.00	0.00	
3,500.00	24.24	172.08	3,306.57	-977.15	135.89	-724.17	0.00	0.00	0.00	
3,769.11	24.24	172.08	3,551.97	-1,086.57	151.11	-805.26	0.00	0.00	0.00	
Start Build D	DLS 9.00 TFO 14	8.01								
4,000.00	12.56	231.88	3,772.34	-1,149.69	137.74	-834.91	9.00	-5.06	25.90	
4,500.00	46.24	310.10	4,212.10	-1,062.40	-53.05	-631.99	9.00	6.74	15.65	
4,658.94	60.00	315.03	4,307.29	-976.29	-146.07	-505.46	9.00	8.66	3.10	
Hold 60.00 I	nclination									
4,718.94	60.00	315.03	4,337.29	-939.53	-182.79	-453.76	0.00	0.00	0.00	
Start Build D	OLS 9.00 TFO 0.0	00								
4,882.12	74.69	315.03	4,399.98	-833.27	-288.93	-304.33	9.00	9.00	0.00	
Start DLS 9.	00 TFO 0.00						and the state			
5,000.00	85.30	315.03	4,420.44	-751.26	-370.85	-188.99	9.00	9.00	0.00	
5,051.00	89.89	315.03	4,422.58	-715.22	-406.85	-138.30	9.00	9.00	0.00	
7"										
5,051.54	89.93	315.03	4,422.58	-714.84	-407.23	-137.76	9.00	9.00	0.00	
POE at 89.93	3 Inc 315.03 Deg									
5,500.00	89.93	315.03	4,423.10	-397.55	-724.16	308.46	0.00	0.00	0.00	
6,000,00	89.93	315.03	4,423.69	-43.79	-1.077.51	805.97	0.00	0.00	0.00	
6,500.00	89.93	315.03	4,424.30	309.96	-1,430.86	1,303.48	0.00	0.00	0.00	
7,000.00	89.93	315.03	4,424.92	663.71	-1,784.21	1,800.98	0.00	0.00	0.00	
7,500.00	89.93	315.03	4,425.56	1,017.47	-2,137.57	2,298.49	0.00	0.00	0.00	
8,000.00	89.92	315.03	4,426.22	1,371.22	-2,490.92	2,796.00	0.00	0.00	0.00	
8,500.00	89.92	315.03	4,426.90	1,724.97	-2,844.28	3,293.50	0.00	0.00	0.00	4
9,000.00	89.92	315.03	4,427.59	2,078.72	-3,197.63	3,791.01	0.00	0.00	0.00	
9,500.00	89.92	315.03	4,428.29	2,432.47	-3,550.99	4,288.52	0.00	0.00	0.00	
10,000.00	89.92	315.03	4,429.01	2,786.22	-3,904.35	4,786.03	0.00	0.00	0.00	
10,500.00	89.91	315.03	4,429.75	3,139.96	-4,257.71	5,283.53	0.00	0.00	0.00	
11,000.00	89.91	315.03	4,430.51	3,493.71	-4,611.07	5,781.04	0.00	0.00	0.00	
11,500.00	89.91	315.03	4,431.28	3,847.46	-4,964.43	6,278.55	0.00	0.00	0.00	
12,000.00	89.91	315.03	4,432.07	4,201.20	-5,317.79	6,776.06	0.00	0.00	0.00	
12,500.00	89.91	315.03	4,432.87	4,554.95	-5,671.15	7,273.57	0.00	0.00	0.00	
13,000.00	89,91	315.03	4,433.09	4,908.69	-0,024.51	1,771.07	0.00	0.00	0.00	
13,185.55	89.90	315.03	4,434.00	5,039.96	-6,155.64	7,955.70	0.00	0.00	0.00	
13185.55 Me	asured depth									

WPX

Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	COMPASS WPX Energy T23N R9W 2309-28C WL Kimbeto Wasl Wellbore #1 Design #2 27	.U-KWU h UT #774H Sept16 sam			Local Co-orn TVD Referen MD Referen North Referen Survey Calc	dinate Reference: ice: ence: unce: ulation Method:	Well Kimbe GL @ 6534 GL @ 6534 True Minimum C	eto Wash UT #774H (A 4.00usft (Original Well 4.00usft (Original Well Curvature	1) - Slot A1 Elev) Elev)
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 #774H - plan hits target o - Point	0.00 center	0.00	4,307.29	-976.29	-146.07	1,892,759.88	511,303.88	36.201968	-107.795020
End 60 Tan #774H	0.00	0.00	4,337.29	-939.53	-182.79	1,892,796.63	511,267.15	36.202069	-107.795145

- Point					 		
Casing Points				· · · · · · · · · · · · · · · · · · ·			
	Measured	Vertical			Casing	Hole	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
L. C. M.	Depth	Depth			 Diameter	Diameter	
line al	(usft)	(usft)		Name	(in)	(in)	
	320.00	320.00	9 5/8"		9.625	12.250	
	5 051 00	4 422 58	7"		7 000	8 750	

-407.23

-6,155.64

1,893,021.23

1,898,773.73

511,042.62

505,291.91

Plan Annotations Vertical Local Coordinates Measured Depth Depth +N/-S +E/-W (usft) (usft) (usft) (usft) Comment 500.00 500.00 0.00 0.00 Start Build 2.00 1,676.00 1,711.81 -250.09 34.78 Hold 24.24 Inclination Start Build DLS 9.00 TFO 148.01 3,551.97 -1,086.57 3,769.11 151.11 4,658.94 4,307.29 -976.29 -146.07 Hold 60.00 Inclination 4,718.94 4,337.29 -939.53 -182.79 Start Build DLS 9.00 TFO 0.00 4,882.12 4,399.98 -833.27 -288.93 Start DLS 9.00 TFO 0.00 5,051.54 4,422.58 -407.23 -714.84 POE at 89.93 Inc 315.03 Deg 13,185.55 4,434.00 5,039.96 -6,155.64 13185.55 Measured depth

- plan hits target center

- plan hits target center

- plan hits target center

0.00

0.00

0.00

4,422.58

0.00 4,434.00

-714.84

5.039.96

- Point POE #774H

- Point

BHL #774H

-107.795906

-107.815394

36.202686

36.218494



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 772H/774H and W Lybrook Unit 736H/737H 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 throughout the entirety of the project with exception to the southeastern most corner of the construction buffer zone. As such, excavated soils during construction of the well pad, access roads, and well connect pipelines would consist of native borrow and subsoils from the Blancot –Notal association, gently sloping soil map unit. A brief description of this soil can be found below.

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 at the southeastern most corner of the construction buffer zone. This particular corner of the well pad will require a fill of approximately 6 feet. The construction buffer zone was expanded to 100 feet along the south and east edges of the well pad in order to accommodate the necessary room for a silt trap and topsoil storage within these badland soils. As a result, the 50-foot construction zone along the north and west edges of the well pad were eliminated.

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).

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



