FORM 3160-3 (December 1990)

UNITED STATES DEPARTMENT OF THE INTERIOR

SUBMIT IN TRIPLICATE*

(Other instructions on

Form approved.
Budget Bureau No. 1004-0136

Expires December 31, 1991

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	PARTMEN		INTERIOR			5. LEASE DESIGNATION AN	D SERIAL NO.	
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			LL, DEEPEN	JR PEUG BACK	M			
	DRILLX	DEEPEN		•	- 1	7. UNIT AGREEMENT NAME	:	
1b, TYPE OF WELL						Rosa Unit		
, oπ□	GAS		SINGLE	MULTIPLI		B. FARM OR LEASE NAME,	WELL NO.	
WELL	WELL	OTHER	ZONE	ZONI	1 11	9 B		
2. NAME OF OPERATOR	ma Duaduation	C	· C 4	A 10 0 D		D. API WELL NO.	0 =	/.0
3. ADDRESS OF OPERATOR	ms Production	Company, LI	<u>.c</u> /8) <u> </u>	3003		1042
	7415 E Ma	in Ct. Farmiter	-1 ND (07/60)	50000		0. FIELD AND POOL OR WI		
c/o Walsh Engineerin 4. LOCATION OF WELL (Re	nort leastion clearly and	n St., Farming	gion, NM 8/4[[Z-]	(303): 327-489432	S-44	Blanco Me	saverde	
At Surface $1405'$ 1	FNL and 510' I	in accordance with an	y State requirements (5)		ľ	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA		
At proposed Prod. Zone	1712 ana 510 1	"L	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		1	E Sec. 11, T3	tar nem	r
2 proposed riou: Eorie			V.			₽= Sec. 11, 13	IIV, KOW	
14. DISTANCE IN MILES AND DI			FFICE*			2. COUNTY OR PARISH		13. STATE
	es NE of Blanc			- Laboration		Rio Arriba		NM
 DISTANCE FROM PROPOSEI OR LEASE LINE, FT. (Also to n 			16. NO. OF ACRES IN LEAS	SE	17. NO	O. OF ACRES ASSIGNED TO	THIS WELL	
5Ì0'			25	i <i>60</i>	.	320 W.L		
18. DISTANCE FROM PROPOSEI			19. PROPOSED DEPTH		20. RC	TARY OR CABLE TOOLS		···········
DRILLING, COMPLETED, OR 1200'	APPLIED FOR ON THIS	LEASE, FT.	60)55'		Rotary		
21. ELEVATIONS (Show whether I	OF, RT, GR, etc.)		00			22. APPROX. DATE WORK W	ZII I CYCADITA	
6308'					ľ	August 1, 2		
23.			G AND CEMENTING	G PROGRAM				
SEZE OF HOLE 12-1/4		OF CASING	WEIGHT/FOOT	SETTING DEPTH	\Box	QUANTITY OF CEMENT		
8-3/4"	7"		36.0#	+/- 500'	~352 cu.ft. Type III with 2% CaCl 2			
			20.0#	+/- 3595' ~830 cu.ft.65/35 poz & ~250 cu.ft.		cu.ft.Type II		
6-1/4"	4-1/2	"	10.5#	+/- 6055'		~141 cu.ft.50/50 pc	oz & ~201	cu.ft. PL HS
	-							-
	_							

Williams Production Company proposes to drill a vertical well to develop the Mesa Verde formation at the above described location in accordance with the attached drilling and surface use plans.

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 require ~2450' of new access road (see Pipeline & Well Plats #3 & #4). The well will be accessed by an existing road that crosses the NW/NE, SW/NE, SE/NE, NE/SE & SE/SE of section 11, 31N, R6W, where it joins the main "Rosa Road". Note: This well will be drilled on the same pad as the proposed Rosa Unit #381.

NED CLC. The	TITLE John C. Thompson, Agent DATE 6/24/2002
s space for Federal or State office use)	
LMIT NO.	APPROVAL DATE
lication approval does not warrant or certify that the applicant holds les	
	APPROVAL DATE gal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. TITLE TITLE DATE

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.

DRILLING CREATIONS AUTHORIZED ARE SUBJECT TO GUARLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

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

NMOCD



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

Revised February 21, 1994 Instructions on back

Form C-102

Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

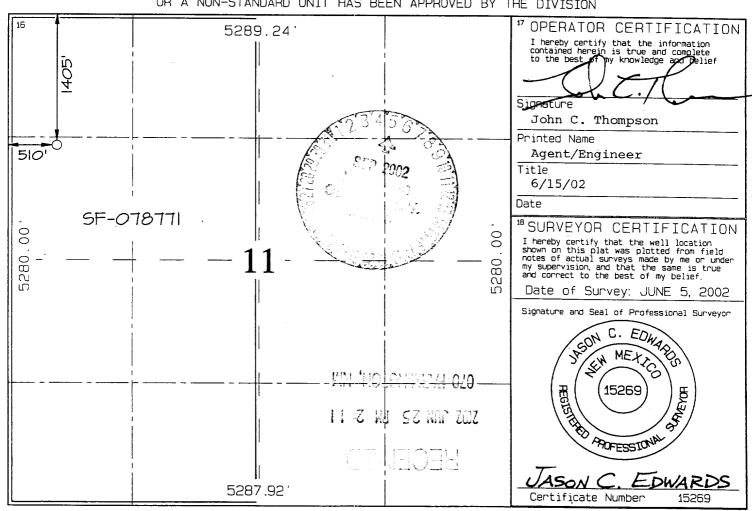
OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

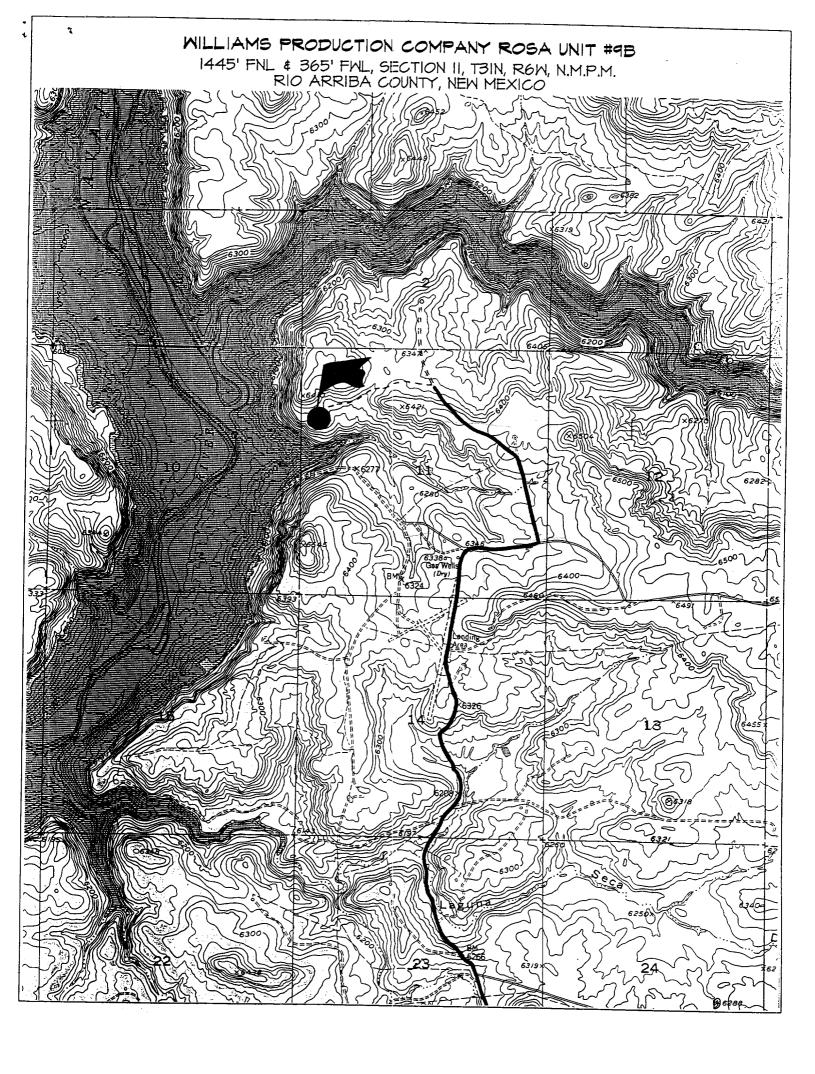
WELL LOCATION AND ACREAGE DEDICATION PLAT

30-039-27042	*Pool Code	Pool Code Pool Name 72319 BLANCO MESAVERDE		
30-039-61046	72319			
'Property Code 17033		operty Name SA UNIT	*Well Number 9B	
'одято No. 120782	•	erator Name RODUCTION COMPANY	*Elevation 6308'	
	10 0 - 6	can I castian		

¹⁰ Surface Location UL or lot no. Sect ion Township Range North/South line Lat Idn Feet from the Feet from the East/West line County RIO Ε 11 31N БW 1405 NORTH 510 WEST ARRIBA 11 Bottom Hole Location If Different From Surface UL or lot no Section Range Feet from the North/South line Feet from the East/West line County 12 Dedicated Acres 13 Joint or Infill ¹⁴ Consolidation Code 320.0 Acres - (W/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







WILLIAMS PRODUCTION COMPANY

Operations Plan

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

DATE:

6/24/2002

FIELD:

Blanco MV

WELL NAME:

Rosa Unit 9B

Rio Arriba, NM

SURFACE:

BOR

LOCATION:

SW/4 NW/4 Sec 11-31N-6W

MINERALS:

FED

ELEVATION:

6308' GR

LEASE#

SF-078771

MEASURED DEPTH: 6064'

L GEOLOGY: Surface formation - San Jose

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

	<u>MD</u>		MD.
Ojo Alamo	2355'	Cliff House	5320'
Kirtland	2455'	Menefee	5370'
Fruitland	2865'	Point Lookout	5605
Pictured Cliffs	3120'	Mancos	5940'
Lewis	3415'	Total Depth	6055

- B. **LOGGING PROGRAM:** DIL from intermediate casing to TD. CNL/FDC over zones of interest. (selected intervals by on-site Geologist). Subject to change as wellbore conditions dictate.
 - C. NATURAL GAUGES: Gauge any noticeable increases in gas flow. Record all gauges in Tour book and on morning reports.

IL DRILLING

- A. MUD PROGRAM: Clear water with benex to 7" casing point. Convert to a LSND mud to log and run pipe. Treat for lost circulation as necessary. Obtain 100% returns prior to cementing. Notify Engineering of any mud losses.
- B. 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	DEPTH (MD)	CASING SIZE	WT. & GRADE
Surface	12-1/4"	500'	9-5/8"	36# K-55
Intermediate	8-3/4"	3.595'	7"	20# K-55
Prod. Liner	6-1/4"	3495'-6055'	4-1/2"	10.5# 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 (3) 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 one Turbulent centralizer on each of the bottom (3) joints and one standard centralizer every (4) joints to the surface casing. Total centralizers = (26) regular and (3) turbulent.
- 3. PRODUCTION CASING: 4-1/2" whirler type cement nose guide shoe with a latch collar on top of 20" bottom joint. Place marker joint above 5630'. Place one positive standoff turbolizer every other joint. Total turbolizers is 34.

C. <u>CEMENTING</u>:

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

- 1. SURFACE: Slurry: 255sx (352 cu ft.) of "Type III" + 2% CaCl₂ + ¼ # of cello-flake/sk (Yield = 1.39 cu.ft./sk, Weight = 14.5 #/gal.). The 125% excess should circulate cement to the surface. WOC 12 hours. Test csg to 1500psi.
- 2. INTERMEDIATE: Lead: 425sx (830 ft³) of "Type III" 65/35 poz + 8% gel + 1% CaCl₂ + ½ # cello-flake/sk (Yield = 2.09 ft³./sk, Weight = 12.1 #/gal.). Tail: 180x (250 ft³) of class "Type III" + 1% CaCl₂ + ½ # cello-flake/sk. (Yield = 1.39 ft³/sk, Weight = 14.5#/gal.). The 100% excess in lead and tail should circulate cement to the surface. Total volume = 1080 ft³. WOC 12 hours. Run a temperature survey after 8 hours if cement is not circulated to the surface. Test csg. to 1500psi.
- 3. PRODUCTION LINER: Scavenger: 30sx of Premium Light HS + 1% FL-52 + .3% CD-32 + 2% KCl (Weight = 11 #/gal). Lead: 70sx (141 ft³) of Premium Light HS + 1% FL-52 + .3% CD-32 + 2% KCl. (Yield = 2.02 cu.ft./sk, Weight = 12.5 #/gal.). Tail: 100 sx (201 ft³) of Premium Light HS + 1% FL-52 + .3% CD-32 + 2% KCl + .25 #/sk Celloflake + 4% Phenoseal. (Yield = 2.02 ft³/sk, Weight = 12.5 #/gal.). Displace cement at a minimum of 8 BPM. The 30% excess in lead and tail should cover liner top. Total volume 342ft³. WOC 12 hours.

Rosa #9B Operations Plan Page #3

IV COMPLETION

A. CBL

1. Run Cement Bond Log across all intervals to be perforated and find Top of Cement behind all casing strings if cement is not circulated to surface.

B. PRESSURE TEST

1. Pressure test 7" & 4-1/2" casing to 3300# for 15 minutes.

C. STIMULATION

- 1. Stimulate with approximately 80,000# of 20/40 sand in slick water.
- 2. Isolate Point Lookout with a DBP.
- 3. Perforate the Menefee/Cliff House as determined from the open hole logs.
- 4. Stimulate with approximately 80,000# of 20/40 sand in slick water.
- 5. Test each zone before removing bridge plugs.

D. RUNNING TUBING

1. <u>Mesa Verde:</u> Run 2-3/8", 4.7#, J-55, EUE tubing with a SN (1.91" ID) on top of bottom joint. Land tubing approximately 25' above the bottom Point Lookout perforation.

John C. Thompson

Engineer