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 3160-3 APD form.

Operator Signature Date: 3-2-16 Well information;	
Operator Number Will Name and Number Will be to	tim read
API#30.045-35795, Section 19, Township 33(N)S, Range	ge <u> </u>
Conditions of Approval: (See the below checked and handwritten condition Notify Aztec OCD 24hrs prior to casing & cement.	ions)
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 to be shut in or abandoned 	notification on other well
 Regarding the use of a pit, closed loop system or below grade tank, the with the following as applicable: 	operator must comply
 A pit requires a complete C-144 be submitted and approved pri use of the pit, pursuant to 19.15.17.8.A 	or to the construction or
 A closed loop system requires notification prior to use, pursuar 	it to 19.15.17.9.A
 A below grade tank requires a registration be filed prior to the below grade tank, pursuant to 19.15.17 8.C 	construction or use of the
Once the well is spud, to prevent ground water contamination through from the surface, the operator shall drill without interruption through the zones and shall immediately set in cement the water protection string	
Submit Gas Capture Plan form prior to spudding or initiating recomple	tion operations
Regarding Hydraulic Fracturing, review EPA Underground Injection C	ontrol Guidance 84
Oil base muds are not to be used until fresh water zones are cased and of isolation from the oil or diesel. This includes synthetic oils. Oil based is solids must be contained in a steel closed loop system.	
Well-bore communication is regulated under 19.15.29 NMAC. This red Communication to be reported in accordance with 19.15.29.8.	quires well-bore
Charletten- 4.25-2017	
NMOCD Approved by Signature Date	

Some - XTOONERSO 3/5/14 NOO. Form 3160-3

)400001212

FORM APPROVED OMB No. 1004-0137 Expires October 31, 2014 (March 2012) UNITED STATES 5. Lease Serial No. DEPARTMENT OF THE INTERIOR NMNM117577 BUREAU OF LAND MANAGEMENT If Indian, Allotce 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: /1/KIMBETO WASH UNIT / NMNM13525 8. Lease Name and Well No. Oil Well Gas Well Other lb. Type of Well: Single Zone Multiple Zone KWU / 783H 9. API Well No. Name of Operator WPX ENERGY LLC 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory 3a. Address 720 S MAIN AZTEC NM 87410 (505)333-1822 **BASIN MANCOS** Location of Well (Report location clearly and in accordance with any State requirements.*) 11. Sec., T. R. M. or Blk. and Survey or Area At surface LOT 0 / 42 FSL / 480 FEL / LAT 36.20524 / LONG -107.822648 SEC 19 / T23N / R9W / NMP At proposed prod. zone LOT 0 / 750 FNL / 330 FWL / LAT 36.217632 / LONG -107.837915 12. County or Parish 13. State 14. Distance in miles and direction from nearest town or post office* NM SAN JUAN 15. Distance from proposed* 17. Spacing Unit dedicated to this well 16. No. of acres in lease location to nearest 20 feet 1279.75 639,29 OIL CONS. DIV DIST. 3 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* APR 17 2017 to nearest well, drilling, completed, 42 feet FED: UTB000178 applied for, on this lease, ft. 4421 feet / 11235 feet 22 Approximate date work will start* 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 23. Estimated duration 09/01/2016 30 days 6564 feet 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. 3. A Surface Use Plan (if the location is on National Forest System Lands, the 5. Operator certification SUPO must be filed with the appropriate Forest Service Office). Such other site specific information and/or plans as may be required by the 25. Signature Name (Printed/Typed) Date Lacey Granillo / Ph: (505)333-1816 08/02/2016 (Electronic Submission) Title Permitting Tech III Approved by (Signature, Name (Printed/Typed)

Office

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"



District I 1625 N. French Drive, Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 E District II 811 S. First Street, Antesia, 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

639.29

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

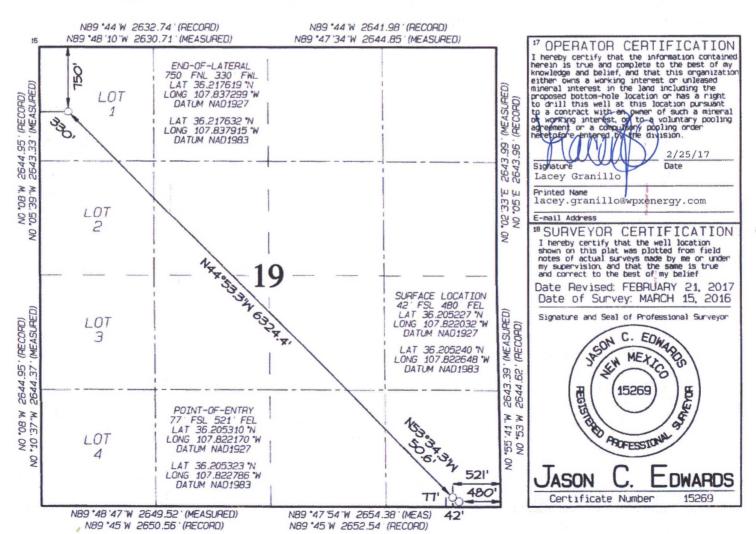
WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number 'Pool Code 'Pool Name

97232 BASIN MANCOS GAS POOL

10 Surface Location Section County LL or lot no Lot Ide Feet from the North/South line East/West line D 480 FAST SAN JUAN 23N 9W 42 SOUTH 19 11 Bottom Hole Location If Different From Surface UL or lot no Section Lat Ide Feet from the North/South line Feet from the East/West line County 23N D 19 QW 1 750 NORTH OFF WEST SAN JUAN 12 Dedicated 13 Joint or Infill 14 Consolidation Code 5 Order No Entire Section 19 R-14084

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





Operations Plan

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

Date:

July 6, 2016

Field:

Basin Mancos

Well Name:

KWU #783H

Surface:

BLM

SH Location:

SESE Sec 19 23N-09W

Elevation: 6564' GR

BH Location:

NWNW Sec 19 23N-09W

Minerals:

FED

Measured Depth: 11,234.98'

I. GEOLOGY

Surface formation - OJO ALAMO/ NACIMIENTO

A. FORMATION TOPS: (GR)

NAME	MD	TVD	NAME	MD	TVD
OJO ALAMO	86	86	POINT LOOKOUT	3226	3153
KIRTLAND	248	248	MANCOS	3409	3328
PICTURED CLIFFS	816	816	GALLUP	3760	3667
LEWIS	900	900	KICKOFF POINT	3,623.14	3,533.15
CHACRA	1117	1117	TOP TARGET	4805	4397
CLIFF HOUSE	2254	2224	LANDING POINT	4,910.63	4,406.00
MENEFEE	2272	2241	BASE TARGET	4,910.63	4,406.00
			TD	11,234.98	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 34" 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"	4,910.63'	7"	23 LBS	J-55 or equiv	LTC
PRODUCTION	6.125"	4760.63' - 11,234.98'	4.5"	11.6 LBS	P-110 or equiv	LTC
TIE BACK	6.125"	Surf 4760.63'	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: 86 bbls, 244 sks, (481 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/ +/- 193 bbl Drilling mud or water. Total Cement: 145 bbls, 499 sks, (812 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 (634 sx /863 cuft /154 bbls). Tail Spacer: 20 BBL of MMCR. Displacement: Displace w/ +/-150bbl Fr Water. Total Cement (634 sx /863bbls).

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:

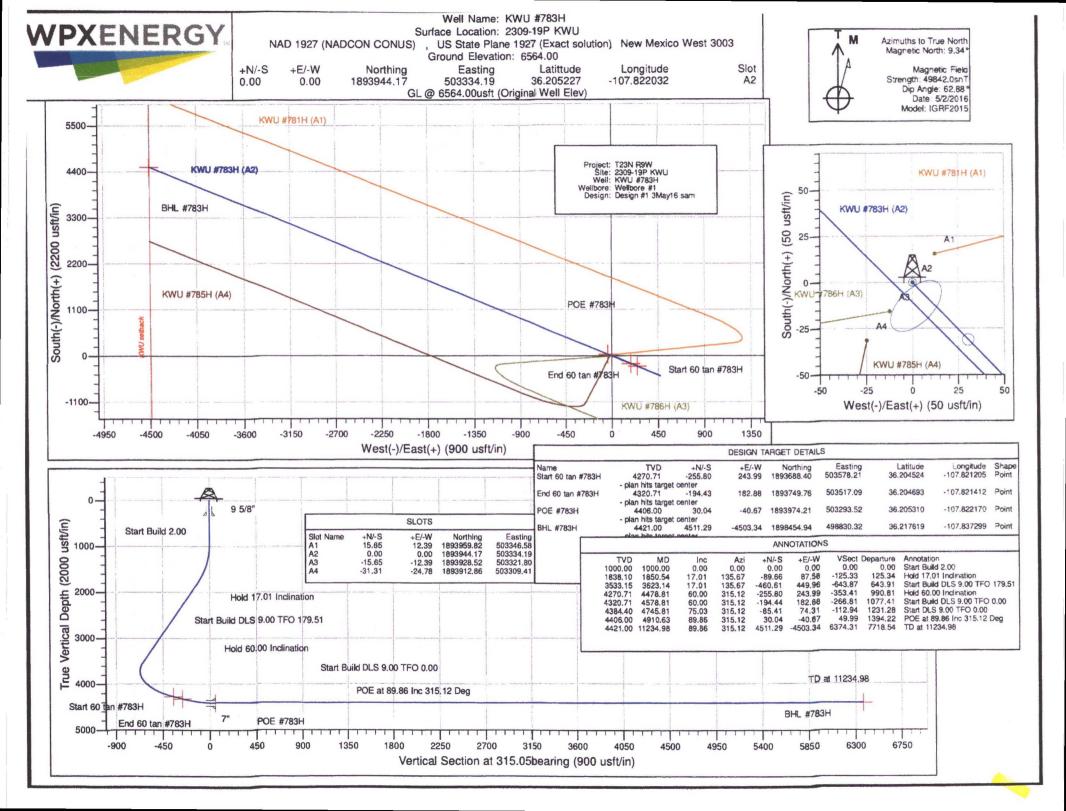
1. <u>Production Tubing:</u> Run 2-7/8", 6.5#, J-55, EUE tubing with a SN on top of bottom joint. Land tubing near Top of Liner.

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 2309-19P KWU KWU #783H - Slot A2

Wellbore #1

Plan: Design #1 3May16 sam

Standard Planning Report

03 May, 2016

WPX

Planning Report

COMPASS Database: Company: **WPX Energy T23N R9W** Project: 2309-19P KWU Site: KWU #783H Well: Wellbore #1 Wellbore: Design #1 3May16 sam Design:

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

Well KWU #783H (A2) - Slot A2 GL @ 6564.00usft (Original Well Elev) GL @ 6564.00usft (Original Well Elev) True

Minimum Curvature

Project **T23N R9W**

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

2309-19P KWU Site

Site Position: From:

Мар

Northing: Easting:

1,893,959.82 usft 503,346.58 usft

Latitude: Longitude:

36.205270 -107.821990

Position Uncertainty: 0.00 usft Slot Radius: 13.200 in **Grid Convergence:** 0.01°

Well KWU #783H - Slot A2

Well Position

+N/-S +E/-W -15.65 usft -12.39 usft Northing: Easting:

1,893,944.17 usft 503,334.19 usft Latitude: Longitude:

36.205227 -107.822032

0.00 usft **Position Uncertainty** Wellhead Elevation: 0.00 usft **Ground Level:** 6,564.00 usft

Wellbore #1 Wellbore Declination **Model Name** Dip Angle Magnetics Sample Date **Field Strength** (") (nT) **IGRF2015** 5/2/2016 9.34 62.88 49,842

Design #1 3May16 sam Design **Audit Notes:** Version: Phase: PLAN Tie On Depth: 0.00 **Vertical Section:** Depth From (TVD) +N/-S +E/-W Direction (usft) (bearing) (usft) (usft) 0.00 0.00 315.05 0.00

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	
1,850.54	17.01	135.67	1,838.10	-89.66	87.58	2.00	2.00	0.00	135.67	
3,623.14	17.01	135.67	3,533.15	-460.61	449.96	0.00	0.00	0.00	0.00	
4,478.81	60.00	315.12	4,270.71	-255.80	243.99	9.00	5.02	20.97	179.51	Start 60 tan #783
4,578.81	60.00	315.12	4,320.71	-194.44	182.88	0.00	0.00	0.00	0.00	End 60 tan #783H
4,745.81	75.03	315.12	4,384.40	-85.41	74.31	9.00	9.00	0.00	0.00	
4,910.63	89.86	315.12	4,406.00	30.04	-40.67	9.00	9.00	0.00	0.00	POE #783H
11,234,98	89.86	315.12	4,421.00	4,511.29	-4,503.34	0.00	0.00	0.00	0.00	BHL #783H

WPX

Planning Report

Database: Company: Project: Site:

Well:

COMPASS WPX Energy **T23N R9W** 2309-19P KWU KWU #783H

Wellbore #1 Wellbore: Design #1 3May16 sam

Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well KWU #783H (A2) - Slot A2

GL @ 6564.00usft (Original Well Elev) GL @ 6564.00usft (Original Well Elev)

Minimum Curvature

ned Survey		e version de la company	Yang and							
Measured			Vertical			Vertical	Dogleg	Build	Turn	
Depth (usft)	inclination (°)	Azimuth (bearing)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Section (usft)	Rate (°/100usft)	Rate (°/100usft)	Rate (°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
320.00	0.00	0.00	320.00	0.00	0.00	0.00	0.00	0.00	0.00	
9 5/8"		i i kanadi i								
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	
Start Bulld 2.										
1,500.00	10.00	135.67	1,497.47	-31.13	30.41	-43.52	2.00	2.00	0.00	
1,850.54	17.01	135.67	1,838.10	-89.66	87.58	-125.33	2.00	2.00	0.00	
Hold 17.01 In	clination									
2,000.00	17.01	135,67	1,981.02	-120.93	118.14	-169.05	0.00	0.00	0.00	
2,500.00	17.01	135.67	2,459.15	-225.57	220.35	-315.32	0.00	0.00	0.00	
3,000.00	17.01	135.67	2,937,27	-330.20	322.57	-461.59	0.00	0.00	0.00	
3,500.00	17.01	135,67	3,415.40	-434.84	424.78	-607.85	0.00	0.00	0.00	
3,623.14	17.01	135.67	3,533.15	-460.61	449.96	-643.87	0.00	0.00	0.00	
Start Build D	LS 9.00 TFO 179									
4,000.00	16.91	314.73	3,904.53	-461.50	449.53	-644.21	9.00	-0.03	47.51	
4,478.81	60.00	315.12	4,270.71	-255.80	243.99	-353.41	9.00	9.00	80.0	
Hold 60.00 In	clination									
4,500.00	60.00	315.12	4,281.31	-242.79	231.04	-335.06	0.00	0.00	0.00	
4,578.81	60.00	315.12	4,320.71	-194.44	182.88	-266.81	0.00	0.00	0.00	
Start Build Di	S 9.00 TFO 0.0	0								
4,745.81	75.03	315.12	4,384.40	-85.41	74.31	-112.94	9.00	9.00	0.00	
Start DLS 9.0	0.00 TFO 0.00									
4,910.63	89.86	315.12	4,406.00	30.04	-40.67	49.99	9.00	9.00	0.00	
POE at 89.86	Inc 315.12 Deg									
4,911.00	89.86	315.12	4,406.00	30.30	-40.93	50,36	0.00	0.00	0.00	
7"										
5,000.00	89.86	315.12	4,406.21	93.37	-103.73	139.36	0.00	0.00	0.00	
5,500.00	89.86	315.12	4,407.40	447.65	-456.54	639.36	0.00	0.00	0.00	
6,000.00	89.86	315.12	4,408.58	801.94	-809.36	1,139.36	0.00	0.00	0.00	
6,500.00	89.86	315.12	4,409.77	1,156.22	-1,162.18	1,639.36	0.00	0.00	0.00	
7,000.00	89.86	315.12	4,410.96	1,510.51	-1,515.00	2,139.35	0.00	0.00	0.00	
7,500.00	89.86	315.12	4,412.14	1,864.80	-1,867.81	2,639,35	0.00	0.00	0,00	
8,000.00	89.86	315.12	4,413.33	2,219.08	-2,220.63	3,139.35	0.00	0.00	0.00	
8,500.00	89.86	315.12	4,414.51	2,573.37	-2,573.45	3,639.35	0.00	0.00	0.00	
9,000.00	89.86	315.12	4,415.70	2,927.65	-2,926.27	4,139.35	0.00	0.00	0.00	
9,500.00	89.86	315.12	4,416.89	3,281.94	-3,279.08	4,639.34	0.00	0.00	0.00	
10,000.00	89.86	315.12	4,418.07	3,636.23	-3,631.90	5,139.34	0.00	0.00	0.00	
10,500.00	89.86	315.12	4,419.26	3,990.51	-3,984.72	5,639.34	0.00	0.00	0.00	
11,000.00	89.86	315.12	4,420.44	4,344.80	-4,337.54	6,139.34	0.00	0.00	0.00	
11,234.98	89.86	315.12	4,421.00	4,511.29	-4,503.34	6,374.32	0.00	0.00	0.00	

WPX

Planning Report

 Database:
 COMPASS

 Company:
 WPX Energy

 Project:
 T23N R9W

 Site:
 2309-19P KWU

 Well:
 KWU #783H

 Wellbore:
 Wellbore #1

 Design:
 Design #1 3May16 sam

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well KWU #783H (A2) - Slot A2 GL @ 6564.00usft (Original Well Elev) GL @ 6564.00usft (Original Well Elev) True Minimum Curvature

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 #783H - plan hits target cent - Point	0.00 ter	0.00	4,270.71	-255.80	243.99	1,893,688.40	503,578.21	36.204524	-107.82120
End 60 tan #783H - plan hits target cent - Point	0.00 ter	0.00	4,320.71	-194.43	182.88	1,893,749.76	503,517.09	36.204693	-107.821412
POE #783H - plan hits target cent - Point	0.00 er	0.00	4,406.00	30.04	-40.67	1,893,974.21	503,293.52	36.205310	-107.822170
BHL #783H - plan hits target cent - Point	0.00 er	0.00	4,421.00	4,511.29	-4,503.34	1,898,454.94	498,830.32	36.217619	-107.837299

Casing Points	387.788					
	Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
	320.00 4,911.00	320.00 4,406.00		9.625 7.000	12.250 8.750	The state of the s

Measur	ed '	Vertical	Local Coor	dinates	
Depth		Depth	+N/-S	+E/-W	
(usft)		(usft)	(usft)	(usft)	Comment
1,000	0.00	1,000.00	0.00	0.00	Start Build 2.00
1,850	.54	1,838.10	-89.66	87.58	Hold 17.01 Inclination
3,623	1.14	3,533.15	-460.61	449.96	Start Build DLS 9.00 TFO 179.51
4,478	.81	4,270.71	-255.80	243.99	Hold 60.00 Inclination
4,578	.81	4,320.71	-194.44	182.88	Start Build DLS 9.00 TFO 0.00
4,745	.81	4,384.40	-85.41	74.31	Start DLS 9.00 TFO 0.00
4,910	.63	4,406.00	30.04	-40.67	POE at 89.86 Inc 315.12 Deg
11,234	.98	4,421.00	4,511,29	-4,503,34	TD at 11234.98

Construction of all project features associated with KWU Remote #1 will 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: (I) the hazard of soil blowing and (2) the hazard of water erosion. (USDA/NRCS 2015).

7. METHODS FOR HANDLING WASTE

A. Cuttings

- 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

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, 7, and 8 in Appendix B for the location of toilets per project).

E. Garbage and other waste material

All garbage and trash will be placed in an enclosed metal trash containment. The trash and garbage will be hauled off site and dumped in an approved landfill, as needed.

F. Hazardous Waste

No chemicals subject to reporting under Superfund Amendments and Reauthorization Act Title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completing of these wells.

Directions from the Intersection of US Hwy 550 & US Hwy 64 in Bloomfield, NM to WPX Energy Production, LLC KWU #783H

42' FSL & 480' FEL, Section 19, T23N, R9W, N.M.P.M., San Juan County, NM

Latitude: 36.205240°N Longitude: 107.822648°W Datum: NAD1983

From the intersection of US Hwy 550 & US Hwy 64 in Bloomfield, NM, travel Southerly on US Hwy 550 for 35.9 miles to Mile Marker 115.7;

Go Right (South-westerly) @ Nageezi Post Office on County Road #7800 for 0.4 miles to 4-way intersection:

Go Straight (South-westerly) exiting paved County Road #7800, continuing on County Road #7820 for 0.6 miles to fork in roadway:

Go Right (South-westerly) which is straight remaining on County Road #7820 for 1.1 miles to a 4-way intersection:

Go Straight (South-westerly) for 3.2 miles to fork in roadway;

Go Left (South-westerly) which is straight for 1.0 miles to begin proposed access on left-hand side of County Road #7820 which continues for 183.5* to staked WPX KWU #783H location.

