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



Brett F. Woods, Ph.D. **Deputy Cabinet Secretary**

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: 4-27-15 Well information; Operator WPX, Well Name and Number Rose Unit 27 # 103 H
API# $30.039-31315$, Section 19 , Township 31 NS, Range 5 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 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
- 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

UNITED STATES

RECEIVED

OMB No. 1004 Expires January 31, 2004

7. If Unit or CA Agreement, Name and No.

DEPARTMENT OF THE INTERIO
BUREAU OF LAND MANAGEMENT

Septer

SF-078771

5. Lease Serial No.

ADDI	ICATION.	FOD	DEDMIT	TO	ווממ	OD	DECNITE	3
APPL	JUATION	FUR	PERMIII	10	DKILL	UK	REENTER	<

6. If Indian, Allottee or Tribe Name

Ia. Type of work.		Farm	ington Fiel	ld Office	Rosa Unit R-13457	
			of Land Ma	anagemen	8. Lease Name and Well No.	
1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other	⊠ Sii	ngle Zone	☐ Multip	le Zone	Rosa UT 27 103H	
2. Name of Operator					9. API Well No.	
WPX Energy Production, LLC					30-039-313	515
3a. Address	3b. Phone No.	. (include a	rea code)		10. Field and Pool, or Explorate	ory
P.O. Box 640 Aztec, NM 87410	(505) 333-18				Basin Mancos	
4. Location of Well (Report location clearly and in accordance with any	State requireme	ents. *)			11. Sec., T., R., M., or Blk. and	Survey or Area
At surface 975' FNL & 524' FWL, sec 19, T31N, R5W					CIII . Castion 10 T21N D5W	T
At proposed prod. zone 1282' FNL & 22' FEL, sec 23, T31N, R6W	V				SHL: Section 19, T31N, R5W BHL: Section 23, T31N, R6W	
14. Distance in miles and direction from nearest town or post office*					12. County or Parish	13. State
Approximately 58 miles East from Bloomfield NM					Rio Arriba	NM
15. Distance from proposed*	16. No. of A	cres in leas	e	17. Spacing	g Unit dedicated to this well	
location to nearest property or lease line, ft.		0 -				
(Also to nearest drig. unit line, if any) 524	840.00		V	1	West Rosa Unit Project Area 24,	18.76 Acres
 Distance from proposed location* to nearest well, drilling, completed, 	19. Proposed	d Depth		20. BLM/B	IA Bond No. on file	
applied for, on this lease, ft.						
21. Flooring (Changebather DE VDB BT CL etc.)	12,215 MD			UTB00		
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approxi	imate date	WOLK WIII ST	art	23. Estimated duration	
6305' GR	June 1, 2015	1			1 month	
	24. Attac	chments				
The following, completed in accordance with the requirements of Onshore	e Oil and Gas (Order No.1,	shall be atta	ched to this	form:	
1. Well plat certified by a registered surveyor.	1	4 Bond	to cover the	onerations	unless covered by an existing l	ond on file (see
2. A Drilling Plan.		Item	20 above).	-	anness covered by an extension	ond on me (see
3. A Surface Use Plan (if the location is on National Forest System I	Lands, the		tor certifica			
SUPO shall be filed with the appropriate Forest Service Office).			other site sprized officer		mation and/or plans as may be	required by the
25. Signature	Name	(Printed/Typ	ed)		Date_	
Though of 1/17	Andrea		cuy		21.	27-2015
Title	Andrea	renx				21001
Regulatory Specialist Senior						
Approved by (Signature)	Name	(Printed/Typ	ed)		Date	1
It Il Caulle lorg					6	117/15
Title AFM	Office	F	FO		,	,
Application approval does not warrant or ceftify that the applicant holds le	egal or equitable	le title to the	ose rights in	the subject le	ease which would entitle the appl	icant to conduct
operations thereon. Conditions of approval, if any, are attached.						

States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United

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

The well pad surface is on lease on BLM surface within the Rosa Unit and will be co-located with the Rosa UT 101H / Rosa UT 102H / Rosa UT 104H / Rosa UT 105H / Rosa UT 106H / Rosa UT 107H / Rosa UT 108H / Rosa UT 109H & Rosa UT 110H.

This location has been archaeologically surveyed by LaPlata Archeology. Copies of their report have been submitted directly to the BLM.

New access road is approximately 71.0' on lease on BLM surface APPROVAL OR ACCEPTANCE OF THIS

New pipeline is approximately 5,956.7' with 1,623.4' on lease on BLM surface and 4,333.3' on NM Game & Fish surface. A grant of easement is currently being processed by the NM Game & Fish portion for their portion of the pipeline.

and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS

DRILLING OPERATIONS OIL CONS. DIV DISCOMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS"

NMOCD N

JUN 1 9 2015

District I 1625 N. French Drive, hohors: (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

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

District IV

State of New Mexico Energy, Minerals & Natural Resources Department Form C-102 Revised August 1, 2011

Submit one copy to Appropriate District Office

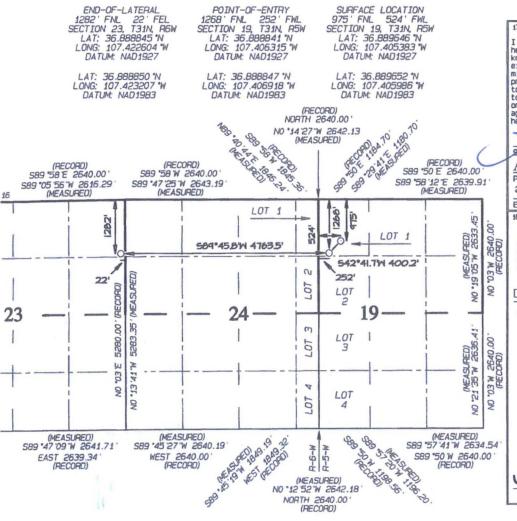
AMENDED REPORT

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

1/	PI Number	Γ .		Pool Coo	le		Pool Nam	е	
30-0	39-	31315		97232	2		BASIN MAN	COSIrmington I	Field Office
Property	Code				*Property	y Name		Bureau of Land	ell Number
31490	9				ROSA L	JT 27			103H
OGRID I	No.				*Operator	Name		9 9	Elevation
12078	2			WPX	ENERGY PR	ODUCTION, LL	.C		6305
					¹⁰ Surface	Location			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
С	19	31N	5W	1	975	NORTH	524	WEST	ARRIBA
		1	1 Botto	m Hole	Location I	f Different	From Surfac	е	
UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Α	23	31N	6W		1282	NORTH	22	EAST	RIO ARRIBA
		ection 23 & 2			¹³ Joint or Infill	¹⁴ Consolidation Code	⁸⁵ 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



OPERATOR CERTIFICATION "UPERATUR CERTIFICATION
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom-hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order hereforce entered by the division. 4-15-2015 Date Andrea Felix Printed Name andrea.felix@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: MARCH 16, 2015 Date of Survey: JANUARY 2, 2015 Signature and Seal of Professional Surveyor SE CH MEXICO MEXICO **JEW** POFESSION. SAME YOR **DWARDS**

Certificate Number

15269



WPX ENERGY

Operations Plan

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

DATE:

4/14/15

FIELD:

Basin Mancos

WELL NAME:

ROSA UT 27 #103H

SURFACE:

BLM

SH Location:

NWNW Sec 19-31N-05W

ELEVATION: 6305' GR

BH Location:

NWNW Sec 24-31N-06W

MINERALS:

BLM

MEASURED DEPTH: 12215'

Rio Arriba, NM

I. GEOLOGY:

Surface formation - San Jose

A. FORMATION TOPS: (KB)

Name	MD	TVD	Name	MD	TVD
4					
Ojo Alamo	2437	2429	Point Lookout	5662	5639
Kirtland	2534	2526	Mancos	5969	5945
Picture Cliffs	3363	3351	Kickoff Point	6372	6354
Lewis	3635	3622	Top Target	6890	6809
Chacra	4592	4574	Landing Point	7445	7032
Cliff House	5388	5367	Base Target	7445	7032
Menefee	5434	5412			
			TD	12215	6807

- B. **MUD LOGGING PROGRAM:** Mudlogger on location from surface csq 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 and the 8 3/4" Directional Vertical hole of the wellbore, A LSND (WBM) or (OBM) will be used to drill the curve portion and 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 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 TYPE	OH SIZE (IN)	DEPTH (MD) (FT)	CASING SIZE (IN)	WEIGHT(LB)	GRADE
Surface	12.25"	320'+	9.625"	36#	J-55
Intermediate	8.75"	6271'	7"	23#	N-80
Long string	6.125"	12215'	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.
- 2. <a href="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.
- 3. <u>PRODUCTION CASING:</u> Run 4-1/2" csg with cement nose guide Float Shoe + 2jts. of 4-1/2" casing + Landing Collar + 4-1/2" pup joint + 1 RSI (Sliding Sleeve). Centralizer program will be determined by Wellbore condition and when Lateral is evaluated by Geoscientists and Reservoir Engineers.
- 4. TIE-BACK CASING: None.

C. CEMENTING:

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

- SURFACE: 5 bbl Fresh Water Spacer, 100 sx (160 cu.ft.) of 14.5 ppg Type I-II (Neat G) + 20% Fly Ash cement w/ 7.41 gal/sack mix water ratio @ 1.61 cu ft/sx yield. Calculated @ volume + 50% excess. WOC 12 hours. Test csg to 600psi. Total Volume: (160 cu-ft/100 sx/ Bbls).TOC at Surface.
- 2. INTERMEDIATE: 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. PRODUCTION CASING: 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 1.29 cu ft/sk, 13.5 ppg, (505 sx / 652 cu ft. / 116 bbls). Tail Spacer: 20 BBL of MMCR. Displacement: Displace w/ +/- 170 bbl Fr Water. Total Cement (652 cu ft / 116 bbls).

IV. COMPLETION

A. CBL

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 87,500# 100 mesh sand and 4,620,000# 40/70 mesh sand in 6,188,000 gallons water for 14 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 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.

WPX Energy

T31N R5W Rosa Unit Pad 27 ROSA UT 27 #103H - Slot A01

Wellbore #1

Plan: Design #2 16Mar15 sam

Standard Planning Report

13 April, 2015

WPX

Planning Report

Database: Company: Project:

COMPASS-SANJUAN WPX Energy

T31N R5W Rosa Unit Pad 27

Well: Wellbore:

Site:

ROSA UT 27 #103H Wellbore #1

Design #2 16Mar15 sam Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well ROSA UT 27 #103H (A01) - Slot A01

KB @ 6330.00usft (Aztec 1000) KB @ 6330.00usft (Aztec 1000)

Minimum Curvature

Project

T31N R5W Rosa Unit

Map System: Geo Datum: Map Zone:

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

New Mexico West 3003

System Datum:

Mean Sea Level

Site

Pad 27

Site Position: From: Position Uncertainty:

Lat/Long

Northing: Easting: Slot Radius: 2,143,400.02 usft

625,077.55 usft 13.20 in

Latitude: Longitude: Grid Convergence:

36.8897153 -107.4056260

0.26

Well Well Position

ROSA UT 27 #103H - Slot A01

+N/-S +E/-W

-25.40 usft

Design #2 16Mar15 sam

Northing: 71.14 usft

Easting:

2,143,374,94 usft 625,148.80 usft Latitude: Longitude:

36.8896455 -107.4053827

Position Uncertainty

0.00 usft

0.00 usft

Wellhead Elevation:

0.00 usft

Ground Level:

6,305.00 usft

Wellbore #1 Wellbore Field Strength Magnetics **Model Name** Sample Date Declination Dip Angle (°) (°) IGRF2010 12/18/2014 9.33 63.57 50,520

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 (°) 270.02

Measured Depth (usft)	Inclination (°)	Azimuth	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	
420.00	0.00	0.00	420.00	0.00	0.00	0.00	0.00	0.00	0.00	
651.65	4.63	123.64	651.39	-5.19	7.79	2.00	2.00	0.00	123.64	
6,372.97	4.63	123.64	6,354.02	-261.22	392.50	0.00	0.00	0.00	0.00	
7,445.83	92.70	270.02	7,032.00	-292.91	-272.69	9.00	8.21	13.64	146.17	PP Rosa 27 #103H
12,214.63	92.70	270.02	6,807.00	-291.18	-5,036.17	0.00	0.00	0.00	0.00	TD / PBHL Rosa 27

WPX Planning Report

Database: Company: Project: COMPASS-SANJUAN WPX Energy

T31N R5W Rosa Unit

Site: Pad 27

Well: Wellbore:

ROSA UT 27 #103H Wellbore #1

Design: Design #2 16Mar15 sam

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well ROSA UT 27 #103H (A01) - Slot A01

KB @ 6330.00usft (Aztec 1000) KB @ 6330.00usft (Aztec 1000)

True

Minimum Curvature

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00 320.00	0.00 0.00	0.00	0.00 320.00	0.00 0.00	0.00	0.00	0.00	0.00 0.00	0.00
9 5/8"									
420.00	0.00	0.00	420.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2	.00								
500.00	1.60	123.64	499.99	-0.62	0.93	-0.93	2.00	2.00	0.00
651.65	4.63	123.64	651.39	-5.19	7.79	-7.79	2.00	2.00	0.00
Hold 4.63 Inc	clination								
1,000.00	4.63	123.64	998.61	-20.77	31.22	-31.22	0.00	0.00	0.00
1,500.00	4.63	123.64	1,496.98	-43.15	64.84	-64.85	0.00	0.00	0.00
2,000.00	4.63	123.64	1,995.34	-65.52	98.46	-98.48	0.00	0.00	0.00
2,500.00	4.63	123.64	2,493.71	-87.90	132.08	-132.11	0.00	0.00	0.00
3,000.00	4.63	123.64	2,992.07	-110.27	165.70	-165.74	0.00	0.00	0.00
3,500.00	4.63	123.64	3,490.44	-132.65	199.32	-199.37	0.00	0.00	0.00
4,000.00	4.63	123.64	3,988.81	-155.02	232.94	-233.00	0.00	0.00	0.00
4,500.00	4.63	123.64	4,487.17	-177.40	266.56	-266.62	0.00	0.00	0.00
5,000.00	4.63	123.64	4,985.54	-199.77	300.18	-300.25	0.00	0.00	0.00
5,500.00	4.63	123.64	5,483.91	-222.15	333.80	-333.88	0.00	0.00	0.00
6,000.00	4.63	123.64	5,982.27	-244.52	367.42	-367.51	0.00	0.00	0.00
6,271.00	4.63	123.64	6,252.39	-256.65	385.65	-385.74	0.00	0.00	0.00
7"									
6,372.97	4.63	123.64	6,354.02	-261.22	392.50	-392.59	0.00	0.00	0.00
Start Build/T	urn DLS 9.00 TF	O 146.17							
6,500.00	8.01	251.23	6,480.65	-266.92	388.39	-388.48	9.00	2.66	100.44
7,000.00	52.63	267.93	6,901.84	-286.31	144.19	-144.29	9.00	8.92	3.34
7,445.83	92.70	270.02	7,032.00	-292.91	-272.69	272.59	9.00	8.99	0.47
POE at 92.70				AND DESIGNATION OF THE PARTY OF		TO STATE OF THE	anne sarita i s	STORE CONTRACTOR	ATTENDED
7,500.00	92.70	270.02	7,029.44	-292.89	-326.80	326.69	0.00	0.00	0.00
8,000.00	92.70	270.02	7,005.85	-292.71	-826.24	826.14	0.00	0.00	0.00
8,500.00	92.70	270.02	6,982.26	-292.53	-1,325.68	1,325.58	0.00	0.00	0.00
9,000.00	92.70	270.02	6,958.67	-292.34	-1,825.13	1,825.02	0.00	0.00	0.00
9,500.00	92.70	270.02	6.935.08	-292.16	-2,324.57	2,324.47	0.00	0.00	0.00
10,000.00	92.70	270.02	6,911.49	-291.98	-2,824.01	2,823.91	0.00	0.00	0.00
10,500.00	92.70	270.02	6,887.90	-291.80	-3,323.46	3,323.35	0.00	0.00	0.00
11,000.00	92.70	270.02	6,864.31	-291.62	-3,822.90	3,822.80	0.00	0.00	0.00
11,500.00	92.70	270.02	6,840.72	-291.44	-4,322.34	4,322.24	0.00	0.00	0.00
12,000.00	92.70	270.02	6,817.13	-291.26	-4,821.79	4,821.68	0.00	0.00	0.00
12,214.63	92.70	270.02	6,807.00	-291.18	-5,036.17	5,036.07	0.00	0.00	0.00

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle	Dip Dir.	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
TD / PBHL Rosa 27 #10: - plan hits target cen - Point		0.00	6,807.00	-291.18	-5,036.17	2,143,061.18	620,113.98	36.8888445	-107.4226037
PP Rosa 27 #103H - plan hits target cen - Point	0.00 ter	0.00	7,032.00	-292.91	-272.69	2,143,080.81	624,877.42	36.8888410	-107.4063152

WPX

Planning Report

Database: Company:

COMPASS-SANJUAN WPX Energy

TVD Reference: MD Reference:

Well ROSA UT 27 #103H (A01) - Slot A01 KB @ 6330,00usft (Aztec 1000)

Project: Site:

T31N R5W Rosa Unit Pad 27

KB @ 6330.00usft (Aztec 1000) North Reference:

Well:

ROSA UT 27 #103H

True

Minimum Curvature

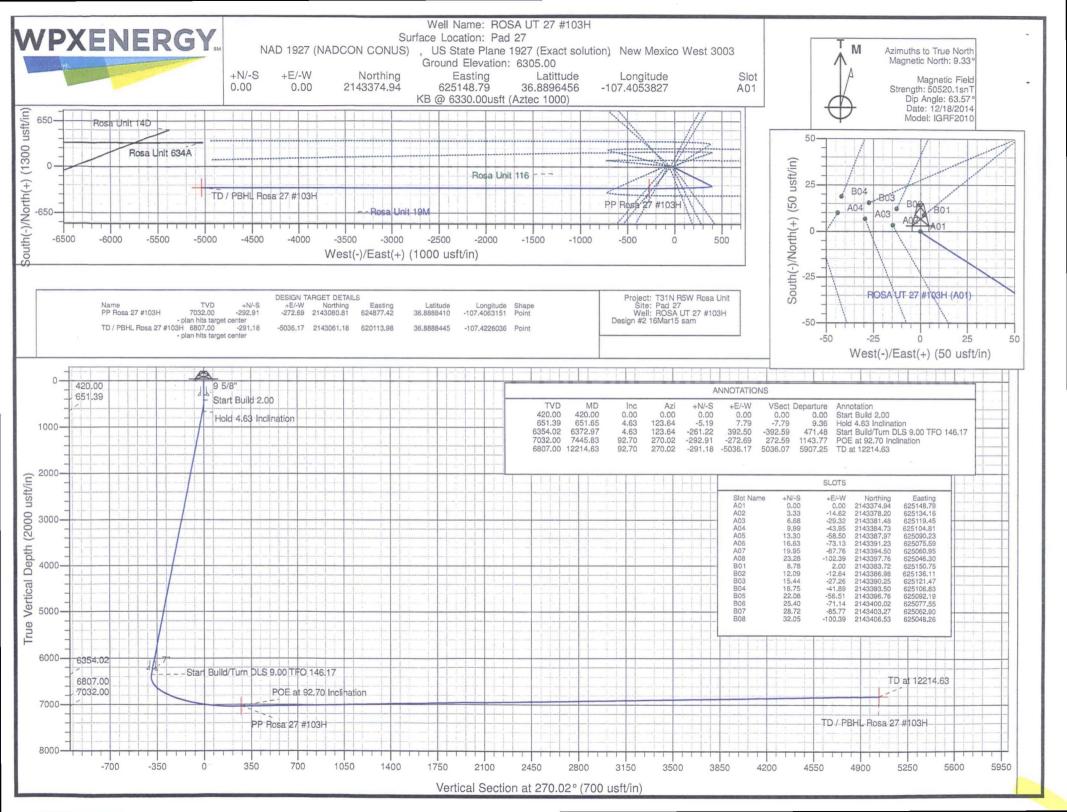
Wellbore: Design:

Wellbore #1 Design #2 16Mar15 sam **Survey Calculation Method:**

Local Co-ordinate Reference:

Casing Points Measured Vertical Casing Hole Diameter Depth Depth Diameter (in) (usft) (usft) (in) Name 320.00 320.00 9 5/8" 9.62 12.25 6,271.00 6,252.39 7" 7.00 8.75

Measured	Vertical	Local Coor	dinates	
Depth	Depth	+N/-S	+E/-W	
(usft)	(usft)	(usft)	(usft)	Comment
420.00	420.00	0.00	0.00	Start Build 2.00
651.65	651.39	-5.19	7.79	Hold 4.63 Inclination
6,372.97	6,354.02	-261.22	392.50	Start Build/Turn DLS 9.00 TFO 146.17
7,445.83	7,032.00	-292.91	-272.69	POE at 92.70 Inclination
12,214.63	6,807.00	-291.18	-5,036.17	TD at 12214.63



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

 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

 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

- 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.

<u>Directions from the Intersection of US Hwy 550 & US Hwy 64</u> in Bloomfield, NM to WPX Energy Production, LLC Rosa Unit 27 #103H

975' FNL & 524' FWL, Section 19, T31N, R5W, N.M.P.M., Rio Arriba County, NM Latitude: 36.889652°N Longitude: 107.405986°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;

Go Left which is straight (North-easterly) remaining on Rosa Road for 5.9 miles to fork in road;

Go Right (Easterly) for 0.25 miles to fork in roadway;

Go Right which is straight (Easterly) for 0.1 miles to fork in roadway;

Go Left which is straight (Easterly) for 1.3 miles to fork in roadway:

Go Right (Westerly) for 0.1 miles to new access on right-hand side of roadway which continues for 71.0 to staked WPX Rosa Unit 27 #103H location.

