FORM 3160-3 (December 1990)

UNITED STATES DEPARTMENT OF THE INTERIOR

SUBMIT IN TRIPLICATE*
(Other instructions on reverse state)

Form approved. Budget Bureau No. 1004-0136

Expires December 31,	199

BUREA	AU OF LAND MAN	AGEMENT of	na 111 PM 2	SF- 078765
APPLICATION FOR	R PERMIT TO DR	ILL. DEEPEN. (OR PLUG BACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
			70 Famington.	7. UNIT AGREEMENT NAME
'	X DEEPEN	_ ·		
1b. TYPE OF WELL		:		Rosa Unit 8. FARM OR LEASE NAME, WELL NO.
OIL GAS	m r	SINGLE	MULTIPLE	7
WELL WELL	X OTHER	$zone^X$. ZONE	<u> </u>
NAME OF OPERATOR				9. API WELL NO.
	oduction Company,	LLC	17 17 10 m	3004531773
3. ADDRESS OF OPERATOR	1	101	VICTOR 15 15 15 15 15 15 15 15 15 15 15 15 15	10. FIELD AND POOL OR WILDCAT
P. O. Box	361, Ignacio, CO 81.	137 (505) 5 6 3-3308		Basin Fruitland Coal
LOCATION OF WELL (Report loca				11. SEC., T., R., M., OR BLK.
At Surface 1005' FSL ar		· (O)		AND SURVEY OR AREA
At proposed Prod. Zone		[m 0]		Ø Sec. 5,T31N, R6W
		Pet "		
4. DISTANCE IN MILES AND DIRECTIO	N FROM NEAREST TOWN OR I	OST OFFICE*	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	12. COUNTY OR PARISH 13. STATE
26 miles NE	of Blanco, NM	\CZ\	200	San Juan NM
5. DISTANCE FROM PROPOSED* LOCA		16. NO. OF ACRES INCLEA	8 62 82 13 July	7. NO. OF ACRES ASSIGNED TO THIS WELL
OR LEASE LINE, FT.(Also to nearest dr $680'$	ig. unit line, if any)	241	60.23	350.16 A//
18. DISTANCE FROM PROPOSED LOCAT	TION* TO NEAREST WELL	19. PROPOSED DEPTH		0. ROTARY OR CABLE TOOLS
DRILLING, COMPLETED, OR APPLIE			ĺ	_
1000'		319	99'	Rotary
21. ELEVATIONS (Show whether DF, RT, G	iR, etc.)			22. APPROX. DATE WORK WILL START*
6329' GR				September 1, 2003
23.		NG AND CEMENTING		
SIZE OF HOLE 12-1/4"	SIZE OF CASING 9-5/8"	<u>weight/foot</u> 36.0#	+/- 300'	QUANTITY OF CEMENT 220 cu.ft. Type III with 2% CaCl 2
8-3/4"	7"	20.0#	+/- 2999 '	832 cu.ft.65/35 poz & 70 cu.ft.Type III
6-1/4"	5-1/2"	15.5#	+/- 2899' -3099"	Open hole completion - no cement
described location in acc This location has been ar submitted directly to you This APD also is serving new access road (see Pip crosses the NE & NW of sec 2.	ordance with the all chaeologically sur roffice. as an application to be line & Well Plats section 8, NE of section, R7W, when	ttached drilling and eyeyed by Independence of obtain BLM road #3 & #4). The ware 1, SE of sec 6, Street it joins CR 402	nd surface use plans dent Contract Archo ad and pipeline righ ell will be accessed W sec 5, T31N, R6W 0.	neology. Copies of their report have be t-of-ways. This well will require 1850 by utlizing an existing road that Y, SE of sec 32, E/2 of sec 31, all of sec
If proposal is to drill or deepen direction 24.	ally, give pertinent data on sub	at is to deepen or plug back surface locations and measu	, give data on present productive and true vertical depths. G	re zone and proposed new productive zone. ive blowout preventer program, if any.
SIGNED CLOSERY /	tingin	TITLE Lar	ry Higgins, Drlg COM	DATE <u>711/2003</u>
(This space for Federal or State office use)				
PERMIT NO		APPROVAL DATE		
Application approval does not warrant or c CONDITIONS OF APPROVAL, IF ANY		or equitable title to those rights	in the subject lease which would en	title the applicant to conduct operations thereon.
	avid J. Mankiew	icz		AUG 1 ₡ 2003
W.LVOAED D.I.		e Instructions Or	- Payeres Cids	DATE

Title 18 U.S.C. Section 1001, makes 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.

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED

"GENERAL REQUIREMENTS".

This action is subject to technical and procedural review oursuent to 43 CER page 4.

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

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised February 21, 1994 Instructions on back Submit to Appropriate District Office

OIL CONSERVATION DIVISION PO Box 2088

State Lease - 4 Copies Fee Lease - 3 Copies

Santa Fe, NM 87504-2088

AMENDED REPORT

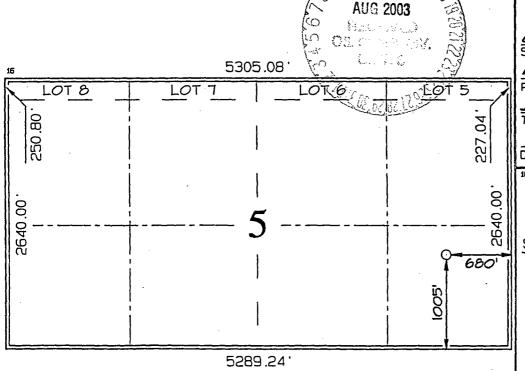
070 Farmington, NM

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-045-31773				*Pool Cod 71629	·					
*Property Code				Property		- <u></u>			11 Number	
17033				ROSA UNIT			236A			
'OGRID No.				*Operator Name			*Elevation			
12078	20782 WILLIA				MS PRODUCTION COMPANY			6329		
¹⁰ Surface Location										
UL or lat no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	st line	County
Р	5	31N	6%		1005	SOUTH	680	EA	ST	SAN JUAN
¹¹ Bottom Hole Location If Different From Surface										
UL or lot no.	Sect 100	Township	Range	Lot Ion	Feet from the	North/South line	Feet from the	East/We	st line	County
					ł					
12 Deducated Acres				13 Joint or Infill	³⁴ Consolidation Code	¹⁵ Order No.				
350.16 Acres – Entire Section										

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

17 OPERATOR CERTIFICATION



" OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief

Signature

Printed Name

DRILLING

Title

Date

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.

Survey Date: FEBRUARY 19, 2003

Signature and Seal of Professional Surveyor



DWARDS Certificate Number 15269

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 2999' DO NOT drill deeper until Engineering is contacted.
- B. <u>Drilling Fluid:</u> Coal section will be drilled with Fruitland Coal water. Mud logger will pick TD at +/- 3199'
- 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"	+/- 2999'	7"	20# K-55
Prod. Liner	6-1/4"	+/- 2899-3099'	5-1/2"	15.5# K-55

B. FLOAT EQUIPMENT:

- 1. <u>SURFACE CASING:</u> 9-5/8 in. notched regular pattern guide shoe. Run (1) standard centralizer on each of the bottom (3) joints of Surface Casing.
- 2. <u>INTERMEDIATE CASING:</u> 7 in. cement nose guide shoe with a self-fill insert float. Place insert float collar one joint above the shoe. Install one Turbulent centralizer on each of the bottom (3) joints and one standard centralizer every (4) joints to the surface casing.
- 3. PRODUCTION LINER: 5-1/2"liner with notched collar on bottom.

C. CEMENTING:

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

- 1. <u>SURFACE</u>: Use <u>170 sx</u> (220 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 = 220 cu.ft. Test to 1500#.
- 2. INTERMEDIATE: Lead 400 sx (832 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 100% excess in Lead Slurry to circulate to surface. No excess in Tail Slurry. Total volume = 902 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.

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:236ARosaOP

Williams Production Company, LLC Well Control Equipment Schematic for 2M Service

Attachment to Drilling Technical Program

Typical BOP setup

