Form approved. Budget Bureau No. 1004-0136

UNITED STATES

	UNITEDSIATE		reverse side)	5. LEASE DESIGNATION AND SERIAL NO	
DEPA	RTMENT OF THE	INTERIOR IN 2	25 FM 2: 12	SF-078765	•
BUR	EAU OF LAND MANA	GEMENI		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
ADDI ICATION F	OR PERMIT TO DRI	LL DEÉPÈN O	R PLUG BACK	0. If INDIAN, ALEOTTEE OR TABLE NAME.	,
		1 2	4	. 7. UNIT AGREEMENT NAME	
				Rosa Unit	
. TYPE OF WELL		<i>્રિક્</i> ફો	2074	8. FARM OR LEASE NAME, WELL NO.	
OIL G	AS X OTHER	$\begin{array}{c} \mathbf{SINGLE}_X\\ \mathbf{ZONE} \end{array}$	MULTIPLI ZONI	381	
NAME OF OPERATOR	1	IC S		9. API WELL NO. 3 0 0 39 G	7041
Williams P ADDRESS OF OPERATOR	roduction Company, L	LC Y	<u> </u>	10. FIELD AND POOL OR WILDCAT	
o Walsh Engineering	7415 F. Main St., Farmin	gton, NM 87402	505) 327-4892	Basin Fruitland Co	oal
		Ctata manuimamanta Ki		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA	
it Surface 1425' FNL	and 495' FWL Section	ion 11, T 31/	V, K G W		11 7
At proposed Prod. Zone				Sec. 11, T31N, R6	/V
1000' FNL & 660' FEL - SECTION 10, 131N, K6VV 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*			12. COUNTY OR PARISH	13. STATE	
26 miles N	E of Blanco, NM			Rio Arriba	NM
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY 16. NO. OF ACRES IN LEASE			17. NO. OF ACRES ASSIGNED TO THIS WELL		
OR LEASE LINE, FT.(Also to nearest drig, unit line, if any) 495'			60.23	320 E/2 SEC 10	
8. DISTANCE FROM PROPOSED LOCA	ATION* TO NEAREST WELL,	19. PROPOSED DEPTH		20. ROTARY OR CABLE TOOLS	
DRILLING, COMPLETED, OR APPLIED FOR ON THIS LEASE, FT.		3435'		Rotary	
25' 21. ELEVATIONS (Show whether DF, RT, GR, etc.) 6308'		22. APPROX. DATE WORK WI		22. APPROX. DATE WORK WILL START August 1, 2002	•
23.	PROPOSED CAS	ING AND CEMENTING	G PROGRAM		
SIZE OF HOLE	SIZE OF CASING	WEIGHT/FOOT	SETTING DEPTH	QUANTITY OF CEMI	
12-1/4"	9-5/8"	36.0#	+/- 250'	~188 cu.ft. Type III with 29	
8-3/4"	7"	20.0#	+/- 3273'	~775 cu.ft.65/35 poz & ~209 cu.ft.7	
6-1/4"	1172 512	15.5#	+/- 3435'	Open hole completion - no	cement
described location in a This location has been submitted directly to yo This APD also is serving	ccordance with the atte archaeologically surve our office.	ached drilling and eyed by Independer obtain BLM road	surface use plans. nt Contract Archae and pipeline right	Fruitland Coal formation at the cology. Copies of their report cof-ways. This well will require	have been
of new access road (se	re Pineline & Well Plai	ts #3 & #4). The w	vell will be accesse	d by an existing road that here it joins the main "Rosa Ro	

Note: This well will be drilled on the same pad as the proposed Rosa Unit #9B.

GNED C.		TTTLE John C. Th	ompson, Age	ni date	6/25/2002
his space for Federal or State office use)			<u> </u>		
ERMIT NO.	APPROVAL	L DA'TE		-V	tions thereas
plication approval does not warrant or certify that the applicant hol	ds legal or equitable title to tho	se rights in the subject lease w	men wound entitie me ap	рисани то согишен	operations thereof.
ONDITIONS OF APPROVAL, IDANY:	0	P	/ -		9/4/02
PROVED BY Jane	<u> </u>	_ TITLE	- Eng	DATE	7/7/02
1.00.000	too Instruct	ions On Revers	a Sida		

DALLONG CORRATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

This action is subject to technical and sture review pursuant to 43 OFR 3165.3 and appeal pursuant to 43 CFR 3165.4

NMOCD C104 FOR Divertional Survey

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

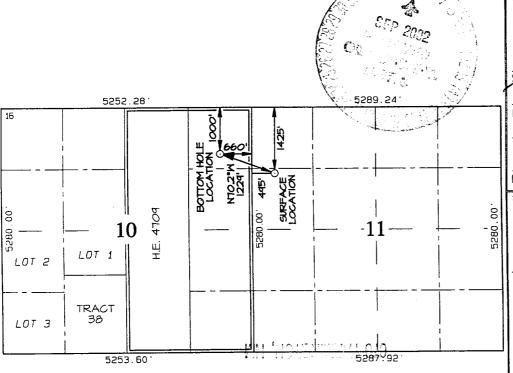
WELL LOCATION AND ACREAGE DEDICATION PLAT

30-039-27041	*Pool Code 71629	POOL Name BASIN FRUITLAND COAL
'Property Code 17033	³Property ROSA U	1
'0GRID No. 120782	'Operator WILLIAMS PFODUC	· ·

¹⁰ Surface Location East/West line UL or lot no. Section Township Range Lot Idn Feet from the North/South line Feet from the RIO 495 1425 NORTH WEST Ε 11 31N 6W ARRIBA From Surface ¹¹ Bottom Hole Location Different

Feet from the North/South line East/West line UL or lot no. Section Township Range Lot Idr Feet from the RIO 31N 6W 1000 NORTH 660 EAST 10 Α ARRIBA ¹³Joint or Enfill ¹⁴ Consolidation Code ¹⁵ Order No. 12 Dedicated Acres 320.0 Acres - E/2

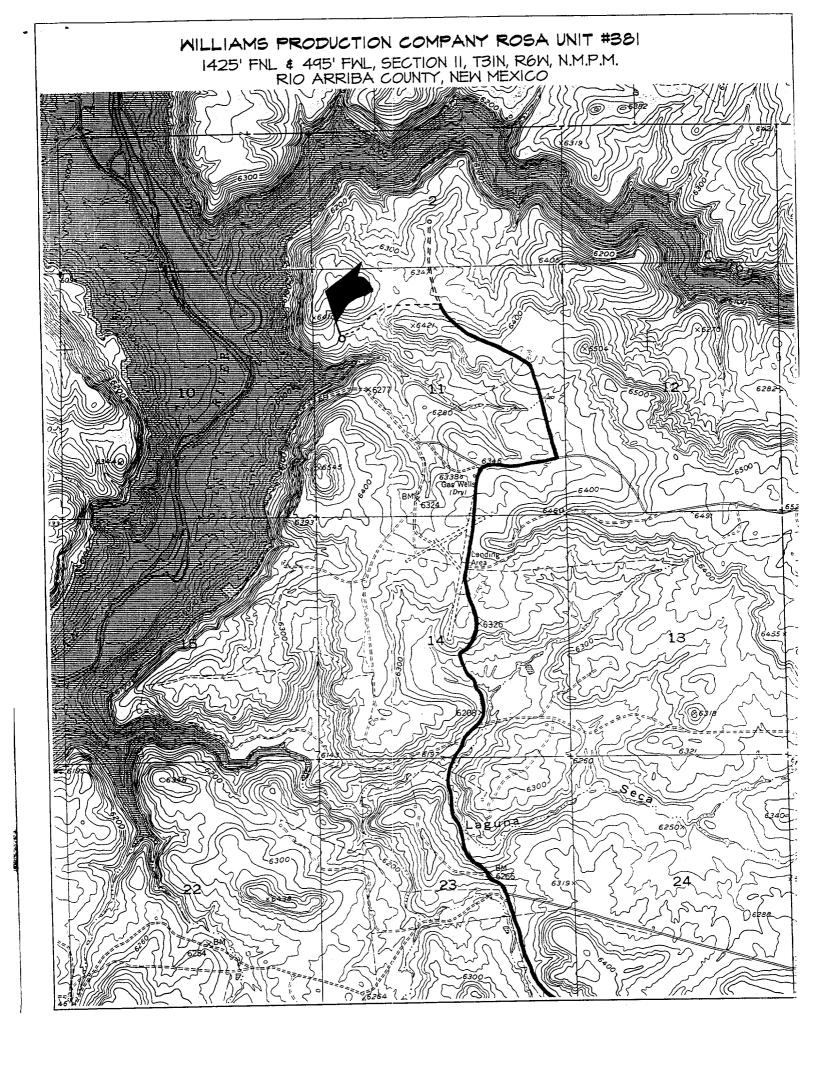
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



21 :2 M 22 IIV 2012

17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief Signature John C. Thompson Printed Name Agent/Engineer Title 6/15/02 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 und my supervision, and that the same is true and correct to the best of my belief. Date of Survey: JUNE 5, 2002 Signature and Seal of Professional Surveyor SON C. EDWARDS SEN MEXICO 15269 AOFESSIONAL

IASON C Certificate Number 15269





WILLIAMS PRODUCTION COMPANY

Operations Plan

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

DATE:

6/24/2002

WELLNAME:

Rosa #381

FIELD:

Basin Fruitland Coal

LOCATION:

SW/4 NW/4 Sec. 11-T31N-R6W

SURFACE:

BOR

ELEVATION:

6308' GR

Rio Arriba, NM

MINERALS:

FED

TOTAL DEPTH:

3435'

LEASE#

N/A

L GEOLOGY:

Surface formation - San Jose

A. FORMATION TOPS: (KB)

	<u>TVD</u>	MD
Ojo Alamo	2368'	2.633
Kirtland	2468'	2:746
Fruitland	2878'	3181'
Top of Coal	2988'	3293'
Base of Coal	3128'	3435
Pictured Cliffs	3128'	
Total Depth	3128'	3435

B. LOGGING PROGRAM: High resolution SDL from TD to intermediate casing; DSN from TD to surface casing. 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. <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 3246' 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 +/- 3551'.
- C. <u>BOP TESTING:</u> BOP TESTING: 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"	+/- 250'	9-5/8"	36# K-55
Intermediate	8-3/4"	+/- 3273'	7"	20# K-55
Prod. Liner	6-1/4"	+/- 3173-3435'	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. <u>SURFACE</u>: Use <u>130 sx</u> (188 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. INTERMEDIATE: Lead 370 sx (775 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 = 984 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" 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.