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

1220 S. St. Francis Dr., Santa Fe, NM 87505

District IV

State of New Mexico Energy Minerals and Natural Resources

Form C-101 May 27, 2004

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit to appropriate District Office

☐ AMENDED REPORT

			OR PERMIT			ENTER, D	EEPEN	I, PLUGBAC	CK, OR AD	DD A ZONE	
WILLIAMS PRODUCTION COMPANY, LLC PO Box 3102, Tulsa, OK 74172							120782	J API Number			
3 D-and	arty Code				Property	Nama		30 - 03	<u> 39 - 29</u>	95 %1 /ell No.	
rtope	17033				ROSA U					32A	
			⁹ Proposed Pool 1		ROBAO			10 Propo	sed Pool 2	3214	
]	BASIN FR	UITLAND COAL (C	AS) 71629							
					⁷ Surface	Location					
UL or lot no.	Section	Townshi	p Range	Lot Id			South line	Feet from the	East/West line	County	
Е	22	31N	06W	<u></u>	15		N	925	W	RIO ARRIBA	
		·	⁸ Propo	sed Botto	m Hole Locat	ion If Differer	t From S	Surface			
UL or lot no.	Section	Townshi	·	Lot Id		i	South line	Feet from the	East/West line	County	
D	22	31N	06W	Δ.d.	Iditional We	<u> </u>	N	330	w	RIO ARRIBA	
	Type Code WELL		12 Well Type Coo GAS		Additional Well Information 13 Cable/Rotary 14 L			Lease Type Code	0 15 Gr	13 Ground Level Elevation 6266	
	lultiple N		¹⁷ Proposed Dept 3281	th 18 Formation FRUITLAND COAL				19 Contractor 20		²⁰ Spud Date 7/15/05	
Depth to Grou					from nearest fresh	water well		1	nearest surface wa		
MORE THAN Pit: Liner:	Synthetic	12	mils thick Clay		THAN 1000' me: 13,963	bbls	Drilling Met		1.500°/LESS TH.4	AN 1000'	
Closed	l-Loop Syste	m 🔲	-					Diesel/Oil-based	Gas/Air		
			21	Propos	ed Casing a	and Cement	Progran	n			
Hole S	ize		Casing Size	Casing weight/foot			Setting Depth		ment	Estimated TOC	
12.2	5		9 625		36	300		190		0	
879	875 7		7	20		3126	3126			0	
6.25	<u> </u>	ļ	5.5		15.5	3281		0			
		 								· .	
²² Describe th	e proposed	program.	If this application is	to DEEPEN	or PLUG BAC	I K, give the data o	n the preser	nt productive zone a	nd proposed new	productive zone.	
	•	•	ogram, if any. Use a		•	,500 PSI		7.345	67		
,								JUL 2	205		
		H	dona for l	dive	ction	al Sur	vel				
²³ I hereby cer	tify that the	informati	on given above is tru	e and compl	lete to the hest			ONICEPIA	IONI DIX	YIONI	
of my knowle	dge and bel according t	ief. I furtl to NMOC	ner certify that the o	drilling pit	will be	Approved by	OILC	ONSERVAT	ION DIVIS	SION	
			oved plan .	/	•	1/2	OD COM	MAJAX			
Printed name:		11GGINS	carry 1	tigg-		Title: GAPUTY CAR GAS INSPECTOR, DIST, CO.					
Title: DRILL		vain-@'1	liama acm			Approval Date	- F	2 ZUU5 I EX	piration Date	- 0 CANE	
E-mail Addres	ss: <u>iarry.hig</u>	zgins(<i>d</i>)Wil						🗖	·		
Date: 7/6/05	te: 7/6/05 Phone: (970) 563-3308					Conditions of Approval Attached					

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

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

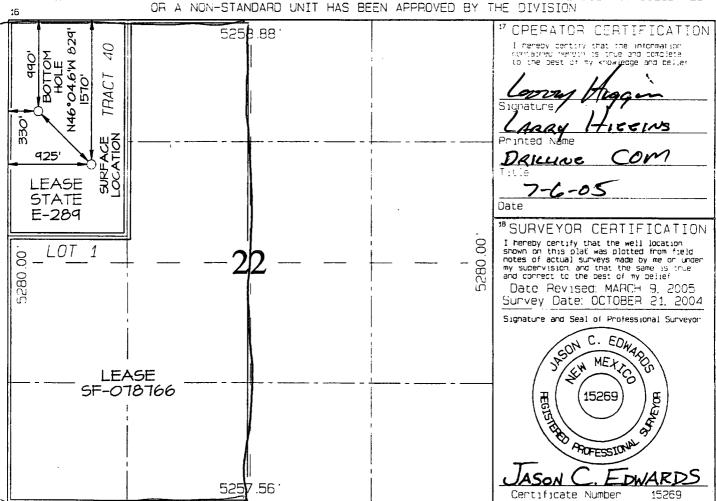
WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number 30-039-2951	71629	Pool Nar BASIN FRUITL	-
*Property Code		erty Name	*Well Number
17033		A UNIT	332A
'OGRID No.	-,	ator Name	*Elevation
120782		DUCTION COMPANY	6256

¹⁰ Surface Location

Ut or lot no.	Section 22	31N	Range 6W	Lat Ian	Feet from the	NORTH	Feet from the 925	East/West line WEST	RIO ARRIBA
		11 E	ottom	Hole L	ocation I	f Different	From Surf	ace	
UL on lot no.	Section	Township	Range	Lat Ion	Feet from the	North/South line	Feet from the	East/west line	County
D	55	31N	6W		990	NORTH	330	WEST	RIO ARRIBA
319.83 320.0 Acres - (W/2)			¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order Na.				

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





WILLIAMS PRODUCTION COMPANY

Operations Plan

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

DATE:

6/28/2005

WELLNAME:

Rosa Unit #332A

Rio Arriba, NM

FIELD:

Basin Fruitland Coal

BH LOCATION:

NWNW Sec 22-31N-6W

SURFACE:

BLM

SURF. LOCATION:

SWNW Sec 22-31N-6W

MINERALS:

HIM STATE

ELEVATION:

6,266' GR

MINUTERING

TOTAL DEPTH:

3,281'

LEASE#

STATE/ FED *E-2*89

I. GEOLOGY:

Surface formation - San Jose

A. FORMATION TOPS: (KB)

NAME	TVD	MD	NAME	TVD	MD
San Jose	Surface	Surface	Top Coal	2,978	3,146
Nacimiento	1,078	1,096	Bottom Coal	3,113	3,281
Ojo Alamo	2,328	2,489	Pictured Cliffs	3,118	3,286
Kirtland	2,423	2,587	TD	3,113	3,281
Fruitland	2 868	3 036		·	·

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 3,126' (MD) 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.
- C. <u>MUD LOGGING PRORAM:</u> 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 BOPE will be tested to 250 psi (Low) for 5 minutes and 1500 psi (High) for 10 minutes. Utilize a BOPE Testing Unit with a recording chart and appropriate test plug for testing. The drum brakes will be 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	<u>DEPTH</u> (MD)	CASING SIZE	WT. & GRADE
Surface	12-1/4"	+/- 300'	9-5/8"	36# K-55
Intermediate	8-3/4"	+/- 3,126'	7"	20# K-55
Prod. Liner	6-1/4"	+/- 3,026'-3,281'	5-1/2"	15.5# K-55

B. FLOAT EQUIPMENT:

- 1. <u>SURFACE CASING:</u> 9-5/8" notched regular pattern guide shoe. Run (1) standard centralizer on each of the bottom (4) joints of Surface Casing.
- 2. <u>INTERMEDIATE CASING:</u> 7" cement nose guide shoe with a self-fill insert float. Place float collar one joint above the shoe. Install (1) Turbulent centralizer on each of the bottom (3) joints and one standard centralizer every (3) joints to 2,500 ft. Run (1) Turbulent centralizer at 2,700 ft., 2,500 ft., 2,300ft., 2,000ft., 1,500 ft., and 1,000 ft. (NTL-FRA 90-1).
- 3. PRODUCTION LINER / CASING: 4-1/2" & 5-1/2" whirler type cement nose guide shoe with a latch collar on top of 20' bottom joint. Place centralizers as needed across selected production intervals.

C. CEMENTING:

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

- 1. <u>SURFACE</u>: Use 190 sx (264 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 = 264 cu.ft. Test to 1500#.
- 2. <u>INTERMEDIATE:</u> Lead 420 sx (880 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 120% excess in Lead Slurry to circulate to surface. No excess in Tail Slurry. Total volume = 950 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.

Rosa Unit #332A Operation Plan Page #3

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. Fruitland Coal: Run 2-7/8", 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