

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

Ken McQueen
Cabinet Secretary

Matthias Sayer
Deputy Cabinet Secretary

Heather Riley, Division Director
Oil Conservation Division



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

Operator Signature Date: 2/13/17

Well information:

Operator WPX Well Name and Number Kilubeto Wash Unit #7904

API# 30-045-35835 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
- 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.

[Signature]
NMOCD Approved by Signature

12-19-18
Date

*See sundry for operator change.
APD Held for HZ Rule change & correct C-102

AUG 09 2017

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NOG14031935
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name EASTERN NAVAJO
2. Name of Operator WPX ENERGY LLC		7. If Unit or CA Agreement, Name and No. KIMBETO WASH UNIT / NMNM135255A
3a. Address 720 S Main Aztec NM 87410		8. Lease Name and Well No. KWU 790H
3b. Phone No. (include area code) (505)333-1822		9. API Well No. 30-045-35835
4. Location of Well (Report location clearly and in accordance with any State requirements *) At surface SESE / 259 FSL / 247 FEL / LAT 36.176974 / LONG -107.804088 At proposed prod. zone SESE / 150 FSL / 449 FEL / LAT 36.191048 / LONG -107.822494		10. Field and Pool, or Exploratory KWU / BASIN MANCOS GAS POOL
11. Distance in miles and direction from nearest town or post office* 37.8 miles		11. Sec., T. R. M. or Blk. and Survey or Area SEC 32 / T23N / R9W / NMP
12. County or Parish SAN JUAN	13. State NM	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 20 feet	16. No. of acres in lease 160	17. Spacing Unit dedicated to this well 1120.41
18. Distance from proposed location* to nearest well, drilling, completed, 247 feet applied for, on this lease, ft.	19. Proposed Depth 4403 feet / 11945 feet	20. BLM/BIA Bond No. on file FED: UTB000178 / IND: B001576
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6636 feet	22. Approximate date work will start* 04/01/2017	23. Estimated duration 30 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. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification |
| 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). | 6. Such other site specific information and/or plans as may be required by the BLM. |

25. Signature (Electronic Submission)	Name (Printed/Typed) Lacey Granillo / Ph: (505)333-1816	Date 02/13/2017
Title Permitting Tech III		
Approved by (Signature) <i>[Signature]</i>	Name (Printed/Typed) AFM	Date 8/3/17
Title 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)

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

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"

NMOCD AV

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

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised August 1, 2011

Submit one copy to
Appropriate District Office

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

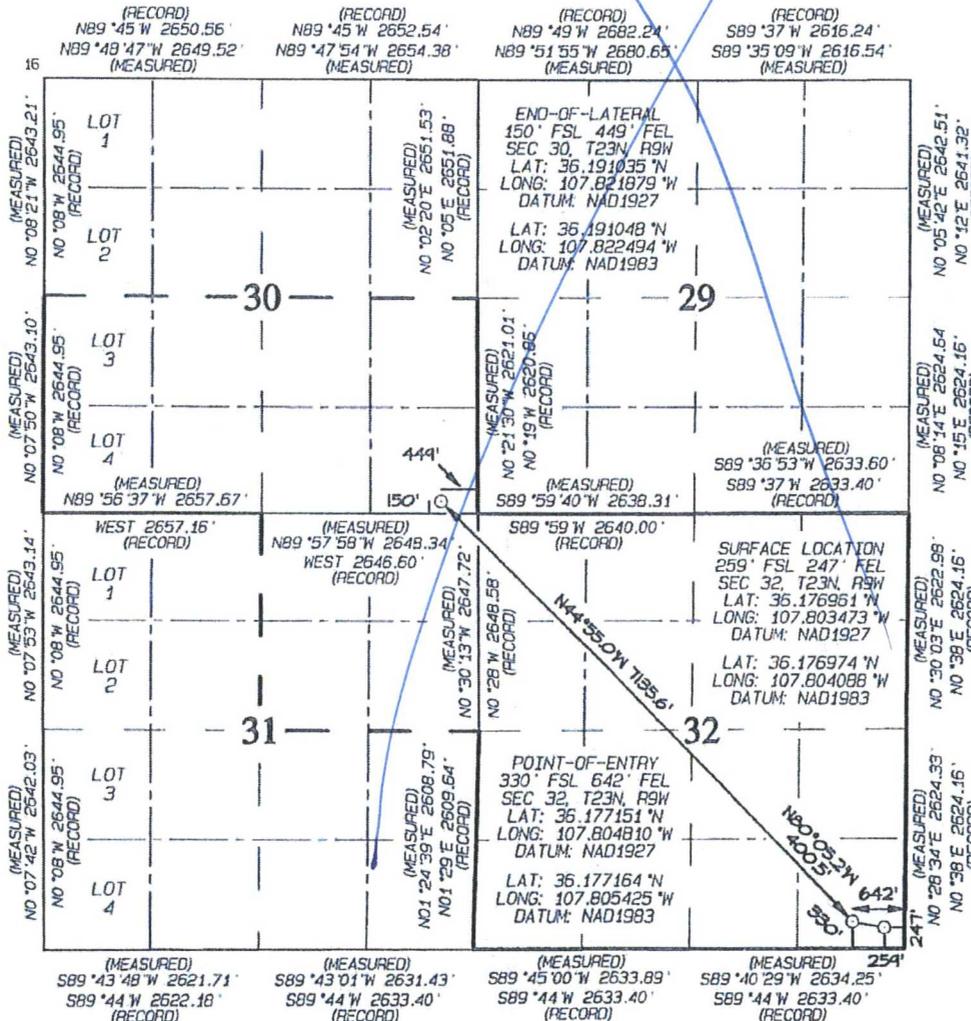
*API Number 30-045-35835		*Pool Code 97232	*Pool Name BASIN MANCOS GAS POOL
*Property Code 316144	*Property Name KWU		*Well Number 790H
*GRID No. 120782	*Operator Name WPX ENERGY PRODUCTION, LLC		*Elevation 6636'

10 Surface Location									
U. or lot no.	Section	Township	Range	Lot	Feet from the	North/South line	Feet from the	East/West line	County
P	32	23N	9W		259	SOUTH	247	EAST	SAN JUAN

11 Bottom Hole Location If Different From Surface									
U. or lot no.	Section	Township	Range	Lot	Feet from the	North/South line	Feet from the	East/West line	County
P	30	23N	9W		150	SOUTH	449	EAST	SAN JUAN

12 Dedicated Acres 1120.41	S/2 - Section 30 NE/4 - Section 31 Entire Section 32	13 Joint or In-fill	14 Consolidation Code	15 Order No. R-14084
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION
UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A
NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



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

Signature: *Lacey Granillo*
Date: 2-9-17

Printed Name: Lacey Granillo
E-mail Address: lacey.granillo@wpxenergy.com

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

Date Revised: JANUARY 25, 2017
Survey Date: JANUARY 15, 2016

Signature and Seal of Professional Surveyor

JASON C. EDWARDS
NEW MEXICO
REGISTERED PROFESSIONAL SURVEYOR
15269

JASON C. EDWARDS
Certificate Number 15269

* See correct C-102 in Sundry.



WPX Energy

Operations Plan

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

Date: February 8, 2017
Well Name: KWU #790H
SH Location: SESE SEC 32 23N-09W
BH Location: SESE SEC 30 23N-09W
Field: Basin Mancos
Surface:
Elevation: 6636' GR
Minerals:

Measured Depth: 11,945.47'

I. GEOLOGY

Surface formation - NACIMIENTO/ OJO ALAMO/ KIRKLAND

A. FORMATION TOPS: (KB)

NAME	MD	TVD	NAME	MD	TVD
OJO ALAMO	40.00	40.00	POINT LOOKOUT	3137.00	3107.00
KIRTLAND	202.00	202.00	MANCOS	3315.00	3282.00
PICTURED CLIFFS	770.00	770.00	GALLUP	3660.00	3621.00
LEWIS	854.00	854.00	KICKOFF POINT	3,607.65	3,569.31
CHACRA	1071.00	1071.00	TOP TARGET	4706.00	4351.00
CLIFF HOUSE	2192.00	2178.00	LANDING POINT	4,809.78	4,360.00
MENEFEE	2210.00	2195.00	BASE TARGET	4,809.78	4,360.00
			TD	11,945.47	4,403.00

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"	4,809.78'	7"	23 LBS	J-55 or equiv	LTC
PRODUCTION	6.125"	4659.78' - 11,945.47'	4.5"	11.6 LBS	P-110 or equiv	LTC
TIE BACK	6.125"	Surf. - 4659.78'	4.5"	11.6 LBS	P-110 or equiv	LTC

B. FLOAT EQUIPMENT:

1. SURFACE CASING:

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

2. INTERMEDIATE CASING:

7" cement nose guide shoe with a self-fill insert float. Place float collar one joint above the shoe. Install (1) centralizer on each of the bottom (3) joints and one standard centralizer every (3) joints to 2,500 ft. Run (1) centralizer at 2,500 ft., 2,300ft., 2,000ft., 1,500 ft., and 1,000 ft. If losses are encountered during the drilling of the intermediate section a DV tool will be utilized and a 2 stage cement job may be planned to ensure cement circ back to surface. The DV tool will be placed 100' above the top of the Chacra formation. If cement is circulated back to surface on the first stage, a 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 opened and a 2nd stage cement job will be pumped.

3. PRODUCTION LINER:

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

C. CEMENT:

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

1. Surface:

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

2. Intermediate:

Spacer #1: 20 bbl (112 cuft) Chemwash. Lead Cement: 83 bbls, 236 sks, (465 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/ +/- 189 bbl Drilling mud or water. Total Cement: 142 bbls, 490 sks, (795 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 (714 sx /971 cuft /173 bbls). Tail Spacer: 20 BBL of MMCR. Displacement: Displace w/ +/-161bbl Fr Water. Total Cement (714 sx /971bbls).

D. COMPLETION:

Run CCL for perforating

A. PRESSURE TEST:

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

B. STIMULATION:

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

C. RUNNING TUBING:

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

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

NOTES:

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

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

WPX Energy

T23N R9W

2309-32P KWU

Kimбето Wash UT #790H

Wellbore #1

Plan: Design #1 23May16 sam

Standard Planning Report

23 May, 2016

WPX
Planning Report

Database:	COMPASS	Local Co-ordinate Reference:	Well Kimbeto Wash UT #790H
Company:	WPX Energy	TVD Reference:	GL @ 6636.00usft (Original Well Elev)
Project:	T23N R9W	MD Reference:	GL @ 6636.00usft (Original Well Elev)
Site:	2309-32P KWU	North Reference:	True
Well:	Kimbeto Wash UT #790H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 23May16 sam		

Project	T23N R9W		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico West 3003		

Site	2309-32P KWU				
Site Position:		Northing:	1,883,657.32 usft	Latitude:	36.176964
From:	Map	Easting:	508,832.81 usft	Longitude:	-107.803405
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in	Grid Convergence:	0.02 °

Well	Kimbeto Wash UT #790H					
Well Position	+N/-S	-1.09 usft	Northing:	1,883,656.22 usft	Latitude:	36.176961
	+E/-W	-20.06 usft	Easting:	508,812.75 usft	Longitude:	-107.803473
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	6,636.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	5/2/2016	9.33	62.86	49,828

Design	Design #1 23May16 sam			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (bearing)
	0.00	0.00	0.00	313.33

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,528.99	10.58	161.92	1,525.99	-46.30	15.12	2.00	2.00	0.00	161.92	
3,607.65	10.58	161.92	3,569.31	-409.10	133.57	0.00	0.00	0.00	0.00	
4,380.29	60.00	315.10	4,224.72	-215.12	-111.40	9.00	6.40	19.83	155.35	Start 60 Tan #790H
4,480.29	60.00	315.10	4,274.72	-153.77	-172.53	0.00	0.00	0.00	0.00	End 60 Tan #790H
4,641.72	74.53	315.10	4,336.94	-48.59	-277.34	9.00	9.00	0.00	0.00	
4,809.78	89.65	315.10	4,360.00	68.98	-394.50	9.00	9.00	0.00	0.00	POE #790H
11,945.47	89.65	315.10	4,403.00	5,123.52	-5,431.14	0.00	0.00	0.00	0.00	BHL #790H

WPX
Planning Report

Database:	COMPASS	Local Co-ordinate Reference:	Well Kimbeto Wash UT #790H
Company:	WPX Energy	TVD Reference:	GL @ 6636.00usft (Original Well Elev)
Project:	T23N R9W	MD Reference:	GL @ 6636.00usft (Original Well Elev)
Site:	2309-32P KWU	North Reference:	True
Well:	Kimbeto Wash UT #790H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 23May16 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	0.00
320.00	0.00	0.00	320.00	0.00	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	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00										
1,500.00	10.00	161.92	1,497.47	-41.37	13.51	-38.22	2.00	2.00	0.00	0.00
1,528.99	10.58	161.92	1,525.99	-46.30	15.12	-42.76	2.00	2.00	0.00	0.00
Hold 10.58 Inclination										
2,000.00	10.58	161.92	1,988.99	-128.50	41.96	-118.70	0.00	0.00	0.00	0.00
2,500.00	10.58	161.92	2,480.49	-215.77	70.45	-199.31	0.00	0.00	0.00	0.00
3,000.00	10.58	161.92	2,971.99	-303.04	98.94	-279.92	0.00	0.00	0.00	0.00
3,500.00	10.58	161.92	3,463.49	-390.31	127.44	-360.53	0.00	0.00	0.00	0.00
3,607.65	10.58	161.92	3,569.31	-409.10	133.57	-377.89	0.00	0.00	0.00	0.00
Start Build DLS 9.00 TFO 155.35										
4,000.00	26.02	308.59	3,950.58	-389.01	75.63	-321.96	9.00	3.94	37.38	0.00
4,380.29	60.00	315.10	4,224.72	-215.12	-111.40	-66.58	9.00	8.93	1.71	0.00
Hold 60.00 Inclination										
4,480.29	60.00	315.10	4,274.72	-153.77	-172.53	19.98	0.00	0.00	0.00	0.00
Start Build DLS 9.00 TFO 0.00										
4,500.00	61.77	315.10	4,284.31	-141.58	-184.68	37.19	9.00	9.00	0.00	0.00
4,641.72	74.53	315.10	4,336.94	-48.59	-277.34	168.39	9.00	9.00	0.00	0.00
Start DLS 9.00 TFO 0.00										
4,809.78	89.65	315.10	4,360.00	68.98	-394.50	334.30	9.00	9.00	0.00	0.00
POE at 89.65 Inc 315.10 Deg - 7"										
5,000.00	89.65	315.10	4,361.15	203.72	-528.76	524.42	0.00	0.00	0.00	0.00
5,500.00	89.65	315.10	4,364.16	557.90	-881.68	1,024.17	0.00	0.00	0.00	0.00
6,000.00	89.65	315.10	4,367.17	912.07	-1,234.60	1,523.93	0.00	0.00	0.00	0.00
6,500.00	89.65	315.10	4,370.19	1,266.24	-1,587.52	2,023.68	0.00	0.00	0.00	0.00
7,000.00	89.65	315.10	4,373.20	1,620.42	-1,940.44	2,523.43	0.00	0.00	0.00	0.00
7,500.00	89.65	315.10	4,376.21	1,974.59	-2,293.36	3,023.18	0.00	0.00	0.00	0.00
8,000.00	89.65	315.10	4,379.22	2,328.76	-2,646.28	3,522.93	0.00	0.00	0.00	0.00
8,500.00	89.65	315.10	4,382.24	2,682.94	-2,999.20	4,022.69	0.00	0.00	0.00	0.00
9,000.00	89.65	315.10	4,385.25	3,037.11	-3,352.12	4,522.44	0.00	0.00	0.00	0.00
9,500.00	89.65	315.10	4,388.26	3,391.28	-3,705.04	5,022.19	0.00	0.00	0.00	0.00
10,000.00	89.65	315.10	4,391.28	3,745.46	-4,057.96	5,521.94	0.00	0.00	0.00	0.00
10,500.00	89.65	315.10	4,394.29	4,099.63	-4,410.88	6,021.69	0.00	0.00	0.00	0.00
11,000.00	89.65	315.10	4,397.30	4,453.80	-4,763.80	6,521.45	0.00	0.00	0.00	0.00
11,500.00	89.65	315.10	4,400.32	4,807.98	-5,116.72	7,021.20	0.00	0.00	0.00	0.00
11,945.47	89.65	315.10	4,403.00	5,123.52	-5,431.14	7,466.44	0.00	0.00	0.00	0.00
TD at 11945.47										

WPX
Planning Report

Database:	COMPASS	Local Co-ordinate Reference:	Well Kimbeto Wash UT #790H
Company:	WPX Energy	TVD Reference:	GL @ 6636.00usft (Original Well Elev)
Project:	T23N R9W	MD Reference:	GL @ 6636.00usft (Original Well Elev)
Site:	2309-32P KWU	North Reference:	True
Well:	Kimbeto Wash UT #790H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 23May16 sam		

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (bearing)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Start 60 Tan #790H - plan hits target center - Point	0.00	0.00	4,224.72	-215.12	-111.40	1,883,441.07	508,701.42	36.176370	-107.803851
End 60 Tan #790H - plan hits target center - Point	0.00	0.00	4,274.72	-153.78	-172.53	1,883,502.39	508,640.27	36.176539	-107.804058
POE #790H - plan hits target center - Point	0.00	0.00	4,360.00	68.98	-394.50	1,883,725.08	508,418.23	36.177151	-107.804810
BHL #790H - plan hits target center - Point	0.00	0.00	4,403.00	5,123.52	-5,431.14	1,888,778.07	503,380.03	36.191035	-107.821879

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
320.00	320.00	9 5/8"	9.625	12.250	
4,809.78	4,360.00	7"	7.000	8.750	

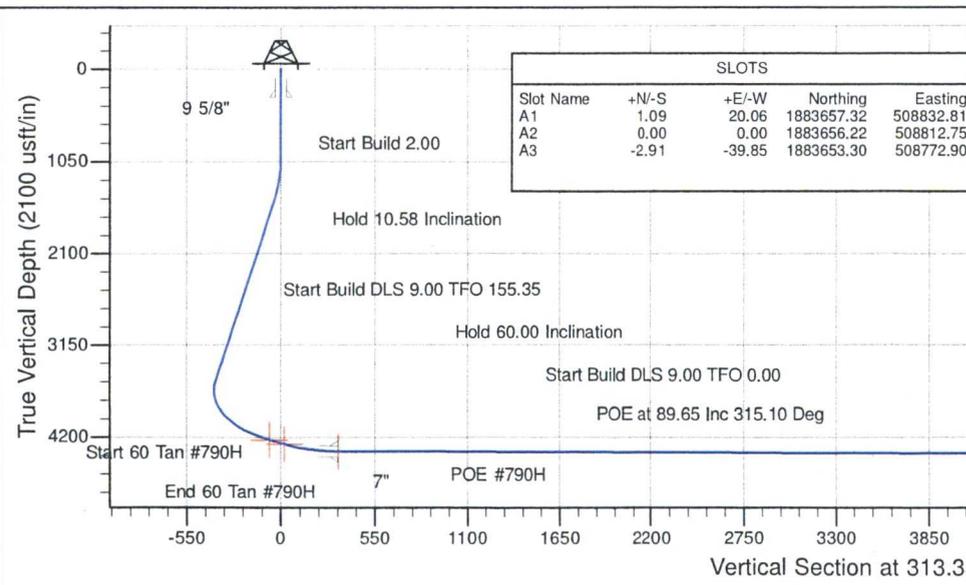
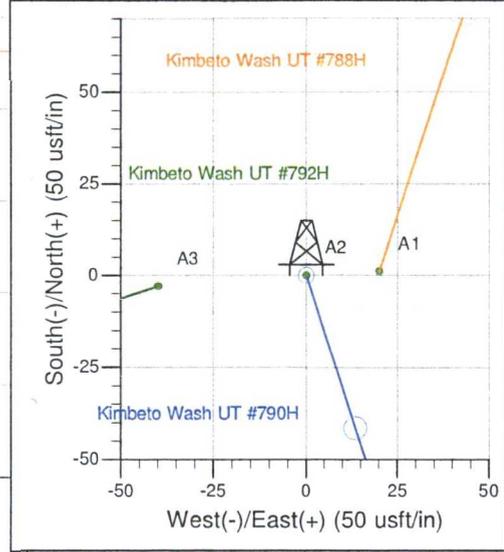
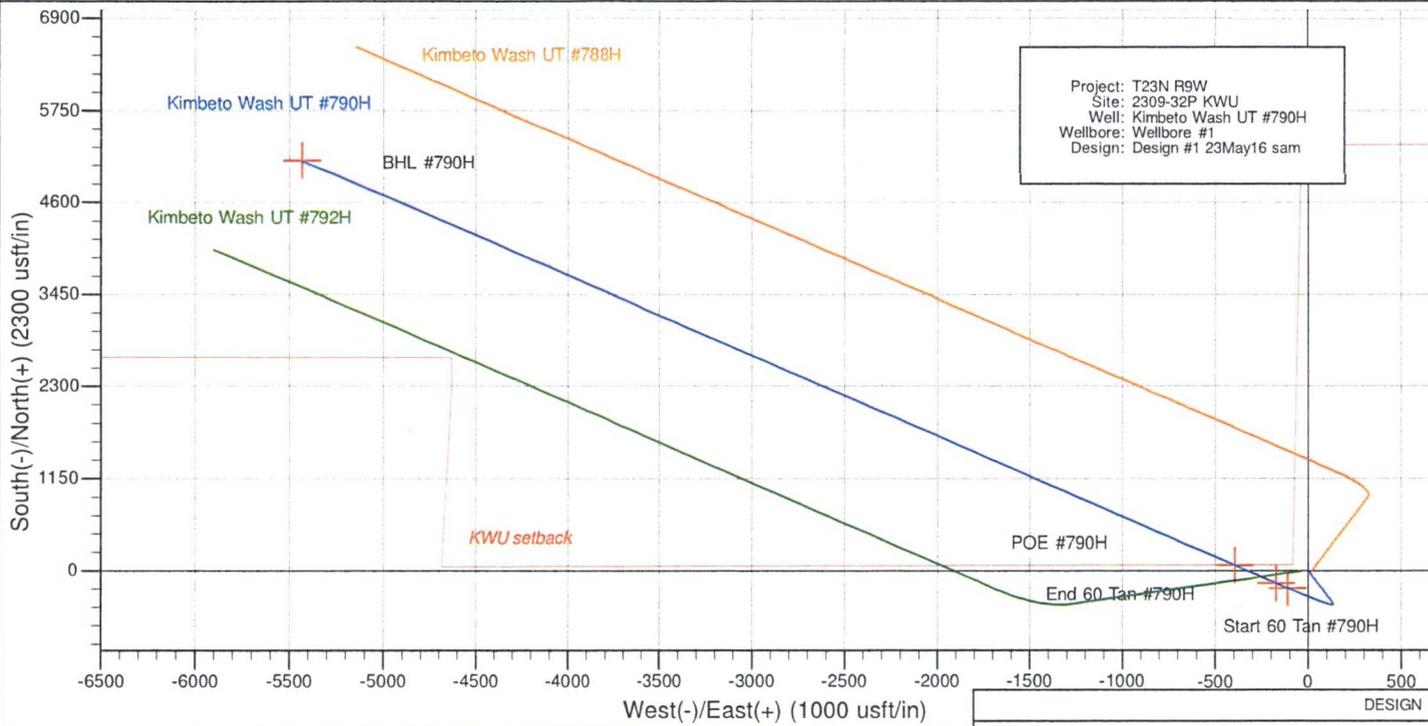
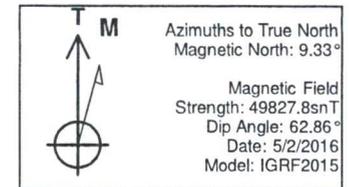
Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
1,000.00	1,000.00	0.00	0.00	Start Build 2.00	
1,528.99	1,525.99	-46.30	15.12	Hold 10.58 Inclination	
3,607.65	3,569.31	-409.10	133.57	Start Build DLS 9.00 TFO 155.35	
4,380.29	4,224.72	-215.12	-111.40	Hold 60.00 Inclination	
4,480.29	4,274.72	-153.77	-172.53	Start Build DLS 9.00 TFO 0.00	
4,641.72	4,336.94	-48.59	-277.34	Start DLS 9.00 TFO 0.00	
4,809.78	4,360.00	68.98	-394.50	POE at 89.65 Inc 315.10 Deg	
11,945.47	4,403.00	5,123.52	-5,431.14	TD at 11945.47	



Well Name: Kimbeto Wash UT #790H
 Surface Location: 2309-32P KWU
 NAD 1927 (NADCON CONUS) , US State Plane 1927 (Exact solution) New Mexico West 3003
 Ground Elevation: 6636.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	1883656.22	508812.75	36.176961	-107.803473	

GL @ 6636.00usft (Original Well Elev)



SLOTS				
Slot Name	+N/-S	+E/-W	Northing	Easting
A1	1.09	20.06	1883657.32	508832.81
A2	0.00	0.00	1883656.22	508812.75
A3	-2.91	-39.85	1883653.30	508772.90

DESIGN TARGET DETAILS									
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape	
Start 60 Tan #790H	4224.72	-215.12	-111.40	1883441.07	508701.42	36.176370	-107.803850	Point	
- plan hits target center									
End 60 Tan #790H	4274.72	-153.78	-172.53	1883502.39	508640.27	36.176539	-107.804058	Point	
- plan hits target center									
POE #790H	4360.00	68.98	-394.50	1883725.08	508418.23	36.177150	-107.804810	Point	
- plan hits target center									
BHL #790H	4403.00	5123.52	-5431.14	1888778.07	503380.03	36.191035	-107.821879	Point	
- plan hits target center									

ANNOTATIONS									
TVD	MD	Inc	Azi	+N/-S	+E/-W	V Sect	Departure	Annotation	
1000.00	1000.00	0.00	0.00	0.00	0.00	0.00	0.00	Start Build 2.00	
1525.99	1528.99	10.58	161.92	-46.30	15.12	-42.76	48.70	Hold 10.58 Inclination	
3569.31	3607.65	10.58	161.92	-409.10	133.57	-377.89	430.35	Start Build DLS 9.00 TFO 155.35	
4224.72	4380.29	60.00	315.10	-215.12	-111.40	-66.58	767.41	Hold 60.00 Inclination	
4274.72	4480.29	60.00	315.10	-153.77	-172.53	19.98	854.01	Start Build DLS 9.00 TFO 0.00	
4336.94	4641.72	74.53	315.10	-48.59	-277.34	168.39	1002.49	Start DLS 9.00 TFO 0.00	
4360.00	4809.78	89.65	315.10	68.98	-394.50	334.30	1168.48	POE at 89.65 Inc 315.10 Deg	
4403.00	11945.47	89.65	315.10	5123.52	-5431.14	7466.44	8304.03	TD at 11945.47	

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

- 1 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 #790H
259' FSL & 247' FEL, Section 32, T23N, R9W, N.M.P.M., San Juan County, NM

Latitude: 36.176974°N Longitude: 107.804088°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 #790H location.

