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

Susana Martinez Governor

David Martin Cabinet Secretary

Brett F. Woods, Ph.D. 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: 5.21-15	
Well information;	
Operator $WPX$ , Well Name and Number $Rosc Unit$	<u>29 77 162 H</u>
API# 30-039-31326, Section 25, Township 31 (N)S, Range	6 EW

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 NSI, 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

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

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

Forin 3160-3OIL CONS. DIV DIST. 3 September 2001)		REC	EIVED	FORM	APPROVED 5. 1004-0136	
JUN 30 2015 UNITED STATES DEPARTMENT OF THE IN BUREAU OF LAND MANAG	NTERIOR (	l Porto - Rui do -	2 1 208	5. Lease Serial No.	nuary 31, 2004	
APPLICATION FOR PERMIT TO DE				6. If Indian, Allottee	or Tribe Name	
la. Type of Work: 🛛 DRILL 🗌 REENTEI	R	Earmingto Bureau of La		or Alfornit or CA Agre	cement, Name and No. NMNM-78467	
1b. Type of Well: 🗌 Oil Well 🛛 Gas Well 🔲 Other	⊠ s	ingle Zone 🗌 Multij	ple Zone	8. Lease Name and W Rosa UT 29 102H		
2. Name of Operator				9. API Well No.	9 21221	
WPX Energy Production, LLC 3a, Address	3h Phone N	o. (include area code)			9-31326	
P.O. Box 640 Aztec, NM 87410	(505) 333-18			10. Field and Pool, or Basin Mancos	Exploratory	
<ol> <li>Location of Well (Report location clearly and in accordance with any At surface 1038' FNL &amp; 324' FEL, sec 25, T31N, R6W</li> </ol>	- <u> </u>			11. Sec., T., R., M., or	Blk. and Survey or Area	
At proposed prod. zone 434' FNL & 560' FWL, sec 26, T31N, R6	W			SHL: Section 25, T3 BHL: Section 26, T3		
4. Distance in miles and direction from nearest town or post office*				12. County or Parish	13. State	
pproximately 58 miles East from Bloomfield NM				Rio Arriba	NM	
<ul> <li>5. Distance from proposed*</li> <li>location to nearest property or lease line, ft.</li> <li>(Also to nearest drig. unit line, if any) 324<sup>3</sup></li> </ul>	256	Acres in lease	5	g Unit dedicated to this well 92.16 N 2 5 cc 25 N 2 5 cc 26		
3. Distance from proposed location*	5 <del>92,1</del> 6 19. Propose	ed Denth		West Rosa-Unit-Project- IA Bond No. on file	Area-24,118-76-Acres-	
to nearest well, drilling, completed, applied for, on this lease, ft. 15'		0 / 7,160 TVD	UTB00			
1. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approx	imate date work will st	art*	23. Estimated duration		
372' GR	June 15, 201			1 month		
	24. Atta	chments				
e following, completed in accordance with the requirements of Onshor	re Oil and Gas	Order No.1, shall be atta	ached to this t	form:		
Well plat certified by a registered surveyor.			e operations	unless covered by an o	existing bond on file (see	
A Drilling Plan.		Item 20 above).	ation			
A Surface Use Plan (if the location is on National Forest System I SUPO shall be filed with the appropriate Forest Service Office).	Lands, the	5. Operator certifica	pecific infor	*		
A Surface Use Plan (if the location is on National Forest System I SUPO shall be filed with the appropriate Forest Service Office).		<ol> <li>5. Operator certification</li> <li>6. Such other site site</li> </ol>	pecific infor	*	Data	
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A Surface Use Plan (if the location is on National Forest System I SUPO shall be filed with the appropriate Forest Service Office). Signature opproved by (Signature) the poplication approval does not warrant or ceftify that the applicant holds I erations thereon. Inditions of approval, if any, are attached. Ite 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it ates any false, fictitious or fraudulent statements or representations as to <i>Instructions on reverse</i> ) PX Energy Production, LLC, proposes to develop the Basin Mancos P e well pad surface is on lease on BLM surface within the Rosa Unit ar	Name Andrea Name Office legal or equital a crime for ar o any matter w	5. Operator certifica 6. Such other site s authorized office (Printed/Typed) a Felix (Printed/Typed) ble title to those rights in my person knowingly and titlin its jurisdiction. ve described location in	pecific infor r. the subject h d willfully to accordance v	ease which would entitle make to any departmer	Date $5 - 2 - 301$ Date $6 / 2 - 4 / 1 - 3$ e the applicant to conduct at or agency of the United g and surface use plans.	
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This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

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RE SUBJECT TO COMPLIANCE WITH TTACHED "GENERAL REQUIREMENTS" NMOCDIN

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

Sec. And

District I 1625 N. French Drive, Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720	State of New Mexico Energy, Minerals & Natural Resources Department	Form C-102 Revised August 1, 2011
District II		Submit one copy to
811 S. First Street, Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720	OIL CONSERVATION DIVISION	Appropriate District Office
District III	OIL CONSERVATION DIVISION	

1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170

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Phone: (575) 7-District III

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

## 1220 South St. Francis Drive Santa Fe, NM 87505

	Form	۱	C-102
evised	August	1,	2011

AMENDED REPORT

RECEIVED

111/21/235

WELL	LOCATION	ΔΝΠ	ACREAGE	DEDICATION	
MLLL	CODA: TON	mixu.	AUNCAUL	DEDICALION	1 6 4 1

_	API Numbe		ĺ	*Pool Coo 97232			*Pool Name		Farr	nington Field Office
30.03	9-3	1326		COS E	lureau	of Land Manageme				
*Property					Property	/ Name				Well Number
1703	S				ROSA L	JT_29		65	HI	<del>102</del> 1
'OGRID	No.				*Operator	Name				*Elevation
12078	15			WPX	ENERGY PR	ODUCTION, LL	С			6372
					<sup>10</sup> Sur face	Location			<b></b>	
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	est line	Caunty
А	25	31N	БW	1	1038	NORTH	324	EA	ST	RIO ARRIBA
		1	<sup>1</sup> Botto	m Hole	Location I	f Different	From Surface	9		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/W	est line	County
D	26	31N	6W		434	NORTH	560	WE	ST	RIO ARRIBA
<sup>12</sup> Dedicated Acres 592.16	IN,		ction ; ction ;		<sup>13</sup> Joint or Infill	<sup>14</sup> Cansolidation Code	<sup>15</sup> Order No.			

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

END-OF-LATERAL 434 FNL 560 FWL SECTION 26, T31N, R6W LAT: 36.876671 N LONG: 107.438665 W DATUM: NAD1927 POINT-OF-ENTRY 623' FNL 460' FEL SECTION 25, T31N, R6W LAT: 35.876143'N LONG: 107.408757'W DATUM: NAD1927 SURFACE LOCATION 1038' FNL 324' FEL SECTION 25, T31N, R6W LAT: 36.875003 'N LONG: 107.408290 'N DATUM: NAD1927 " OPERATOR CERTIFICATION <sup>27</sup> OPEHAIOH CEHIIFICALION 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 of working interest, or to a voluntary pooling agreement or a compulsary pooling order lengetofare entered by the division. LAT: 36,876149 N LONG: 107,409360 W LAT: 36.876676\*N LONG: 107.439269\*W DATUM: NAD1983 LAT: 36.875009 \*N LONG: 107.408893 \*W DATUM: NAD1983 DATUM: NAD 1983 (RECORD) WEST 1849.32 (RECORD) NO 03 E 2640.00 NO 09 21 W 2541.53 (MEASURED) 589 \*45 19 W 1849.19 ' (MEASURED) Ľ 214 Date (RECORD) EAST 2639.341 (RECORD) EAST 2639.34 (RECORD) WEST 2540.001 11 NB9 \*48 `10 °E 2636.78 (MEASURED) N89 \*47 '09'E 2641.71' (MEASURED) S89 45 27 W 2640.19 (MEASURED) 1038 <u>Henergo</u>.Co 16 434' 623' (PECORD) NO 03 E 2640.00 ' NO 11 20 W 2539.58 ' (MEASURED) \$ N08"59.3W 8750.1 18 (MEASURED) NO \*15 '24 'W 2640.08' NORTH 2540.00' (RECORD) NIO"29.1W 436.0 J SURVEYOR CERTIFICATION 560 324 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. LOT 1 ŝ L07 Date Revised: MARCH 20, 2015 Survey Date: FEBRUARY 6, 2015 26 -25 Signature and Seal of Professional Surveyor JASON C. EDWARDS OIL CONS. DIV DIST. 3 m (RECORD) NO \*03 E 2640.00 NO \*13 04 "W 2644.84" (MEASURED) 8 L01 (MEASURED) 0 \*14 '34 'W 2640.0 NORTH 2640.00 ' (RECORD) METICO FEM JUN 3 0 2015 Telester Andressian S. MEYOH 4 207 ŝ (MEASURED) S89 \*43 28 'W 2639.21' N89 \*57 W 2640.00' (MEASURED) (MEASURED) N89 \*44 '45 'E 2634.59 NB9 \*45 55 E 2640.69 EAST 2638.02 (RECORD) EAST 2638.02" (RECORD) (RECORD) 10) (MEASURED) NO 10 53 14 2639.35 NO 03 E 2640.00 (RECORD) (MEASURED) 589 \*45 '40 'W 1857.64 ' N89 \*57 W 1854.60 ' Jason DWARDS Certificate Number 15269 (RECORD)



### WPX ENERGY

#### **Operations Plan**

#### (Note: This procedure will be adjusted on site based upon actual conditions)

DATE:	5/15/15	FIELD:	Basin Mancos
WELL NAME:	ROSA UT 29 #102H	SURFACE:	BLM
SH Location:	NENE Sec 25-31N-06W	<b>ELEVATION</b> :	6372' GR
BH Location:	NWNW Sec 26-31N-06W Rio Arriba, NM	MINERALS:	BLM

#### MEASURED DEPTH: 16465'

I. <u>GEOLOGY:</u> Surface formation – San Jose

Name	MD	TVD	Name	MD	TVD
Ojo Alamo	2524	2512	Point Lookout	5722	5687
Kirtland	2647	2634	Mancos	6199	6160
Picture Cliffs	3169	3152	Kickoff Point	6651	6620
Lewis	3556	3536	Top Target	7328	7180
Chacra	4644	4616	Landing Point	7713	7307
Cliff House	5472	5439	Base Target	7713	7307
Menefee	5515	5481			
			TD	16465	7160

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

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

C. **NATURAL GAUGES:** Gauge any noticeable increases in gas flow. Record all gauges in Tour book and on morning reports.

#### II. DRILLING

- A. <u>MUD PROGRAM</u>: LSND mud (WBM) will be used to drill the 12-1/4" Surface hole and the 8 ¾" Directional Vertical portion of the wellbore. A LSND (WBM) or (OBM) will be used to drill the curve and lateral portions of wellbore. 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 5000 psi, so the BOPE will be tested to 250 psi (Low) for 5 minutes and 5000 psi (High) for 10 minutes. Pressure test surface casing to 1500psi 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. All tests and inspections will be recorded in the tour book as to time and results.

#### III. MATERIALS

#### A. CASING PROGRAM:

CASING TYPI	E OH SIZE (	N)	DEPTH (MD)	FI	CASING SIZE	(IN	WEIGHT(I	B <u>&amp;RAD</u> E
Surface	12.25"		320'+		9.625"		36#	J-55
Intermediate	8.75"		6551'		7"		23#	N-80
Prod. Liner	6.125"		6401' - 16465'		4-1/2"		11.6#	P-110
Tie-Back String	N/A		Surf 6401'		4-1/2"		11.6#	P-110

#### 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.
- 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 2,700 ft., 2,500 ft., 2,300ft., 2,000ft., 1,500 ft., and 1,000 ft.
- <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.
- 4. <u>TIE-BACK CASING:</u> Please see <u>Notes</u> below.

#### C. <u>CEMENTING:</u>

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

- <u>SURFACE</u>: 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.
- INTERMEDIATE: 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 cuft/ 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.
- <u>PRODUCTION LINER</u>: 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 (56 cu-ft) Water Spacer. Lead Cement: Extencem ™ System. Yield 1.36 cu ft/sk, 13.3 ppg, (805 sx / 1095 cu ft. / 194 bbls). Tail Spacer: 20 BBL of MMCR. Displacement: Displace w/ +/- 224 bbl Fr Water. Total Cement (1095 cu ft / 194 bbls).

#### ROSA UT 29 #102H Ops Plan

#### IV. COMPLETION

#### A. <u>CBL</u>

1. Run CCL for perforating.

#### B. 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.

#### C. STIMULATION

- 1. Stimulate with approximately 131,250# 100 mesh sand and 6,930,000# 40/70 mesh sand in 9,282,000 gallons water for 21 stages.
- 2. Isolate stages with flow through frac plug.
- 3. Drill out frac plugs and flowback lateral.

#### D. RUNNING TUBING

- 1. <u>Production Tubing</u>: Run 2-3/8", 4.7#, J-55, EUE tubing with a SN on top of bottom joint. Land tubing in the curve.
- Although this horizontal well will be drilled past the applicable setbacks, an unorthodox location application is not required because the completed interval in this well, as defined by 19.15.16.7 B(1) NMAC,will be entirely within the applicable setbacks. This approach complies with all applicable rules, including 19.15.16.14 A(3) NMAC, 19.15.16.14 B(2) NMAC, 19.15.16.15 B(2)NMAC, and 19.15.16.15. B(4) NMAC.

#### NOTE:

Installation of RSI sleeves at Toe of Lateral.

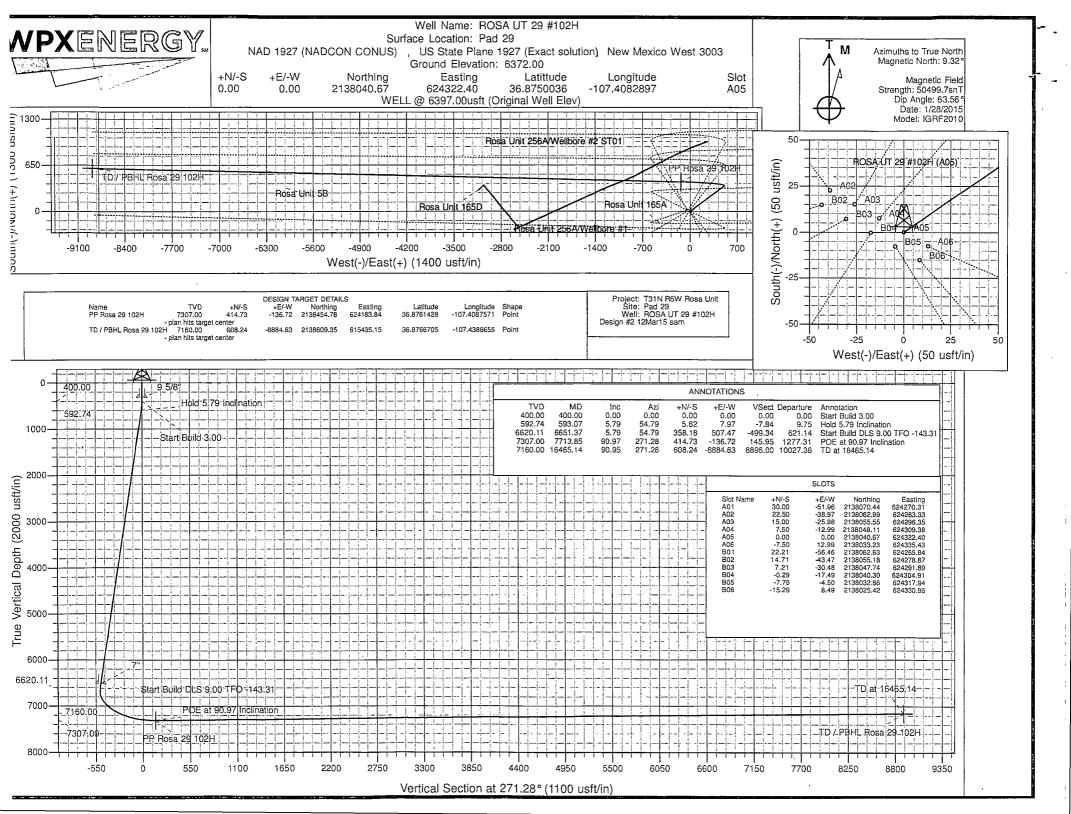
#### **Proposed Operations:**

A 4-1/2" 11.6# P-110 Liner will be run to TD and landed +/- 150 ft. into the 7" 23# K-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).

The Drilling Rig will be rigged down at this point and Completion operations will begin.

A 4-1/2" 11.6# P-110 tie-back string with seal assembly will be run and stung into the PBR of the liner hanger, tested to 1500 PSI and hung off at the surface.



# **WPX Energy**

T31N R6W Rosa Unit Pad 29 ROSA UT 29 #102H - Slot A05

Wellbore #1

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Plan: Design #2 12Mar15 sam

## **Standard Planning Report - Geographic**

18 March, 2015

WPX

#### Planning Report - Geographic

COMP. WPX E	ASS-SANJUAI	N		Local Co-	ordinate Refe	rence: \	Well ROSA UT 2	9 #102H (A0	5) - SIDI AUS
VVPX E	·nerov								1347-11 (21-3)
TO (1) (				TVD Refe			WELL @ 6397.0		
	R6W Rosa Uni	t		MD Refer			WELL @ 6397.0	Ousft (Origina	il Well Elev)
				Survey Ca	alculation Met	hod: I	Minimum Curvat	ure	
Wellbo	re #1								
Design	#2 12Mar15 s	am							
<b>T31N</b> R	6W Rosa Unit					· · · · · · · · · · · · · · · · · · ·			
			)	System Dat	tum:	Me	ean Sea Level		
New Mex	ico West 3003								
Pad 29			· ·			·······			
		Nort	hing:	2,138	,085.32 usft	Latitude:			36.8751272
Map			-						-107.4085562
			-		13.20 in	-	ence:		0.25 °
POSAL	T 20 #102U	Slot A05	-	· · · ·		· · · ·	· · · · ·		· · · ·
					0 400 040 67				36,8750036
-			•						
+E/-W			-				-		-107.4082898
	0.0	00 usft V	Vellhead Elevati	on:	0.00	usft Gro	und Level:		6,372.00 usf
Wellboy									
Ma	del Name			Doclina		Din A		Field	Strongth
WOU	lei Maine	Jaint	Je Dale	(°)	luon	-	-		nT)
	IGRF2010		1/28/2015		9.32	· · · · · · · · · · · · · · · · · · ·	63.56		50,500
Design	#2 12Mar15 sa	am				· · · ·	1 g 1 1 1 1 1 1 1 1 1 1		
		Pha	se: P	LAN	Tie	On Depth:	1	0.00	
	D	epth From (1	rvd)	+N/-S	+E	/-W	Dire	ection	
		(usft)		(usft)	(u	sft)		(°)	
		0.00		0.00	0.	00	27	1.28	
	*	· · · ·	. <u> </u>				·····		
	Azimuth	Vertical Depth (usft)	+N/-Ś	+E/-W	Dogleg Rate (°/100usft)	Build Rate (°(100usft)	Turn Rate (°/100usff)	TFO	Torest
, 		(11311)	(usit)	(usit)	( / ioousit)	( / 100051C)			Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	0.00	400.00	0.00	0.00	0.00			0.00	
5.79	54.79	592.74	5.62	7.97	3.00	3.00	0.00	54.79	
5.79	54.79	6,620.11	358.18	507.47	0.00	0.00	0.00	0.00	
90.97	271.28	7,307.00	414.73	-136.72	9.00	8.02	-13.51	-143.31	PP Rosa 29 102H
	ROSA Wellbor Design T31N R US State NAD 1927 New Mex Pad 29 Map ROSA U +N/-S +E/-W Wellbor Design a Design a	T31N R6W Rosa Unit         US State Plane 1927 (E         NAD 1927 (NADCON C         New Mexico West 3003         Pad 29         Map         0.00         ROSA UT 29 #102H - 5         +N/-S       0.0         +E/-W       0.0         Wellbore #1         Model Name         IGRF2010         Design #2 12Mar15 sa         D         nation       Azimuth         (°)         0.00       0.00         5.79       54.79	ROSA UT 29 #102H         Wellbore #1         Design #2 12Mar15 sam         T31N R6W Rosa Unit         US State Plane 1927 (Exact solution NAD 1927 (NADCON CONUS)         New Mexico West 3003         Pad 29         Nort         Map       East         0.00 usft       Nort         ROSA UT 29 #102H - Slot A05         + N/-S         0.00 usft       Nort         ROSA UT 29 #102H - Slot A05         + N/-S         0.00 usft       Nort         Wellbore #1         Model Name         Vertical         Design #2 12Mar15 sam       Pha         Depth From (' (usft)         0.00         0.00         Uritical Depth from ('         Depth (usft)         0.00         Nort         Model Name         Depth From ('         Uritical Depth         Depth from ('         0.00         0.00	ROSA UT 29 #102H         Wellbore #1         T31N R6W Rosa Unit         US State Plane 1927 (Exact solution)         NAD 1927 (NADCON CONUS)         New Mexico West 3003         Pad 29         Northing:         Map       Easting:         0.00 usft       Slot Radius:         ROSA UT 29 #102H - Slot A05         +N/-S         0.00 usft       Northing:         +N/-S       0.00 usft       Northing:         +E/-W       0.00 usft       Easting:         0.00 usft       Wellhead Elevati         Wellbore #1           Wellbore #1        1/28/2015         Design #2 12Mar15 sam         Phase:       P         Opepth From (TVD)         (usft)       0.00       0.00         0.00       0.00         Depth From (TVD)         (usft)       (usft)       (usft)         0.00       0.00       0.00       0.00         0.00       0.00       0.00       0.00         Sample Date         Phase	ROSA UT 29 #102H       Survey Citized         Wellbore #1       Design #2 12Mar15 sam         T31N R6W Rosa Unit       US State Plane 1927 (Exact solution)       System Date         NAD 1927 (NADCON CONUS)       New Mexico West 3003       System Date         Pad 29       Northing:       2,138         Map       Easting:       624         0.00 usft       Slot Radius:       624         ROSA UT 29 #102H - Slot A05       *         *N/-S       0.00 usft       Northing:         *N/-S       0.00 usft       Easting:         0.00 usft       Sample Date       Declina         Wellbore #1	ROSA UT 29 #102H         Survey Calculation Met           Wellbore #1         Design #2 12Mar15 sam         System Datum:           T31N R6W Rosa Unit         US State Plane 1927 (Exact solution) NAD 1927 (NADCON CONUS)         System Datum:           Nap         Easting:         624,244.26 usft           Map         Easting:         624,244.26 usft           0.00 usft         Stot Radius:         13.20 in           ROSA UT 29 #102H - Slot A05           +N/-S         0.00 usft           Northing:         2,138,085.32 usft           0.00 usft         Stot Radius:         13.20 in           ROSA UT 29 #102H - Slot A05           +N/-S         0.00 usft           Vertical         Declination           (°)           Wellbore #1         0.00 usft         Wellhead Elevation:         0.00           Users:         PLAN         Tite           Design #2 12Mar15 sam           Depth From (TVD)         +N/-S         +E/-W           (usft)         (usft)         (usft)         (usft)           0.00         0.00         0.00         0.00         0.00           0.00         0.00 <td< td=""><td>ROSA UT 29 #102H         Survey Calculation Method:         I           Wellbore #1         Design #2 12Mar15 sam        </td><td>ROSA UT 29 #102H         Survey Calculation Method:         Minimum Curvat           Wellbore #1         Design #2 12Mar15 sam         Minimum Curvat           T31N R6W Rosa Unit         US State Plane 1927 (Exact solution) ND 1927 (NACCON CONUS)         System Datum:         Mean Sea Level           NAD 1927 (NACCON CONUS)         Northing:         2,138,085.32 usft         Latitude:           Pad 29         0.00 usft         Stot Radius:         13.20 in         Grid Convergence:           ROSA UT 29 #102H - Slot A05         =         13.20 in         Grid Convergence:         13.20 in           ROSA UT 29 #102H - Slot A05         =         =         624,322.41 usft         Longitude:           +N/-S         0.00 usft         Basting:         624,322.41 usft         Longitude:           0.00 usft         Basting:         624,322.41 usft         Longitude:           0.00 usft         Wellhead Elevation:         0.00 usft         Ground Level:           Wellbore #1        </td><td>ROSA UT 29 #102H Wellbore #1         Survey Calculation Method:         Minimum Curvature           Design #2 12Mar15 sam         ''''''''''''''''''''''''''''''''''''</td></td<>	ROSA UT 29 #102H         Survey Calculation Method:         I           Wellbore #1         Design #2 12Mar15 sam	ROSA UT 29 #102H         Survey Calculation Method:         Minimum Curvat           Wellbore #1         Design #2 12Mar15 sam         Minimum Curvat           T31N R6W Rosa Unit         US State Plane 1927 (Exact solution) ND 1927 (NACCON CONUS)         System Datum:         Mean Sea Level           NAD 1927 (NACCON CONUS)         Northing:         2,138,085.32 usft         Latitude:           Pad 29         0.00 usft         Stot Radius:         13.20 in         Grid Convergence:           ROSA UT 29 #102H - Slot A05         =         13.20 in         Grid Convergence:         13.20 in           ROSA UT 29 #102H - Slot A05         =         =         624,322.41 usft         Longitude:           +N/-S         0.00 usft         Basting:         624,322.41 usft         Longitude:           0.00 usft         Basting:         624,322.41 usft         Longitude:           0.00 usft         Wellhead Elevation:         0.00 usft         Ground Level:           Wellbore #1	ROSA UT 29 #102H Wellbore #1         Survey Calculation Method:         Minimum Curvature           Design #2 12Mar15 sam         ''''''''''''''''''''''''''''''''''''

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## Planning Report - Geographic

Database:	COMPASS-SANJUAN	Local Co-ordinate Reference:	Well ROSA UT 29 #102H (A05) - Slot A05
Company:	WPX Energy	TVD Reference:	WELL @ 6397.00usft (Original Well Elev)
Project:	T31N R6W Rosa Unit	MD Reference:	WELL @ 6397.00usft (Original Well Elev)
Site:	Pad 29	North Reference:	True
Well:	- ROSA UT 29 #102H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2 12Mar15 sam		

#### Planned Survey

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Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	2,138,040.67	624,322.41	36.8750036	-107.4082
320.00	0.00	0.00	320.00	0.00	0.00	2,138,040.67	624,322.41	36.8750036	-107.4082
9 5/8"			• • •			ĩ		· ·	
400.00	0.00	0.00	400.00	0.00	0.00	2,138,040.67	624,322.41	36.8750036	-107.4082
Start Bui	ld 3.00					••	• • •		
500.00	3.00	54.79	499.95	1.51	2.14	2,138,042.18	624,324.54	36,8750078	-107,408
593.07	5.79	54.79	592.74	5.62	7.97	2,138,046.32	624,330.35	36.8750191	-107.408
Hold 5.79	Inclination				•		·- ·· · ·· ··		
1,000.00	5.79	54.79	997.59	29.30	41.52	2,138,070.15	624,363.79	36.8750841	-107.408
1,500.00	5.79	54.79	1,495,04	58,40	82.74	2,138,099.43	624,404,89	36.8751640	-107,408
2,000.00	5.79	54.79	1,992.49	87,50	123.97	2,138,128.71	624,445.98	36.8752440	-107.4078
2,500.00	5.79	54.79	2,489.94	116.59	165.19	2,138,157.99	624,487.08	36.8753239	-107.407
3,000.00	5.79	54.79	2,987.38	145.69	206.42	2,138,187.27	624,528.17	36.8754038	-107.407
3,500.00	5.79	54.79	3,484.83	174.79	247.64	2,138,216.55	624,569.27	36.8754837	-107.407
4,000.00	5.79	54.79	3,982.28	203.88	288,87	2,138,245.83	624,610.36	36.8755636	-107.407
4,500.00	5.79	54,79	4,479.73	232.98	330.09	2,138,275.11	624,651.46	36.8756436	-107.407
5,000.00	5.79	54.79	4,977.17	262.08	371.32	2,138,304.39	624,692.55	36.8757235	-107.4070
5,500.00	5.79	54.79	5,474.62	291.17	412.54	2,138,333.67	624,733.65	36.8758034	-107.406
6,000.00	5.79	54.79	5,972.07	320.27	453.76	2,138,362.95	624,774.74	36.8758833	-107.406
6,500.00	5.79	54.79	6,469,52	349.37	494.99	2,138,392.23	624,815,84	36.8759633	-107,406
6,551.00	5.79	54.79	6,520.25	352.34	499.19	2,138,395.22	624,820.03	36.8759714	-107.406
7"		. <b></b>				- p			
6,651.37	5.79	54.79	6,620.11	358.18	507.47	2,138,401.10	624,828.28	36.8759874	-107.4065
1 and to all denotes to take	Id DLS 9.00 T	the second se				· ·			
7,000.00	26.93	278.17	6,957.42	380.09	442.04	2,138,422.72	624,762.75	36.8760476	-107.4067
7,500.00	71.76	272.48	7,275.05	407.88	73.60	2,138,448.87	624,394.19	36.8761240	-107.4080
7,713.85	90.97	271.28	7,307.00	414.73	-136.72	2,138,454.78	624,183.84	36.8761428	-107.4087
POE at 9	0.97 Inclinatio	n							
8,000.00	90.97	271.28	7,302.15	421.11	-422.76	2,138,459.89	623,897.78	36.8761603	-107.4097
8,500.00	90.97	271.28	7,293.69	432.26	-922.56	2,138,468.81	623,397.93	36.8761909	-107.4114
9,000.00	90.97	271.28	7,285.23	443.39	-1,422.37	2,138,477.72	622,898.08	36.8762214	-107.4131
9,500.00	90.97	271.27	7,276.79	454.51	-1,922.17	2,138,486.62	622,398.23	36.8762519	-107.4148
10,000.00	90.97	271.27	7,268.35	465.62	-2,421.98	2,138,495.50	621,898.38	36.8762823	-107.4165
10,500.00	90.97	271.27	7,259.92	476.72	-2,921.78	2,138,504.37	621,398.53	36.8763127	-107.4182
11,000.00	90.96	271.27	7,251.50	487.81	-3,421.59	2,138,513.24	620,898.68	36.8763430	-107.4199
11,500.00	90.96	271.27	7,243.09	498.89	-3,921.40	2,138,522.09	620,398.83	36.8763732	-107.4216
12,000.00	90.96	271.27	7,234.68	509.95	-4,421.20	2,138,530.93	619,898.98	36.8764034	-107.4234
12,500.00	90.96	271.27	7,226.29	521.00	-4,921.01	2,138,539.75	619,399.13	36.8764335	-107.4251
13,000.00	90.96	271.27	7,217.90	532.04	-5,420.82	2,138,548.57	618,899.27	36.8764636	-107.4268
13,500.00	90.96	271.26	7,209.52	543.07	-5,920.63	2,138,557.37	618,399.42	36.8764936	-107.4285
14,000.00	90.96	271.26	7,201.15	554.09	-6,420.43	2,138,566.17	617,899.57	36.8765236	-107.4302
14,500.00	90,96	271.26	7,192.79	565.10	-6,920.24	2,138,574.95	617,399.72	36.8765535	-107.4319
15,000.00	90.96	271.26	7,184.43	576.09	-7,420.05	2,138,583.72	616,899.86	36.8765833	-107.4336
15,500.00	90,96	271.26	7,176.09	587.08	-7,919.86	2,138,592.48	616,400.01	36.8766131	-107.4353
16,000.00	90.96	271.26	7,167.75	598.05	-8,419.67	2,138,601.22	615,900.15	36.8766428	-107.4370
16,465.14	90.95	271.26	7,160.00	608.24	-8,884.63	2,138,609.35	615,435.15	36,8766705	-107,4386

## WPX

## Planning Report - Geographic

Database:	COMPASS			Local Co-ordinate Reference:			WELL @ 6397.00usft (Original Well Elev)			
Company:	WPX Energ	У			TVD Reference:					
Project:	T31N R6W	Rosa Unit			MD Reference: North Reference:		WELL @ 6397.00usft (Original Well Elev) True			
Site:	Pad 29									
Well:	ROSA UT 29 #102H				Survey Calculation Method:		Minimum Curvature			
Wellbore:	Wellbore #									
Design:	Design #2	2Mar15 sám				. *				
Design Targets	···· ·	· · · · · · · · · · · · · · · · · · ·	-		- · ·					
Target Name										
<ul> <li>hit/miss target</li> </ul>	Dip Angle Dip Dir.			+N/-S	+E/-W	Northing	Easting	•		
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	Latitu	de	Longitude
TD / PBHL Rosa 29 102 - plan hits target cer - Point		0 0.00	7,160.00	608.24	-8,884.63	2,138,609.35	615,435.15	36	.8766705	-107.4386655
PP Rosa 29 102H	0.0	0 0.00	7,307.00	414.73	-136.72	2,138,454.78	624,183.84	36	.8761428	-107.4087572
- plan hits target cer - Point	nter									
- plan hits target cer	nter				·····	<u>_</u>				
- plan hits target cer - Point Casing Points Mea D	nter asured epth usft)	Vertical Depth (usft)			Name		Casi Diam (ir	eter	Hole Diameter (in)	
- plan hits target cer - Point Casing Points Mea D	asured epth usft)	Depth (usft)	9 5/8"		Name		Diam	eter )	Diameter (in)	
- plan hits target cer - Point Casing Points Mea D (t	asured epth	Depth (usft) 320.00	9 5/8" 7"		Name		Diam	eter	Diameter	
- plan hits target cer - Point Casing Points Mea D (t	asured epth usft) 320.00	Depth (usft) 320.00			Name		Diam	eter ) 9.62	Diameter (in) 12.25	
- plan hits target cer - Point Casing Points Mea D (t Plan Annotations	asured epth usft) 320.00 6,551.00	Depth (usft) 320.00 6,520.25	7"	Coordinates			Diam	eter ) 9.62	Diameter (in) 12.25	
- plan hits target cer - Point Casing Points Mea D (1	asured epth usft) 320.00 6,551.00 red V	Depth (usft) 320.00	7" Local (	Coordinates +F			Diam	eter ) 9.62	Diameter (in) 12.25	
- plan hits target cer - Point Casing Points Mea D (t Plan Annotations Measur	asured epth usft) 320.00 6,551.00 red V	Depth (usft) 320.00 6,520.25	7"	+6		Comment	Diam	eter ) 9.62	Diameter (in) 12.25	
- plan hits target cer - Point Casing Points Mea D (t Plan Annotations Measur Depti (usft	red V h 1	Depth (usft) 320.00 6,520.25 ertical Depth (usft)	7" Local ( +N/-S (usft)	+i (u	E/-W Isft)		Diam	eter ) 9.62	Diameter (in) 12.25	
- plan hits target cer - Point Casing Points Mea D (I Plan Annotations Measur Depti (usft 40	Isured epth usft) 320.00 6,551.00 red V h I ) 0.00	Depth (usft) 320.00 6,520.25 ertical Depth	7" Local ( +N/-S	+E (u	=/- <b>W</b>	Comment Start Build 3.00 Hold 5.79 Inclination	Diam (ir	eter ) 9.62	Diameter (in) 12.25	
- plan hits target cer - Point Casing Points Mea D (1) Plan Annotations Measur Deptil (usft) 40 59	asured epth usft) 320.00 6,551.00 red V h J 0.00 3.07	Depth (usft) 320.00 6,520.25 ertical Depth (usft) 400.00	7" Local ( +N/-S (usft) 0.00	+E (u )	<b>z/-W</b> Is <b>ft)</b> 0.00	Start Build 3.00	Diam (in	eter ) 9.62	Diameter (in) 12.25	
- plan hits target cer - Point Casing Points Mea D (1) Plan Annotations Measur Deptil (usft 40 59	asured epth usft) 320.00 6,551.00 red V h J ) 0.00 3.07 1.37	Depth (usft) 320.00 6,520.25 ertical Depth (usft) 400.00 592.74	7" Local ( +N/-S (usft) 0.00 5.62	+E (u	E/-W Isft) 0.00 7.97	Start Build 3.00 Hold 5.79 Inclinatior	Diam (in - - - - - - - - - - - - - - - - - - -	eter ) 9.62	Diameter (in) 12.25	

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- D. Well pad
  - 1. The construction phase of the project will commence upon receipt of the approved APD.
  - 2. Vegetation and topsoil removal, storage, and protection are described in detail in the Reclamation Plan (Appendix C).
  - 3. The well pads would be leveled to provide space and a level surface for vehicles and equipment. Excavated materials from cuts will be used on fill portions of the well pad to level the pad. No additional surfacing materials will be required for construction.
  - 4. As determined during the onsites on January 7, 2015 and March 11, 2015, the following best management practices will be implemented:
    - a. The Rosa UT 27 will be co-located with the Rosa Unit 204A.
    - b. The Rosa UT 29 will be co-located with the Rosa Unit 165A and facilities will be placed on the existing 165A well pad. The existing access road will be re-routed to accommodate for the new wells and production equipment.
    - c. No additional fill would be required to construct the pad.
    - d. Diversions will be installed upon reclamation.
  - 5. 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.
  - 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.
- E. Production Facilities
  - 1. As practical, access will be a teardrop-shaped road through the production area so that the center may be revegetated.
  - 2. 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.
  - 3. 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.
- F. Recycling Containment
  - 1. Recycling containments are governed by the NMOCD and would be constructed in compliance with their rules.
  - Prior to constructing the Section 30 Recycling Containment, topsoil will be stripped and stockpiled for use as final cover during reclamation. Topsoil will be stockpiled within a Temporary Use Area (TUA), approximately 2 acres in size, located adjacent to and outside of the perimeter fence surrounding the recycling containment (Figure 8, Appendix B). Topsoil stockpiles will be reseeded and BMP's utilized as appropriate to reduce soil erosion.
  - 3. The spoil from the holding pond will be utilized to reclaim a large, incised, abandoned arroyo directly west of the recycling containment. The area to be reclaimed is estimated at approximately 3 acres. Within the proposed arroyo reclaim area, spoil will be stockpiled approximately 10 feet above grade for the life of the recycling containment and then reclaimed back to blend with the surrounding grade upon final reclamation (Figure 8, Appendix B).
  - 4. The holding pond would be approximately 700 feet by 300 feet and 25 feet deep. Total volume would be 622,708 barrels. The inside grade of the levee would be no steeper

than two horizontal feet to one vertical foot (2H:1V) and the outside grade no steeper than 3H:1V.

- 5. The recycling containments will be lined with a 45-mil LLDPE primary (upper) liner and a 30-mil LLDPE secondary (lower) liner with a leak detection system between the upper and lower geomembrane liners. Liners will be installed in a manner consistent with the manufacture's specifications.
- 6. The leak detection system will contain a 200-mil Hypernet drainage material between the primary and secondary liner that is sufficiently permeable to allow the transport of fluids to the drainage pipes and observation ports. When the holding pond contains fluid, the liners will be inspected daily.
- 7. The holding ponds will be netted with extruded polypropylene netting (3 ½ cm sized mesh). It will be supported by a system of perimeter and interior support poles and cables specifically designed to each individual pond for the purpose of excluding birds, bats and other small mammals. The entire perimeter of the netting enclosure will have a 2-foot net overhang on the ground to prevent small animals from entering the enclosure (See Appendix D). The support cable used along the perimeter and interior of the enclosure consists of ¼" 7 x 19 galvanized aircraft cable. The netting is woven to the perimeter cable with a 2.5 mm poly wire. The netting enclosure will be secured at ground level with a 4mm corrosion resistant poly wire. The netting enclosure will include double gates for access into the holding pond when needed. Appendix D further describes and illustrates the netting enclosure that will be implemented and how it will be constructed.
- 8. The outer perimeter of the recycling containment will be fenced to exclude wildlife and livestock. The game fence will be 8 feet tall. It will consist of woven wire fencing and two strands of 12½ GA barbed wire at the top and bottom. The first strand of barbed wire will be strung 2 inches from ground surface. The bottom of the woven wire will be placed 2 inches above the first strand of barbed wire. Two levels of woven wire fencing fabric, overlapping each other by 3 inches and totaling 7 feet 6 inches in height will be stapled to the wooden posts. A second strand of barbed wire will be strung 1 inch from the top of the woven wire. Two wooden stays will be stapled to the woven wire at 5-foot, 4-inch intervals between wooden posts. Refer to Appendix E Game Fence Detail for specific construction and material details.
- 9. The entire disturbed area will be completely reclaimed when all drilling and completion activities have been concluded.

#### ✓ G. Cuttings Disposal

- Cuttings will be buried within the existing disturbance of two sandstone quarry pits. These pits were previously permitted under a free use permit with the BLM-FFO and have expired. WPX is in the process of renewing these free use permits in order to utilize the remaining material for road maintenance. Cuttings buried at the Section 23 Cuttings Disposal would be located within the existing Rosa Rock Pit #4 (FUP NM-070-90-04CX). Cuttings buried at the Section 25 Recycling Containment would located within the existing Rosa Pit #165 (FUP NM-070-01-472CX). The cuttings will be utilized to reclaim and restore the area to near original land contours.
- 2. Once the quarry has been depleted of its resources, drill cuttings will be tested and placed within the pits and continue until storage of the cuttings disposal meets capacity or drilling of all permitted wells associated with the cuttings disposal is complete, whichever comes first, at which point it will be closed and the area reclaimed.

3. Cuttings disposal construction, operation and closure will be permitted and regulated under NMOCD Rule 17.

After the completion phases and pipeline installation, portions of the project area not needed for operation will be reclaimed. When all 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 Section 23 cuttings disposal and/or a cuttings disposal at Section 25 recycling containment. 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. If oil-based mud drilling is used, a closed-loop system will be used to minimize potential impacts to surface and groundwater quality. A 30-mil reinforced liner will be placed under the drill rig mats and all drilling machinery. This area will be enclosed by a containment berm and ditches, which will drain to sump areas for spill prevention and control. The containment berm will be ramped to allow access to the solids control area.
- 3. 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 Figure 11 and 12 in Appendix B for the location of toilets).
- E. Garbage and other waste material
  - 1. All garbage and trash will be placed in a metal trash basket. The trash and garbage will be hauled off site and dumped in an approved landfill, as needed.
- F. Hazardous Waste
  - 1. 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.
  - 2. No extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completing of these wells.
  - 3. All fluids (i.e., scrubber cleaners) used during washing of production equipment will be properly disposed of to avoid ground contamination or hazard to livestock or wildlife.

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

#### in Bloomfield, NM to WPX Energy Production, LLC Rosa UT 29 #102H

#### 1038' FNL & 324' FEL, Section 25, T31N, R6W, N.M.P.M., Rio Arriba County, NM

#### Latitude: 36.875009°N Longitude: 107.408893°W Datum: NAD1983

From the intersection of US Hwy 550 & US Hwy 64 in Bloomfield, NM, travel Easterly on US Hwy 64 for 38.0 miles to Mile Marker 102.3 to State Hwy 527 (Simms Hwy);

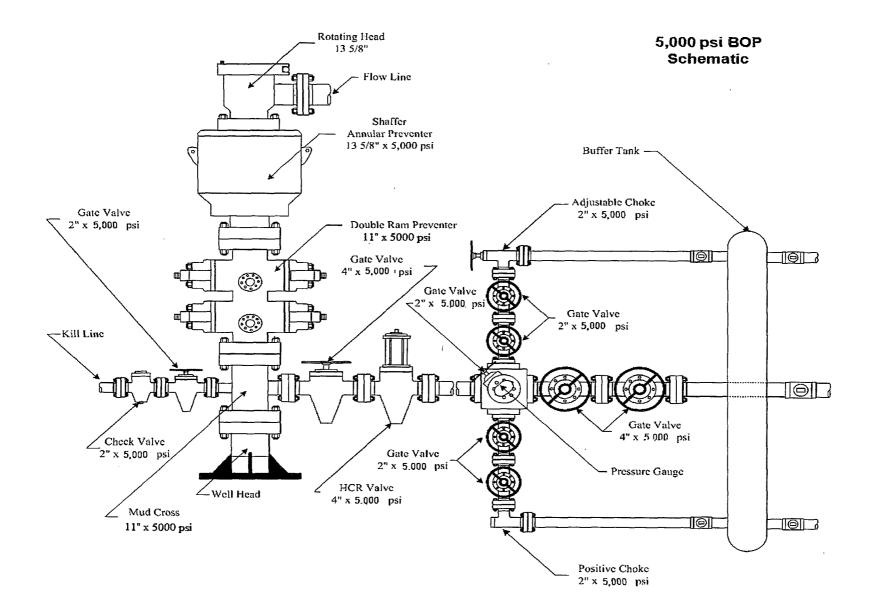
Go Left (North-westerly) on State Hwy 527 (Simms Hwy) for 7.9 miles to Rosa Road @ La Jara Station;

Go Right (Northerly) on Rosa Road for 6.5 miles to 4-way intersection:

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Go Left which is straight (North-easterly) remaining on Rosa Road for 4.0 miles to 4-way intersection;

Go Straight (Northerly) for 0.4 miles to staked WPX Rosa UT 29 #102H location which overlaps existing WPX Rosa UT #165A location.



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