FORM 3160-3 (December 1990)

## **UNITED STATES**

SUBMIT IN TRIPLICATE*  (Other instructions on
reverse side)

Form approved. Budget Bureau No. 1004-0136

Expires December 31, 1991

	RTMENT OF THE		2003 APR 25 PM	3: LEASE DESIGNATION AND SERIAL NO. SF- 078766	
APPLICATION F	OR PERMIT TO D	RILL, DEEPEN, (	OR PLUG BACKOO	6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
a. TYPE OF WORK DRIL			Utu tarranger	7. UNIT AGREEMENT NAME	
. TYPE OF WELL				Rosa Unit	
—				8. FARM OR LEASE NAME, WELL NO.	
WEIT ME	AS X OTHER	SINGLE ZONE	MULTIPLE ZONE		
2. NAME OF OPERATOR				9. API WELL NO.	
Williams P  3. ADDRESS OF OPERATOR	roduction Company,	LLC		3003927421	
	7.415 F. 3.4 ata Ca. E		VEDE 227 1992	10. FIELD AND POOL OR WILDCAT	
c/o Walsh Engineering			(5,05), 32,7548,92	Basin Fruitland Coal	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)  At Surface 2315' FSL and 860' FEL				11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA	
At proposed Prod. Zone	and 000 PEL		10.2003	Sec. 25,T31N, R6W	
DISTANCE IN MILES AND DIRECTION 25 miles N	ON FROM NEAREST TOWN OR PO E of Blanco, NM	11/1/		12. COUNTY OR PARISH Rio Arriba NM	
<ol> <li>DISTANCE FROM PROPOSED* LOC OR LEASE LINE, FT. (Also to nearest d 320'</li> </ol>		16. NO. OF ACRES IN LEA	552.71	320 272.32 5/2	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR ON THIS LEASE, FT. $1100'$		19. PROPOSED DEPTH	330'	ROTARY OR CABLE TOOLS  Rotary	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 6385' GR				22. APPROX DATE WORK WILL START*  June 1, 2003	
23.	PROPOSED CA	SING AND CEMENTIN	G PROGRAM		
SIZE OF HOLE	SIZE OF CASING	WEIGHT/FOOT	SETTING DEPTH	QUANTITY OF CEMENT	
12-1/4"	9-5/8"	36.0#	+/- 300'	~212 cu.ft. Type III with 2% CaCl 2	
8-3/4"	7"	20.0#	+/- 3060'	~715 cu.ft.65/35 poz & ~209 cu.ft.Type 1	
6-1/4"	5-1/2"	15.5#	+/- 2960' - 3230'	Open hole completion - no cement	
Williams Production Co described location in ac				and Coal formation at the above	

This location has been archaeologically surveyed by Independent Contract Archaeology. Copies of their report have been submitted directly to your office.

This APD also is serving as an application to obtain BLM road and pipeline right-of-ways. This well will not require any new access road (see Pipeline & Well Plats #3 & #4). The well will be accessed by an existing road that crosses the SE/NE, SW/NE of sec 29 31N, R6W, where it joins the main "Rosa Road".

SIGNED C. /	absurface locations and measured and true vertical depths. Give blowout preventer program,  TITLE John C. Thompson, Ageni Date	4/24/2003
SIGNED	The voin C. Thompson, Figure Date	172-172005
(This space for Federal or State office use)	6/,	/
PERMIT NO.	APPROVAL DATE	03
Application approval does not warrant or certify that the applicant holds le	gal or equitable title to those rights in the subject lease which would entitle the applicant to conduct open	ations thereon.
CONDITIONS OF APPROVAL, IF ANY:		
·		, /_ /_ )
APPROVED BY Original Signed: Stephen Man	TITLE DATE	12/03

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 PG Box 1980, Hobbs, NM 88241-1980

District II PO Drawer DD, Antesia, 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
Santa Fe, NM 87504-2088 PM 3: 44

State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

070 Farmington, NM

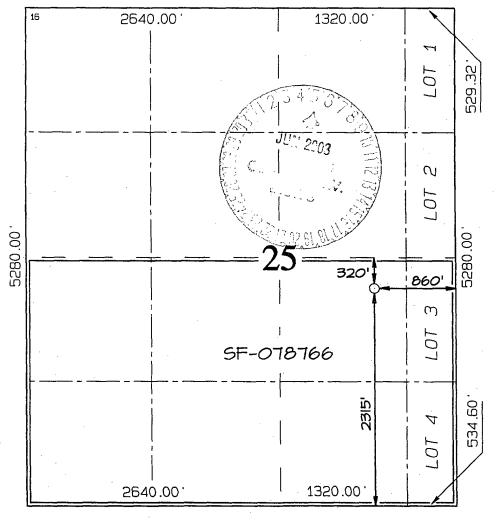
#### WELL LOCATION AND ACREAGE DEDICATION PLAT

30039-21421	*Pool Code 71629	Pool Name BASIN FRUITLAND CO	OAL.		
'Property Code 17033		operty Name SA UNIT	*Well Number 218A		
'0GRID No. 120782	=,	erator Name RODUCTION COMPANY	*Elevation 6385		
10 Supface Location					

<sup>10</sup> Surface Location

001/000 20001011									
UL or lot no.	Section	fownship	Range	Lat Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	25	31N	6W		2315	SOUTH	860	EAST	RIO ARRIBA
<sup>11</sup> 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
12 Dedicated Acres					<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.		
	272	2.32 Acr	res – S	5/2					

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 hereig is true and complete to the best of my knowledge and belief
to the back of my knowledge and belief
Signature
John C. Thompson
Printed Name
AGENT / ENGINEER
Title //
4/25/03
Date
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.
Date of Survey: MARCH 12, 2003
Signature and Seal of Professional Surveyor
C. EDW
SEGN C. EDWARD
25 100
(4E0CO)   m
ADFESSION AND FESSION AND FESS
O-ESSIO
To
UASON C. EDWARDS
Certificate Number 15269



#### **WILLIAMS PRODUCTION COMPANY**

#### **Operations Plan**

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

DATE:

4/23/2003

**WELLNAME:** 

Rosa #218A

Rio Arriba, NM

FIELD:

Basin Fruitland Coal

**LOCATION:** 

NWSE Sec. 25-T31N-R6W

**SURFACE:** 

**FED** 

**ELEVATION:** 

6385' GR

MINERALS:

**FED** 

**TOTAL DEPTH:** 

3330'

LEASE#

SF-078766

L GEOLOGY:

Surface formation - San Jose

#### A. FORMATION TOPS: (KB)

Ojo Alamo	2485'
Kirtland	2605'
Fruitland	2970'
Top of Coal	3080'
Base of Coal	3230'
Pictured Cliffs	3230'
Total Depth	3330'

<sup>\*</sup> Note: Well will be vertically drilled to 100' into Picture Cliff, logged through the PC then plug the PC.

- **B. <u>LOGGING PROGRAM:</u>** SDL from TD to Intermediate casing. DSN from TD to surface casing. 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.

#### IL 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 3080' 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 at +/- 3230°

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	<b>HOLE SIZE</b>	<u>DEPTH</u>	CASING SIZE	WT. & GRADE
Surface	12-1/4"	+/- 300'	9-5/8"	36# K-55
Intermediate	8-3/4"	+/- 3060'	7"	20# K-55
Prod. Liner	6-1/4"	+/- 2960-3230'	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 155 sx (212 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#.
- 2. <u>INTERMEDIATE</u>: Lead 345 sx (715 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 = 920 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.

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

Attachment to Drilling Technical Program

### Typical BOP setup

