State of New Mexico Energy, Minerals and Natural Resources Department

Susana Martinez Governor

David Martin Cabinet Secretary

Tony Delfin 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: <u>11-12-15</u> Well information; Operator <u>WPX</u>, Well Name and Number <u>Kimbeto</u> Wash Un; † #797 H

API#<u>30-045-35732</u>, Section<u>39</u>Township<u>23(N/S</u>, Range<u>09</u>E/W

Conditions of Approval: (See the below checked and handwritten conditions)

- o Notify Aztec OCD 24hrs prior to casing & cement.
- o 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.

NMOCD Approved by Signature

Date

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

*	OIL CONS. D	IV DIST.	3		
Form 3160-3 (September 2001) UNITED, STATES		APR 1		FORM APPROV OMB No. 1004-0 Expires January 31	
DEPARTMENT OF THE IN	TERIOR			5. Lease Serial No.	
BUREAU OF LAND MANA	GEMENT			NMNM 117577	21
APPLICATION FOR PERMIT TO DE	RILL OR F	EENTER		6. If Indian, Allottee or Trib	e Name
la. Type of Work: DRILL DRILL	agement			7. If Unit or CA Agreement,	Name and No.
1b. Type of Well: 🛛 Oil Well 🗌 Gas Well 🔲 Other		ingle Zone 🔲 Mult	iple Zone	Kimbeto Wash Unit 8. Lease Name and Well No. KWU #787H	
2. Name of Operator				9. API Well No.	
WPX Energy Production, LLC				30-045-35	732
3a. Address	3b. Phone N	o. (include area code)		10. Field and Pool, or Explorat	tory
P.O. Box 640 Aztec, NM 87410	(505) 33	3-1808		Basin Mancos	
4. Location of Well (Report location clearly and in accordance with any	State requiren	ents. *)		11. Sec., T., R., M., or Blk. an	d Survey or Area
At surface 661' FNL & 484' FWL, sec 30, T23N, R9W			NWN	SHL: Sec 30, T23N, R9W	
At proposed prod. zone 1747' FSL & 330' FEL, sec 30 T23N, R9V	N		NES	5 BHL: Sec 30, T23N, R9W	r -
14. Distance in miles and direction from nearest town or post office*				12. County or Parish	13. State
From intersection US Hwy & 550 US Hwy 64 in Bloomfield NM,	South 35.9 m	les to Mile Marker 115	.7	San Juan	NM
15. Distance from proposed*	16. No. of .	Acres in lease	17. Spacing	g Unit dedicated to this well	
location to nearest property or lease line, ft.			960.22-Acr	es	
(Also to nearest drig. unit line, if any) 484'		5 Acres			
 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 	19. Propose			IA Bond No. on file	
20° 21. Elevations (Show whether DF, KDB, RT, GL, etc.)		MD / 4386' TVD imate date work will s	UTB00	23. Estimated duration	
6596' GR		ber 1, 2015	ital t	1 month	
	24. Atta			1 monta	
 The following, completed in accordance with the requirements of Onshor Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System I SUPO shall be filed with the appropriate Forest Service Office). 	ands, the	 Bond to cover th Item 20 above). Operator certific Such other site s authorized office 	e operations ation. specific infor	unless covered by an existing mation and/or plans as may b	
25. Signature		(Printed/Typed)		Date 11/12/1	5
Title Permit Technician III Approved by (Signature)	Name	e E. Jaramillo (Printed/Typed)		Date 9	114/16
Title 1FM	Office	EF	1		<i>('</i>
Application approval does not warrant or certify that the applicant holds le operations thereon. Conditions of approval, if any, are attached.	l egal or equital	ole title to those rights in	the subject le	ease which would entitle the app	licant to conduct
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a States any false, fictitious or fraudulent statements or representations as to	a crime for an any matter wi	y person knowingly and thin its jurisdiction.	d willfully to	make to any department or agen	icy of the United
*(Instructions on reverse)				-	
WPX Energy Production, LLC, proposes to develop the Basin Mancos fo plans.	rmation at the	above described location	on in accorda	nce with the attached drilling an	d surface use
The well pad surface is under jurisdiction of BLM and is on lease and will	l be twinned	with the KWU #789H a	nd KWU #79	1H.	
This location has been archaeologically surveyed by Western Cultural Re	sources. Copi	es of their report have b	een submittee	d directly to the BLM, FIMO, B	IA and NNHPD.
The new access of 220.5' of BLM is Onlease access road will be builPand	permitted	AND OR ACCI	EPTANCE	OF THIS	
A new 11807.2' BLM on lease & 9677' IA on lease well connect pipeline COMPLIANCE WITH ATTACHED AU	TION DO will be built THORIZA	ES NOT RELIEV and permitted via the A	E THE LE RG ANY D FOR O	COLLE VILLA SCIOLIS S	review pursuant t

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District I 1625 N. French Drive, Hobps, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II

District II B11 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

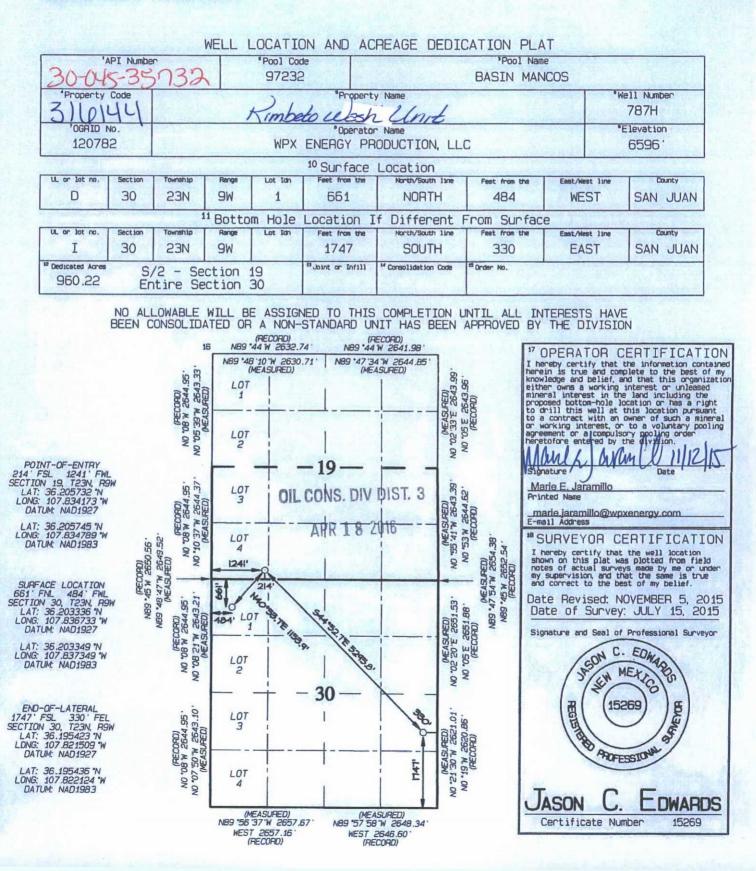
State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Drive Santa Fe, NM 87505 Form C-102 Revised August 1, 2011

Submit one copy to Appropriate District Office

AMENDED REPORT





WPX Energy

Operations Plan

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

Date:	November 12, 2015	Field:	Basin Mancos
Well Name:	KWU #787H	Surface:	BLM
SH Location:	NWNW Sec 30 23N-09W	Elevation:	6596' GR
BH Location:	NESE Sec 30 23N-09W	Minerals:	BLM

Measured Depth: 10,444.00'

I. <u>GEOLOGY:</u> SURFACE FORMATION - OJO ALAMO/ KIRKLAND

A. 101	MATION TOP	5(01)			
NAME	MD	TVD	NAME	MD	TVD
OJO ALAMO	166	166	POINT LOOKOUT	3368	3153
KIRTLAND	374	374	MANCOS	3578	3340
PICTURED CLIFFS	750	750	GALLUP	3967	3689
LEWIS	862	861	KICKOFF POINT	4,747.71	4,328.41
CHACRA	1125	1120	TOP TARGET	4952	4416
CLIFF HOUSE	2293	2195	LANDING POINT	5,147.97	4,443.66
MENEFEE	2348	2244	BASE TARGET	5,147.97	4,443.66
			TD	10,444.00	4,386.00

A. FORMATION TOPS (GL)

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 ¾" 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

A. CASING PROGRAM:

CASING TYPE	OH SIZE (IN)	DEPTH (MD)	CSG SIZE	WEIGHT	GRADE	CONN
SURFACE	12.25"	320'	9.625"	36 LBS	J-55 or equiv	STC
INTERMEDIATE	8.75"	5,147.97	7"	23 LBS	J-55 or equiv	LTC
PRODUCTION	6.125"	4997.97 - 10,444.00	4.5"	11.6 LBS	P-110 or equiv	LTC
TIE BACK	6.125"	Surf 4997.97	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.

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.
- 20 bbl (112 cu-ft) Mud Flush III spacer + Lead: +/- 700 sx Foamed 50/50 Poz Cement. 13.0 ppg + 0.1% Halad 766 + 0.2% Versaset + 1.5% Chem-Foamer 760 (Yield :1.43 cu-ft/ sk. / Vol: 1001 cu-ft / 178.3 Bbls.) + TAIL: 100 sx 13.5 #/gal. + 0.2% Versaset + 0.15% HALAD-766 (Yield: 1.28 cu-ft / sk / Vol: 128 cu-ft / 22.8 Bbls.). + Fresh Water Displacement (1,362 cu-ft / +/- 242 Bbls) + 100 sx Top-Out Cement Premium: Yield: (1.17 cu-ft/ sk / (Vol: 117 cu-ft / 20.8 Bbls). WOC 12 hrs. Test Casing to 1500 PSI for 30 minutes. Total Cement Volume: (900 sx / 1246 cu-ft / 222 bbls). Mix with +/- 84,000 SCF Nitrogen. TOC at surface.
- 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 (533 sx /725 cuft /129 bbls). Tail Spacer: 20 BBL of MMCR. Displacement: Displace w/ +/- 140 bbl Fr Water. Total Cement (533 sx /725 bbls).

WPX Energy

T23N R9W KWU 2309-30D KWU 2309-30D #787H - Slot A2

Wellbore #1

Plan: Design #1 16Oct15 sam

Standard Planning Report

22 October, 2015

WPX

Planning Report

Database: Company: Project: Site: Well: Well: Wellbore: Design:	WPX T23M KWU KWU Well	IPASS (Energy N R9W J 2309-30D J 2309-30D #78 bore #1 gn #1 16Oct15			TVD Refe MD Refe North Re	rence:		Well KWU 2309 GL @ 6596.00u GL @ 6596.00u True Minimum Curva	sft (Original) sft (Original)	Well Elev)
Project	T23N								A MARTIN	
Map System: Geo Datum: Map Zone:	NAD 19	te Plane 1927 (927 (NADCON exico West 300	CONUS))	System Da	atum:	М	ean Sea Level		
Site	KWU	2309-30D			No.	115 1 3 1			3. 1. 2. 4	
Site Position: From: Position Uncer	Ma rtainty:		North Easti 00 usft Slot I			3,257.11 usft 8,977.22 usft 13.200 in	Latitude: Longitude: Grid Converg	gence:		36.20334 -107.83680 0.00
Well	KWU 2	2309-30D #787	H - Slot A2	difference of	N. Sala	-	a new mater	La Maria M	1910	S AND A DECK
Well Position	+N/-S +E/-W	19.	.77 usft Ea	orthing: asting: /ellhead Elevatior		1,893,255.65 498,996.99	usft Lor	itude: ngitude: ound Level:		36.20333 -107.83673 6,596.00 us
									_	
Wellbore		ore #1								
Wellbore Magnetics		ore #1 odel Name IGRF200510		le Date 12/31/2009	Declina (°)		Dip A ('	Ingle ") 63.03		Strength (nT) 50,589
Magnetics	M	odel Name IGRF200510						"		(nT)
Magnetics Design Audit Notes:	M	odel Name		12/31/2009	(*)	10.02		9 63.03		(nT)
	M	odel Name IGRF200510 n #1 16Oct15 sa	am Phas Depth From (T (usft)	12/31/2009 e: PLA	(*) .N +N/-S (usft)	10.02 Tie +E (u	On Depth: :/-W sft)	") 63.03 Dire (ber	0.00 ection aring)	(nT)
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Magnetics Design Audit Notes: Version: Vertical Section Plan Sections Measured Depth (usft) 0.00	M Design n: Inclination (°) 0.00	odel Name IGRF200510 n#1 16Oct15 sa L Azimuth (bearing) 0.00	am Phas Depth From (T (usft) 0.00 Vertical Depth (usft) 0.00	12/31/2009 ee: PLA VD) +N/-S (usft) 0.00	(*) .N +N/-S (usft) 0.00 +E/-W	10.02 Tie +E (w 0. Dogleg Rate	On Depth: /-W sft) 00 Build Rate	") 63.03 Dire (bea 12 Turn Rate	0.00 ection aring) 2.67 TFO	(nT) 50,589
Magnetics Design Audit Notes: Version: Vertical Section Plan Sections Measured Depth (usft) 0.00 500.00	M Design n: Inclination (°) 0.00 0.00	Azimuth (bearing) 0.00 0.00	am Phas Depth From (T (usft) 0.00 Vertical Depth (usft) 0.00 500.00	12/31/2009 ee: PLA VD) +N/-S (usft) 0.00 0.00	(*) .N +N/-S (usft) 0.00 +E/-W (usft) 0.00 0.00	10.02 Tie +E (u: 0. Dogleg Rate (*/100usft) 0.00 0.00	Con Depth: 2/-W sft) 00 Build Rate (*/100usft) 0.00 0.00	") 63.03 Dire (be: 12 Turn Rate (*/100usft) 0.00 0.00	0.00 ection aring) 2.67 TFO (*) 0.00 0.00	(nT) 50,589
Magnetics Design Audit Notes: Version: Vertical Section Plan Sections Measured Depth (usft) 0.00 500,00 1,850.20	M Design n: Inclination (°) 0.00 0.00 27.00	Azimuth (bearing) 0.00 0.73	am Phas Depth From (Tr (usft) 0.00 Vertical Depth (usft) 0.00 500.00 1,800.76	12/31/2009 ee: PLA VD) +N/-S (usft) 0.00 0.00 310.18	(*) .N +N/-S (usft) 0.00 +E/-W (usft) 0.00 0.00 0.00 36.59	10.02 Tie +E (u 0. Dogleg Rate (*/100usft) 0.00 0.00 2.00	Con Depth: 2/-W sft) 00 Build Rate (*/100usft) 0.00 0.00 0.00 2.00	") 63.03 Dire (be: 12 12 Turn Rate (*/100usft) 0.00 0.00 0.00	0.00 ection aring) 2.67 TFO (") 0.00 0.00 6.73	(nT) 50,589
Magnetics Design Audit Notes: Version: Vertical Section Plan Sections Measured Depth (usft) 0.00 500,00 1,850.20 3,876.73	M Design n: Inclination (°) 0.00 0.00 27.00 27.00 27.00	Azimuth (bearing) 0.00 0.73 6.73	am Phas Depth From (Tr (usft) 0.00 Vertical Depth (usft) 0.00 500.00 1,800.76 3,606.35	12/31/2009 e: PLA VD) +N/-S (usft) 0.00 0.00 310.18 1,224.00	(*) .N +N/-S (usft) 0.00 +E/-W (usft) 0.00 0.00 0.00 36.59 144.39	10.02 Tie +E (u 0. Dogleg Rate (*/100usft) 0.00 0.00 2.00 0.00	Con Depth: 2/-W sft) 00 Build Rate (*/100usft) 0.00 0.00 2.00 0.00	") 63.03 Dire (be: 12 12 Turn Rate (*/100usft) 0.00 0.00 0.00 0.00 0.00	0.00 ection aring) 2.67 TFO (*) 0.00 0.00 6.73 0.00	(nT) 50,589 Target
Magnetics Design Audit Notes: Version: Vertical Section Plan Sections Measured Depth (usft) 0.00 500.00 1,850.20 3,876.73 4,747.71	M Design n: Inclination (*) 0.00 0.00 27.00 27.00 60.00	Azimuth (bearing) 0.00 0.73 0.73 0.512	am Phas Depth From (Tr (usft) 0.00 Vertical Depth (usft) 0.00 500.00 1,800.76 3,606.35 4,328.41	12/31/2009 e: PLA VD) +N/-S (usff) 0.00 0.00 310.18 1,224.00 1,139.53	(*) .N +N/-S (usft) 0.00 +E/-W (usft) 0.00 0.00 0.00 0.00 36.59 144.39 489.22	10.02 Tie +E (u 0. Dogleg Rate (*/100usft) 0.00 0.00 2.00 0.00 9.00	Con Depth: 2/-W sft) 00 Build Rate (*/100usft) 0.00	") 63.03 Dire (be: 12 Turn Rate (*/100usft) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.00 ection aring) 2.67 TFO (*) 0.00 0.00 6.73 0.00 136.14	(nT) 50,589 Target Start 60 tan #787H
Magnetics Design Audit Notes: Version: Vertical Section Plan Sections Measured Depth (usft) 0.00 500.00 1,850.20 3,876.73 4,747.71 4,807.71	M Design n: Inclination (*) 0.00 0.00 27.00 27.00 60.00 60.00	Azimuth (bearing) 0.00 0.00 0.00 0.00 0.00 0.00 0.73 0.73	am Phas Depth From (Tr (usft) 0.00 Vertical Depth (usft) 0.00 500.00 1,800.76 3,606.35 4,328.41 4,358.41	12/31/2009 e: PLA VD) +N/-S (usft) 0.00 0.00 310.18 1,224.00 1,139.53 1,102.71	(*) .N +N/-S (usft) 0.00 +E/-W (usft) 0.00 0.0	10.02 Tie +E (u 0. Dogleg Rate (*/100usft) 0.00 0.00 2.00 0.00 9.00 0.00	Con Depth: (/-W/ sft) 00 Build Rate (*/100usft) 0.000 0.00 0.00 0.00 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.00000 0.00000000	") 63.03 Dire (be: 12 Turn Rate (*/100usft) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.00 ection aring) 2.67 TFO (*) 0.00 0.00 6.73 0.00 136.14 0.00	(nT) 50,589 Target
Magnetics Design Audit Notes: Version: Vertical Section Plan Sections Measured Depth (usft) 0.00 500.00 1,850.20 3,876.73 4,747.71	M Design n: Inclination (*) 0.00 0.00 27.00 27.00 60.00	Azimuth (bearing) 0.00 0.73 0.73 0.512	am Phas Depth From (Tr (usft) 0.00 Vertical Depth (usft) 0.00 500.00 1,800.76 3,606.35 4,328.41	12/31/2009 e: PLA VD) +N/-S (usff) 0.00 0.00 310.18 1,224.00 1,139.53	(*) .N +N/-S (usft) 0.00 +E/-W (usft) 0.00 0.00 0.00 0.00 36.59 144.39 489.22	10.02 Tie +E (u 0. Dogleg Rate (*/100usft) 0.00 0.00 2.00 0.00 9.00	Con Depth: 2/-W sft) 00 Build Rate (*/100usft) 0.00	") 63.03 Dire (be: 12 Turn Rate (*/100usft) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 14.74 0.00 0.00	0.00 ection aring) 2.67 TFO (*) 0.00 0.00 6.73 0.00 136.14	(nT) 50,589 Target Start 60 tan #787H
Magnetics Design Audit Notes: Version: Vertical Section Plan Sections Measured Depth (usft) 0.00 500.00 1,850.20 3,876.73 4,747.71 4,807.71	M Design n: Inclination (*) 0.00 0.00 27.00 27.00 60.00 60.00	Azimuth (bearing) 0.00 0.00 0.00 0.00 0.00 0.00 0.73 0.73	am Phas Depth From (Tr (usft) 0.00 Vertical Depth (usft) 0.00 500.00 1,800.76 3,606.35 4,328.41 4,358.41	12/31/2009 e: PLA VD) +N/-S (usft) 0.00 0.00 310.18 1,224.00 1,139.53 1,102.71	(*) .N +N/-S (usft) 0.00 +E/-W (usft) 0.00 0.0	10.02 Tie +E (u 0. Dogleg Rate (*/100usft) 0.00 0.00 2.00 0.00 9.00 0.00	Con Depth: (/-W/ sft) 00 Build Rate (*/100usft) 0.000 0.00 0.00 0.00 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.00000 0.00000000	") 63.03 Dire (be: 12 Turn Rate (*/100usft) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.00 ection aring) 2.67 TFO (*) 0.00 0.00 6.73 0.00 136.14 0.00 0.00	(nT) 50,589 Target Start 60 tan #787H

WPX

Planning Report

Database:	COMPASS	Local Co-ordinate Reference:	Well KWU 2309-30D #787H (A2) - Slot A2
Company:	WPX Energy	TVD Reference:	GL @ 6596.00usft (Original Well Elev)
Project:	T23N R9W	MD Reference:	GL @ 6596.00usft (Original Well Elev)
Site:	KWU 2309-30D	North Reference:	True
Nell:	KWU 2309-30D #787H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 16Oct15 sam		

Planned Survey

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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	0.0
320.00	0.00	0.00	320.00	0.00	0.00	0.00	0.00	0.00	0.0
9 5/8"			500.00			0.00			
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.0
Start Build 2		0.70	007 47	40.00	E 40	-19.04	0.00	0.00	0.0
1,000.00	10.00 20.00	6.73 6.73	997.47 1.479.82	43.22 171.58	5.10 20.24	-19.04 -75.57	2.00	2.00	0.0
1,850.20	27.00	6.73	1,800.76	310.18	36.59	-136.62	2.00	2.00	0.0
Hold 27.00 In	and the second se			MIL 602 10 12 12		CELE ON			
2,000.00	27.00	6.73	1,934.23	377.73	44.56	-166.37	0.00	0.00	0.0
2,500.00	27.00	6.73	2,379.72	603.20	71.15	-265.67	0.00	0.00	0.0
3,000.00	27.00	6.73	2,825.21	828.66	97.75	-364.98	0.00	0.00	0.0
3,500.00	27.00	6.73	3,270.70	1,054.12	124.35	-464.28	0.00	0.00	0.0
3,876.73	27.00	6.73	3,606.35	1,224.00	144.39	-539.10	0.00	0.00	0.0
Start Build D	LS 9.00 TFO 13	6.14							
4,000.00	20.39	29.23	3,719.39	1,270.68	158.19	-552.67	9.00	-5.36	18.2
4,500.00	39.76	122.68	4,169.26	1,259.82	345.03	-389.53	9.00	3.87	18.6
4,747.71	60.00	135.12	4,328.41	1,139.53	489.22	-203.22	9.00	8.17	5.02
Hold 60.00 In	SUBJECT OF STATES								
4,807.71	60.00	135.12	4,358.41	1,102.71	525.89	-152.48	0.00	0.00	0.00
Start Build D	LS 9.00 TFO 0.0	0							
4,980.72	75.57	135.12	4,423.62	989.56	638.56	3.45	9.00	9.00	0.00
Start DLS 9.0	0 TFO 0.00								
5,000.00	77.31	135.12	4,428.14	976.29	651.79	21.75	9.00	9.00	0.00
5,147.97	90.62	135.12	4,443.66	872.25	755.39	165.11	9.00	9.00	0.00
POE at 90.62	Inc 135.12 deg								
5,148.00	90.62	135.12	4,443.66	872.23	755.41	165.14	0.00	0.00	0.00
7"									
5,500.00	90.62	135.12	4,439.83	622.82	1,003.77	508.84	0.00	0.00	0.00
6,000.00	90.62	135.12	4,434.38	268,55	1,356.57	997.04	0.00	0.00	0.00
6,500.00	90.62	135.12	4,428.94	-85.72	1,709.36	1,485.25	0.00	0.00	0.00
7,000.00	90.62	135.12	4,423.50	-439.99	2,062.15	1,973.46	0.00	0.00	0.00
7,500.00	90.62	135.12	4,418.05	-794.26	2,414.94	2,461.66	0.00	0.00	0.00
8,000.00	90.62	135.12	4,412.61	-1,148.53	2,767.73	2,949.87	0.00	0.00	0.00
8,500.00	90.62	135,12	4,407,17	-1,502.80	3,120,53	3,438.08	0.00	0.00	0.00
9,000.00	90.62	135.12	4,401.72	-1,857.08	3,473.32	3,926.28	0.00	0.00	0.00
9,500.00	90.62	135.12	4,396.28	-2,211.35	3,826.11	4,414.49	0.00	0.00	0.00
10,000.00	90.62	135.12	4,390.83	-2,565.62	4,178.90	4,902.70	0.00	0.00	0.00
10,444.00	90.62	135.12	4,386.00	-2,880.21	4,492.18	5,336.23	0.00	0.00	0.00
TD at 10444.0				AND DECISION					

WPX

Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	T23N KWU KWU Wellb	Energy R9W 2309-30 2309-30 ore #1	D D #787H Oct15 sam			TVD Refere MD Referen North Refer	ice:	GL @ 6596	2309-30D #787H (A2) 5.00usft (Original Well 5.00usft (Original Well Survature	Elev)
Design Targets Target Name - hit/miss target - Shape		Angle (°)	Dip Dir. (bearing	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Start 60 tan #787H - plan hits target ce - Point	enter	0.00	0.00	4,328.41	1,139.53	489.22	1,894,395.17	499,486.25	36.206467	-107.835075
End 60 tan #787H - plan hits target ce - Point	enter	0.00	0.00	4,358.41	1,102.71	525.89	1,894,358.34	499,522.92	36.206365	-107.834951
BHL #787H - plan hits target ce - Point	enter	0.00	0.00	4,386.00	-2,880.21	4,492.18	1,890,375.28	503,489.07	36.195423	-107.821509
POE #787H - plan hits target ce - Point	enter	0.00	0.00	4,443.66	872.25	755.39	1,894,127.88	499,752.41	36.205732	-107.834173

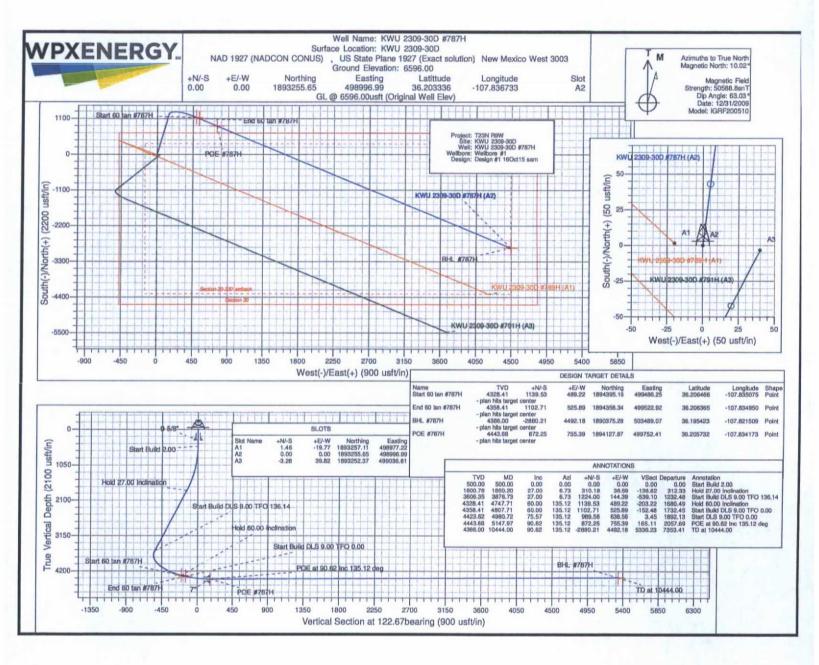
Casing Points

.

Measured	Vertical			Casing	Hole
Depth	Depth			Diameter	Diameter
(usft)	(usft)		Name	(in)	(in)
320.00	320.00	9 5/8"		9.625	12.250
5,148.00	4,443.66	7"		7.000	8,750

Plan Annotations

Measured	Vertical	Local Coor	dinates	
Depth (usft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
500.00	500.00	0.00	0.00	Start Build 2.00
1,850.20	1,800.76	310.18	36.59	Hold 27.00 Inclination
3,876.73	3,606.35	1,224.00	144.39	Start Build DLS 9.00 TFO 136.14
4,747.71	4,328.41	1,139.53	489.22	Hold 60.00 Inclination
4,807.71	4,358.41	1,102.71	525,89	Start Build DLS 9.00 TFO 0.00
4,980.72	4,423.62	989.56	638.56	Start DLS 9.00 TFO 0.00
5,147.97	4,443.66	872.25	755.39	POE at 90.62 Inc 135.12 deg
10,444.00	4,386.00	-2.880.21	4,492.18	TD at 10444.00



10 feet at the southwest corner, and a cut of 5 feet at the southeast corner to create a level well pad. No additional surfacing materials will be required for construction.

- 4. As determined during the onsite on September 30, 2015, the following best management practices will be implemented:
 - a. Diversions will be installed upon reclamation.
 - b. No additional fill would be required to construct the pad.
 - c. A 24-inch culvert will be required at the beginning of the proposed access road.
- All project activities will be confined to permitted areas only.
- 6. Construction equipment may include chain saws, a brush hog, scraper, maintainer, excavator, and a dozer.
- 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

- 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 wells are 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 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
 - 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 Figure 4 in Appendix B for the location of toilets).

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

in Bloomfield, NM to WPX Energy Production, LLC KWU #787H

661' FNL & 484' FWL, Section 30, T23N, R9W, N.M.P.M., San Juan County, NM

Latitude: 36.203349°N Longitude: 107.837349°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) a Nageezi Post Office on County Road #7800 for 0.4 miles to 4-way intersection:

Go Right (North-westerly) remaining on paved County Road #7800 for 3.6 miles to where pavement ends;

Go Straight (South-westerly) continuing on dirt portion of County Road #7800 for 1.2 miles to fork in roadway:

Go Left (Southerly) which is straight for 3.0 miles to begin proposed access on right-hand side of County Road #7800 which continues for 220.5° to staked WPX KWU #787H location.

