### State of New Mexico Energy, Minerals and Natural Resources Department

Susana Martinez

Governor

David Martin
Cabinet Secretary

David R. Catanach, Division Director Oil Conservation Division



Tony Delfin Deputy Cabinet Secretary

NMOCD Approved by Signature

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

Operator Signature Date: 1-26-16 Well information; Well News and Number 12 (2) (4) (4) (4) (4) (4) (4)
Operator 10) PX, Well Name and Number Kinkelo Wash Unit #1114
API# 30-045-35756 Section 17, 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
o Hold C-104 for NSL, NSP, DHC
<ul> <li>Spacing rule violation. Operator must follow up with change of status notification on other well to be shut in or abandoned</li> </ul>
<ul> <li>Regarding the use of a pit, closed loop system or below grade tank, the operator must comply with the following as applicable:</li> </ul>
<ul> <li>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</li> </ul>
<ul> <li>A closed loop system requires notification prior to use, pursuant to 19.15.17.9.A</li> </ul>
<ul> <li>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</li> </ul>
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.

1220 South St. Francis Drive • Santa Fe, New Mexico 87505 Phone (505) 476-3460 • Fax (505) 476-3462 • www.emnrd.state.nm.us/ocd

14

From 3160-3 (September 2001)

### UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

RECEIVED

JAN 2 6 2016

FORM APPROVED OMB No. 1004-0136 Expires January 31, 2004

5.	Lease	Serial	No.

BUREAU OF LAND MANAGEMENT	NMNM (	
APPLICATION FOR PERMIT TO DRILL OR REENTER mington Field Off		Allottee or Tribe Name

	Bureau of La	and Manage	ERICIT	
la. Type of Work: DRILL REEN	ITER		7. If Unit or CA Agreemen	
	ACCOUNT OF THE PARTY OF THE PAR			NMNM-135255
1b. Type of Well: Oil Well Gas Well Other	Single Zone	Itiple Zone	8. Lease Name and Well No KWU #771H	6
2. Name of Operator		4	9. API Well No.	
			30-045-	26756
WPX Energy Production, LLC 3a, Address	3b. Phone No. (include area code)		10. Field and Pool, or Explo	
P.O. Box 640 Aztec, NM 87410	(505) 333-1808		Basin Mancos	
Location of Well (Report location clearly and in accordance with			11. Sec., T., R., M., or Blk.	and Survey or Area
At surface 393' FSL & 1128' FEL SEC 17, 23N 9W			SHL: 17, 23N 9W	
At proposed prod. zone 330' FNL & 2153' FEL SEC 18 23N 9	ew .		BHL: 18, 23N 9W	
				13. State
14. Distance in miles and direction from nearest town or post office			12. County or Parish	
From intersection US Hwy & 550 US Hwy 64 in Bloomfield N 15. Distance from proposed*			San Juan	NM
location to nearest	16. No. of Acres in lease	17. Spacing	g Unit dedicated to this well	
property or lease line, ft. (Also to nearest drig. unit line, if any) 393	2240 0 Agree	1279.88-A	cres OIL CC	ONS. DIV DIST. 3
18. Distance from proposed location*	2240.0 Acres 19. Proposed Depth	20. BLM/B	IA Bond No. on file	DIOI.
to nearest well, drilling, completed,				PR 28 2016
applied for, on this lease, ft.	12571' MD / 4511' TVD	UTB00	0178	1 20 2010
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will	start*	23. Estimated duration	
6561' GR	April 1, 2016		1 month	
	<ol><li>Attachments</li></ol>			
The following, completed in accordance with the requirements of On	shore Oil and Gas Order No.1, shall be a	ttached to this	form:	
Well plat certified by a registered surveyor.	1 4 Pand to assess	the energians	unless sourced by an autotic	a band on Ele (occ
2. A Drilling Plan.	Item 20 above)		unless covered by an existing	g bond on the (see
3. A Surface Use Plan (if the location is on National Forest Syste	em Lands, the 5. Operator certifi			and the same of
SUPO shall be filed with the appropriate Forest Service Office	ce). 6. Such other site authorized office		mation and/or plans as may	be required by the
5. Signature			Date	
MANA TANGALA	Name (Printed/Typed)		1/26/	16
Title Title	Marie E. Jaramillo			
Permit Technician III				/ ,
Approved by (Signature)	Name (Printed/Typed)		Date	1/1/1
XX/IIIauleel	26		5	1/27//6
Title 9/1	Office			1
AFU	FF	0		
Application approval does not warrant or certify that the applicant hol	ds legal or equitable title to those rights	in the subject le	ease which would entitle the ap	oplicant to conduct
perations thereon. Conditions of approval, if any, are attached.				
Fitle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, mak	ra it a grima for any parson knowingly a	nd willfully to	make to any department or an	angu of the United
States any false, fictitious or fraudulent statements or representations a		na winitully to	make to any department of ag	ency of the Officed
(Instructions on reverse)				

WPX Energy Production, LLC, proposes to develop the Basin Mancos formation at the above described location in accordance with the attached drilling and surface use

The well pad surface is under jurisdiction of BLM and is on lease and will be twinned with KWU #768H/769H/770H

This location has been archaeologically surveyed by Western Cultural Resources. Copies of their report have been submitted directly to the BLM.

The new access of 53.9' of BLM is Onlease access road will be built and permitted via the APD.

DRIA new (30477 BLAN on reason well connect pipeline will be built and permitted via the APD.

ARE SUBJECT TO COMPLIANCE WITH

ATTACHED "GENERAL REQUIREMENTS" 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 NMOCD AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS



District I 1625 N. Fgench 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

State of New Mexico Energy, Minerals & Natural Resources Department

Revised August 1, 2011 Submit one copy to Appropriate District Office

Form C-102

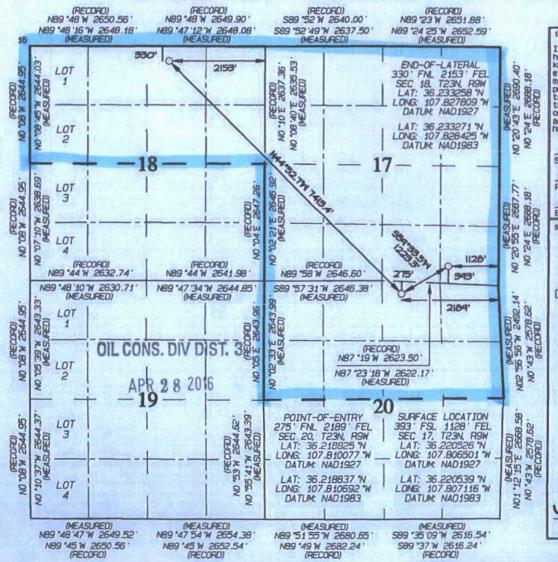
OIL CONSERVATION DIVISION South St. Francis Drive Santa Fe, NM 87505

AMENDED REPORT

District IV 1220 S. St. Francis Drive, Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

WELL LOCATION AND ACREAGE DEDICATION PLAT 'API Number Pool Code 35756 30-045-97232 BASIN MANCOS Well Number Property Code Property Name 771H 016 Elevation OGRID No. Operator Name 120782 WPX ENERGY PRODUCTION, LLC 6561 10 Surface Location til or lot on Section. Township Lot Tdn Feet from the North/South line Feet from the Fast/West line P 17 9W 393 SOUTH 1128 EAST SAN JUAN 23N From Surface 11 Bottom Hole Different Location If UL or lot no. Feet from the North/South line Feet from the East/Nest 1ins County Section Township SAN JUAN 23N 9W 330 NORTH 2153 EAST B 18 4 Corsolidation Code 13 Joint or Infill Dedicated Entire Section 17 N/2 -Section 18 R-14084 1279.88 Section

> 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 OPERATOR CENTIFICATION
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 popling order
heretpfore entered by the division. Marie F Jaramillo Printed Name marie.jaramillo@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: DECEMBER 21, 2015 Survey Date: DECEMBER 3, 2015 Signature and Seal of Professional Surveyor C. EDWARDS JASON MEXICO JEW. SAMENOR REGISTORY PROFESSION DWARDS **ASON** 

Certificate Number

15269



### WPX Energy

### **Operations Plan**

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

Date:

January 21, 2016

Field:

**Basin Mancos** 

Well Name:

**KWU #771H** 

Surface:

Federal

SH Location:

SESE Sec 17 23N-09W

Elevation: 6561' GR

BH Location:

**NWNE Sec 18 23N-09W** 

Minerals:

Federal

Measured Depth: 12,571.19'

I. GEOLOGY:

SURFACE FORMATION - NACIMIENTO

A. FORMATION TOPS (KB)

NAME	MD	TVD	NAME	MD	TVD
OJO ALAMO	139	139	POINT LOOKOUT	3465	3302
KIRTLAND	259	259	MANCOS	3594	3422
PICTURED CLIFFS	840	839	GALLUP	3967	3767
LEWIS	968	966	KICKOFF POINT	3,987.88	3,786.38
CHACRA	1236	1229	TOP TARGET	4984	4511
CLIFF HOUSE	2361	2280	LANDING POINT	5,157.79	4,534.00
MENEFEE	2375	2293	BASE TARGET	5,157.79	4,534.00
			TD	12,571.19	4,511.00

- 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 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

### A. CASING PROGRAM:

CASING TYPE	OH SIZE (IN)	DEPTH (MD)	CSG SIZE	WEIGHT	GRADE	CONN
SURFACE	12.25"	320.00¹	9.625"	36 LBS	J-55 or equiv	STC
INTERMEDIATE	8.75"	5,157.79'	7"	23 LBS	J-55 or equiv	LTC
PRODUCTION	6.125"	5007.79' - 12,571.19'	4.5"	11.6 LBS	P-110 or equiv	LTC
TIE BACK	6.125"	Surf 5007.79'	4.5"	11.6 LBS	P-110 or equiv	LTC

### 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)

- 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
  STAGE 1: Spacer #1: 20 bbl (112 cuft) Chemwash. Lead Cement: 92 bbls, 263 sks, (519 cuft), 12.3 ppg @ 1.97 cuft/sk yield. Tail Cement: 92 bbls, 396 sks, (514 cuft), 13.5 ppg @ 1.3 cuft/sk yield. Displacement: Displace w/ +/- 203 bbl Drilling mud or water.

  Total Cement: 184 bbls, 659 sks, (1033 cuft)
  STAGE 2: Spacer #1: 20 bbl (112 cuft) Chemwash. Lead Cement: 20 bbls, 59 sks, (115 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/ +/- 45 bbl Drilling mud or water.

  Total Cement: 36 bbls, 137 sks, (205 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 (741 sx /1008 cuft /179 bbls). Tail Spacer: 20 BBL of MMCR. Displacement: Displace w/ +/- 140 bbl Fr Water. Total Cement (741 sx /1008bbls).

### 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.
- 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.

#### 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 2309-17P KWU 2309-17P KWU #771H - Slot A1

Wellbore #1

Plan: Design #1 16Dec15 sam

## **Standard Planning Report**

16 December, 2015

### Planning Report

Database: COMPASS WPX Energy Company: **T23N R9W** Project: Site: 2309-17P KWU 2309-17P KWU #771H Well:

Wellbore: Wellbore #1 Design #1 16Dec15 sam Design:

Local Co-ordinate Reference: TVD Reference:

MD Reference: North Reference: **Survey Calculation Method:**  Well 2309-17P KWU #771H (A1) - Slot A1

KB @ 6586.00usft (Aztec 1000) KB @ 6586.00usft (Aztec 1000)

True

Minimum Curvature

**T23N R9W** Project

Map System:

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

System Datum:

Mean Sea Level

Geo Datum:

Map Zone:

Site

New Mexico West 3003

2309-17P KWU

Site Position: From:

Мар

Northing:

1,899,574.16 usft

Latitude:

36.220691

Easting:

507,967.48 usft

Longitude:

-107.806322

**Position Uncertainty:** 

Slot Radius: 0.00 usft

13.200 in

**Grid Convergence:** 

0.02°

2309-17P KWU #771H - Slot A1 Well

**Well Position** 

+N/-S +E/-W

-60.07 usft -52.80 usft Northing: Easting:

1,899,514.08 usft 507,914.70 usft Latitude:

36.220526 -107.806501

**Position Uncertainty** 

0.00 usft

Wellhead Elevation:

0.00 usft

Longitude: Ground Level:

6,561.00 usft

Wellbore Wellbore #1 Magnetics **Model Name** Sample Date Declination Dip Angle Field Strength (°) (nT) (°) **IGRF2015** 12/15/2015 9.37 62.90 49,893

Design #1 16Dec15 sam Design

Audit Notes:

Version:

Phase:

PLAN

Tie On Depth:

0.00

Vertical Section:

Depth From (TVD) (usft)

0.00

+N/-S (usft)

0.00

+E/-W (usft) 0.00

Direction (bearing) 306.41

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	
525.00	0.00	0.00	525.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,633.44	22.17	204.28	1,605.99	-193.04	-87.09	2.00	2.00	0.00	204.28	
3,987.88	22.17	204.28	3,786.38	-1,002.85	-452.44	0.00	0.00	0.00	0.00	
4,762.48	60.00	315.14	4,418.71	-883.18	-792.12	9.00	4.88	14.31	120.37	Start 60 Tan #771h
4,822.48	60.00	315.14	4,448.71	-846.35	-828.77	0.00	0.00	0.00	0.00	End 60 Tan #771H
4,986.66	74.78	315.14	4,511.66	-739.22	-935.39	9.00	9.00	0.00	0.00	
5,157.79	90.18	315.14	4,534.00	-619.33	-1,054.70	9.00	9.00	0.00	0.00	POE #771H
12,571.19	90.18	315.14	4,511.00	4,635.36	-6,284.06	0.00	0.00	0.00	0.00	BHL #771H

### WPX

### Planning Report

Database: Company: COMPASS

WPX Energy T23N R9W

Project: Site: Well:

2309-17P KWU 2309-17P KWU #771H

Wellbore: Design: Wellbore #1 Design #1 16Dec15 sam Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well 2309-17P KWU #771H (A1) - Slot A1

KB @ 6586.00usft (Aztec 1000) KB @ 6586.00usft (Aztec 1000)

True

Minimum Curvature

21	-	600-26
Plann	PC	/ev

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)
0.00 345.00	0.00	0.00	0.00 345.00	0.00	0.00	0.00	0.00	0.00	0.0
	0.00	0,00	345,00	0.00	0.00	0.00	0.00	0.00	0.0
9 5/8"	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.0
500.00 525.00	0.00	0.00	500.00 525.00	0.00	0.00	0.00	0.00	0.00	0.0
Start Build 2		0.00	525.00	0.00	0.00	0.00	0.00	0.00	0.0
1,000.00	9.50	204.28	997.83	-35.81	-16.16	-8.26	2.00	2.00	0.0
1,500.00	19.50	204.28	1,481.29	-149.78	-67.57	-34.53	2.00	2.00	0.0
1,633.44	22.17	204.28	1,605.99	-193.04	-87.09	-44.50	2.00	2.00	0.0
Hold 22.17 In		004.00	4.045.45	040.40	440.07	70.57	0.00	0.00	0.0
2,000.00	22.17	204.28	1,945.45	-319.12	-143.97	-73.57	0.00	0.00	0.0
2,500.00	22.17	204.28	2,408.49	-491.09	-221.56	-113.22	0.00	0.00	0.0
3,000.00	22.17	204.28	2,871.53	-663.07	-299.15	-152.87	0.00	0.00	0.0
3,500.00	22.17	204.28	3,334.57	-835.05	-376.73	-192.52	0.00	0.00	0.0
3,987.88	22.17	204.28	3,786.38	-1,002.85	-452.44	-231.21	0.00	0.00	0.0
	LS 9.00 TFO 12								
4,000.00	21.64	206.84	3,797.63	-1,006.93	-454.39	-232.06	9.00	-4.39	21.0
4,500.00	38.77	301.22	4,248.34	-1,008.11	-639.50	-83.79	9.00	3.43	18.8
4,762.48	60.00	315.14	4,418.71	-883.18	-792.12	113.19	9.00	8.09	5.3
Hold 60.00 In	clination								
4,822.48	60.00	315.14	4,448.71	-846.35	-828.77	164.55	0.00	0.00	0.0
Start Build D	LS 9.00 TFO 0.0	0							
4,986.66	74.78	315.14	4,511.66	-739.22	-935.39	313.94	9.00	9.00	0.0
Start DLS 9.0	0 TFO 0.00								
5,000.00	75.98	315.14	4,515.03	-730.07	-944.49	326.70	9.00	9.00	0.0
5,157.79	90.18	315.14	4,534.00	-619.33	-1,054.70	481.13	9.00	9.00	0.0
POE at 90.18	Inc 315.14 Deg								
5,158.00	90.18	315.14	4,534.00	-619.18	-1,054.85	481.34	0.00	0.00	0.00
7"									
5,500.00	90.18	315.14	4,532.94	-376.77	-1,296.09	819.38	0.00	0.00	0.00
6,000.00	90.18	315.14	4,531.39	-22.36	-1,648.79	1,313.59	0.00	0.00	0.00
6,500.00	90.18	315.14	4,529.84	332.04	-2,001.49	1,807.80	0.00	0.00	0.00
7,000.00	90.18	315.14	4,528.28	686.45	-2,354.18	2,302.01	0.00	0.00	0.00
7,500.00	90.18	315.14	4,526.73	1,040.85	-2,706.88	2,796.22	0.00	0.00	0.00
8,000.00	90.18	315.14	4,525.18	1,395,26	-3,059.58	3,290.44	0.00	0.00	0.00
8,500.00	90.18	315.14	4,523.63	1,749.66	-3,412.27	3,784.65	0.00	0.00	0.00
9,000.00	90.18	315.14	4,522.08	2,104.07	-3,764.97	4,278.86	0.00	0.00	0.00
9,500.00	90.18	315.14	4,520.53	2,458.47	-4,117.66	4,773.07	0.00	0.00	0.00
10,000.00	90.18	315.14	4,518.98	2,812.88	-4,470.36	5,267.29	0.00	0.00	0.00
10,500.00	90.18	315.14	4,517.43	3,167.28	-4,823.06	5,761.50	0.00	0.00	0.00
11,000.00	90.18	315.14	4,515.87	3,521.69	-5,175.75	6,255.71	0.00	0.00	0.00
11,500.00	90.18	315.14	4,514.32	3,876.09	-5,528.45	6,749.92	0.00	0.00	0.00
12,000.00	90.18	315.14	4,512.77	4,230.50	-5,881.15	7,244.13	0.00	0.00	0.00
12,500.00	90.18	315.14	4,511.22	4,584.90	-6,233.84	7,738.35	0.00	0.00	0.00
12,571.19	90.18	315.14	4,511.00	4,635.36	-6,284.06	7,808.71	0.00	0.00	0.00

### WPX

### Planning Report

Database: Company: Project: COMPASS

WPX Energy T23N R9W

2309-17P KWU 2309-17P KWU #771H

Well: Wellbore:

Site:

Wellbore #1

Design: Design #1 16Dec15 sam

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well 2309-17P KWU #771H (A1) - Slot A1

KB @ 6586.00usft (Aztec 1000) KB @ 6586.00usft (Aztec 1000)

True

Minimum Curvature

Design Targets									
Target Name - hit/mlss target - Shape	Dip Angle	Dip Dir. (bearing	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Start 60 Tan #771H - plan hits target cente - Point	0.00 er	0.00	4,418.71	-883.18	-792.12	1,898,630.68	507,122.83	36.218100	-107.809187
End 60 Tan #771H - plan hits target cente - Point	0.00 er	0.00	4,448.71	-846.35	-828.77	1,898,667.50	507,086.17	36.218201	-107.809311
BHL #771H - plan hits target cente - Point	0.00	0.00	4,511.00	4,635.36	-6,284.06	1,904,147.70	501,629.36	36.233258	-107.827809
POE #771H - plan hits target cente - Point	0.00	0.00	4,534.00	-619.33	-1,054.70	1,898,894.46	506,860.17	36.218825	-107.810077

Casing Points							
	Measured Depth (usft)	Vertical Depth (usft)		Name	Casing Diameter (in)	Hole Diameter (in)	
	345.00	345.00	9 5/8"		9.625	12.250	
	5,158.00	4,534.00	7"		7.000	8.750	

Measured	Vertical	Local Coor	dinates	
Depth (usft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
525.00	525.00	0.00	0.00	Start Build 2.00
1,633.44	1,605.99	-193.04	-87.09	Hold 22.17 Inclination
3,987.88	3,786.38	-1,002.85	-452.44	Start Build DLS 9.00 TFO 120.37
4,762.48	4,418.71	-883.18	-792.12	Hold 60.00 Inclination
4,822.48	4,448.71	-846.35	-828.77	Start Build DLS 9.00 TFO 0.00
4,986.66	4,511.66	-739.22	-935.39	Start DLS 9.00 TFO 0.00
5,157.79	4,534.00	-619.33	-1,054.70	POE at 90.18 Inc 315.14 Deg
12,571.19	4,511.00	4,635.36	-6,284.06	TD at 12546.19

**VPXENERGY**... Surface Location: 2309-17P KWU NAD 1927 (NADCON CONUS) +N/-S +E/-W Northing Easting 0.00 0.00 1899514.08 507914.70 5250

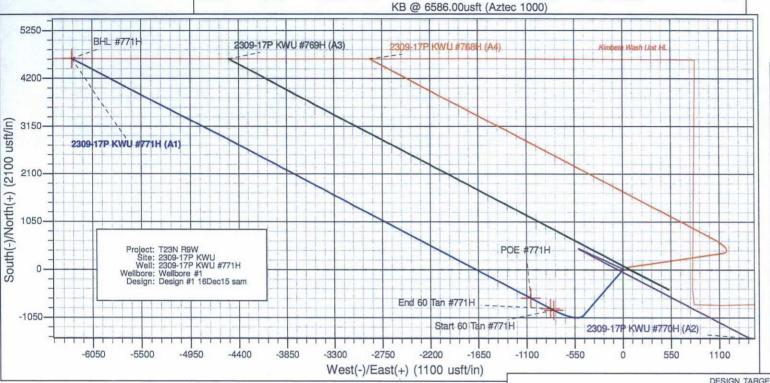
, US State Plane 1927 (Exact solution) New Mexico West 3003

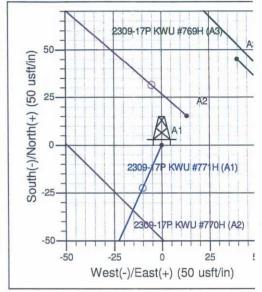
Ground Elevation: 6561.00

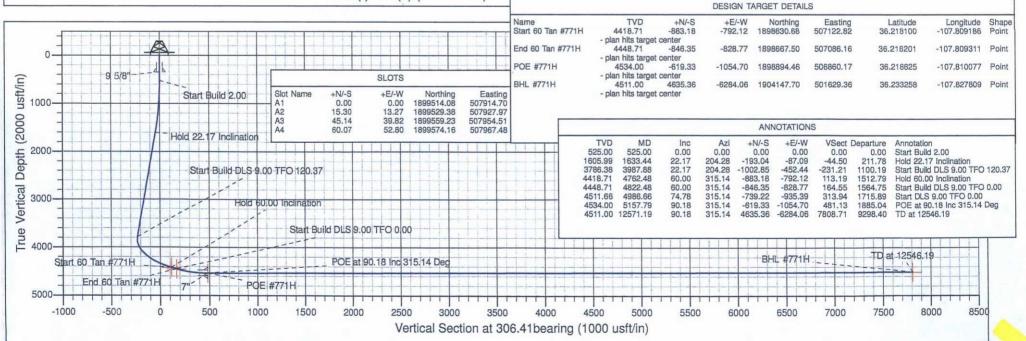
Latittude Longitude 36,220526 -107.806501 Slot A1

Azimuths to True North Magnetic North: 9.37

Magnetic Field Strength: 49893.0snT Dip Angle: 62.90 Date: 12/15/2015 Model: IGRF2015







fill of approximately 7-feet on the south corner (corner 2), and a cut of 7-feet on the north-eastern side (between corner 5 & corner 6) to create a level well pad. No additional surfacing materials will be required for construction.

- 4. As determined during the onsite on December 9, 2015, the following best management practices will be implemented:
  - a. Diversions will be installed upon reclamation.
  - b. A culvert will be installed in the bar ditch of County Road #7820 at the access road take-off.
  - Upon interim reclamation, the area would be reseeded with a BLM approved sagebrush seed mix.
  - d. Facilities would be painted Juniper Green.
  - e. Surface vegetation would be mowed and incorporated into topsoil as additional organic matter.
  - f. No additional fill would be required to construct the pad.
- 5. All project activities will be confined to permitted areas only.
- 6. Construction equipment may include chain saws, a brush hog, scraper, maintainer, trencher, backhoe, excavator, and a dozer.
- 7. If drilling has not been initiated on the well pad within 120 days of the well pad being constructed, the operator will consult with the BLM to address a site-stabilization plan.

#### D. Production Facilities

- 1. As practical, access will be a teardrop-shaped road through the production area so that the center may be revegetated.
- Within 90 days of installation, production facilities would be painted Juniper Green to blend with the natural color of the landscape and would be located, to the extent practical, to reasonably minimize visual impact.
- Berms will be constructed around all storage facilities sufficient in size to contain the storage capacity of tanks. Berm walls will be compacted with appropriate equipment to assure containment.

After the completion phases and pipeline installation, portions of the project area not needed for operation will be reclaimed. When the well is plugged, final reclamation will occur within the remainder of the project area. Reclamation is described in detail in the Reclamation Plan (Appendix C).

### 7.0 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

# <u>Directions from the Intersection of US Hwy 550 & US Hwy 64</u> in Bloomfield, NM to WPX Energy Production, LLC KWU #771H 393' FSL & 1128' FEL, Section 17, T23N, R9W, N.M.P.M., San Juan County, NM

### Latitude: 36.220539°N Longitude: 107.807116°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 2.7 miles to begin proposed access on left-hand side of County Road #7820 which continues for 53.9' to staked WPX KWU #771H location.

