UNITED STATES DEPARTMENT OF THE INTERIOR

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

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J.	LCase	PCLIST	INO.

A13	100	070764

BUREAU OF LAND MANAGEMENT					NMSF-078764		
APPLICATION FOR PERMIT TO DE	RILL OR R	EENTER		6. If Indian, Allottee of	r Tribe Name		
la, Type of Work: DRILL REENTE	R 2005 F	EB 14 NA	8 48	7. If Unit or CA Agree	ment, Name and No.		
III. Type of World			L	Rosa			
1h Type of Well Oil Well Gas Well Other	⊠ e:	RECEIVED ingle Zone , , , Multin		8. Lease Name and We	ll No.		
16. Type of well. — — — —	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	USIC XOUS IN IN WHITH	ole Zone	203A			
Name of Operator Williams Exploration and Production Company, I.I.C.				9. API Well No. 30-039	7-29456		
3a. Address	3b. Phone No	. (include area code)	303117	10. Field and Pool, or E	xploratory		
P.O. Box 316 Ignacio, CO 81137	(970)	563-3308 & 1) (0) E	\ \ \	Basin Fruitland (Coal		
4. Location of Well (Report location clearly and in accordance with any	State requirem	ents. *)	280	11. Sec., T., R., M., or l	Blk. and Survey or Area		
At surface 1105' FSL & 670' FWL		B Sa	1 200m	. See .			
At proposed prod. zone same		E OF	505	Non			
At proposed productions		10 -	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Section 18, 31N 12. County or Parish	13. State		
14. Distance in miles and direction from nearest town or post office*			1 0 0	. 4			
approximately 24 miles northeast of Blanco, New Mexico	7,,,,,	1.52	112 6	Rio Arriba	NM.		
15. Distance from proposed* location to nearest	16. No. of A	Acres in lease	17. Spacing	Unit dedicated to this w	еп		
location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any)	l	24 01	1 23	1.83			
(Also to nearest drig, unit line, if any) 18. Distance from proposed location*		7.300	3 259.	84 (S/2) IA`Bond No. on file			
to nearest well, drilling, completed.	19. Propose	ed Depth	20. BLW/B	IA Bond No. on file			
applied for, on this lease, ft.	3.00	2,	UTOS	147			
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approx	simate date work will s		23. Estimated duration			
6,336' GR		1. 2005	•	1 month			
Upod GI1		chments		1 moner			
The following, completed in accordance with the requirements of Onsho	ore Oil and Gas	Order No.1, shall be att	ached to this	torm:			
1. Well plat certified by a registered surveyor.		4. Bond to cover th	e operations	unless covered by an e	xisting bond on file (se		
2. A Drilling Plan.		Item 20 above).		•			
3. A Surface Use Plan (if the location is on National Forest System	•	5. Operator certific		rmation and/or plans as	may be required by t		
SUPO shall be filed with the appropriate Forest Service Office)	•	authorized office		immuon antivot pians as	may be required by the		
25. Signature	Name	e (Printed/Typed)	·		Date		
corry Stracin		Larry Higgins			2/09/05		
Title							
Drilling COM							
	Name	e (Printed/Typed)			Date 3-29-0		
Drilling COM	Name				Date 3-29-0		
Approved by (Signature)	Offic	*FFO	n the subject	lease which would entitle	Date 3 29-0		
Drilling COM Approved by (Signature) Title Application approval does not warrant or certify that the applicant holds operations thereon.	Office s legal or equita	able title to those rights in					

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 location is proposed to be twinned with the proposed Rosa 182 well.

This APD is also serving as an application to obtain a pipeline right-of-way. A 163.00-foot pipeline tie would be required for this location.

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

NMOCD

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

District I 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 2088, Santa Fe, NM 87504-2088

231.83 Acres -

12 Dedicated Acres

State of New Mexico Energy, Minerals & Natural Resources Department

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

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

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe. NM 87504-2088

2005 FEB 14 _AM 8 46 AMENDED REPORT

RECEIVED

Pool Name

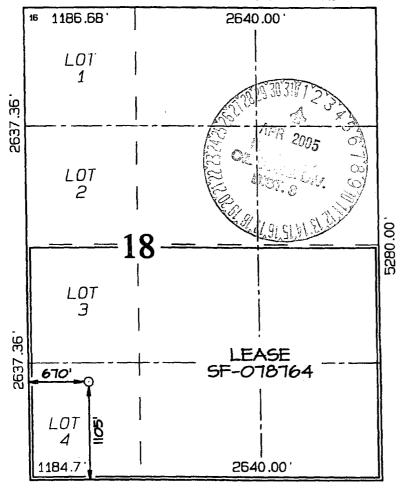
WELL LOCATION AND ACREAGE DEDICATION PLAT

30-039-7	9456	4-7							
*Property Code 17033		Property Name ROSA UNIT						11 Number 203A	
OGRID No. 120782		*Operator Name WILLIAMS PRODUCTION COMPANY						•E:	levation
<u> </u>	¹⁰ Surface Location								
UL or lot no. Section N 18									
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/Nes	t line	County

*Pool Code

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

39 Joint or Infill



(5/2)

" OPERATOR CERTIFICATION
I hereby cartify that the information contained herein is true and complete
to the best of my knowledge and belief
/ // `-
Signature 1719gm
Signature /
Printed Name
0 - 44
Title Com
2-11-05
Date
]
*SURVEYOR CERTIFICATION
I hereby certify that the well location shown on this plat was plotted from field
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
Signature and Seal of Professional Surveyor
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SEON C. EDWARDS
STEW MEXICO
(# (15269) / 5
Salar
AND AND THE STATE OF THE STATE
TUFESSU!
1 /25 16 5-41-56
UASON C. EDWARDS
Certificate Number 15269

Submit 3 Copies To Appropriate District State of New Mexico	Form C-103				
Office District I Energy, Minerals and Natural Resources	May 27, 2004				
1625 N. French Dr., Hobbs, NM 88240	WELL API NO.				
District II 1301 W. Grand Ave. Artecia, NM 88210 OIL CONSERVATION DIVISION					
1301 W. Grand Ave., Artesia, NM 88210 District III 1220 South St. Francis Dr.	5. Indicate Type of Lease FEDERAL X				
1000 Die Penroe Dd. Artee NM 97410	STATE FEE				
District IV Santa Fe, NM 87505	6. State Oil & Gas Lease No.				
1220 S. St. Francis Dr., Santa Fe, NM 87505	Federal NMSF-0078764				
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 BACK TO A					
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	Rosa Unit				
1. Type of Well: Oil Well Gas Well Other	8. Well Number 203A				
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	Blanco Mesaverde/Basin Dakota				
4. Well Location					
Unit Letter N: 1105 feet from the south line and 670 feet from the east line					
Section 18 Township 31N Range 5W NMPM	County Rio Arriba				
11. Elevation (Show whether DR, RKB, RT, GR, et					
6,336' GR					
Pit or Below-grade Tank Application or Closure	Friend Control and Control and Advanced Services				
Pit typereserve_Depth to Groundwater_>100'_Distance from nearest fresh water well_>1,000'_D	stance from nearest surface water >1,000'				
Pit Liner Thickness: 12 mil Below-Grade Tank: Volume bbls; Constructio					
12. Check Appropriate Box to Indicate Nature of Notice	e, Report or Other Data				
NOTICE OF INTENTION TO:	BSEQUENT REPORT OF:				
PERFORM REMEDIAL WORK PLUG AND ABANDON REMEDIAL WO					
TEMPORARILY ABANDON CHANGE PLANS COMMENCE DRILLING OPNS. P AND A					
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐ CASING/CEME					
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WILLIAMS PRODUCTION COMPANY

Operations Plan

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

DATE:

2/9/2005

WELLNAME:

Rosa Unit #203A

Rio Arriba, NM

FIELD:

Basin Fruitland Coal

LOCATION:

SESW Sec. 18-T31N-5W

SURFACE:

Federal

ELEVATION:

6,336' GR

MINERALS:

Federal

TOTAL DEPTH:

3,293'

LEASE #

SF-078764

I. GEOLOGY:

Surface formation - San Jose

A. FORMATION TOPS: (KB)

NAME	DEPTH	NAME	DEPTH	
San Jose	Surface	Top Coal	3,058	
Nancimiento	1,138	Bottom Coal	3,193	
Ojo Alamo	2,428	Pictured Cliffs	3,198	
Kirtland	2,548	TD	3,293	
Fruitland	2,953			

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 3,038' DO NOT drill deeper until Engineering is contacted.
- B. <u>Drilling Fluid</u>: 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	<u>DEPTH</u>	CASING SIZE	WT. & GRADE
Surface	12-1/4"	+/- 300'	9-5/8"	36# K-55
Intermediate	8-3/4"	+/- 3,038'	7"	20# K-55
Prod. Liner	6-1/4"	+/- 2,938'- 3,193'	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 marker joint above 5,400'. Place centralizers as needed across selected production intervals.

C. <u>CEMENTING:</u>

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

- 1. SURFACE: Use 190 sx (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 150% excess to circulate the surface. WOC 12 hours. Total volume = 206 cu.ft. Test to 1500#.
- 2. INTERMEDIATE: Lead 410 sx (853 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 (70cu.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 = 923 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 #203A 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 2-3/8", 4.7#, J-55, EUE tubing with a SN (1.375" ID) on top of bottom joint. Land tubing approximately 50' above TD.

Gary Sizemore
Sr. Drilling Engineer

file:Rosa203A

remains recouction Company, LLC

Well Control Equipment Schematic for 2M Service

Attachment to Drilling Technical Program

Typical BOP setup

