FORM APPROVED OMB No. 1004-0136

DEFARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL OR REENTER In Type of Work: Order REENTER Single Zone Multiple Zone Single Zone Multiple Zone Single Zone	UNITED STATES	2			Expires Janu	ary 31, 20	04
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10. Type of Well: Oil Well Gas Well Other Single Zone Multiple Zone SesA	le Tyme of World DDH I	To.			7. If Unit or CA Agree	ment, Nar	ne and No.
10. Type of Well: Gas Well Gas Gas Well Gas	ia. Type of Work: \(\textstyle Dkill \)	K			Rosa Unit		
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Milliams Exploration and Parchection Company, 11.0. 3a. Address P.O. Box 316 Ignacio. CO 81137 4. Location of Well (Report location clearly and in accordance with any State requirements) 4. Location of Well (Report location clearly and in accordance with any State requirements) 1705 FNL & 585 FWL At proposed prod. zone same 18. Distance in miles and direction from nearest town or post office* approximately 30 miles northeast of Blanco. New Mexico 19. Distance from proposed* location to pareatine, fit proposed poeting in the state of the	L. Type of West.			ple Zone	263A		
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*(Instructions on reverse)	Title Application approval does not warrant or certify that the applicant holds operations thereon.	Offic	PPO	n the subject l	ease which would entitle	the applic	ant to conduct
(,	Title Application approval does not warrant or certify that the applicant holds 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 i	Office s legal or equita	ble title to those rights in				

0.10

The surface is under jurisdiction of the Bureau of Land Management, Farmington Field Office.

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

This APD is also serving as an application to obtain a pipeline right-of-way. A 2222.30-foot pipeline tie would be required for this tocation. A 1650-foot road would also be required. DBAI HOTON

DRILLING OPERATIONS AUTHORIZED ARE

SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

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

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MMOCD

District 1 PO Box 1980, Hobbs, NM 88241-1980

District II PO Drawer DD, Artesia, NM 88211-0719

District III 1000 Rio Brazos Rd. Aztec, NM 87410

District IV PO Box 2086, Santa Re, NM 87504-2088 State of New Mexico Energy, Manerals & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe. NM 87504-2088 Form C-102 Revised February 21, 1994 Instructions on back

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

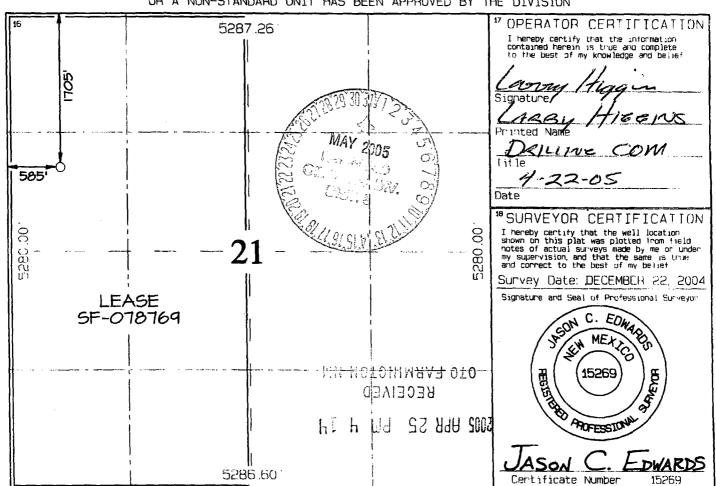
___ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-039-29	¹ APT Number ¹ Pool Code 71529		Pool Name BASIN FRUITLAND COAL			
17033		*Property Name ROSA UNIT		*Well Number 263A		
'0GRID No 120782			erator Name RODUCTION COMPANY	*E levat run 6414		

¹⁰ Surface Location Sect 100 Plange Feet from the UL or lot no Lot Idn North/South line Feet from the East/West line County RIO E 21 31N 5W 1705 NORTH 585 WEST ARRIBA ¹¹Bottom Hole Location If Different From Surface UL at lot no Sect sor Township Lot Idn Feet from the North/South line East/West line County 12 Dedicated Acres ¹³Joint or Infill 14 Consolidation Code # Order No 320.0 Acres -(M/5)

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 Office District I State of New Mexico Energy, Minerals and Natural Resources	Form C-103 May 27, 2004		
1625 N. French Dr., Hobbs, NM 88240	WELL API NO.		
1301 W. Grand Ave., Artesia, NM 88210 OIL CONSERVATION DIVISION District III 1220 South St. Francis Dr.	5. Indicate Type of Lease FEDERAL X STATE FEE		
1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM	6. State Oil & Gas Lease No. Federal NMSF-0078769		
SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A	7. Lease Name or Unit Agreement Name		
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	Rosa Unit 8. Well Number 263A		
1. Type of Well: Oil Well ☐ Gas Well ☒ Other 2. Name of Operator	9. OGRID Number 120782		
Williams Exploration and Production Company 3. Address of Operator	10. Pool name or Wildcat		
P.O. Box 316, Ignacio, CO 81137	Basin Fruitland Coal		
4. Well Location			
Unit Letter E: 1705 feet from the south line and 585 feet from the west line			
Section 21 Township 31N Range 5W NMPM	County Rio Arriba		
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 6,414' GR			
Pit or Below-grade Tank Application or Closure	The state of the s		
Pit typereserveDepth to Groundwater>100'_Distance from nearest fresh water well_>1,000'_Dista	nce from nearest surface water_>1,000'		
Pit Liner Thickness: 12 mil Below-Grade Tank: Volumebbls; Construction M			
12. Check Appropriate Box to Indicate Nature of Notice,	Report or Other Data		
	SEQUENT REPORT OF:		
PERFORM REMEDIAL WORK PLUG AND ABANDON REMEDIAL WORF TEMPORARILY ABANDON CHANGE PLANS COMMENCE DRII			
PULL OR ALTER CASING MULTIPLE COMPL CASING/CEMENT	-		
OTHER: OTHER:			
13. Describe proposed or completed operations. (Clearly state all pertinent details, and			
of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attorior recompletion.	tach wellbore diagram of proposed completion		
or recompletion.			
Reserve pit to be constructed in accordance with NMOCD Interim Pit and Below-grade Tar	nk Guidelines		
Reserve pit to be located approximately 30 feet southwest of the well head, in the southwest	t corner of the well pad		
\cdot			
I hereby certify that the information above is true and complete to the best of my knowledge grade tank has been/will be constructed or closed according to NMOCD guidelines ⊠, a general permit □			
SIGNATURE Correspondent Signature Com	_DATE4-22-2005_		
Type or print name Larry Higgins E-mail address: larry.higgins@williams.com For State Use Only	Telephone No. (970) 563-3308		
APPROVED BY: TITLE GAS INSP	ECTOR, DIST. & MAY 3 1 2005		
Conditions of Approval (if any):	DAIL		

1705' FNL & 585' FWL, SECTION 21, T31N, R5W, NMPM RIO ARRIBA COUNTY, NEW MEXICO ELEVATION: 6414' C4 (5) 6 69 RESERVE PIT 70' X 140' DRAIN TO RESERVE Ö 1128°M LAYDOWN $\langle \hat{\mathbb{J}} \rangle$ ্ড (४) 1251 F5 125 125' WORKING SIDE 25 C2 (3) (2) FIO ₿, A-A' 6424 644' 6404 B-B' 6424' 6414 6404 · (... 6424 6414' __≥ 64041 FILENAME SISSIET NCE SURVEYS, INC. DRAWN BY, EDO CHECKED BY ICE SHEET 2 OF 3

WILLIAMS PRODUCTION COMPANY ROSA UNIT #263A

Plat #1 Location Layout



WILLIAMS PRODUCTION COMPANY

Operations Plan

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

DATE:

4/22/2005

WELLNAME:

Rosa Unit #263A

FIELD:

Basin Fruitland Coal

LOCATION:

SWNW Sec. 21-T31N-5W

SURFACE:

BLM

Rio Arriba, NM

MINERALS:

BLM

ELEVATION:
TOTAL DEPTH:

6,414' GR

3,376

LEASE #

SF-078769

I. GEOLOGY:

Surface formation - San Jose

A. FORMATION TOPS: (KB)

NAME	DEPTH	NAME D		
San Jose	Surface	Top Coal	3,161	
Nacimiento	1,406	Bottom Coal	3,276	
Ojo Alamo	2,581	Pictured Cliffs	3,281	
Kirtland	2,691	TD	3,376	
Fruitland	3,066			

- B. <u>LOGGING PROGRAM:</u> GR and Density/ Neutron log from intermediate shoe to TD. Density/ Neutron log from surface casing to TD. Onsite geologist will pick Density/ Neutron log intervals on both logging runs.
- 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 3,141' DO NOT drill deeper until Engineering is contacted.
- B. Drilling Fluid: Coal section will be drilled with Fruitland Coal water.
- C. MUD LOGGING PRORAM: Mud logger will be on location at drill out below 7" casing to TD.

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 rams will be tested to 1500 psi. The surface and intermediate casing strings will be pressure tested to 1500 psi in conjunction with the BOP test before drilling out cement. The drum brakes will be inspected and tested each tour. All tests, inspections and SPR's will be recorded in the tour book as to time and results.

III. MATERIALS

A. CASING PROGRAM:

CASING TYPE	HOLE SIZE	DEPTH	CASING SIZE	WT. & GRADE
Surface	12-1/4"	+/- 300'	9-5/8"	36# K-55
Intermediate	8-3/4"	+/- 3,141'	7"	20# K-55
Prod. Liner	6-1/4"	+/- 3,041'- 3,276'	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. <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) 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)

- SURFACE: Use 190 sx (264 cu.ft.) of "Type III" with 2% CaCl₂ and 1/4# of celloflake/sk (Yield = 1.41 cu.ft./sk, Weight = 14.5 #/gal.). Use 150% excess to circulate the surface. WOC 12 hours. Total volume = 206 cu.ft. Test to 1500#.
- INTERMEDIATE: Lead 425 sx (885 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 = 955 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.

GENERAL ROSA DRILLING PLAN

Rosa Unit boundries:

T31N, R4W: all except sections 32-36 T31N, R5W: all except sections 1 & 2

T31N, R6W: all except sections 6,7,18,20, & 27-36

T32N, R6W: sections 32-36

FORMATION	LITHOLOGY	WATER	GAS	OILICOND	OVER-PRES	LOST CIRC
	Interbedded shales, siltstones and	Possible	Possible	No	No	No
Ojo Alamo	sandstones Sandstone and conglomerates	Fresh	No	No	No	No
•	with lenses of shale					
Kirtland	Shale W/interbedded sandstones	No	Possible	No	No	No
Fruitiand	Inter, SS, SiltSt, SH &Coals w/carb,	Yes	Yes	No	Possible	Possible
Pictured	SS, SiltSt, SH Massive Sandstone w/thin	Possible	Yes	Possible	No	Possible
Lewis	interbedded shales Shale w/thin interbedded sandstones and siltstones	No	Possible	No	No	No
Cliff House	Transgressive sandstones	Possible	Yes	No	No	No
	Sandstones, carb shales and coal	Possible	Yes	No	No	No
	Regressive coastal barrier	Possible	Yes	Possible	No	Yes
Lookout	sandstone				N/-	Deseible
Mancos	Marine shale and interbedded sandstone	No	Possible	Possible	No	Possible
Upr Dadota	Marine sand and shales	No	Yes	Possible	No	Possible
	Fluvial sands, shales, & coal	Possible	Yes	Possible	No	Possible

DRILLING

Potential Hazards:

- 1. There are no overpressured zones expected in this well.
- 2. No H2S zones will be penetrated while drilling this well.

Mud System:

- Surface The surface hole will be drilled with a low-solids, non-dispersed system with starch and lost circulation material as needed. Expected mud weights will be in the 8.4 to 9.0 lb per gal range. Viscosities will be in the 30 to 60 sec/qrt range as needed to remove drill cuttings.
- 2. Intermediate The intermediate hole will be drilled with clear water and Benex to TD where the well will be mudded up to log and run casing. The mud system will be low-solids, non-dispersed with mud weights in the 9 to 10 lb per gal range as needed to control the well. Viscosities will be in the 45 to 55 range as needed to support any weight material. The weight material will consist of Barite.
- 3. Production The well will be drilled using air from the intermediate casing point to TD. For Fruitland Coal wells, the coal section will be drilled with air/mist.

Trimums rroduction Company, LLC

Well Control Equipment Schematic for 2M Service

Attachment to Drilling Technical Program

Typical BOP setup

