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	new access roccrosses the NI drilled on the IN ABOVE SPACE D If proposal is to drill of 24. SIGNED (This space for Federa PERMIT NO. Application approval CONDITIONS OF AI	ad (see Pipe E/SE, NW/SI same pad as DESCRIBE PROPOS r deepen directionall dor State office use)	eline & Well Plats # E of section 25, 31N the Rosa Unit #16 SED PROGRAM: If proposal if y, give pertinent data on subsur	43 & #4). The well I, R6W, where it joi to 0 as to deepen or plug back, give of face locations and measured and TITLE Joint APPROVAL DATE equitable title to those rights in the	will be accessed by consthe main "Rosa Ralata on present productive zone and true vertical depths. Give blows	an existing road that oad". Note: This well will be deproposed new productive zone. Dut preventer program, if any. 1/8/200. Applicant to conduct operations thereon.	3

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.

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

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

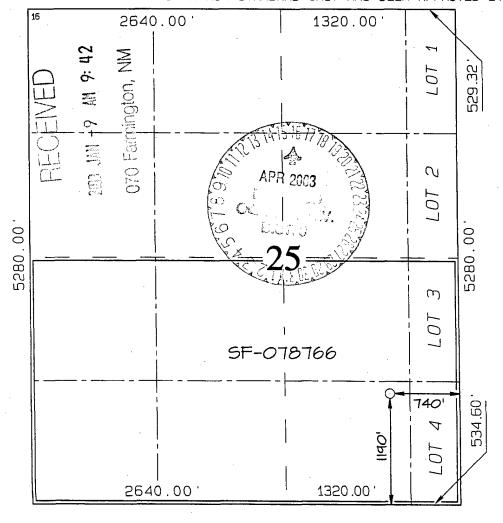
WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number	²Pool Code	³ Pool Name		
30-039-21	289 71629	Basin Fruitland Coal		
Property Code		Property Name OSA UNIT	Well Number 218A	
'0GRID No. 120782		Operator Name PRODUCTION COMPANY	*Elevation 6447	
	10 0	face Location		

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
. 0	25	31N	6W		1190	SOUTH	740	EAST	RIO ARRIBA
		11 E	Bottom	Hole L	ocation I	f Different	From Surf	ace	
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
12 Dedicated Acres		2.32 Acı	res - S	5/2	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.	<u> </u>	

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
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief
- C. Cu
Signature John C. Thompson
Printed Name
Agent
Title
11/18/02
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: OCTOBER 22, 2002
Signature and Seal of Professional Surveyor
TARRESTANDS BOUND APPESSION APPERSION APPERSIO
Certificate Number 15269



WILLIAMS PRODUCTION COMPANY

Operations Plan

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

DATE:

1/8/2003

WELLNAME:

Rosa #218A

Rio Arriba, NM

FIELD:

Basin Fruitland Coal

LOCATION:

SW/4 SE/4 Sec. 25, T31N, R6W

SURFACE:

Federal

ELEVATION:

6447' GR

MINERALS:

Federal

TOTAL DEPTH:

3287'

LEASE#

SF-078766

I. GEOLOGY:

Surface formation - San Jose

A. FORMATION TOPS: (KB)

Ojo Alamo	2542'
Kirtland	2662'
Fruitland	3027
Top of Coal	3137
Base of Coal	3287
Pictured Cliffs	3287
Total Depth	3287'

- **B. <u>LOGGING PROGRAM</u>**: No mechanical logs. Mud logger will be present to determine intermediate casing point and TD.
- 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 3137' 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 +/- 3551.
 3287

C. <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"	+/- 3117'	7"	20# K-55
Prod. Liner	6-1/4"	+/- 3017-3287'	5-1/2"	15.5# K-55

B. FLOAT EQUIPMENT:

- 1. SURFACE CASING: 9-5/8" notched regular pattern guide shoe.
- 2. <u>INTERMEDIATE CASING</u>: 7" cement nose guide shoe with a self-fill insert float. Place float one(1) joint above the shoe and five(5) centralizers, spaced every other joint, starting with the float collar. Place turbulent centralizers, at 120' intervals, starting at 1585' to the surface. Total centralizers = 5 regular and 14 turbulent.
- 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. SURFACE: Use 160 sx (211 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 125% excess to circulate the surface. WOC 12 hours. Test to 1500#.
- INTERMEDIATE: Lead 350 sx (728 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 150 sx (209cu.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 and tail to circulate to surface. Total volume = 937 cu.ft. WOC 12 hours. Run a temperature survey after 8 hours if cement is not circulated. Test to 1500#.
- 3. PRODUCTION LINER: Open hole completion. No cement.

Rosa #218A Operation Plan Page #3

IV COMPLETION

A. PRESSURE TEST

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

B. STIMULATION

Cavitate Well 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. Fruitland Coal: 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.

John C. Thompson Engineer

file:218ARosaOP

Williams Production Company, LLC

Well Control Equipment Schematic for 2M Service

Attachment to Drilling Technical Program

Typical BOP setup

