

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

SEP 09 2011

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

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.

SUBMIT IN TRIPLICATE - Other instructions on page 2.

5. Lease Serial No.

SF-078777

6. If Indian, Allottee or Tribe Name

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

Rosa Unit

8. Well Name and No

Rosa Unit #63

9. API Well No.

30-039-21395

10. Field and Pool or Exploratory Area
Basin Fruitland Coal

11. Country or Parish, State

Rio Arriba, NM

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)

505-333-1806

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

Sur 1626' FNL & 1884' FEL, BHL 700' FSL & 2528' FEL, sec 30, T31N, R4W

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 SHL C-102 _____
	☐ 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. In addition 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.

14. I hereby certify that the foregoing is true and correct.

Name (Printed/Typed)

Ben Mitchell

Title Regulatory Specialist

Signature

B Mitchell

Date 9/7/11

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Original Signed: Stephen Mason

Title

Date

SEP 22 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.

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)

NMOCD A



JASON C. EDWARDS
Certificate Number 15269



WILLIAMS PRODUCTION COMPANY

Operations Plan

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

DATE: 9/8/2011

WELLNAME: Rosa Unit #63 **FIELD:** Basin Fruitland Coal

BH LOCATION: SWSE Sec. 30-T31N-4W **SURFACE:** BLM
Rio Arriba, NM

ELEVATION: 6,541' GR **MINERALS:** BLM

TOTAL DEPTH: 6,123' **LEASE #** SF-078777

API#: 30-039-21395

I. GEOLOGY: Surface formation - San Jose

A. FORMATION TOPS: (KB)

NAME		TVD	MD
Kirtland		2,754	2,756
Fruitland		3,231	3,315
Top Target Coal		3,363	3,748
Bottom Target Coal		3,376	
Picture Cliffs		3,408	
TD		3,363	6,123

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 2,700' 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		336'	10-3/4"	32.75# H-40
Intermediate	9-7/8"	3,288'	7-5/8"	26.4# K-55
Prod. Liner				

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		336'	10-3/4"	32.75# H-40
Intermediate	9-7/8"	3,288'	7-5/8"	26.4# K-55
Prod. Liner (motherbore)				
Prod. Liner (sidetrack)	6-1/4"	~2,710'-6,123'	4-1/2"	11.6# K-55

- Sidetrack production liner is pre-perforated 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 3,311' MD inside of motherbore.

Brian Alleman
Drilling Engineer II



Williams Energy

Rosa Unit #63 STK
Sec30 T31N-R4W - 63
Rio Arriba Co. NM

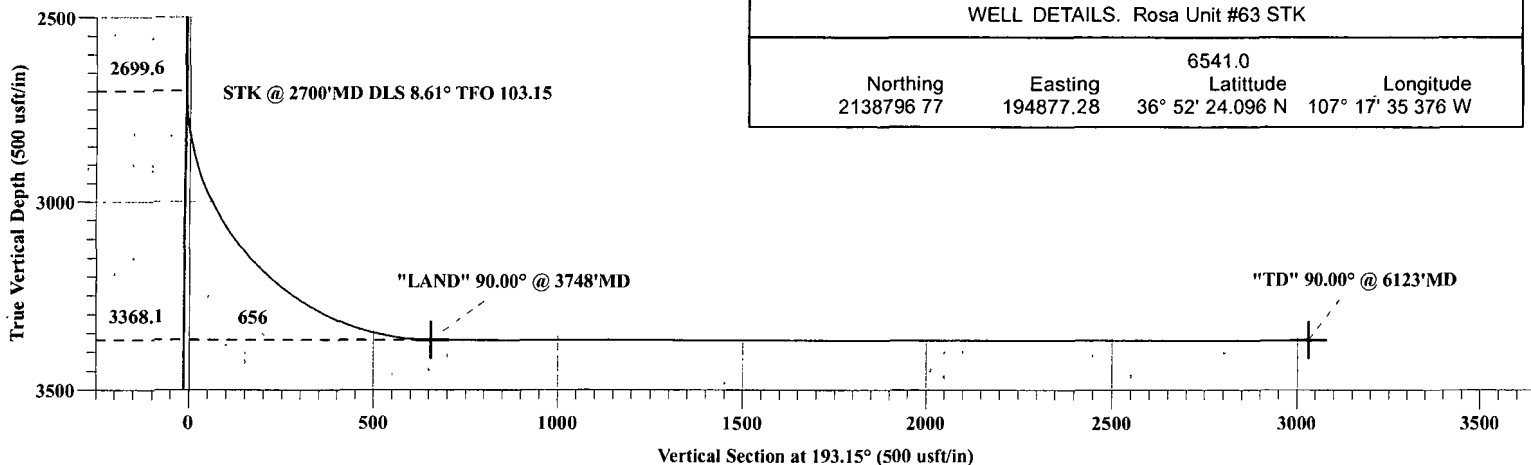
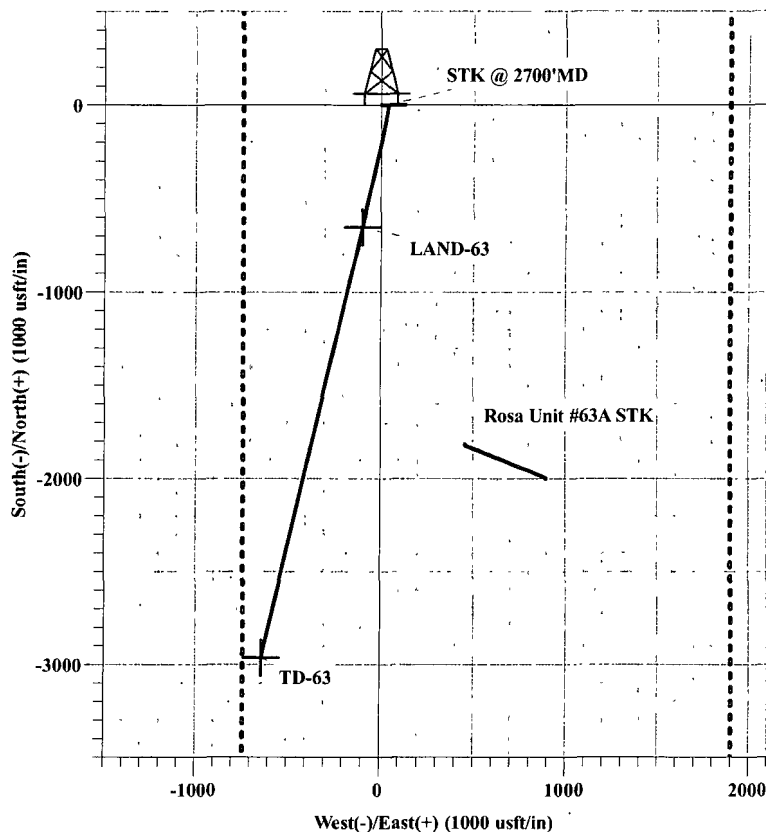
GL: 6541' KB: 14'

PATHFINDER®

A Schlumberger Company

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
LAND-63	3368.0	-651 1	-97.4	2138146.77	194772.78	Point
TD-63	3368.0	-2963 6	-637 8	2135840.26	194207.17	Point



WELL DETAILS. Rosa Unit #63 STK

Northing	Easting	Latitude	Longitude
2138796 77	194877.28	36° 52' 24.096 N	107° 17' 35 376 W

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
2700 0	1 25	90 00	2699 6	0 0	40 2	0 00	0 00	-9 1	
3748 4	90 00	193 15	3368 1	-651 1	-97 4	8 61	103 15	656 2	
6123 2	90.00	193 15	3368 0	-2963 6	-637 8	0 00	0 00	3031 0	TD-63

Plan: Design #1 (Rosa Unit #63 STK/STK)

Created By: Frank C. Scardino

Date: 9/07/2011

Williams Energy

Rio Arriba Co. NM

Sec30 T31N-R4W - 63

Rosa Unit #63 STK

STK

Plan: Design #1

Standard Planning Report

07 September, 2011

Planning Report

Database: EDM 5000 1 Single User Db
 Company: Williams Energy
 Project: Rio Arriba Co NM
 Site: Sec30 T31N-R4W - 63
 Well: Rosa Unit #63 STK
 Wellbore: STK
 Design: Design #1

Local Co-ordinate Reference: Site Sec30 T31N-R4W - 63
 TVD Reference: RIG @ 6555 0usft
 MD Reference: RIG @ 6555.0usft
 North Reference: True
 Survey Calculation Method: Minimum Curvature

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	Sec30 T31N-R4W - 63		
Site Position:		Northing:	2,138,796 76 usft
From:	Lat/Long	Easting:	194,877 29 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	36° 52' 24 096 N
		Longitude:	107° 17' 35 376 W
		Grid Convergence:	-0.63 °

Well	Rosa Unit #63 STK		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	Ground Level:
			6,541.0 usft

Wellbore	STK		
Magnetics	Model Name	Sample Date	Declination
	IGRF2010	09/07/11	(°)
			9.68
			Dip Angle
			(°)
			63.66
			Field Strength
			(nT)
			50,850

Design	Design #1		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth:
			2,700.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			193.15

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
2,700.0	1.25	90.00	2,699.6	0.0	40.2	0.00	0.00	0.00	0.00	
3,748.4	90.00	193.15	3,368.1	-651.1	-97.4	8.61	8.47	9.84	103.15	
6,123.2	90.00	193.15	3,368.0	-2,963.6	-637.8	0.00	0.00	0.00	0.00	TD-63

Planning Report

Database: EDM 5000 1 Single User Db
Company: Williams Energy
Project: Rio Arriba Co NM
Site: Sec30 T31N-R4W - 63
Well: Rosa Unit #63 STK
Wellbore: STK
Design: Design #1

Local Co-ordinate Reference: Site Sec30 T31N-R4W - 63
TVD Reference: RIG @ 6555.0usft
MD Reference: RIG @ 6555.0usft
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)
2,700.0	1.25	90.00	2,699.6	0.0	40.2	-9.1	0.00	0.00	0.00
STK @ 2700' MD DLS 8.61° TFO 103.15									
2,750.0	4.20	176.34	2,749.6	-1.8	40.9	-7.5	8.61	5.90	172.68
2,800.0	8.42	184.90	2,799.3	-7.3	40.7	-2.1	8.61	8.43	17.11
2,850.0	12.69	187.74	2,848.4	-16.4	39.6	7.0	8.61	8.55	5.69
2,900.0	16.98	189.16	2,896.7	-29.1	37.7	19.7	8.61	8.58	2.85
2,950.0	21.28	190.03	2,943.9	-45.2	35.0	36.1	8.61	8.59	1.72
3,000.0	25.58	190.61	2,989.8	-64.8	31.4	55.9	8.61	8.60	1.17
3,050.0	29.88	191.03	3,034.1	-87.6	27.0	79.2	8.61	8.60	0.85
3,100.0	34.18	191.36	3,076.4	-113.6	21.9	105.6	8.61	8.61	0.65
3,150.0	38.49	191.62	3,116.7	-142.6	16.0	135.3	8.61	8.61	0.52
3,200.0	42.79	191.84	3,154.6	-174.5	9.4	167.8	8.61	8.61	0.43
3,250.0	47.09	192.02	3,190.0	-209.1	2.1	203.1	8.61	8.61	0.37
3,300.0	51.40	192.18	3,222.7	-246.1	-5.9	241.0	8.61	8.61	0.32
3,350.0	55.70	192.32	3,252.4	-285.4	-14.4	281.2	8.61	8.61	0.28
3,400.0	60.01	192.45	3,279.0	-326.7	-23.5	323.5	8.61	8.61	0.26
3,450.0	64.31	192.57	3,302.3	-369.9	-33.1	367.7	8.61	8.61	0.23
3,500.0	68.62	192.68	3,322.3	-414.6	-43.1	413.5	8.61	8.61	0.22
3,550.0	72.92	192.78	3,338.7	-460.6	-53.5	460.7	8.61	8.61	0.21
3,600.0	77.23	192.88	3,351.6	-507.7	-64.2	509.0	8.61	8.61	0.20
3,650.0	81.53	192.97	3,360.8	-555.6	-75.2	558.1	8.61	8.61	0.19
3,700.0	85.84	193.06	3,366.3	-604.0	-86.4	607.8	8.61	8.61	0.19
3,748.4	90.00	193.15	3,368.1	-651.1	-97.4	656.2	8.61	8.61	0.18
"LAND" 90.00° @ 3748' MD									
3,800.0	90.00	193.15	3,368.1	-701.4	-109.1	707.8	0.00	0.00	0.00
3,900.0	90.00	193.15	3,368.1	-798.7	-131.9	807.8	0.00	0.00	0.00
4,000.0	90.00	193.15	3,368.1	-896.1	-154.6	907.8	0.00	0.00	0.00
4,100.0	90.00	193.15	3,368.1	-993.5	-177.4	1,007.8	0.00	0.00	0.00
4,200.0	90.00	193.15	3,368.1	-1,090.9	-200.1	1,107.8	0.00	0.00	0.00
4,300.0	90.00	193.15	3,368.1	-1,188.2	-222.9	1,207.8	0.00	0.00	0.00
4,400.0	90.00	193.15	3,368.1	-1,285.6	-245.6	1,307.8	0.00	0.00	0.00
4,500.0	90.00	193.15	3,368.0	-1,383.0	-268.4	1,407.8	0.00	0.00	0.00
4,600.0	90.00	193.15	3,368.0	-1,480.4	-291.1	1,507.8	0.00	0.00	0.00
4,700.0	90.00	193.15	3,368.0	-1,577.7	-313.9	1,607.8	0.00	0.00	0.00
4,800.0	90.00	193.15	3,368.0	-1,675.1	-336.7	1,707.8	0.00	0.00	0.00
4,900.0	90.00	193.15	3,368.0	-1,772.5	-359.4	1,807.8	0.00	0.00	0.00
5,000.0	90.00	193.15	3,368.0	-1,869.9	-382.2	1,907.8	0.00	0.00	0.00
5,100.0	90.00	193.15	3,368.0	-1,967.3	-404.9	2,007.8	0.00	0.00	0.00
5,200.0	90.00	193.15	3,368.0	-2,064.6	-427.7	2,107.8	0.00	0.00	0.00
5,300.0	90.00	193.15	3,368.0	-2,162.0	-450.4	2,207.8	0.00	0.00	0.00
5,400.0	90.00	193.15	3,368.0	-2,259.4	-473.2	2,307.8	0.00	0.00	0.00
5,500.0	90.00	193.15	3,368.0	-2,356.8	-495.9	2,407.8	0.00	0.00	0.00
5,600.0	90.00	193.15	3,368.0	-2,454.1	-518.7	2,507.8	0.00	0.00	0.00
5,700.0	90.00	193.15	3,368.0	-2,551.5	-541.5	2,607.8	0.00	0.00	0.00
5,800.0	90.00	193.15	3,368.0	-2,648.9	-564.2	2,707.8	0.00	0.00	0.00
5,900.0	90.00	193.15	3,368.0	-2,746.3	-587.0	2,807.8	0.00	0.00	0.00
6,000.0	90.00	193.15	3,368.0	-2,843.6	-609.7	2,907.8	0.00	0.00	0.00
6,100.0	90.00	193.15	3,368.0	-2,941.0	-632.5	3,007.8	0.00	0.00	0.00
6,123.2	90.00	193.15	3,368.0	-2,963.6	-637.8	3,031.0	0.00	0.00	0.00
"TD" 90.00° @ 6123' MD									

Planning Report

Database: EDM 5000 1 Single User Db
 Company: Williams Energy
 Project: Rio Arriba Co NM
 Site: Sec30 T31N-R4W - 63
 Well: Rosa Unit #63 STK
 Wellbore: STK
 Design: Design #1

Local Co-ordinate Reference: Site Sec30 T31N-R4W - 63
 TVD Reference: RIG @ 6555.0usft
 MD Reference: RIG @ 6555.0usft
 North Reference: True
 Survey Calculation Method: Minimum Curvature

Design Targets

Target Name	hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
TD-63		0 00	0.00	3,368 0	-2,963 6	-637 8	2,135,840 26	194,207 18	36° 51' 54 792 N	107° 17' 43.224 W
	- plan hits target center									
	- Point									
LAND-63		0 00	0 00	3,368 0	-651 1	-97 4	2,138,146 77	194,772.78	36° 52' 17 658 N	107° 17' 36.575 W
	- plan misses target center by 0 1usft at 3748 4usft MD (3368 1 TVD, -651 1 N, -97.4 E)									
	- Point									

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,700 0	2,699 6	0.0	40 2	STK @ 2700'MD DLS 8 61° TFO 103 15
3,748 4	3,368 1	-651 1	-97 4	"LAND" 90 00° @ 3748'MD
6,123 2	3,368 0	-2,963 6	-637 8	"TD" 90 00° @ 6123'MD