

RECEIVED

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

MAY 18 2012

APPLICATION FOR PERMIT TO DRILL OR REENTER

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

5. Lease Serial No.

SF-078765/FEE

6. If Indian, Allottee or Tribe Name

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

Rosa Unit

8. Lease Name and Well No.

Rosa Unit 05 #014H

9. API Well No.

30-045-35377

10. Field and Pool, or Exploratory

Basin Mancos

11. Sec., T., R., M., or Blk. and Survey or Area

RCVD APR 19 '13
OIL CONS. DIV.

Section 9, 31N, 6W

12. County or Parish

San Juan

13. State

NM

1a. Type of Work: ☒ DRILL ☐ REENTER

1b. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone

2. Name of Operator

WPX Energy Production, LLC

3a. Address

P.O. Box 640 Aztec, NM 87410

3b. Phone No. (include area code)

(505) 333-1808

4. Location of Well (Report location clearly and in accordance with any State requirements. *)

At surface 1031' FNL & 1862' FWL, sec 9, T31N, R6W

At proposed prod. zone 2458' FSL & 1745' FEL, sec 10, T31N, R6W

14. Distance in miles and direction from nearest town or post office*

approximately 30 miles northeast of Blanco, New Mexico

15. Distance from proposed*

location to nearest
property or lease line, ft.
(Also to nearest drig. unit line, if any) 1031'

16. No. of Acres in lease

2460.23

17. Spacing Unit dedicated to this well

West Rosa Project are
24,118.76 acres (R-13457)

18. Distance from proposed location*
to nearest well, drilling, completed,
applied for, on this lease, ft. 10'

19. Proposed Depth

6974' TVD / 14,402' MD

20. BLM/BIA Bond No. on file

UTB000178

21. Elevations (Show whether DF, KDB, RT, GL, etc.)

6429' GR

22. Approximate date work will start*

April 1, 2012

23. Estimated duration

1 month

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

1. Well plat certified by a registered surveyor.

2. A Drilling Plan.

3. A Surface Use Plan (if the location is on National Forest System Lands, the
SUPO shall be filed with the appropriate Forest Service Office).

4. Bond to cover the operations unless covered by an existing bond on file (see
Item 20 above).

5. Operator certification.

6. Such other site specific information and/or plans as may be required by the
authorized officer.

25. Signature

Name (Printed/Typed)

Date

Title

Larry Higgins

5/18/12

Permit Supervisor

Approved by (Signature)

Name (Printed/Typed)

Date

Title

Office

FEO

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct
operations thereon.

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 crime for any person knowingly and willfully to make to any department or agency of the United
States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*(Instructions on reverse)

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

The well pad surface is under jurisdiction of the BLM.

This location has been archaeologically surveyed by La Plata Archaeological Consultants. Copies of their report have been submitted directly to the BLM.

No new access road is needed.

A COMPLETE C-144 MUST BE SUBMITTED TO AND
APPROVED BY THE NMOCD FOR: A PIT, CLOSED
LOOP SYSTEM, BELOW GRADE TANK, OR
PROPOSED ALTERNATIVE METHOD, PURSUANT
TO NMOCD PART 19.15.17, PRIOR TO THE USE OR
CONSTRUCTION OF THE ABOVE APPLICATIONS.

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

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

This action is subject to technical and
procedural review pursuant to 43 CFR 3163.9
and appeal pursuant to 43 CFR 3165.4

NMOCD

Hold C104

for Directional Survey
and "As Drilled" plat

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

MAY 08 2013 ca

APD Certification:

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Executed this 18th day of May, 2012.

Name Larry Higgins

Position Title Permit Supervisor

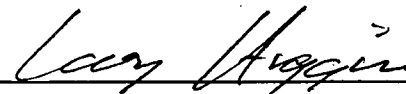
Address P.O. Box 640, Aztec, NM 87410

Telephone (505) 333-1808

Field representative (if not above signatory) _____

E-mail larry.higgins@wpxenergy.com

Date: 5/18/12



Larry Higgins

Permit Suprv.

WPX Energy Production, LLC

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

OIL CONSERVATION DIVISION

1220 South St. Francis Drive
Santa Fe, NM 87505

Submit one copy to
Appropriate District Office

☐ AMENDED REPORT
RCVD APR 23 '13
OIL CONS. DIV.
DIST. 3

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-35377		*Pool Code 97232	*Pool Name BASIN MANCOS
*Property Code. 39878	*Property Name ROSA UNIT 05		*Well Number 014H
*OGRID No. 120782	*Operator Name WPX Energy Production		*Elevation 6429'

¹⁰ Surface Location

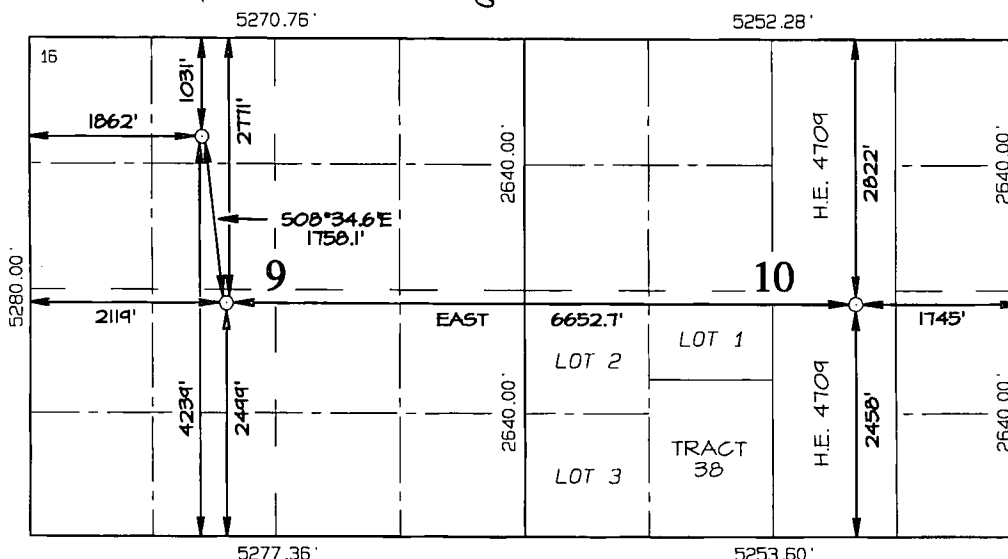
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County.
C	9	31N	6W		1031	NORTH	1862	WEST	SAN JUAN

¹¹ Bottom Hole Location If Different From Surface

UL or lot no. J	Section 10	Township 31N	Range 6W	Lot Idn	Feet from the 2458	North/South line SOUTH	Feet from the 1745	East/West line EAST	County SAN JUAN
¹² Dedicated Acres Sec 9 - all, 640 acres Sec 10 - all, 640 acres (031.41)					¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-13457 (24118.76 acres)		

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

sect 10 = all less tract 38 in ULO
Total acreage - 1271.41



SURFACE LOCATION
1031' FNL 1862' FWL
SECTION 9, T31N, R6W
LAT: 36.91848 °N
LONG: 107.47022 °W
DATUM: NAD1927

LAT: 36.91848 *N
LONG: 107.47082 *W
DATUM: NAD1983

POINT OF ENTRY
2499' FSL 2119' FWL
SECTION 9, T31N, R6W
LAT: 36.91370°N
LONG: 107.46935°W
DATUM: NAD1927

LAT: 36.91370 *N
LONG: 107.46995 *W
DATUM: NAD1983

END OF LATERAL
2458' FSL 1745' FEL
SECTION 10, T31N, R6W
LAT: 36.91363°N
LONG: 107.44659°W
DATUM: NAD1927

LAT: 36.91363°N
LONG: 107.44719°W
DATUM: NAD1983

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 contract 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.

Signature Larry Higgins Date 4/23/13
 Printed Name Larry Higgins
 E-mail Address larry.higgins@wpxenergy.com

¹⁸ 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.

Survey Date: JANUARY 13, 2012

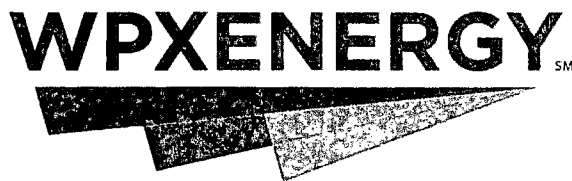
Signature and Seal of Professional Surveyor



JASON C. EDWARDS

Certificate Number 15269

THE HORIZONTAL LATERAL REPRESENTED ON THIS PLAT CORRESPONDS TO THE BLACK SEGMENT WHICH VARIES IN VERTICAL DEPTH.



WPX Energy Production

Operations Plan

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

DATE: 01/03/2012 **FIELD:** Basin Mancos
WELL NAME: Rosa Unit 05 #014H **SURFACE:** BLM
BH LOCATION: NWSE Sec 10-31N-6W **MINERALS:** FED/FEE
San Juan, NM
ELEVATION: 6,429' GR **LEASE #** FS-078765/FEE
MEASURED DEPTH: 14,402'

I. GEOLOGY: Surface formation - San Jose

A. FORMATION TOPS: (KB)

Name	TVD	MD	Name	TVD	MD
Ojo Alamo	2,385	2,535	Point Lookout	5,680	6,075
Kirtland	2,515	2,685	Mancos	6,105	6,500
Fruitland	3,000	3,242	Kickoff Point	6,597	6,991
Pictured Cliffs	3,228	3,505	Target Top	6,835	7,243
Lewis	3,512	3,831	Landing Point	7,074	7,749
Cliff House	5,415	5,810	Target Base	7,130	
Menefee	5,465	5,860			
			TD	6,974	14,402

B. MUD LOGGING PROGRAM: Mudlogger on location from intermediate csg to TD.

C. LOGGING PROGRAM: LWD GR from surface csg to TD, LWD resistivity from intermediate csg 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 to intermediate casing point. Treat for lost circulation as necessary. Obtain 100% returns prior to cementing. Notify Engineering of any mud losses. Use synthetic base invert emulsion fluid from intermediate casing point to TD

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. The drum brakes will be inspected and tested each tour. **All tests and inspections will be recorded in the tour book as to time and results.**

III. MATERIALS**A. CASING PROGRAM:**

CASING TYPE	OH SIZE (IN)	DEPTH (MD) (FT)	CASING SIZE (IN)	WEIGHT(LB)	GRADE
Surface	12 1/4	320	9 5/8	36	K-55
Intermediate	8 3/4	6,700	7	23	N-80
Longstring	6 1/4	14,402	4 1/2	11.6	P-110

B. FLOAT EQUIPMENT:

- SURFACE CASING:** 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) Turbulent centralizer on each of the bottom (3) joints and one standard centralizer every (3) joints to 2,500 ft. Run (1) Turbulent centralizer at 2,700 ft., 2,500 ft., 2,300ft., 2,000ft., 1,500 ft., and 1,000 ft. (**NFL-FRA 90-1**). Place 1 Standard Centralizer on the 2 joints above and below the Inflatable external casing packer and stage collar at +/-4,950'.
- PRODUCTION CASING:** 4-1/2" whirler type cement nose guide shoe with a latch collar on top of 20' bottom joint. Place marker joint above 5,350'. Run one spiral type solid body centralizer on every joint in lateral and around curve.

C. CEMENTING:

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

- SURFACE:** 10 bbl F. Water spacer + 190sx (222.3 cu.ft.) of "Premium Cement" + 2% Calcium Chloride Cement + 0.125# pps of Poly-E-Flake (Yield = 1.17 cu-ft/sk, / Weight 15.8 #/gal. / Vol 222.3 cu-ft / 39.58 bbls.). The 100% excess should circulate cement to the surface. (Total Volume 222.3 cu-ft / 39.6 bbls) WOC 12 hours. Test csg to 600psi.
- INTERMEDIATE: 2 STAGE CEMENT JOB: STAGE 1:** 20 bbl F. Water spacer + 325 sx 50/50/ Poz Premium + 0.15% CFR-3 + 0.2% Halad R-9 + 5 pps Kol-Seal + 0.125 pps Poly-E-Flake (Yield 1.32 cu-ft/sk / Weight 13.5 ppg / Vol 429 cu-ft / 76.4 bbls). **STAGE 2:** 10 bbl F. Water spacer + 634 sx Halliburton Light Premium + 0.2% HR-5 + 5 pps Kol-Seal + 0.125 pps Poly-E-Flake (Yield 1.94 cu-ft/sk / Weight 12.3 ppg / Vol 1230 cu-ft / 219.1 bbls). **STAGE 2 TAIL:** 100 sx Premium Cement + 0.1 % Halad (R)-9 (Yield 1.15 cu-ft/sk / Weight 15.8 ppg / Vol 115 cu-ft / 20.49 bbls). (Total Volume 1774 cu-ft / 316 bbls). WOC 12 hours. Test csg to 1500psi.
- PRODUCTION CASING: STAGE 1:** 20 bbl Oil Base Spacer. **STAGE 2:** 40 bbl Tuned Spacer III + 0.2 gal/bbl Musol + 233.2 ppb Barite + .02 gal/bbl SEM-7. **STAGE 3:** 249 sx 50/50 Poz Standard + 0.2% Versaset + 0.1% HALAD-766 + 1.5% Chem-Foamer 760 / (Yield 1.43 cu-ft/sk / Weight 13.0 ppg / Vol 356.1 cu-ft / 63.4 bbls). **STAGE 4:** 506 sx 50/50 Poz Standard Foamed Lead + 0.2% Versaset + 0.1% HALAD-766 + 1.5% Chem-Foamer 760 w / 50,900 scf Nitrogen (Yield 2.06 cu-ft/sk / Weight 10.0 ppg / Vol 1042 cu-ft / 186 bbls). **STAGE 5:** 40 sx 50/50 Poz Standard + 0.2% Versaset + 0.1% HALAD-766 / (Yield 1.43 cu-ft/sk / Weight 13.0 ppg / Vol 57.2 cu-ft / 10.2 bbls). (Total Volume 1455.6 cu-ft / 259 bbls).

IV. IV COMPLETION**A. CBL**

- Run Cement Bond Log down lateral and ensure top of cement is above 7" casing shoe.

B. PRESSURE TEST

1. Pressure test 4-1/2" casing to 6000 psi max, hold at 1500 psi for 30 minutes.

C. STIMULATION

1. Stimulate Mancos (first stage) with approximately 5000# 100 mesh sand and 300,000# 40/70 Ottawa Sand in slick water.
2. Isolate first stage with flow through frac plug.
3. Repeat process for 12 stages.
4. Drill out frac plugs and flowback lateral

D. RUNNING TUBING

1. Production Tubing: Run 2-3/8", 4.7#, N-80, EUE tubing with a SN (1.91" ID) on top of bottom joint. Land tubing at landing point of curve (~7,749' MD)

Larry Higgins
Permit Supervisor

A handwritten signature in black ink, reading "Larry Higgins", is written over a horizontal line.



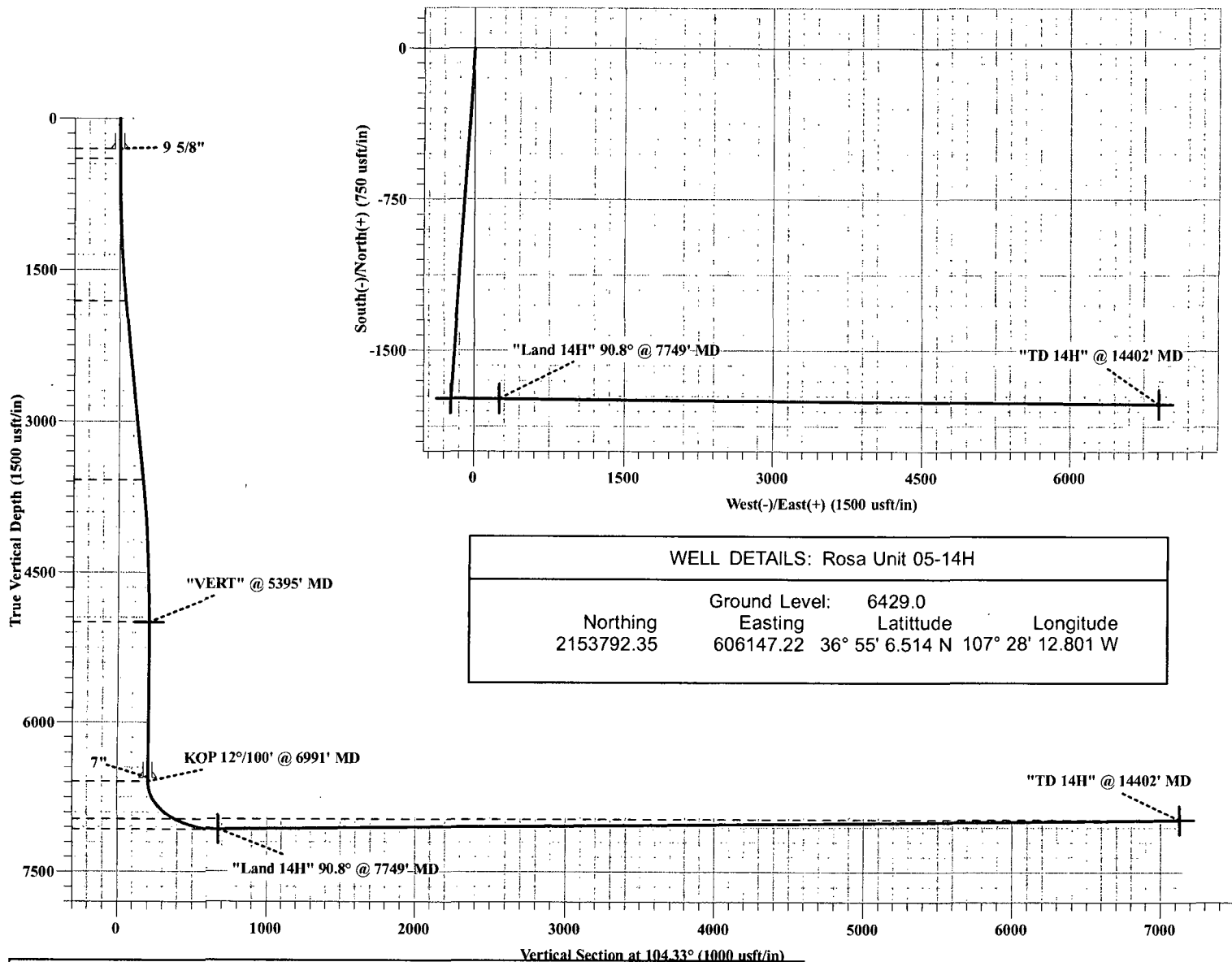
Rosa Unit 05-14H
Sec 09 T31N R06W
San Juan Co., NM

PATHFINDER®
A Schlumberger Company

GE: 6429' / KB: 22'

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
VERT - 14H	5000.0	-1737.5	-229.12152053.99	605924.74		Point
EOL - 14H	6974.0	-1764.7	6908.22152053.95	613062.06		Point
POE - 14H	7074.0	-1739.4	255.62152053.95	606409.42		Point



WELL DETAILS: Rosa Unit 05-14H

	Ground Level:	6429.0	
Northing	Easting	Latitude	Longitude
2153792.35	606147.22	36° 55' 6.514 N	107° 28' 12.801 W

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.00	0.0	
400.0	0.00	0.00	400.0	0.0	0.0	0.00	0.00	0.0	
1879.2	29.58	187.51	1814.3	-370.3	-48.8	2.00	187.51	44.3	
3916.1	29.58	187.51	3585.7	-1367.2	-180.3	0.00	0.00	163.7	
5395.3	0.00	0.00	5000.0	-1737.5	-229.1	2.00	180.00	208.1	VERT - 14H
5395.3	0.00	131.22	5000.0	-1737.5	-229.1	12.00	131.22	208.1	
6991.9	0.00	131.22	6596.6	-1737.5	-229.1	0.00	0.00	208.1	
7749.0	90.86	90.22	7074.0	-1739.4	255.6	12.00	-41.00	678.1	POE - 14H
14402.4	90.86	90.22	6974.0	-1764.7	6908.2	0.00	0.00	7130.0	EOL - 14H

Plan: Design #1 (Rosa Unit 05-14H/Wellbore #1)

Created By: Breck Enoch

Date: 03-Jan-2012



Planning Report

PATHFINDER

A Schlumberger Company

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Site Sec 09 T31N R06W - 14H
Company:	Williams Production Co.	TVD Reference:	WELL @ 6451.0usft (Original Well Elev)
Project:	San Juan Co., NM - Pad 05	MD Reference:	WELL @ 6451.0usft (Original Well Elev)
Site:	Sec 09 T31N R06W - 14H	North Reference:	True
Well:	Rosa Unit 05-14H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project:	San Juan Co., NM - Pad 05		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico West 3003		

Site:		Sec 09 T31N R06W - 14H			
Site Position:		Northing:	2,153,792.35 usft	Latitude:	36° 55' 6.514 N
From:	Lat/Long	Easting:	606,147.23 usft	Longitude:	107° 28' 12.801 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.22 °

Well:	Rosa Unit 05-14H					
Well Position	+N/-S	0.0 usft	Northing:	2,153,792.35 usft	Latitude:	36° 55' 6.514 N
	+E/-W	0.0 usft	Easting:	606,147.23 usft	Longitude:	107° 28' 12.801 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	6,429.0 usft

Wellbore		Wellbore #1			
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2010	12/19/2011	9.73	63.66	50,825

Design:	Design #1				
Audit Notes:					
Version:	Phase:	PROTOTYPE		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.0	0.0	0.0	104.33	

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)	
(usft)			(usft)			(°/100usft)	(°/100usft)	(°/100usft)		
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.00	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,879.2	29.58	187.51	1,814.3	-370.3	-48.8	2.00	2.00	0.00	187.51	
3,916.1	29.58	187.51	3,585.7	-1,367.2	-180.3	0.00	0.00	0.00	0.00	
5,395.3	0.00	0.00	5,000.0	-1,737.5	-229.1	2.00	-2.00	0.00	180.00	VERT - 14H
5,395.3	0.00	131.22	5,000.0	-1,737.5	-229.1	12.00	11.98	0.00	131.22	
6,991.9	0.00	131.22	6,596.6	-1,737.5	-229.1	0.00	0.00	0.00	0.00	
7,749.0	90.86	90.22	7,074.0	-1,739.4	255.6	12.00	12.00	-5.41	-41.00	POE - 14H
14,402.4	90.86	90.22	6,974.0	-1,764.7	6,908.2	0.00	0.00	0.00	0.00	EOL - 14H



Planning Report

PATHFINDER

A Schlumberger Company

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Site Sec 09 T31N R06W - 14H
Company:	Williams Production Co.	TVD Reference:	WELL @ 6451.0usft (Original Well Elev)
Project:	San Juan Co., NM - Pad 05	MD Reference:	WELL @ 6451.0usft (Original Well Elev)
Site:	Sec 09 T31N R06W - 14H	North Reference:	True
Well:	Rosa Unit 05-14H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey										
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)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00	
300' Casing Set 0°										
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00	
"Nudge" 2°/100'										
500.0	2.00	187.51	500.0	-1.7	-0.2	0.2	2.00	2.00	0.00	
600.0	4.00	187.51	599.8	-6.9	-0.9	0.8	2.00	2.00	0.00	
700.0	6.00	187.51	699.5	-15.6	-2.1	1.9	2.00	2.00	0.00	
800.0	8.00	187.51	798.7	-27.6	-3.6	3.3	2.00	2.00	0.00	
900.0	10.00	187.51	897.5	-43.1	-5.7	5.2	2.00	2.00	0.00	
1,000.0	12.00	187.51	995.6	-62.1	-8.2	7.4	2.00	2.00	0.00	
1,100.0	14.00	187.51	1,093.1	-84.4	-11.1	10.1	2.00	2.00	0.00	
1,200.0	16.00	187.51	1,189.6	-110.0	-14.5	13.2	2.00	2.00	0.00	
1,300.0	18.00	187.51	1,285.3	-139.0	-18.3	16.6	2.00	2.00	0.00	
1,400.0	20.00	187.51	1,379.8	-171.3	-22.6	20.5	2.00	2.00	0.00	
1,500.0	22.00	187.51	1,473.2	-206.8	-27.3	24.8	2.00	2.00	0.00	
1,600.0	24.00	187.51	1,565.2	-245.5	-32.4	29.4	2.00	2.00	0.00	
1,700.0	26.00	187.51	1,655.8	-287.4	-37.9	34.4	2.00	2.00	0.00	
1,800.0	28.00	187.51	1,744.9	-332.5	-43.8	39.8	2.00	2.00	0.00	
1,879.2	29.58	187.51	1,814.3	-370.3	-48.8	44.3	2.00	2.00	0.00	
Hold 29.6°										
1,900.0	29.58	187.51	1,832.4	-380.5	-50.2	45.6	0.00	0.00	0.00	
2,000.0	29.58	187.51	1,919.4	-429.4	-56.6	51.4	0.00	0.00	0.00	
2,100.0	29.58	187.51	2,006.4	-478.3	-63.1	57.3	0.00	0.00	0.00	
2,200.0	29.58	187.51	2,093.3	-527.3	-69.5	63.1	0.00	0.00	0.00	
2,300.0	29.58	187.51	2,180.3	-576.2	-76.0	69.0	0.00	0.00	0.00	
2,400.0	29.58	187.51	2,267.2	-625.2	-82.4	74.9	0.00	0.00	0.00	
2,500.0	29.58	187.51	2,354.2	-674.1	-88.9	80.7	0.00	0.00	0.00	
2,600.0	29.58	187.51	2,441.2	-723.1	-95.3	86.6	0.00	0.00	0.00	
2,700.0	29.58	187.51	2,528.1	-772.0	-101.8	92.5	0.00	0.00	0.00	
2,800.0	29.58	187.51	2,615.1	-821.0	-108.2	98.3	0.00	0.00	0.00	
2,900.0	29.58	187.51	2,702.1	-869.9	-114.7	104.2	0.00	0.00	0.00	
3,000.0	29.58	187.51	2,789.0	-918.9	-121.2	110.0	0.00	0.00	0.00	
3,100.0	29.58	187.51	2,876.0	-967.8	-127.6	115.9	0.00	0.00	0.00	
3,200.0	29.58	187.51	2,963.0	-1,016.8	-134.1	121.8	0.00	0.00	0.00	
3,300.0	29.58	187.51	3,049.9	-1,065.7	-140.5	127.6	0.00	0.00	0.00	
3,400.0	29.58	187.51	3,136.9	-1,114.6	-147.0	133.5	0.00	0.00	0.00	
3,500.0	29.58	187.51	3,223.8	-1,163.6	-153.4	139.3	0.00	0.00	0.00	
3,600.0	29.58	187.51	3,310.8	-1,212.5	-159.9	145.2	0.00	0.00	0.00	
3,700.0	29.58	187.51	3,397.8	-1,261.5	-166.3	151.1	0.00	0.00	0.00	
3,800.0	29.58	187.51	3,484.7	-1,310.4	-172.8	156.9	0.00	0.00	0.00	
3,900.0	29.58	187.51	3,571.7	-1,359.4	-179.2	162.8	0.00	0.00	0.00	
3,916.1	29.58	187.51	3,585.7	-1,367.2	-180.3	163.7	0.00	0.00	0.00	
Drop 2°/100'										
4,000.0	27.91	187.51	3,659.3	-1,407.3	-185.6	168.5	2.00	-2.00	0.00	
4,100.0	25.91	187.51	3,748.4	-1,452.1	-191.5	173.9	2.00	-2.00	0.00	
4,200.0	23.91	187.51	3,839.1	-1,493.9	-197.0	178.9	2.00	-2.00	0.00	
4,300.0	21.91	187.51	3,931.2	-1,532.4	-202.1	183.5	2.00	-2.00	0.00	
4,400.0	19.91	187.51	4,024.6	-1,567.8	-206.7	187.7	2.00	-2.00	0.00	
4,500.0	17.91	187.51	4,119.2	-1,599.9	-211.0	191.6	2.00	-2.00	0.00	
4,600.0	15.91	187.51	4,214.9	-1,628.8	-214.8	195.0	2.00	-2.00	0.00	
4,700.0	13.91	187.51	4,311.6	-1,654.3	-218.1	198.1	2.00	-2.00	0.00	



Planning Report

PATHFINDER

A Schlumberger Company

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Site Sec 09 T31N R06W - 14H
Company:	Williams Production Co.	TVD Reference:	WELL @ 6451.0usft (Original Well Elev)
Project:	San Juan Co., NM - Pad 05	MD Reference:	WELL @ 6451.0usft (Original Well Elev)
Site:	Sec 09 T31N R06W - 14H	North Reference:	True
Well:	Rosa Unit 05-14H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
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)
4,800.0	11.91	187.51	4,409.0	-1,676.4	-221.0	200.8	2.00	-2.00	0.00
4,900.0	9.91	187.51	4,507.2	-1,695.2	-223.5	203.0	2.00	-2.00	0.00
5,000.0	7.91	187.51	4,606.0	-1,710.5	-225.5	204.8	2.00	-2.00	0.00
5,100.0	5.91	187.51	4,705.3	-1,722.4	-227.1	206.3	2.00	-2.00	0.00
5,200.0	3.91	187.51	4,804.9	-1,730.9	-228.2	207.3	2.00	-2.00	0.00
5,300.0	1.91	187.51	4,904.8	-1,735.9	-228.9	207.9	2.00	-2.00	0.00
5,395.3	0.00	0.00	5,000.0	-1,737.5	-229.1	208.1	2.00	-2.00	0.00
"VERT" @ 5395' MD									
5,400.0	0.00	131.22	5,004.7	-1,737.5	-229.1	208.1	0.04	0.04	0.00
5,500.0	0.00	131.22	5,104.7	-1,737.5	-229.1	208.1	0.00	0.00	0.00
5,600.0	0.00	131.22	5,204.7	-1,737.5	-229.1	208.1	0.00	0.00	0.00
5,700.0	0.00	131.22	5,304.7	-1,737.5	-229.1	208.1	0.00	0.00	0.00
5,800.0	0.00	131.22	5,404.7	-1,737.5	-229.1	208.1	0.00	0.00	0.00
5,900.0	0.00	131.22	5,504.7	-1,737.5	-229.1	208.1	0.00	0.00	0.00
6,000.0	0.00	131.22	5,604.7	-1,737.5	-229.1	208.1	0.00	0.00	0.00
6,100.0	0.00	131.22	5,704.7	-1,737.5	-229.1	208.1	0.00	0.00	0.00
6,200.0	0.00	131.22	5,804.7	-1,737.5	-229.1	208.1	0.00	0.00	0.00
6,300.0	0.00	131.22	5,904.7	-1,737.5	-229.1	208.1	0.00	0.00	0.00
6,400.0	0.00	131.22	6,004.7	-1,737.5	-229.1	208.1	0.00	0.00	0.00
6,500.0	0.00	131.22	6,104.7	-1,737.5	-229.1	208.1	0.00	0.00	0.00
6,600.0	0.00	131.22	6,204.7	-1,737.5	-229.1	208.1	0.00	0.00	0.00
6,700.0	0.00	131.22	6,304.7	-1,737.5	-229.1	208.1	0.00	0.00	0.00
6,800.0	0.00	131.22	6,404.7	-1,737.5	-229.1	208.1	0.00	0.00	0.00
6,900.0	0.00	131.22	6,504.7	-1,737.5	-229.1	208.1	0.00	0.00	0.00
6,991.9	0.00	131.22	6,596.6	-1,737.5	-229.1	208.1	0.00	0.00	0.00
KOP 12°/100' @ 6991' MD									
7,000.0	0.98	90.28	6,604.7	-1,737.5	-229.0	208.2	12.00	11.99	-502.31
7,100.0	12.98	90.22	6,703.8	-1,737.6	-216.9	219.9	12.00	12.00	-0.06
7,200.0	24.98	90.22	6,798.2	-1,737.7	-184.4	251.4	12.00	12.00	0.00
7,300.0	36.98	90.22	6,883.8	-1,737.9	-133.0	301.3	12.00	12.00	0.00
7,400.0	48.98	90.22	6,956.8	-1,738.2	-65.0	367.2	12.00	12.00	0.00
7,500.0	60.98	90.22	7,014.1	-1,738.5	16.8	446.5	12.00	12.00	0.00
7,600.0	72.98	90.22	7,053.1	-1,738.8	108.6	535.6	12.00	12.00	0.00
7,700.0	84.98	90.22	7,072.2	-1,739.2	206.6	630.6	12.00	12.00	0.00
7,749.0	90.86	90.22	7,074.0	-1,739.4	255.6	678.1	12.00	12.00	0.00
"Land 14H" 90.8° @ 7749' MD									
7,800.0	90.86	90.22	7,073.2	-1,739.6	306.6	727.6	0.00	0.00	0.00
7,900.0	90.86	90.22	7,071.7	-1,740.0	406.5	824.5	0.00	0.00	0.00
8,000.0	90.86	90.22	7,070.2	-1,740.3	506.5	921.5	0.00	0.00	0.00
8,100.0	90.86	90.22	7,068.7	-1,740.7	606.5	1,018.5	0.00	0.00	0.00
8,200.0	90.86	90.22	7,067.2	-1,741.1	706.5	1,115.5	0.00	0.00	0.00
8,300.0	90.86	90.22	7,065.7	-1,741.5	806.5	1,212.4	0.00	0.00	0.00
8,400.0	90.86	90.22	7,064.2	-1,741.9	906.5	1,309.4	0.00	0.00	0.00
8,500.0	90.86	90.22	7,062.7	-1,742.2	1,006.5	1,406.4	0.00	0.00	0.00
8,600.0	90.86	90.22	7,061.2	-1,742.6	1,106.5	1,503.3	0.00	0.00	0.00
8,700.0	90.86	90.22	7,059.7	-1,743.0	1,206.4	1,600.3	0.00	0.00	0.00
8,800.0	90.86	90.22	7,058.2	-1,743.4	1,306.4	1,697.3	0.00	0.00	0.00
8,900.0	90.86	90.22	7,056.7	-1,743.8	1,406.4	1,794.2	0.00	0.00	0.00
9,000.0	90.86	90.22	7,055.2	-1,744.1	1,506.4	1,891.2	0.00	0.00	0.00
9,100.0	90.86	90.22	7,053.7	-1,744.5	1,606.4	1,988.2	0.00	0.00	0.00
9,200.0	90.86	90.22	7,052.2	-1,744.9	1,706.4	2,085.2	0.00	0.00	0.00
9,300.0	90.86	90.22	7,050.7	-1,745.3	1,806.4	2,182.1	0.00	0.00	0.00
9,400.0	90.86	90.22	7,049.2	-1,745.7	1,906.4	2,279.1	0.00	0.00	0.00



Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Site Sec 09 T31N R06W - 14H
Company:	Williams Production Co.	TVD Reference:	WELL @ 6451.0usft (Original Well Elev)
Project:	San Juan Co., NM - Pad 05	MD Reference:	WELL @ 6451.0usft (Original Well Elev)
Site:	Sec 09 T31N R06W - 14H	North Reference:	True
Well:	Rosa Unit 05-14H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
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)
9,500.0	90.86	90.22	7,047.7	-1,746.0	2,006.3	2,376.1	0.00	0.00	0.00
9,600.0	90.86	90.22	7,046.2	-1,746.4	2,106.3	2,473.0	0.00	0.00	0.00
9,700.0	90.86	90.22	7,044.7	-1,746.8	2,206.3	2,570.0	0.00	0.00	0.00
9,800.0	90.86	90.22	7,043.2	-1,747.2	2,306.3	2,667.0	0.00	0.00	0.00
9,900.0	90.86	90.22	7,041.7	-1,747.6	2,406.3	2,764.0	0.00	0.00	0.00
10,000.0	90.86	90.22	7,040.2	-1,748.0	2,506.3	2,860.9	0.00	0.00	0.00
10,100.0	90.86	90.22	7,038.7	-1,748.3	2,606.3	2,957.9	0.00	0.00	0.00
10,200.0	90.86	90.22	7,037.2	-1,748.7	2,706.3	3,054.9	0.00	0.00	0.00
10,300.0	90.86	90.22	7,035.7	-1,749.1	2,806.2	3,151.8	0.00	0.00	0.00
10,400.0	90.86	90.22	7,034.2	-1,749.5	2,906.2	3,248.8	0.00	0.00	0.00
10,500.0	90.86	90.22	7,032.7	-1,749.9	3,006.2	3,345.8	0.00	0.00	0.00
10,600.0	90.86	90.22	7,031.1	-1,750.2	3,106.2	3,442.8	0.00	0.00	0.00
10,700.0	90.86	90.22	7,029.6	-1,750.6	3,206.2	3,539.7	0.00	0.00	0.00
10,800.0	90.86	90.22	7,028.1	-1,751.0	3,306.2	3,636.7	0.00	0.00	0.00
10,900.0	90.86	90.22	7,026.6	-1,751.4	3,406.2	3,733.7	0.00	0.00	0.00
11,000.0	90.86	90.22	7,025.1	-1,751.8	3,506.2	3,830.6	0.00	0.00	0.00
11,100.0	90.86	90.22	7,023.6	-1,752.1	3,606.2	3,927.6	0.00	0.00	0.00
11,200.0	90.86	90.22	7,022.1	-1,752.5	3,706.1	4,024.6	0.00	0.00	0.00
11,300.0	90.86	90.22	7,020.6	-1,752.9	3,806.1	4,121.6	0.00	0.00	0.00
11,400.0	90.86	90.22	7,019.1	-1,753.3	3,906.1	4,218.5	0.00	0.00	0.00
11,500.0	90.86	90.22	7,017.6	-1,753.7	4,006.1	4,315.5	0.00	0.00	0.00
11,600.0	90.86	90.22	7,016.1	-1,754.0	4,106.1	4,412.5	0.00	0.00	0.00
11,700.0	90.86	90.22	7,014.6	-1,754.4	4,206.1	4,509.4	0.00	0.00	0.00
11,800.0	90.86	90.22	7,013.1	-1,754.8	4,306.1	4,606.4	0.00	0.00	0.00
11,900.0	90.86	90.22	7,011.6	-1,755.2	4,406.1	4,703.4	0.00	0.00	0.00
12,000.0	90.86	90.22	7,010.1	-1,755.6	4,506.0	4,800.4	0.00	0.00	0.00
12,100.0	90.86	90.22	7,008.6	-1,755.9	4,606.0	4,897.3	0.00	0.00	0.00
12,200.0	90.86	90.22	7,007.1	-1,756.3	4,706.0	4,994.3	0.00	0.00	0.00
12,300.0	90.86	90.22	7,005.6	-1,756.7	4,806.0	5,091.3	0.00	0.00	0.00
12,400.0	90.86	90.22	7,004.1	-1,757.1	4,906.0	5,188.2	0.00	0.00	0.00
12,500.0	90.86	90.22	7,002.6	-1,757.5	5,006.0	5,285.2	0.00	0.00	0.00
12,600.0	90.86	90.22	7,001.1	-1,757.8	5,106.0	5,382.2	0.00	0.00	0.00
12,700.0	90.86	90.22	6,999.6	-1,758.2	5,206.0	5,479.2	0.00	0.00	0.00
12,800.0	90.86	90.22	6,998.1	-1,758.6	5,305.9	5,576.1	0.00	0.00	0.00
12,900.0	90.86	90.22	6,996.6	-1,759.0	5,405.9	5,673.1	0.00	0.00	0.00
13,000.0	90.86	90.22	6,995.1	-1,759.4	5,505.9	5,770.1	0.00	0.00	0.00
13,100.0	90.86	90.22	6,993.6	-1,759.8	5,605.9	5,867.0	0.00	0.00	0.00
13,200.0	90.86	90.22	6,992.1	-1,760.1	5,705.9	5,964.0	0.00	0.00	0.00
13,300.0	90.86	90.22	6,990.6	-1,760.5	5,805.9	6,061.0	0.00	0.00	0.00
13,400.0	90.86	90.22	6,989.1	-1,760.9	5,905.9	6,158.0	0.00	0.00	0.00
13,500.0	90.86	90.22	6,987.6	-1,761.3	6,005.9	6,254.9	0.00	0.00	0.00



Planning Report

PATHFINDER

A Schlumberger Company

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Site Sec 09 T31N R06W - 14H
Company:	Williams Production Co.	TVD Reference:	WELL @ 6451.0usft (Original Well Elev)
Project:	San Juan Co., NM - Pad 05	MD Reference:	WELL @ 6451.0usft (Original Well Elev)
Site:	Sec 09 T31N R06W - 14H	North Reference:	True
Well:	Rosa Unit 05-14H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Design Targets									
Target Name	hit/miss target	Dip Angle	Dip Dir	TVD	+N/-S	+E/-W	Northing	Easting	
Shape		(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	
VERT - 14H		0.00	0.00	5,000.0	-1,737.5	-229.1	2,152,053.99	605,924.74	36° 54' 49.333 N
- plan hits target center									107° 28' 15.622 W
- Point									
EOL - 14H		0.00	0.00	6,974.0	-1,764.7	6,908.2	2,152,053.95	613,062.06	36° 54' 49.056 N
- plan misses target center by 902.4usft at 13500.0usft MD (6987.6 TVD, -1761.3 N, 6005.9 E)									107° 26' 47.733 W
- Point									
POE - 14H		0.00	0.00	7,074.0	-1,739.4	255.6	2,152,053.95	606,409.42	36° 54' 49.314 N
- plan hits target center									107° 28' 9.653 W
- Point									

Casing Points					
Measured Depth	Vertical Depth			Casing Diameter	Hole Diameter
(usft)	(usft)		Name	(")	(")
320	300.0	300.0	9 5/8"	9-5/8	12-1/4
6700	6,951.0	6,555.7	7"	7	8-3/4

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates			
(usft)	(usft)	+N/-S	+E/-W	Comment	
		(usft)	(usft)		
320 - 300.0	300.0	0.0	0.0	Casing Set 0°	
400.0	400.0	0.0	0.0	"Nudge" 2°/100'	
1,879.2	1,814.3	-370.3	-48.8	Hold 29.6°	
3,916.1	3,585.7	-1,367.2	-180.3	Drop 2°/100'	
5,395.3	5,000.0	-1,737.5	-229.1	"VERT" @ 5395' MD	
6,991.9	6,596.6	-1,737.5	-229.1	KOP 12°/100' @ 6991' MD	
7,749.0	7,074.0	-1,739.4	255.6	"Land 14H" 90.8° @ 7749' MD	
14,402.4	6,974.0	-1,764.7	6,908.2	"TD 14H" @ 14402' MD	

SURFACE USE PLAN OF OPERATIONS
WPX Energy Production, LLC
Rosa Unit 05 #014H

General Conditions of Approval and Cultural Resource Requirements
Will Apply to this Action

1. Existing Roads:

The access route for the proposed well from Allison, CO is to exit south from State Highway 151 onto La Plata County Road 330. After passing the state line into New Mexico, travel on existing county and lease roads until reaching the proposed well site. The access route is shown on the attached map (Figure 1). For existing County roads or roads that are considered Collector Roads and under the jurisdiction of the Road Committee, WPX will defer to the County or Road Committee for all maintenance determinations. For lease roads which are WPX's responsibility as the operator, these roads will be maintained in a condition the same or better than before operations began. Specifically, WPX will conduct routine inspections of road conditions, blade when necessary to reduce ruts and holes, maintain crowns and out slopes, replace surfacing materials, clear sediment blocking ditches and culverts, maintain interim reclamation, and noxious weed control.

2. New or Reconstructed Access Roads:

No new access road will be needed as the existing road to the Rosa Unit Com #180A will be used to access the proposed well pad. The existing road will run along the west edge of the pad and be sloped back to the south at corner 2 approximately 30 feet due to fill area as shown on Figure 4. Although no need for culverts is anticipated, any drainage issues will be addressed during construction. All disturbance will be in the construction zone.

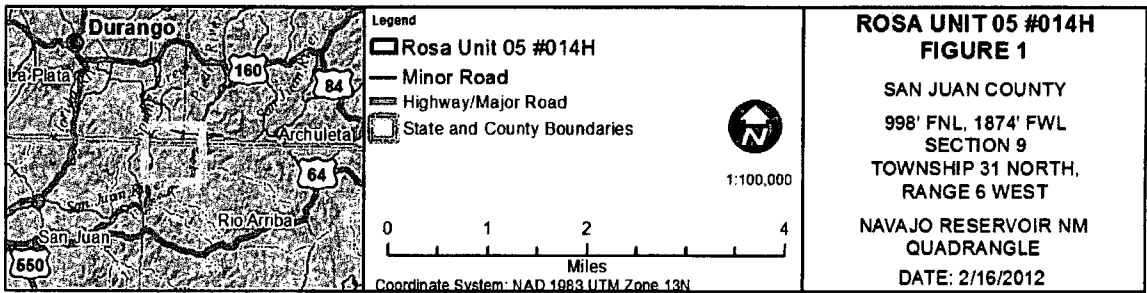
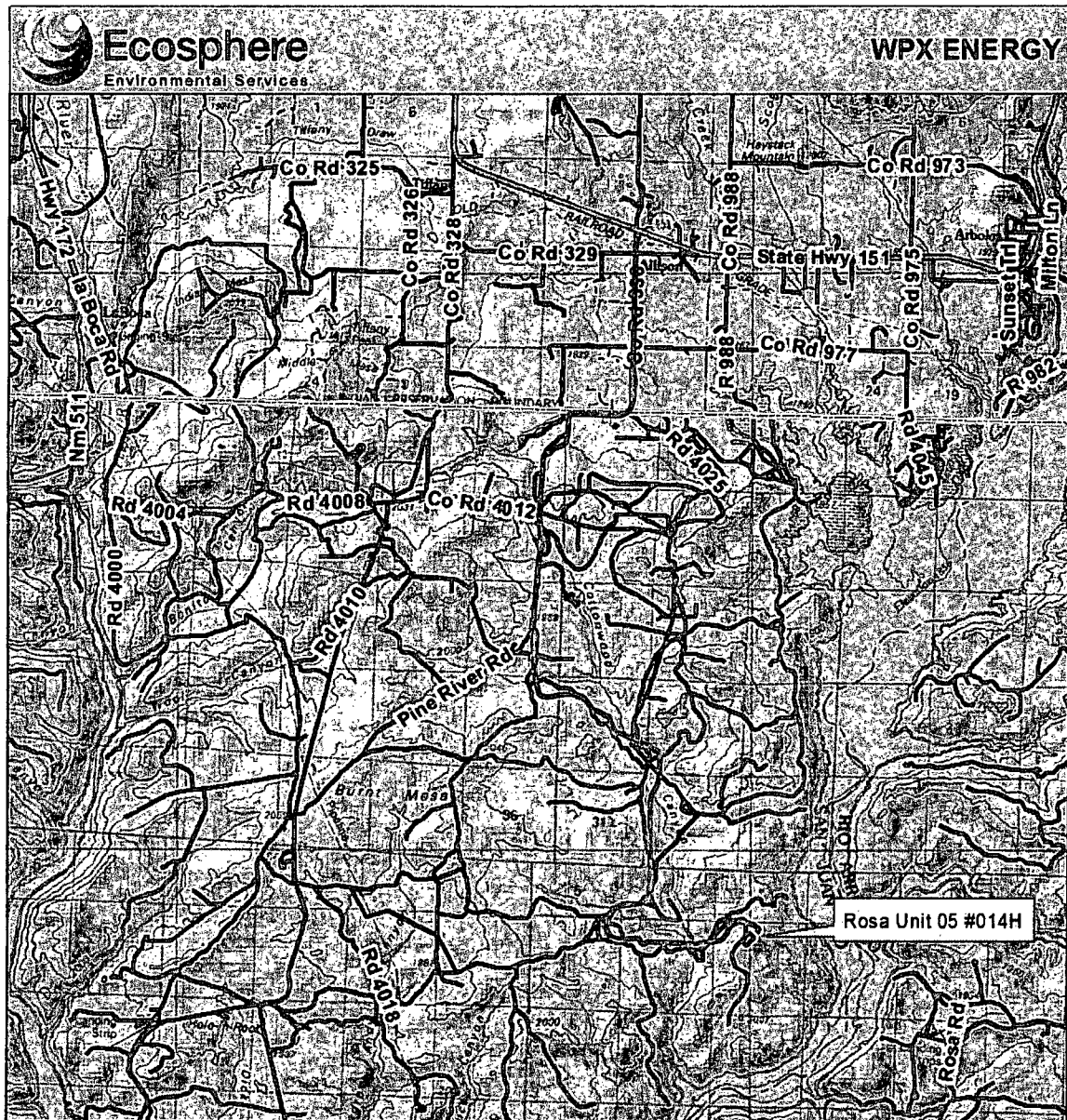
3. Location of Existing Wells:

The attached map (Figure 2) shows the existing water, plugged and abandoned, and oil and gas wells within a 1-mile radius of the proposed well pad. The proposed well pad will be twinned with the existing Rosa Unit #180A.

4. Location of Production Facilities:

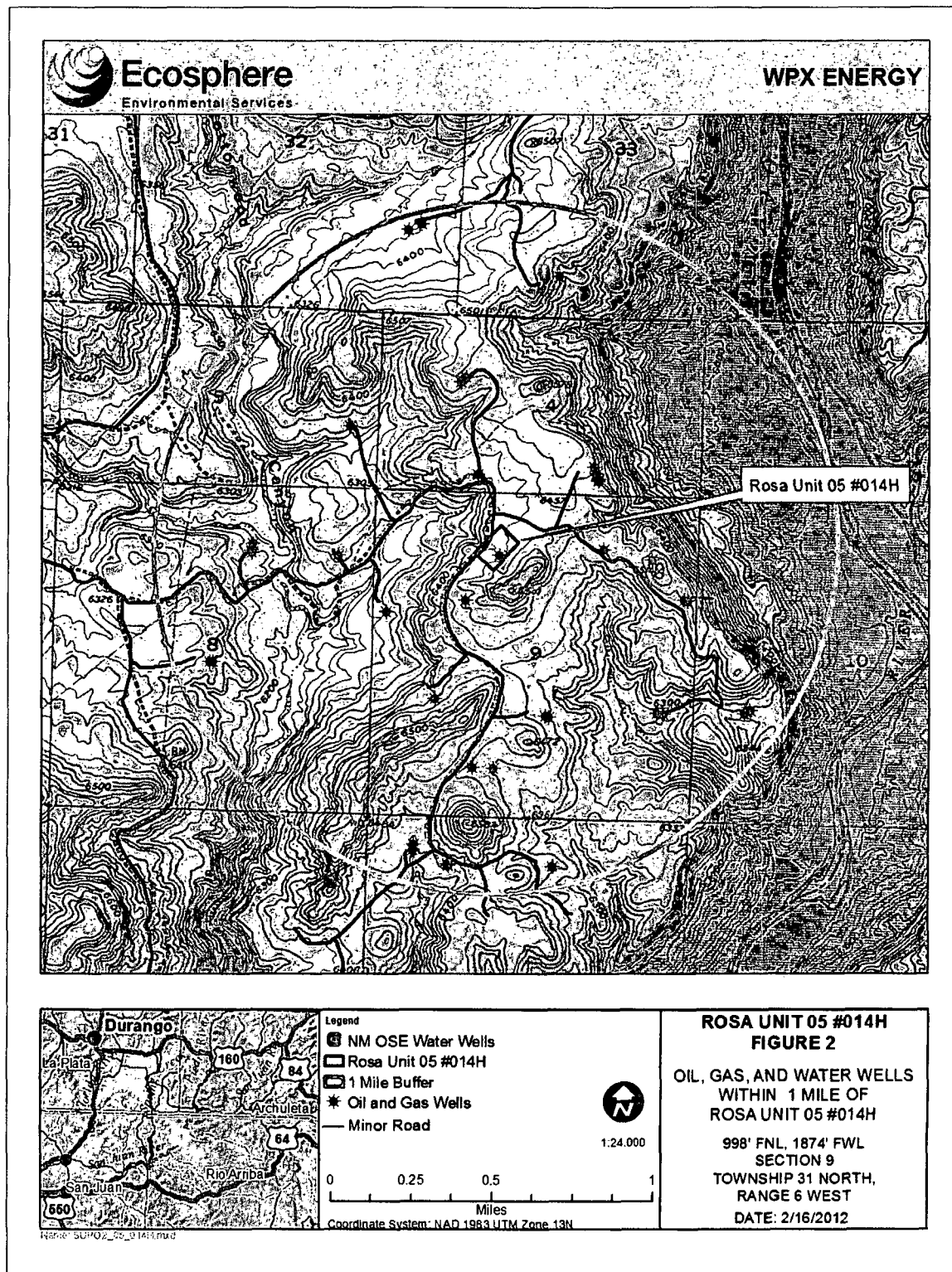
Existing production facilities for the Rosa Unit #180A will be stripped prior to construction of the expanded well pad for the proposed well. After construction of the expanded well pad, all flowlines and production equipment (quad units) for this proposed well, as well as planned future wells, will be installed. See Figure 5. Rosa Unit #180A will be put back on production and remain producing during drilling and completion of the proposed well. WPX Energy will place the liquid handling equipment after drilling is complete as shown in Figure 5. All production equipment will comply with VRM requirements. Above-ground structures will be painted Juniper Green Federal Standard 595a-34127 to blend with vegetation and reduce visual resource impacts.

Figure 1: Existing transportation network for Rosa Unit 05 #014H



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Figure 2: Water, oil and gas wells within 1 mile of the Rosa Unit 05 #014H



5,000 psi BOP Schematic

