

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

FORM APPROVED
OMB No 1004-0137
Expires March 31, 2007

OCT 28 2011

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals and Managemen

SUBMIT IN TRIPLICATE - Other instructions on page 2

1 Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2 Name of Operator

Williams Production Company, LLC

3a Address

PO Box 640 Aztec, NM 87410

3b Phone No. (include area code)

505-333-1808

4 Location of Well (Footage, Sec, T, R, M, or Survey Description)

SHL 1982' FNL & 810' FWL BHL 2450' FNL & 450' FEL, sec 24, T31N, R6W

5 Lease Serial No

SF-078767

6 Indian, Allottee or Tribe Name

7 If Unit of CA/Agreement, Name and/or No
Rosa Unit

8 Well Name and No.

Rosa Unit #206A

9 API Well No.

30-039-29495

10 Field and Pool or Exploratory Area
Basin Fruitland Coal

11 Country or Parish, State

Rio Arriba

12 CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☒ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13 Describe Proposed or Completed Operation. Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Williams plans to re enter this existing wellbore and convert this well from a vertical cavitation to a horizontal completion as per attached plat, operation plan and directional plan

NOTE. Williams would like to update the existing SHL records for this well. Due to resurveyed data and advancements in technology the SHL from the existing C-102 is inconsistent with the attached. It is our belief that the more accurate C-102 is the most recent of the two and would like provide the attached for record.

Reo new C104, As Drilled Plat & Dir Survey

14 I hereby certify that the foregoing is true and correct. Name (Printed/Typed) Larry Higgins	Title Permit Supervisor
Signature	Date 10/27/11

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by Troy L. Salvors	Title PE	Date 11/8/2011
Conditions of approval, if any, are attached. Approval of this notice 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.	Office FFO	

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 page 2)

CONDITIONS OF APPROVAL
Adhere to previously issued stipulations.

NMOCD
A

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

District I
1625 N French Dr., Hobbs, NM 88240

District II
1301 W. Grand Avenue, Artesia, NM 88210

District III
1000 Rio Brazos Rd., Aztec, NM 87410

District IV
1220 S. St Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

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

Form C-102
Revised October 12, 2005
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039-29495		*Pool Code 71629	*Pool Name BASIN FRUITLAND COAL
*Property Code 17033	*Property Name ROSA UNIT		*Well Number 206A
*GRID No. 120782	*Operator Name WILLIAMS PRODUCTION COMPANY		*Elevation 6297'

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
E	24	31N	6W		1982	NORTH	810	WEST	RIO ARriba

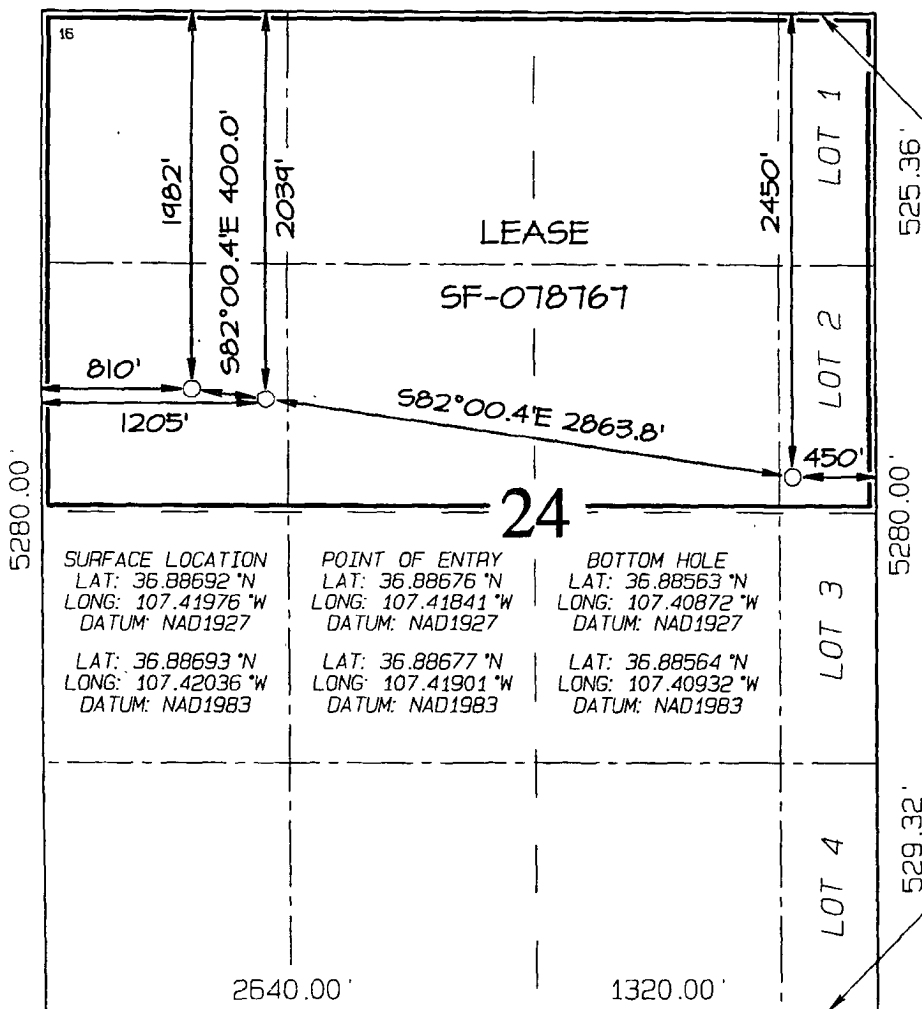
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	24	31N	6W		2450	NORTH	450	EAST	RIO ARriba

¹² Dedicated Acres 271.90 Acres - (N/2)	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No SD-201133
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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

2640.00' 1320.00'



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.

Larry Higgins 10-27-11
Signature Date

Larry Higgins
Printed Name

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.

Date Revised: SEPTEMBER 6, 2011
Survey Date: JANUARY 15, 2004

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269



WILLIAMS PRODUCTION COMPANY

Operations Plan

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

DATE: 10/25/2011

WELLNAME: Rosa Unit #206A **FIELD:** Basin Fruitland Coal

BH LOCATION: SENE Sec. 24-T31N-6W **SURFACE:** BLM
Rio Arriba, NM

ELEVATION: 6,297' GR **MINERALS:** BLM

TOTAL DEPTH: 6,172' **LEASE #** SF-078767

API#: 30-039-29495

I. GEOLOGY: Surface formation - San Jose

A. FORMATION TOPS: (KB)

NAME		TVD	MD
Kirtland		2,499	2,499
Fruitland		2,894	2,910
Top Target Coal		3,128	3,419
Bottom Target Coal			
Picture Cliffs		3,144	
TD		3,128	6,172

B. LOGGING PROGRAM: None

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

D. MUD LOGGING PRORAM: Mud logger will be on location from mill out to TD.

II. PREPARATORY WORK

- A. MIRU w/ workover rig
- B. POOH/LD rods and pump
- C. POOH/LD production tbg
- D. Set retrievable bridge plug at 2,619' inside 7" casing
- E. Pressure test 7" csg and bridge plug to 1,500 psi for 30 minutes
- F. RDMO

III. DRILLING

- A. MUD PROGRAM:** LSND mud during mill out and while drilling curve. Treat for lost circulation as necessary. Notify Engineering of any mud losses.

B. **DRILLING FLUID:** Horizontal section will be drilled with produced water.

C. **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 1300 psi, so the BOPE will be tested to **250 psi (Low) for 5 minutes** and **1500 psi (High) for 10 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.**

IV. **MATERIALS**

A. **CASING PROGRAM (as is):**

<u>CASING TYPE</u>	<u>HOLE SIZE</u>	<u>DEPTH (MD)</u>	<u>CASING SIZE</u>	<u>WT. & GRADE</u>
Surface	12-1/4"	320'	9-5/8"	36# J-55
Intermediate	8-3/4"	2,965'	7"	20# K-55
Prod. Liner	6-1/4"	2,912'- 3,242'	5-1/2"	17# N-80

B. **CASING PROGRAM (after sidetrack):**

<u>CASING TYPE</u>	<u>HOLE SIZE</u>	<u>DEPTH (MD)</u>	<u>CASING SIZE</u>	<u>WT. & GRADE</u>
Surface	12-1/4"	320'	9-5/8"	36# J-55
Intermediate	8-3/4"	2,965'	7"	20# K-55
Prod. Liner (motherbore)	6-1/4"	2,912'- 3,242'	5-1/2"	17# N-80
Prod. Liner (sidetrack)	6-1/4"	~2,630' - 6,172'	4-1/2"	11.6# K-55

- Sidetrack production liner is pre-perforated below top of fruitland with blank pipe from window to top of fruitland and will be dropped off with top of liner in open hole 5-10' outside of window.

C. **FLOAT EQUIPMENT:**

- PRODUCTION LINER (sidetrack): No centralization

D. **CEMENTING:**

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

- PRODUCTION LINER (sidetrack): Open hole completion. No cement.

V. **COMPLETION**

A. **STIMULATION**

- No stimulation

B. **RUNNING TUBING**

- Fruitland Coal: Run 2-7/8", 6.5#, J-55, EUE tubing with a SN on top of bottom joint. Land tubing at approximately 3,213' MD inside of motherbore.


 Larry Higgins
 Permit Supervisor



Williams Energy

Rosa Unit #206A STK
Sec24 T31N-R06W - 206A

Rio Arriba Co. NM

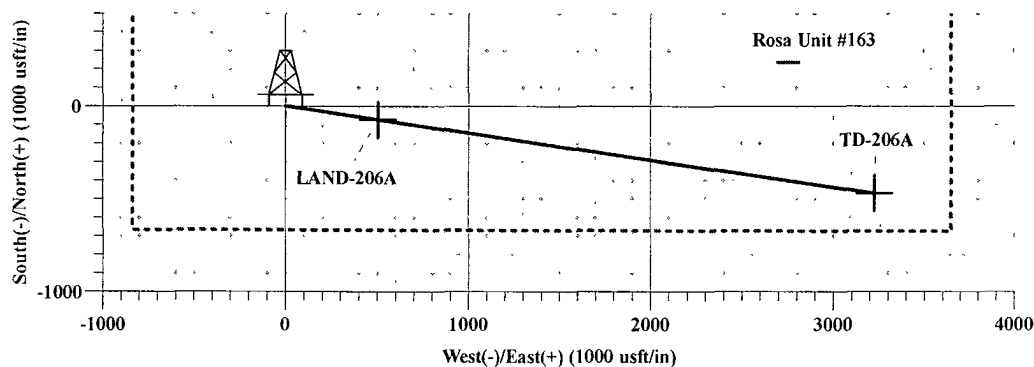
GL: 6310' KB: 14'



A Schlumberger Company

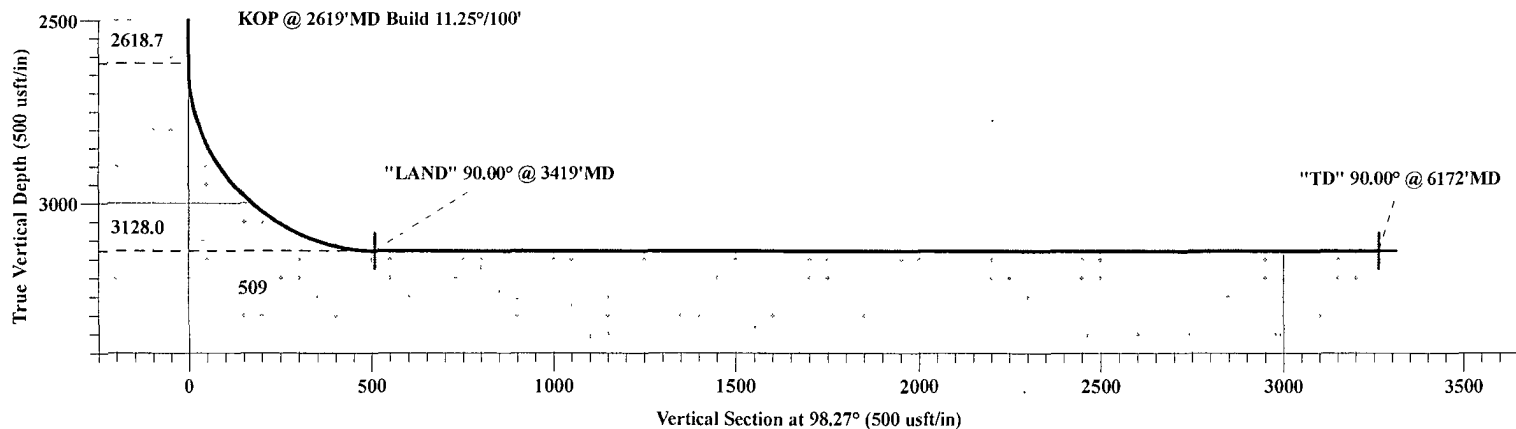
WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
LAND-206A	3128 0	-73 3	504 0	2144083 23	158409 16	Point
TD-206A	3128 0	-469 5	3229 0	2143653 66	161129 15	Point



WELL DETAILS Rosa Unit #206A STK

Northing	Easting	Latitude	Longitude
2144162.70	157906 10	36° 53' 12 912 N	107° 25' 11.136 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	
2618 7	0 00	0 00	2618 7	0 0	0 0	0 00	0 00	0 0	
3418 7	90 00	98 27	3128 0	-73 3	504 0	11 25	98 27	509 3	
6172 4	90 00	98 27	3128 0	-469 5	3229 0	0 00	0 00	3263 0	TD-206A

Plan: Design #1 (Rosa Unit #206A STK/Wellbore #1)

Created By: Frank C. Scardino

Date: 10/19/2011

Williams Energy

Rio Arriba Co. NM

Sec24 T31N-R06W - 206A

Rosa Unit #206A STK

Wellbore #1

Plan: Design #1

Standard Planning Report

19 October, 2011

Planning Report

Database:	EDM 5000.1-Single User Db	Local Co-ordinate Reference:	Site: Sec24-T31N-R06W - 206A
Company:	Williams Energy	TVD Reference:	WELL @ 6311 0usft (Original Well Elev)
Project:	Rio Arriba Co. NM	MD Reference:	WELL @ 6311 0usft (Original Well Elev)
Site:	Sec24-T31N-R06W - 206A	North Reference:	True
Well:	Rosa Unit #206A STK	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project	Rio Arriba Co. NM		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico Central 3002		

Site	Sec24-T31N-R06W - 206A		
Site Position:		Northing:	2,144,162 70 usft
From:	Lat/Long	Easting:	157,906 10 usft
Position Uncertainty:	0 0 usft	Slot Radius:	13-3/16 "
		Latitude:	36° 53' 12 912 N
		Longitude:	107° 25' 11 136 W
		Grid Convergence:	-0 70 °

Well	Rosa Unit #206A STK		
Well Position	+N/-S	0 0 usft	Northing:
	+E/-W	0 0 usft	Easting:
Position Uncertainty	0 0 usft	Wellhead Elevation:	Ground Level:
			6,297 0 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
	IGRF2010	10/19/11	9 73
			Dip Angle
			63 64
			Field Strength
			50,831

Design	Design #1		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth:
			0 0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0 0	0 0	0 0
			Direction
			98 27

Plan Sections										
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 0	0 00	0 00	0 0	0 0	0 0	0 00	0 00	0 00	0 00	
2,618 7	0 00	0 00	2,618 7	0 0	0 0	0 00	0 00	0 00	0 00	
3,418 7	90 00	98 27	3,128 0	-73 3	504 0	11 25	11 25	0 00	98 27	
6,172 4	90 00	98 27	3,128 0	-469 5	3,229 0	0 00	0 00	0 00	0 00	TD-206A

Planning Report

Database: EDM 5000 1 Single User Db
Company: Williams Energy
Project: Rio Arriba Co. NM
Site: Sec24 T31N-R06W - 206A
Well: Rosa Unit #206A STK
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Site Sec24 T31N-R06W - 206A
TVD Reference: WELL @ 6311 0usft (Original Well Elev)
MD Reference: WELL @ 6311 0usft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

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)
2,618.7	0 00	0 00	2,618.7	0 0	0 0	0 0	0 00	0 00	0 00
KOP @ 2619 MD Build 11.25°/100'									
2,650.0	3 52	98 27	2,650.0	-0.1	1.0	1.0	11.25	11.25	0.00
2,700.0	9 15	98 27	2,699.7	-0.9	6.4	6.5	11.25	11.25	0.00
2,750.0	14 77	98 27	2,748.6	-2.4	16.7	16.8	11.25	11.25	0.00
2,800.0	20 40	98 27	2,796.2	-4.6	31.6	31.9	11.25	11.25	0.00
2,850.0	26 02	98 27	2,842.1	-7.4	51.1	51.6	11.25	11.25	0.00
2,900.0	31 65	98 27	2,885.9	-10.9	74.9	75.7	11.25	11.25	0.00
2,950.0	37 27	98 27	2,927.1	-15.0	102.9	104.0	11.25	11.25	0.00
3,000.0	42.90	98 27	2,965.4	-19.6	134.8	136.2	11.25	11.25	0.00
3,050.0	48 52	98 27	3,000.3	-24.7	170.2	172.0	11.25	11.25	0.00
3,100.0	54 15	98 27	3,031.5	-30.4	208.8	211.0	11.25	11.25	0.00
3,150.0	59 77	98 27	3,058.7	-36.4	250.3	252.9	11.25	11.25	0.00
3,200.0	65 40	98 27	3,081.8	-42.8	294.2	297.3	11.25	11.25	0.00
3,250.0	71 02	98 27	3,100.3	-49.4	340.1	343.7	11.25	11.25	0.00
3,300.0	76 65	98 27	3,114.2	-56.4	387.6	391.7	11.25	11.25	0.00
3,350.0	82 27	98 27	3,123.4	-63.4	436.2	440.8	11.25	11.25	0.00
3,400.0	87 90	98 27	3,127.7	-70.6	485.5	490.6	11.25	11.25	0.00
3,418.7	90 00	98 27	3,128.0	-73.3	504.0	509.3	11.25	11.25	0.00
LAND 90.00° @ 3419 MD									
3,500.0	90 00	98 27	3,128.0	-85.0	584.4	590.6	0.00	0.00	0.00
3,600.0	90 00	98 27	3,128.0	-99.4	683.4	690.6	0.00	0.00	0.00
3,700.0	90 00	98 27	3,128.0	-113.8	782.4	790.6	0.00	0.00	0.00
3,800.0	90 00	98 27	3,128.0	-128.1	881.3	890.6	0.00	0.00	0.00
3,900.0	90 00	98 27	3,128.0	-142.5	980.3	990.6	0.00	0.00	0.00
4,000.0	90 00	98 27	3,128.0	-156.9	1,079.2	1,090.6	0.00	0.00	0.00
4,100.0	90 00	98 27	3,128.0	-171.3	1,178.2	1,190.6	0.00	0.00	0.00
4,200.0	90 00	98 27	3,128.0	-185.7	1,277.2	1,290.6	0.00	0.00	0.00
4,300.0	90 00	98 27	3,128.0	-200.1	1,376.1	1,390.6	0.00	0.00	0.00
4,400.0	90 00	98 27	3,128.0	-214.5	1,475.1	1,490.6	0.00	0.00	0.00
4,500.0	90 00	98 27	3,128.0	-228.9	1,574.0	1,590.6	0.00	0.00	0.00
4,600.0	90 00	98 27	3,128.0	-243.2	1,673.0	1,690.6	0.00	0.00	0.00
4,700.0	90 00	98 27	3,128.0	-257.6	1,772.0	1,790.6	0.00	0.00	0.00
4,800.0	90 00	98 27	3,128.0	-272.0	1,870.9	1,890.6	0.00	0.00	0.00
4,900.0	90 00	98 27	3,128.0	-286.4	1,969.9	1,990.6	0.00	0.00	0.00
5,000.0	90 00	98 27	3,128.0	-300.8	2,068.8	2,090.6	0.00	0.00	0.00
5,100.0	90 00	98 27	3,128.0	-315.2	2,167.8	2,190.6	0.00	0.00	0.00
5,200.0	90 00	98 27	3,128.0	-329.6	2,266.8	2,290.6	0.00	0.00	0.00
5,300.0	90 00	98 27	3,128.0	-344.0	2,365.7	2,390.6	0.00	0.00	0.00
5,400.0	90 00	98 27	3,128.0	-358.4	2,464.7	2,490.6	0.00	0.00	0.00
5,500.0	90 00	98 27	3,128.0	-372.7	2,563.6	2,590.6	0.00	0.00	0.00
5,600.0	90 00	98 27	3,128.0	-387.1	2,662.6	2,690.6	0.00	0.00	0.00
5,700.0	90 00	98 27	3,128.0	-401.5	2,761.6	2,790.6	0.00	0.00	0.00
5,800.0	90 00	98 27	3,128.0	-415.9	2,860.5	2,890.6	0.00	0.00	0.00
5,900.0	90 00	98 27	3,128.0	-430.3	2,959.5	2,990.6	0.00	0.00	0.00
6,000.0	90 00	98 27	3,128.0	-444.7	3,058.4	3,090.6	0.00	0.00	0.00
6,100.0	90 00	98 27	3,128.0	-459.1	3,157.4	3,190.6	0.00	0.00	0.00
6,172.4	90 00	98 27	3,128.0	-469.5	3,229.0	3,263.0	0.00	0.00	0.00
TD 90.00° @ 6172 MD									

Planning Report

Database:	EDM.5000 1.Single User Db	Local Co-ordinate Reference:	Site:Sec24.T31N-R06W - 206A
Company:	Williams Energy	TVD Reference:	WELL @ 6311.0usft (Original Well Elev)
Project:	Rio Arriba Co. NM	MD Reference:	WELL @ 6311.0usft (Original Well Elev)
Site:	Sec24.T31N-R06W - 206A	North Reference:	True
Well:	Rosa Unit #206A STK	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Design Targets

Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
LAND-206A	0 00	0 00	3,128 0	-73 3	504 0	2,144,083 22	158,409 17	36° 53' 12.187 N	107° 25' 4 933 W
- plan hits target center									
- Point									
TD-206A	0 00	0 00	3,128 0	-469 5	3,229 0	2,143,653 66	161,129 15	36° 53' 8 268 N	107° 24' 31.392 W
- plan hits target center									
- Point									

Plan Annotations

Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	
2,618.7	2,618.7	0 0	0 0	KOP @ 2619'MD Build 11 25°/100'
3,418.7	3,128.0	-73.3	504.0	"LAND" 90.00° @ 3419'MD
6,172.4	3,128.0	-469.5	3,229.0	"TD" 90.00° @ 6172'MD