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UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

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

6. If Indian, Allottee or Tribe Name

5.	Lease	Serial	No.

NMSF-078773	

APPLICATION FOR P	ERMIT TO	DRILL	OR REENTER
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		<u> </u>	<u>u 25</u>			
la. Type of Work: ☑ DRILL ☐ REENTER	2003 OEF 2		7. If Unit or CA Agree			
	1 a	ECEIVE	Rosa /V////	1M 78407 D		
1b. Type of Well:	Single Zone Multip		8. Lease Name and We	ell No.		
2. Name of Operator		 	9. API Well No.			
Williams Production Company, LLC			30-039	-29673		
3a. Address	3b. Phone No. (include area code)		10. Field and Pool, or I	Exploratory		
P.O. Box 640 Aztec, NM 87410	(505) 634-4208		Basin Fruitland	Coal		
4. Location of Well (Report location clearly and in accordance with any S	State requirements. *)		11. Sec., T., R., M., or	Blk. and Survey or Area		
At surface Lot I: 2410' FSL & 990' FEL						
At proposed prod. zone Lot I: 1650' FSL & 990' FEL		[エ _{Section 35, 31N}	1.5W		
14. Distance in miles and direction from nearest town or post office*			12. County or Parish	13. State		
approximately 15 miles northeast of Navajo City, New Mexic	<u> </u>		Rio Arriba	NM		
15. Distance from proposed*	16. No. of Acres in lease	17. Spacing	g Unit dedicated to this v	vell		
location to nearest property or lease line, ft.						
(Also to nearest drig. unit line, if any)	1,920.00	320.	.0 (E/2)			
18. Distance from proposed location*	19. Proposed Depth	20. BLM/E	BIA Bond No. on file			
to nearest well, drilling, completed, applied for, on this lease, ft.						
1320'	3,708'	UTO	7			
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will st	art*	23. Estimated duration			
6,687' GR	October 31, 2005		1 month			
	24. Attachments					
The following, completed in accordance with the requirements of Onshor	e Oil and Gas Order No.1, shall be atta	ached to this	form:			
1. Well plat certified by a registered surveyor.	4. Bond to cover the	e operations	unless covered by an e	existing bond on file (see		
2. A Drilling Plan.	Item 20 above).	ntinu.				
3. A Surface Use Plan (if the location is on National Forest System I	ands, the 5. Operator certification of Such other site s		rmation and/or plans a	s may be required by the		
SUPO shall be filed with the appropriate Forest Service Office).	authorized office					
25. Signature	Name (Printed/Typed)			Date		
way Miga	Larry Higgins			09/21/2005		
Title						
Drilling COM						
Approved by (Signiture)	Name (Printed/Typed)			Date 4//2/66		
Title ATM	Office FF					
Application approval does not warrant or certify that the applicant holds I operations thereon.	egal or equitable title to those rights ir	the subject	lease which would entitle	e the applicant 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		d willfully to	make to any departmen	at or agency of the United		
States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.						

*(Instructions on reverse)

Williams Production Company, LLC, proposes to drill a well to develop the Basin Fruitland Coal formation at the above described location in accordance with the attached drilling and surface use plans.

The surface is under jurisdiction of the Carson National Forest.

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

A 1417.00 foot pipeline tie would be required for this location. HOLD CIENTOR divertional Sur

This action is subject to technical and

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



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

District I PO 85x 1980, Hobbs, NM 88241-1980 State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

Form C-102 Revised February 21, 1994 Instructions on back

District II PO Drawer DD, Artesia, NM 88211-0719 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

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

PO Box 2088
Santa Fe, NM 87504-2088 27 PM AMENDED REPORT

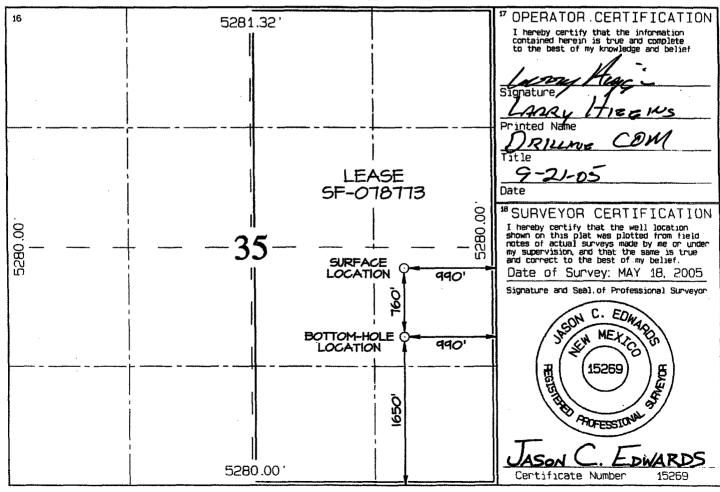
District IV PO Box 2088, Santa Fe, NM 87504-2088

RECEIVED

/	W	ELL LOCATION	AND ACREAGE	DÉDICATIONN PERT NI	1
¹ API Number	1	*Pool Code		*Pool Name	
30-039-	29673	71629		BASIN FRUITLAND CO	DAL
*Property Code			*Property Name		*Well Number
17033 🏑			ROSA UNIT		271A
'OGRID No.			*Operator Name		*Elevation
l 120782 🗸 l		WILLIAMS	PRODUCTION C	COMPANY	6687

		,		:	¹⁰ Surface	Location			
UL or lot no.	Section 35	Township 31N	Range 5W	Lot Idn	Feet from the 2410	North/South line SOUTH	Feet from the	East/West line EAST	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 RIO
I	35	31N	5W		1650	SOUTH	990	EAST	ARRIBA
¹² Dedicated Acres	320	.0 Acre	s - (E	/2)	¹⁹ Joint or Infill	¹⁴ Consolidation Code	¹⁹ Order No.		

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



•	
Submit 3 Copies To Appropriate District State of New Mexic	Form C-103
Office Energy Minerals and Notural	
District I Energy, Winicians and Natural 1625 N. French Dr., Hobbs, NM 88240	WELL APLNO
District II 1301 W. Grand Ave., Artesia, NM 88210 OIL CONSERVATION DI	VISION 20-039-29673
District III 1220 South St. Francis	5. Indicate Type of Lease FEDERAL X STATE FEE
1000 Rio Brazos Rd., Aztec, NM 87410 District IV Santa Fe, NM 8750	
1220 S. St. Francis Dr., Santa Fe, NM	Federal NMSF-0078773
87505 SUNDRY NOTICES AND REPORTS ON WELLS	7. Lease Name or Unit Agreement Name
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG B	BACK TO A
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SI PROPOSALS.)	Rosa Offit
1. Type of Well: Oil Well Gas Well Other	8. Well Number 271A
2. Name of Operator	9. OGRID Number 120782
Williams Production Company, LLC 3. Address of Operator	10. Pool name or Wildcat
P.O. Box 640 Aztec, NM 87410	Basin Fruitland Coal
4. Well Location	
Unit Letter I: 2410 feet from the south line and 990 feet from the	e east line
Section 35 Township 31N Range 5W	NMPM County Rio Arriba
11. Elevation (Show whether DR, RK	(B, RT, GR, etc.)
6,687' GR Pit or Below-grade Tank Application 🛛 or Closure 🗔	
Pit typeDrlg/Completion_Depth to Groundwater_>100'_Distance from nearest fre	sh water well >1 000? Distance from nearest surface water **\$60?
	s; Construction Material
12. Check Appropriate Box to Indicate Natu	re of Notice, Report of Other Data
NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
<u> </u>	EMEDIAL WORK
	OMMENCE DRILLING OPNS. P AND A
PULL OR ALTER CASING MULTIPLE COMPL C	ASING/CEMENT JOB
	THER:
13. Describe proposed or completed operations. (Clearly state all pert	
of starting any proposed work). SEE RULE 1103. For Multiple C	Completions: Attach wellbore diagram of proposed completion
or recompletion.	
Drilling/Completion pit to be located approximately 50-75 feet from well h	
site disturbance and pit will be considered out of service once production to accordance with NMOCD guidelines and Williams procedures.	ibing set. Pit to be constructed, operated and closed in
adolidano with 1113 ob guitolino and withday procedures.	
I hereby certify that the information above is true and complete to the best of	of my knowledge and belief. I further certify that any nit or below-
grade tank has been/will be constructed or closed according to NMOCD guidelines \(\sigma\), a	general permit or an (attached) alternative OCD-approved plan .
SIGNATURE Jany May TITLE Dril	1: COM DATE 0/01/05
SIGNATURE DAIL	ling COMDATE9/21/05_
Type or print name Larry Higgins E-mail address: larry.higgins@w	illiams.com Telephone No. (505) 634-4208
For State Use Only	- · · · · · · · · · · · · · · · · · · ·
1-11 BOUTY	OR & GAS INSPECTOR, DIST. (6) DATE APR 1 4 2006
	On a gas inspector, dist. (ii) DATE APR 1 4 2006

WILLIAMS PRODUCTION COMPANY ROSA UNIT #271A



WILLIAMS PRODUCTION COMPANY

Operations Plan

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

DATE:

9/21/2005

WELLNAME:

Rosa Unit #271A

Rio Arriba, NM

FIELD:

Basin Fruitland Coal

BH LOCATION:

NESE Sec 35-31N-5W

SURFACE:

USFS

SURF. LOCATION:

NESE Sec 35-31N-5W

6,687' GR

MINERALS:

BLM

ELEVATION:
TOTAL DEPTH:

3,708'

LEASE#

SF-078773

L GEOLOGY:

Surface formation - San Jose

A. FORMATION TOPS: (KB)

NAME	TVD	MD	NAME	TVD	MD
San Jose	Surface	Surface	Top Coal	3,426	3,523
Nacimiento	1,546	1,575	Bottom Coal	3,511	3,608
Ojo Alamo	2,821	2,904	Pictured Cliffs	3,511	3,608
Kirtland	3,026	3,117	TD	3,611	3,708
Fruitland	3,321	3,418			

B. **LOGGING PROGRAM:** None

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

II. DRILLING

- A. <u>MUD PROGRAM:</u> Clear water with benex to 7" casing point. Treat for lost circulation as necessary. Expect 100% returns prior to cementing. Notify Engineering of any mud losses. If coal is detected before 3,505' (MD) DO NOT drill deeper until Engineering is contacted.
- B. Drilling Fluid: Coal section will be drilled with Fruitland Coal water. Mud logger will pick TD.
- C. MUD LOGGING PRORAM: Mud logger will be on location at drill out below 7" casing to TD.

- Rosa Unit #271A Operation Plan Page#2
 - D. <u>BOP TESTING</u>: 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.

III. MATERIALS

A. CASING PROGRAM:

CASING TYPE	HOLE SIZE	DEPTH (MD)	CASING SIZE	WT. & GRADE
Surface	12-1/4"	+/- 300'	9-5/8"	36# K-55
Intermediate	8-3/4"	+/- 3,505	7"	20# K-55
Prod. Liner	6-1/4"	+/- 3,405'-3,608'	5-1/2"	15.5# K-55

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. 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. (NTL-FRA 90-1).
- 3. PRODUCTION LINER / CASING: 4-1/2" & 5-1/2" whirler type cement nose guide shoe with a latch collar on top of 20' bottom joint. Place centralizers as needed across selected production intervals.

C. <u>CEMENTING:</u>

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

- 1. <u>SURFACE</u>: Use <u>190 sx</u> (264 cu.ft.) of "Type III" with 2% CaCl₂ and 1/4# of cello-flake/sk (Yield = 1.41 cu.ft./sk, Weight = 14.5 #/gal.). Use 100% excess to circulate the surface. WOC 12 hours. Total volume = 264 cu.ft. Test to 1500#.
- 2. INTERMEDIATE: Lead 480 sx (1004 cu.ft.) of "Type III" 65/35 poz with 8% gel, 1% CaCl₂ and 1/4# cello-flake/sk (Yield = 2.09 cu.ft./sk, Weight = 12.1 #/gal.). Tail 50 sx (70 cu.ft.) of "Type III" with 1/4# cello-flake/sk, and 1% CaCl₂ (Yield = 1.4 cu.ft./sk, Weight = 14.5#/gal.). Use 120% excess in Lead Slurry to circulate to surface. No excess in Tail Slurry. Total volume = 1,074 cu.ft. Bump Plug to 1,500 psi. Notify engineering if cement is not circulated to surface.
- 3. PRODUCTION LINER: Open hole completion. No cement.

Rosa Unit #271A Operation Plan Page #3

IV COMPLETION

A. PRESSURE TEST

Pressure test 7" casing to 3300# for 15 minutes.

B. STIMULATION

<u>Cavitate Well</u> with reciprocation and rotation. Surge wells with water and air and then flow back to pit. Cavitate for 2 to 3 weeks. Maximum pressure not expected to exceed 2,000 psi.

C. RUNNING TUBING

1. <u>Fruitland Coal:</u> Run 2-7/8", 4.7#, J-55, EUE tubing with a SN (1.375" ID) on top of bottom joint. Land tubing approximately 50' above TD.

Sr. Drilling Engineer

..... roduction Company, LLC

Well Control Equipment Schematic for 2M Service

Attachment to Drilling Technical Program

Typical BOP setup

