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: $5 - 4 - 15$ Well information; Operator
API#30-039-31318, Section 19, Township 31 NS, Range 5 E/W
Conditions of Approval: (See the below checked and handwritten conditions) Notify Aztec OCD 24hrs prior to casing & cement.
Hold C-104 for directional survey & "As Drilled" Plat
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

NMOCD Approved by Signature $\frac{6 \cdot 29 \cdot 2015}{\text{Date}}$

Communication to be reported in accordance with 19.15.29.8.

solids must be contained in a steel closed loop system.

isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and

Well-bore communication is regulated under 19.15.29 NMAC. This requires well-bore

OIL CONS. DIV DIST. 3

Form 3160-3 (September 2001)

JUN 19 2015 UNITED STATES

DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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

10			
5.	Lease	Serial	No.

J.	Lease	Sei	Idl	11

SF-078767 Farmington Field Offic of Indian, Allottee or Tribe Name APPLICATION FOR PERMIT TO DRILL OR REENTER eau of Land Mana

la. Type of Work: 🛛 DRILL 📄 REENTER			7. If Unit or CA Agreement, N Rosa Unit R-13457	ame and No.
1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other	☐ Single Zone ☐ Multipl	ole Zone	8. Lease Name and Well No.	
2. Name of Operator			Rosa UT 27 105H	
WPX Energy Production, LLC			9. API Well No. 30-039-3131	8
3a. Address	3b. Phone No. (include area code)		10. Field and Pool, or Explorato	ry
P.O. Box 640 Aztec, NM 87410	(505) 333-1849		Basin Mancos	
4. Location of Well (Report location clearly and in accordance with any	State requirements. *)		11. Sec., T., R., M., or Blk. and	Survey or Area
At surface 962' FNL & 466' FWL, sec 19, T31N, R5W At proposed prod. zone 2583' FNL & 35' FWL, sec 24, T31N, R6V	V	NENU	SHL: Section 19, T31N, R5W BHL: Section 24, 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 Агтіbа	NM
15. Distance from proposed*	16. No. of Acres in lease	17. Spacing U	Unit dedicated to this well	
location to nearest property or lease line, ft.				
(Also to nearest drig. unit line, if any) 466	967.63 2518.04	W	est Rosa Unit Project Area 24,1	18.76 Acres
18. Distance from proposed location*	19. Proposed Depth	20. BLM/BIA	A Bond No. on file	
to nearest well, drilling, completed, applied for, on this lease, ft.				
15'	12,347 MD / 6,809 TVD	UTB000		
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will star	irt*	23. Estimated duration	
6305' GR	June 1, 2015	1	l month	
	24. Attachments			
The following, completed in accordance with the requirements of Onshore	Oil and Gas Order No.1, shall be attac	ched to this for	rm:	
1. Well plat certified by a registered surveyor.	4. Bond to cover the	operations un	nless covered by an existing b	ond on file (see
2. A Drilling Plan.	Item 20 above).		,	
3. A Surface Use Plan (if the location is on National Forest System L	ands, the 5. Operator certification		ation and/or plans as may be	required by the
SUPO shall be filed with the appropriate Forest Service Office).	authorized officer.		tation and/or plans as may be	required by the
25. Signature	Name (Printed/Typed)		Date	.1 2 .12
	Andrea Felix		5	-4-17)15
Title	gindred Fonk			. 00.0
Regulatory Specialist Senior				
Approved by (Signature) Manleelog	Name (Printed/Typed)		Date	117/15
Title AFM	Office FFO		,	
Application approval does not warrant or certify that the applicant holds le operations thereon.	gal or equitable title to those rights in the	the subject lea	se which would entitle the appli	cant to conduct
Conditions of approval, if any, are attached.				
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a States any false, fictitious or fraudulent statements or representations as to		willfully to m	ake to any department or agenc	ry of the United

*(Instructions on reverse)

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 103H / Rosa UT 104H / 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.

BLM'S APPROVAL OR ACCEPTANCE OF THIS

New pipeline is approximately 5,956.7' with 1,623.4' on lease on BLM surface and 4,383.2 on NM Came & Fish surface. A grant of easement is currently being processed by the NM Game & Fish portion for their portion of the pipeline.

OPERATOR FROM OBTAINING ANY OTHER

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS"

AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS NMOCDEV

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4



District I
1625 N. French Drive, Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First Street, Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
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 Form C-102 Revised August 1, 2011

Submit one copy to Appropriate District Office

AMENDED REPORT

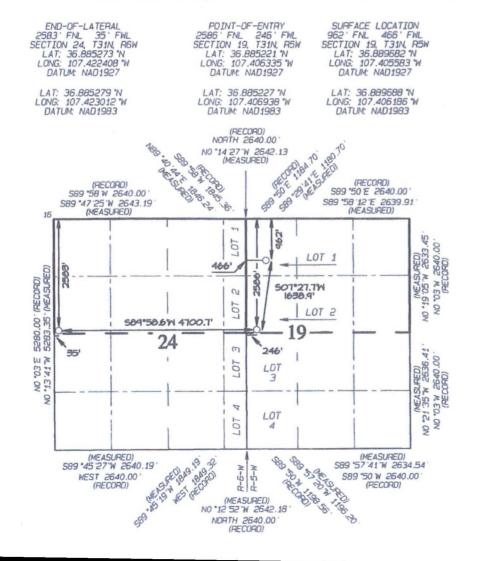
OIL CONSERVATION DIVISION

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

MAY 05 2015

WELL LOCATION AND ACREAGE DEDICATION PLAT armington Field Office Pool Name Pool Code Bureau of Land Management BASIN MANCOS 97232 Well Number Property Code Property Name ROSA UT 27 105H Elevation OGRID No. *Operator Name 120782 6305 WPX ENERGY PRODUCTION, LLC 10 Surface Location UL or lot no Section Township Feet from the North/South line East/West line County Lot Idn Feet from the RIO WEST C 5W NORTH 466 19 31N 962 1 ARRIBA 11 Bottom Hole Location If Different From Surface UL or lot no Township Lot Idn Feet from the North/South line Feet from the East/West line RIO E 2583 NORTH 35 WEST 24 31N 6W ARRIBA 13 Joint or Infill order No 12 Dedicated 14 Consolidation Code N/2 Section 19, T31N. R5W 503.91 N/2 - Section 24, T31N.

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



17 OPERATOR CERTIFICATION 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 dontract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

4-8-2015 4-8-2015 Indrea Felix Printed Name andrea.felix@wpxenergy.com 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 JASON C. EDWARDS MEXICO JEN ADTESSION. 9 **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 #105H

SURFACE:

BLM

SH Location:

NWNW Sec 19-31N-05W

ELEVATION: 6305' GR

BH Location:

SWNW Sec 24-31N-06W

MINERALS:

BLM

MEASURED DEPTH: 12347'

Rio Arriba, NM

GEOLOGY:

Surface formation - San Jose

A. FORMATION TOPS: (KB)

Name	MD	TVD	Name	MD	TVD
Ojo Alamo	2498	2424	Point Lookout	5898	5634
Kirtland	2601	2521	Mancos	6211	5940
Picture Cliffs	3476	3346	Kickoff Point	6563	6365
Lewis	3763	3617	Top Target	7131	6804
Chacra	4772	4569	Landing Point	7641	7027
Cliff House	5613	5362	Base Target	7641	7027
Menefee	5661	5407			
			TD	12347	6809

- B. MUD LOGGING PROGRAM: Mudlogger on location from surface csg to TD.
- C. LOGGING PROGRAM: LWD GR from surface casing to TD.
- D. NATURAL GAUGES: Gauge any noticeable increases in gas flow. Record all gauges in Tour book and on morning reports.

II. DRILLING

- A. MUD PROGRAM: LSND mud (WBM) will be used to drill the 12-1/4" Surface hole 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"	6461'	7"	23#	N-80
Long string	6.125"	12347'	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. <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 2,700 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.
- 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 #105H - Slot A05

Wellbore #1

Plan: Design #2 16Mar15 sam

Standard Planning Report

13 April, 2015

WPX

Planning Report

TVD Reference:

Local Co-ordinate Reference:

Database: COMPASS-SANJUAN WPX Energy Company: Project: T31N R5W Rosa Unit Site: Pad 27 Well: ROSA UT 27 #105H

MD Reference: North Reference: Survey Calculation Method: Wellbore #1 Design #2 16Mar15 sam

Well ROSA UT 27 #105H (A05) - Slot A05 KB @ 6330.00usft (Aztec 1000) KB @ 6330.00usft (Aztec 1000)

True Minimum Curvature

Design: Project

Wellbore:

T31N R5W Rosa Unit

Map System: Geo Datum:

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

System Datum:

Mean Sea Level

Map Zone:

New Mexico West 3003

Site	Pad 27					
Site Position:			Northing:	2,143,400.02 usft	Latitude:	36.8897153
From:	Lat/Long		Easting:	625,077.55 usft	Longitude:	-107.4056260
Position Uncertainty:		0.00 usft	Slot Radius:	13.20 in	Grid Convergence:	0.26 °

Well	ROSA UT 2	7 #105H - Slot A05				
Well Position	+N/-S	-12.10 usft	Northing:	2,143,387.97 usft	Latitude:	36.889682
	+E/-W	12.63 usft	Easting:	625,090.24 usft	Longitude:	-107.405582
Position Uncertain	ity	0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	6,305.00 us

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

Design Design	n #2 16Mar15 sam				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.00	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	270.23	

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	
1,180.70	15.21	162.94	1,171.79	-95.99	29.45	2.00	2.00	0.00	162.94	
6,563.02	15.21	162.94	6,365.48	-1,446.29	443.81	0.00	0.00	0.00	0.00	
7,641.28	92.66	270.23	7,027.00	-1,624.02	-220.09	9.00	7.18	9.95	106.05	PP Rosa 27 #105h
12,347.00	92.66	270.23	6,809.00	-1,604.90	-4,920.71	0.00	0.00	0.00	0.00	TD / PBHL Rosa 2

WPX

Planning Report

Database: Company: Project: COMPASS-SANJUAN WPX Energy

T31N R5W Rosa Unit

Pad 2

Well: Wellbore:

Site:

ROSA UT 27 #105H Wellbore #1

Design: Design #2 16Mar15 sam

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well ROSA UT 27 #105H (A05) - Slot A05

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

True

Minimum Curvature

0.00 320.00 9 5/8" 420.00 Start Build 2.00 500.00 1,000.00 1,180.70 Hold 15.21 Inclina 1,500.00 2,000.00 2,500.00 3,000.00 4,000.00 4,500.00 5,000.00 5,500.00	15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21	0.00 0.00 0.00 162.94 162.94 162.94 162.94 162.94 162.94 162.94 162.94	0.00 320.00 420.00 499.99 996.05 1,171.79 1,479.90 1,962.38 2,444.85 2,927.33 3,409.81 3,892.28	0.00 0.00 0.00 -1.07 -55.94 -95.99 -176.09 -301.53 -426.97 -552.41 -677.85 -803.28	0.00 0.00 0.00 0.33 17.17 29.45 54.04 92.53 131.02 169.51 208.00	0.00 0.00 -0.33 -17.39 -29.84 -54.74 -93.74 -132.73 -171.73	0.00 0.00 2.00 2.00 2.00 0.00 0.00 0.00	0.00 0.00 2.00 2.00 2.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
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1,180.70 Hold 15.21 Inclina 1,500.00 2,000.00 2,500.00 3,000.00 4,000.00 4,500.00 5,000.00	15.21 ation 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21	162.94 162.94 162.94 162.94 162.94 162.94 162.94	1,171.79 1,479.90 1,962.38 2,444.85 2,927.33 3,409.81 3,892.28	-95.99 -176.09 -301.53 -426.97 -552.41 -677.85	54.04 92.53 131.02 169.51	-54.74 -93.74 -132.73 -171.73	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00
Hold 15.21 Inclina 1,500.00 2,000.00 2,500.00 3,000.00 3,500.00 4,000.00 4,500.00 5,000.00	15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21	162.94 162.94 162.94 162.94 162.94 162.94 162.94	1,479.90 1,962.38 2,444.85 2,927.33 3,409.81 3,892.28	-176.09 -301.53 -426.97 -552.41 -677.85	54.04 92.53 131.02 169.51	-54.74 -93.74 -132.73 -171.73	0.00 0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
1,500.00 2,000.00 2,500.00 3,000.00 3,500.00 4,000.00 4,500.00 5,000.00	15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21	162.94 162.94 162.94 162.94 162.94 162.94	1,962.38 2,444.85 2,927.33 3,409.81 3,892.28	-301.53 -426.97 -552.41 -677.85	92.53 131.02 169.51	-93.74 -132.73 -171.73	0.00 0.00 0.00	0.00	0.00
2,000.00 2,500.00 3,000.00 3,500.00 4,000.00 4,500.00 5,000.00	15.21 15.21 15.21 15.21 15.21 15.21 15.21	162.94 162.94 162.94 162.94 162.94 162.94	1,962.38 2,444.85 2,927.33 3,409.81 3,892.28	-301.53 -426.97 -552.41 -677.85	92.53 131.02 169.51	-93.74 -132.73 -171.73	0.00 0.00 0.00	0.00	0.00
2,000.00 2,500.00 3,000.00 3,500.00 4,000.00 4,500.00 5,000.00	15.21 15.21 15.21 15.21 15.21 15.21 15.21	162.94 162.94 162.94 162.94 162.94 162.94	1,962.38 2,444.85 2,927.33 3,409.81 3,892.28	-301.53 -426.97 -552.41 -677.85	92.53 131.02 169.51	-93.74 -132.73 -171.73	0.00 0.00 0.00	0.00	0.00
2,500.00 3,000.00 3,500.00 4,000.00 4,500.00 5,000.00	15.21 15.21 15.21 15.21 15.21 15.21	162.94 162.94 162.94 162.94 162.94	2,444.85 2,927.33 3,409.81 3,892.28	-426.97 -552.41 -677.85	131.02 169.51	-132.73 -171.73	0.00	0.00	0.00
3,000.00 3,500.00 4,000.00 4,500.00 5,000.00	15.21 15.21 15.21 15.21 15.21	162.94 162.94 162.94 162.94	2,927.33 3,409.81 3,892.28	-552.41 -677.85	169.51	-171.73	0.00		
4,000.00 4,500.00 5,000.00	15.21 15.21 15.21	162.94 162.94	3,892.28		208.00	040.70			
4,000.00 4,500.00 5,000.00	15.21 15.21 15.21	162.94 162.94	3,892.28			-210.72	0.00	0.00	0.00
4,500.00 5,000.00	15.21 15.21	162.94	and the same of the same of		246.50	-249.72	0.00	0.00	0.00
5,000.00	15.21		4,374.76	-928.72	284.99	-288.72	0.00	0.00	0.00
		162.94	4,857.24	-1,054.16	323.48	-327.71	0.00	0.00	0.00
	15.21	162.94	5,339.71	-1,179.60	361.97	-366.71	0.00	0.00	0.00
6,000.00	15.21	162.94	5,822.19	-1,305.04	400.47	-405.70	0.00	0.00	0.00
6,461.00	15.21	162.94	6,267.03	-1,420.69	435.96	-441.66	0.00	0.00	0.00
7"									
6,500.00	15.21	162.94	6.304.67	-1,430,48	438.96	-444.70	0.00	0.00	0.00
6,563.02	15.21	162.94	6,365.48	-1,446.29	443.81	-449.61	0.00	0.00	0.00
Start Build/Turn D			1200	A CONTRACTOR					
7,000.00	37.59	249.75	6,765.26	-1,551.39	331.13	-337.35	9.00	5.12	19.87
7,500.00	80.35	267.00	7,018.40	-1,620.65	-79.40	72.89	9.00	8.55	3.45
7,641.28	92.66	270.23	7,018.40	-1,624.02	-220.09	213.57	9.00	8.71	2.29
POE at 92.65 Incli		210.20	7,027.00	1,024.02	-220.00	210.01	0.00	0.71	2.20
8,000.00	92.66	270.23	7.010.38	-1,622.57	-578.42	571.90	0.00	0.00	0.00
8,500.00	92.66	270.23	6,987.22	-1,620.53	-1,077.88	1,071.36	0.00	0.00	0.00
9,000.00	92.66	270.23	6,964.06	-1,618.50	-1,577.34	1,570.83	0.00	0.00	0.00
1									
9,500.00	92.66	270.23	6,940.89	-1,616.47	-2,076.80	2,070.29	0.00	0.00	0.00
10,000.00	92.66	270.23	6,917.73	-1,614.44	-2,576.26	2,569.75	0.00	0.00	0.00
10,500.00	92.66	270.23	6,894.57	-1,612.40	-3,075.71	3,069.22	0.00	0.00	0.00
11,000.00	92.66	270.23	6,871.40	-1,610.37	-3,575.17	3,568.68	0.00	0.00	0.00
11,500.00	92.66	270.23	6,848.24	-1,608.34	-4,074.63	4,068.14	0.00	0.00	0.00
12,000.00 12,347.00	92.66 92.66	270.23 270.23	6,825.08 6,809.00	-1,606.31 -1,604.90	-4,574.09 -4,920.71	4,567.61 4,914.23	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 cent - Point	0.00 ter	0.00	6,809.00	-1,604.90	-4,920.71	2,141,761.04	620,176.76	36.8852725	-107.4224081
PP Rosa 27 #105H - plan hits target cent - Point	0.00 ter	0.00	7,027.00	-1,624.02	-220.09	2,141,762.98	624,877.42	36.8852212	-107.4063353

WPX

Planning Report

Database: Company: Project: COMPASS-SANJUAN WPX Energy

T31N R5W Rosa Unit

Site: Pad 27

Well: Wellbore: Design: ROSA UT 27 #105H Wellbore #1

Design #2 16Mar15 sam

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well ROSA UT 27 #105H (A05) - Slot A05

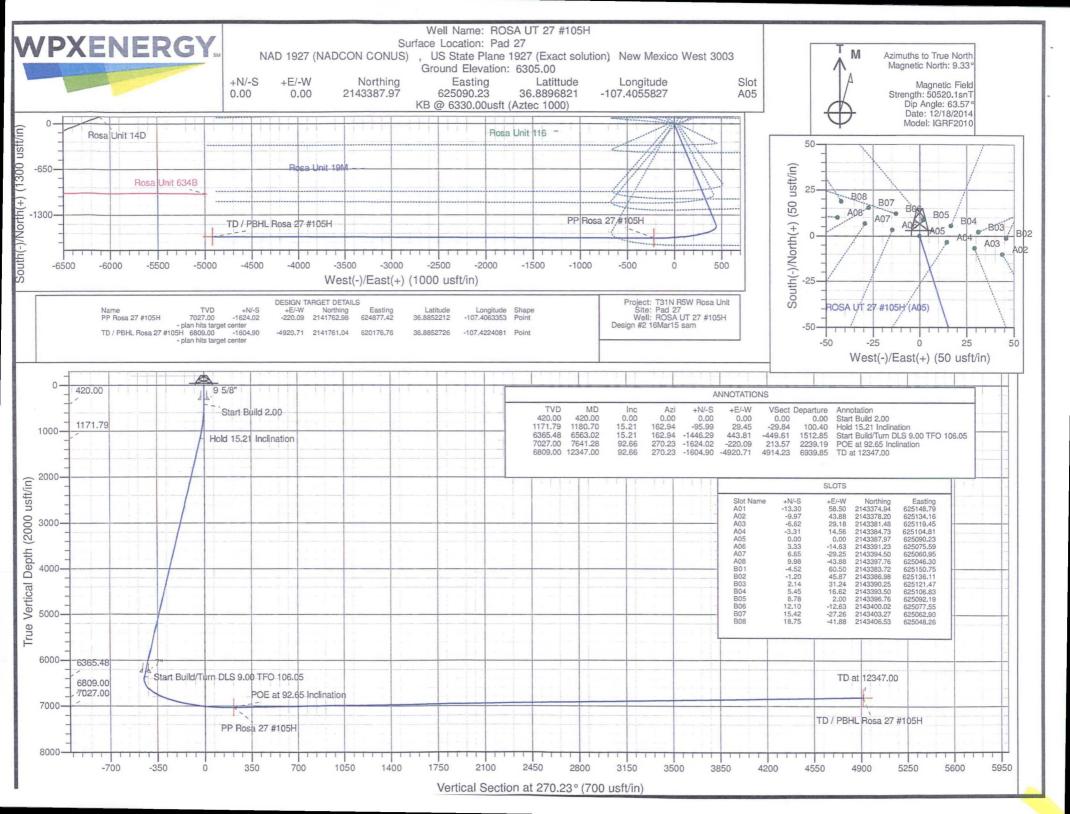
KB @ 6330.00usft (Aztec 1000) KB @ 6330.00usft (Aztec 1000)

True

Minimum Curvature

Casing Points						
	Measured Depth (usft)	Vertical Depth (usft)		Name	Casing Diameter (in)	Hole Diameter (in)
	320.00	320.00	9 5/8"		9.62	12.25
	6,461.00	6,267.03	7"		7.00	8.75

Plan Annotations						
Measured Depth	Vertical Depth	Local Coordinates				
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	Comment		
420.00	420.00	0.00	0.00	Start Build 2.00		
1,180.70	1,171.79	-95.99	29.45	Hold 15.21 Inclination		
6,563.02	6,365.48	-1,446.29	443.81	Start Build/Turn DLS 9.00 TFO 106.05		
7,641.28	7,027.00	-1,624.02	-220.09	POE at 92.65 Inclination		
12,347.00	6,809.00	-1,604.90	-4,920.71	TD at 12347.00		



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

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

- 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 UT 27 #105H

962' FNL & 466' FWL, Section 19, T31N, R5W, N.M.P.M., Rio Arriba County, NM

Latitude: 36.889688°N Longitude: 107.406186°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 UT 27 #105H location.

