FORM 3160-3 (December 1990)

UNITED STATES

SUBMIT IN TRIPLICATE* (Other instructions on Form approved. Budget Bureau No. 1004-0136

LEASE DESIGNATION AND SERIAL NO. SF - 078767 IF INDIAN, ALLOTTEE OR TRIBE NAME UNIT AGREEMENT NAME $Rosa\ Unit$	
IF INDIAN, ALLOTTEE OR TRIBE NAME UNIT AGREEMENT NAME	3
UNIT AGREEMENT NAME	E
Rosa Unit	
21000 O 1100	
FARM OR LEASE NAME, WELL NO.	
209A	•
API WELL NO.	99
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_	
() Sec. 24 ,131N, R6W	
*	13. STATE
	NM
JF ACKES ASSIGNED TO THIS WELL	
72.02 S/2	
ARY OR CABLE TOOLS	•
Rotary	
APPROX. DATE WORK WILL START* May 15, 2004	
QUANTITY OF CEMENT	
$'65 \ cu.ft.65/35 \ poz \& \sim 70 \ cm$	u.ft.Type 1
pen hole completion - no ce	ment
	FIELD AND POOL OR WILDCAT Basin Fruitland Cod SEC., T., R., M., OR BLK. AND SURVEY OR AREA OSEC. 24, T31N, R6W COUNTY OR PARISH Rio Arriba OF ACRES ASSIGNED TO THIS WELL ARY OR CABLE TOOLS Otary APPROX. DATE WORK WILL START* May 15, 2004 QUANTITY OF CEMENT 106 cu.ft. Type III with 2% 165 cu.ft.65/35 poz & ~70 c

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 require 30ft of new access road (see Pipeline & Well Plats #3 & #4). This new road will cross the SE qtr sec 24 where it joins an existing road at the Rosa Unit #163A location. This road proceeds west across the S/2 sec 24. andn the SE qtr sec 23, T31N, R6W where it joins the main "Rosa Road".

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any 24. 4/12/2004 TITLE Larry Higgins, Drlg COM (This space for Federal or State office use) APPROVAL DATE Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. APPROVED BY *See instructions On Reverse Side

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

Santa Fe, NM 87504-2088

OIL CONSERVATION DIVISION PO Box 2088

Form C-102
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Conjes

State Lease - 4 Copies Fee Lease - 3 Copies

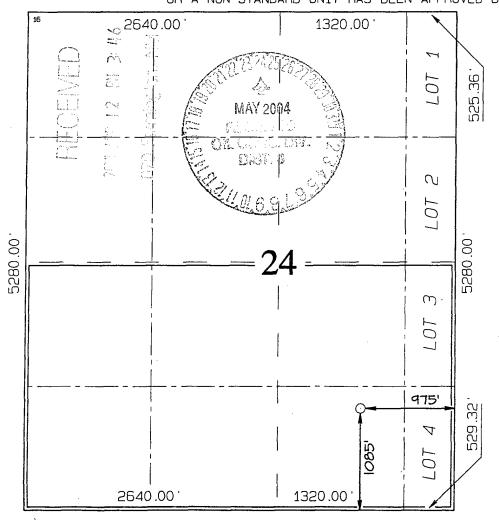
AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[API NUMBER _	- POD1 CODE	[PUUI Naiii	E
30-039-27699	71629	AND COAL	
¹Property Code	³Pr	operty Name	*Well Number
17033	RO	AP05	
'OGRID No.	*Operator Name		
120782	WILLIAMS PF	6312	
	¹⁰ Sunfa	ace Location	

UL or lot no.	Section 24	Township 31N	Range 6W	Lot Idn	Feet from the	North/South line SOUTH	Feet from the 975	East/West line EAST	County RIO ARRIBA
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/West line	County
¹² Dedicated Acres		.02 Acre	es - (S	5/2)	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.		

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
1/4
Signature 1990
LARRY HIGGINS
LHARY MIGGINS
Printed Name
DRILLINE COM
Title
4-12-04
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: JANUARY 15. 2004
Signature and Seal of Professional Surveyor
SON C. EDWARD SELW MEXICO
MELY
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展 (15269)) 度)
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AND ESSIONAL STATES
TOFESSION .
JASON C. EDWARDS
Certificate Number 15269
33. 61. 100 CC 10mpCl 10E03



WILLIAMS PRODUCTION COMPANY

Operations Plan

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

DATE:

4/12/2004

WELLNAME:

Rosa Unit #209A

Rio Arriba, NM

FIELD:

Basin Fruitland Coal

LOCATION:

SWSE Sec. 24-T31N-6W

SURFACE:

Federal

ELEVATION:

6,312' GR

MINERALS:

Federal

TOTAL DEPTH:

3,185'

LEASE #

SF-078767

I. GEOLOGY:

Surface formation - San Jose

A. FORMATION TOPS: (KB)

NAME	DEPTH	NAME	DEPTH
San Jose	Surface	Top Coal	3,030
Nancimiento	1,180	Bottom Coal	3,165
Ojo Alamo	2,430	Pictured Cliffs	3,165
Kirtland	2,540	TD	3,185
Fruitland	2,925		

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 3,010' 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.

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	<u>DEPTH</u>	CASING SIZE	WT. & GRADE
Surface	12-1/4"	+/- 300'	9-5/8"	36# K-55
Intermediate	8-3/4"	+/- 3,010'	7"	20# K-55
Prod. Liner	6-1/4"	+/- 2,910'- 3,185'	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. <u>CEMENTING:</u>

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

- 1. <u>SURFACE</u>: Use <u>155 sx</u> (206 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 = 206 cu.ft. Test to 1500#.
- 2. INTERMEDIATE: Lead 365 sx (765 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 100% excess in Lead Slurry to circulate to surface. No excess in Tail Slurry. Total volume = 835 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.

Sr. Drilling Engineer

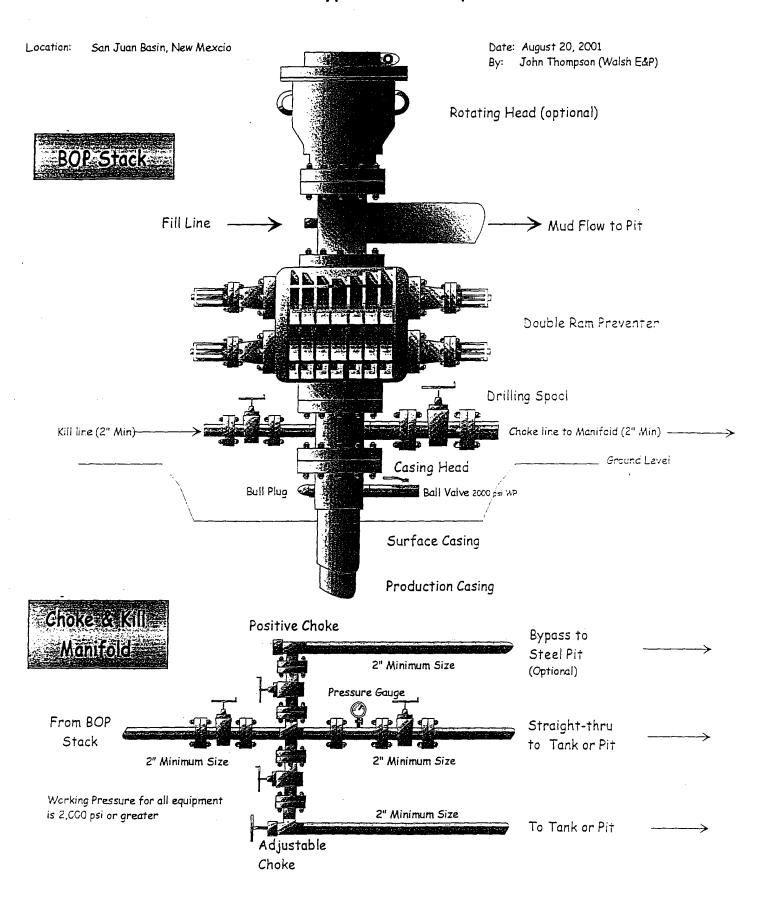
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Williams Production Company, LLC

Well Control Equipment Schematic for 2M Service

Attachment to Drilling Technical Program

Typical BOP setup



District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 For drilling and production facilities, submit to appropriate NMOCD District Office.

For downstream facilities, submit to Santa Fe office

Form C-144

March 4, 2004

Pit or Below-Grade Tank Registration or Closure

Decretor: Williams Production Company Telephone: (970) 5	63-3308e-mail address:larry,higgins@wi		
Address: _P.O. Box 316 – Ignacio, Colorado 'acility or well name: _Rosa Unit #209AAP1 #:	U/L or Qtr/Qtr_SW/SE_Sec_24_T_31N_R_	_	
County:Rio Arriba Latitude Longitude	Surface Owner Federal X State Private Indian	ı	
'it 'ype: Drilling X Production Disposal Vorkover ☐ Emergency ☐	Below-grade tank Volume:bbl Type of fluid: Construction material: Double-walled, with leak detection? Yes		
ined X Unlined			
iner type: Synthetic X Thickness _20_mil Clay	·		
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	Less than 50 feet 50 feet or more, but less than 100 feet 100 feet or more X	(20 points) (10 points) (0 points)	
Vellhead protection area: (Less than 200 feet from a private domestic vater source, or less than 1000 feet from all other water sources.)	Yes No X	(20 points) (0 points)	
Distance to surface water: (horizontal distance to all wetlands, playas, rigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet 200 feet or more, but less than 1000 feet 1000 feet or more X	(20 points) (10 points) (0 points)	
	Ranking Score (Total Points)	0	
(1) attach a diagram of the facility showing the pit's relationship to (2) Indicate disposal location: onsite offsite If offsite, name (3) Attach a general description of remedial action taken including r (4) Groundwater encountered: No Yes If yes, show depth by (5) Attach soil sample results and a diagram of sample locations and thereby certify that the information above is true and complete to the best of	of facility emediation start date and end date. elow ground surfaceft. and attach s excavations.		
e constructed or closed according to NMOCD guidelines. ate:4-12-04	Signature Lawry Hoge:		
rinted Name/Title_Larry Higgins our certification and NMOCD approval of this application/closure does not therwise endanger public health or the environment. Nor does it relieve the gulations.	relieve the operator of liability should the contents	s of the pit or tank contaminate ground water or	
pproval:			
ate: rinted Name/Title	Signature		

