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

# State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088

Form C-101 Revised February 10, 1994 Instructions on back Submit to Appropriate District Office State Lease - 6 Copies

District [V	RG., AZICC,	14MF 9/410		Sant	a re, NM 8	5/304-2088	5			Fe	e Lease - 5 Copie	
PO Box 2088, Sa	au Pe, NM	87504-208	8							AME	NDED REPORT	
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- <del>00848</del>	0 170:	33	I	losa Un	it						337	
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6 1/4 5 1/2		1/2	15.	5#	3160 - 3350		None		-/-			
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2000. Describe	the blowes	t preventio	a program, if	any. Use ac	kliticaal sheets if s	eccessary.		was a process		an broke	and new brongerive	
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Ragin	Fruit	land C	oal For	pany pr mation	oposes to	drill a	vert	:ical well	L to t	test	the	
Basin Fruitland Coal Formation at the above location according the the standard Coperation Plan.												
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33 I hereby certafy	y that the in	formation e	rven above is t	rue and come	icte to the heat	<del></del>		(0)1115	(UU)	NO F		
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Signature: Approved by: 5 ruis 2 20-9												
Printed name: Paul C. Thompson					Т	Title: DEPUTY OIL & GAS INSPECTOR, DIST.						
Title: Ag	ent				^	PPROVAL DATE G			Expiration		2 0 1998	
Date:			Phone:		C	onditions of Appr		- 1000			2 0 1770	
8/1	.5/97		(505)	327-48	92	Attached					į	

District I PO Box 1980, Hobbs, NM 88241-1980

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District III 1000 Rio Brazos Rd., Aztec, NM 87410

District IV PO Box 2088, Santa Fe, NM 87504-2088

'API Number

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

<sup>3</sup>Pool Name

AMENDED REPORT

# WELL LOCATION AND ACREAGE DEDICATION PLAT

\*Pool Code

3	0-039-	25721		72319		Basin Fruit]	and Coal			
*Proper	ty Code				Propert	-				1 Number
'0GRID No.			ROSA UNIT						337	
120782				WILLIA	•	CTION COMPA	ANY		*Elevation 6525	
<u> </u>		l			<sup>lo</sup> Surface	Location				
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UL or lot no	). Section	11 Bot	ttom Range T	Hole L	00001011	f Different		rom Surface		
L u inche	s. Section	10m sziap	Hartge	Let Ion	Feet from the	North/South line	Feet from the	East/West	t line	County
12 Dedicated Ac	res <sup>13</sup> Joint (	or Infill <sup>14</sup> Conso	olidation Co	ode <sup>85</sup> Ond	er No.	J	<u>.</u>	<u> </u>		
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AUG.12,1997 1:52PM WMS PRODUCTION NO.488 P.1/4

# WILLIAMS PRODUCTION COMPANY OPERATIONS PLAN

**DATE:** 08/08/97

WELLINAME: Rosa 337 FIELD: Basin Fruitland Coal

LOCATION: NE/4 SW/4 Sec. 32, T31N, R5W SURFACE: State

Rio Arriba, NM

ELEVATION: 6525' GR MINERALS: State

TOTAL DEPTH: 3350' LEASE #

I. GEOLOGY; Surface formation - San Jose

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

Ojo Alamo		26501
Kirtland		2760'
Fruitland		3140'
Base of Coal	,	3350'
Total Depth		33501

- B. LOGGING PROGRAM: No logging anticipated. Mud logger will be present to determine 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. MUD PROGRAM: Clear water with benex to 7" casing point. LSND to log and run pipe. Treat for lost circulation as necessary. Expect 100% returns prior to cementing. Notify Engineering of any mud losses.

B. <u>BOP TESTING</u>: While drill pipe is in use, the pipe rams will be tested not less than once each day. The blind rams will be tested once each trip. The drum brakes will inspected and tested each tour. All tests and inspections 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"	250'	9-5/8"	36# K-55
Intermediate	8-3/4"	3230'	7"	20# K-55
Prod. Liner	6-1/4"	3160-3350'	5-1/2"	15.5# K-55

## **B. FLOAT EOUIPMENT:**

- 1. SURFACE CASING: 9-5/8" notched regular pattern guide shoe.
- 2. INTERMEDIATE CASING: 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 1285' to the surface. Total centralizers = 5 regular and 11 turbulent.

AUG.12.1997 1:52PM WMS PRODUCTION NO.488 P.2/4

Rosa #337 Operations Plan Page #2

3. PRODUCTION CASING: 5-1/2\*liner with notched collar on bottom.

#### C. CEMENTING:

- 1. SURFACE: Use 265 sx (315 cu.ft.) of class "B" with 3% CaCl2 and 1/4# of cello-flake/sk (Yield = 1.19 cu.ft./sk, Weight = 15.6 #/gal.). Use 100% excess to circulate the surface. WOC 12 hours. Test to 1500#.
- 2. INTERMEDIATE: Lead 305 sx (627 cu.ft.) of class "B" 65/35 poz with 10% gel and 1/4# cello-flake/sk (Yield = 2.1 cu.ft./sk, Weight = 12.1 #/gal.). Tail 120 sx (201 cu.ft.) of class "B" with 4% gel, 1/4# cello-flake/sk, 0.5% FL-25 and 2% CaCi2 (Yield = 1.74 cu.ft./sk, Weight = 13.5#/gal.). Use 100 excess in lead and 75% excess in tail to circulate to surface. Total volume = 828 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.

#### IV COMPLETION

## A. PRESSURE TEST

Pressure test 7" & 4-1/2" 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. <u>Mesa Verde:</u> Run 2-7/8", 6.5#, J-55, BUE tubing with a SN (1.375" ID) on top of bettom joint. Land tubing approximately 50' above TD.

Lance A. Hobbs Engineer, Production & Drilling

file:rosa337.wpd