FORM 3160-3 (December 1990) SUBMIT IN TRIPLICATE*

(Other instructions on

Form approved.

reverse side)

Budget Bureau No. 1004-0136

Evnires	December 31	1991

UNITED STATES

	RILLX	DEEPEN	I	R PLUG BACK	7. UNIT AGREEMENT NAME	
		DEELEIN	j		Rosa Unit	
TYPE OF WELL					8. FARM OR LEASE NAME, WELL NO.	
WELL	\mathbf{GAS}_{X}	OTHER	SINGLE ZONE	MULTIPLE ZONE	164 B	
NAME OF OPERATOR					9. API WELL NO.	
	Production	Company, Ll	<u>.C</u>	- T-	30-039-27242	
ADDRESS OF OPERATOR	# 415 E 16		NB (07/602	5051 227 4002	10. FIELD AND POOL OR WILDCAT	
o Walsh Engineering					Blanco Mesa Verde/DK	
LOCATION OF WELL (Report	location clearly and $L \& 1235' F$		y State requirements.*)	AUG 200 3	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA	
_	L & 1233 F	EL		2002	Sec. 1, T31N, R6W	
proposed Prod. Zone 330° FSL	& 1650 HV	VL) Bec. 1, 15111, Row	
					12. COUNTY OR PARISH Rio Arriba 13. STATE NM	
DISTANCE FROM PROPOSED* L OR LEASE LINE, FT. (Also to neare 1235'			16. NO. OF ACRES IN LEAS	61.86	77. NO. OF ACRES ASSIGNED TO THIS WELL 303, 88 White Section DRILLING OPERATIONS AUTHOR	
DISTANCE FROM PROPOSED LO DRILLING, COMPLETED, OR AP	PLIED FOR ON THIS	S LEASE, FT.	19. PROPOSED DEPTH		© ROTARY OR CABLESTIBULECT TO COMPLIANCE WI "GENERAL REQUIREMENTS". Rotary	
ELEVATIONS (Show whether DF, I		n is subject to tecl	nnical and	52	22. APPROX DATE WORK WILL START*	
6317' GR		al pursuant to 43 (CFR 3165.4		July 1, 2002	
	Pl	ROPOSED CASI	NG AND CEMENTING	3 PROGRAM		
SIZE OF HOLE		OF CASING	WEIGHT/FOOT	SETTING DEPTH	QUANTITY OF CEMENT	
14-3/4"	10-3		40.5#	+/- 500'	~626 cu.ft. Type III w/ 2% CaCl 2	Œ
9-7/8"	7-5/	8"	26.4#	+/- 3591'	~1363 cu.ft.65/35 poz & ~586 cu.ft.	Type .
6-3/4"		2"	17.0#]+/- <i>8061'</i>	~458 cu.ft.Prem. Lite HS w/ additive	es

This APD also is serving as an application to obtain BLM road and pipeline right-of-ways. This well will not require any new access road (see Pipeline & Well Plats #3 & #4). The well will be accessed by utilizing an existing road that crosses NE/N/E of section 1, T31N, R6W. SE/SE, NE/SW, SE/NW, NE/NW, NW/NE, NE/NE of section 36, N/2 of section 31 all of T32N, 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 TITLE John C. Thompson, Ageni DATE 5/23/02 SIGNED PERMIT NO. 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 thereone conditions of approval if any David J. Mankiewicz DATE *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

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

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

Fast/West line

AMENDED REPORT

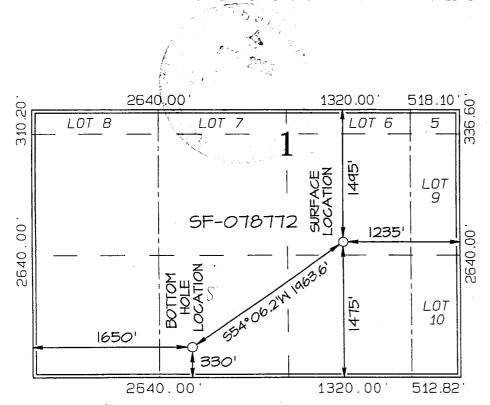
WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number	Pool Cor	de	³Pool Name		
30-039-2	7242 72319 \	71599 BL	BLANCO MESAVERDE \ BASIN DAKOTA		
¹Property Code		¹Property Name		•Well Number	
17033		. 164B			
'OGRID No.		*Operator Name		*Elevation	
120782	WILLI	6317			
		10 Sunface Loca	tion		

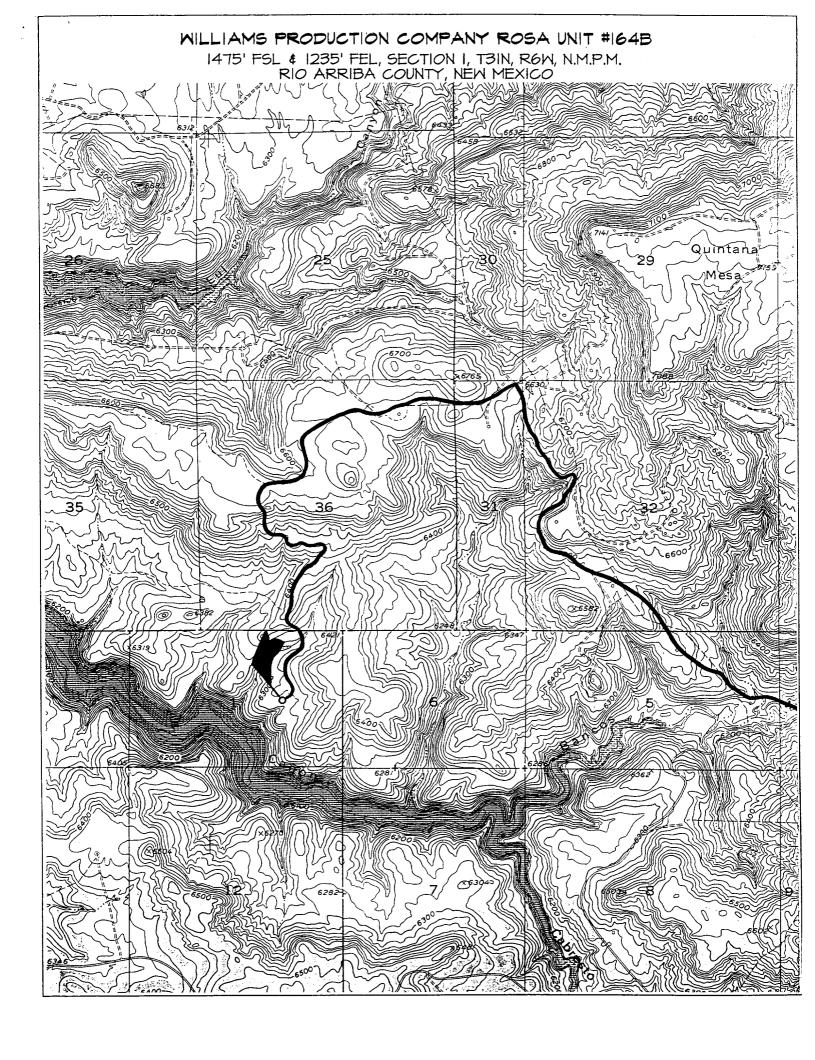
U or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the

J	1	31N	БW		1475	SOUTH	1235	EAST	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
N	1	31N	6W		330	SOUTH	1650	WEST	RIO ARRIBA
12 Dedicated Acres					¹³ Joint or Infill	M Consolidation Code	¹⁵ Order Na.		
303.88	3 Acres	s – Enti	ire Sec	ction					

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:

4/24/2002

WELL NAME:

Rosa Unit 164B

FIELD:

Basin DK/Blanco MV

SURFACE LOCATION:

NW/4 SE/4 Sec. 1- T31N-R6W

SURFACE:

BLM

Rio Arriba, NM

Fed

ELEVATION:

6317' GR

MINERALS:

LEASE#

SF-078772

MEASURED DEPTH:

8662'

I. **GEOLOGY:**

Surface formation - San Jose

A. FORMATION TOPS: (KB)

	<u>TVD</u>	MD		<u>TVD</u>	<u>MD</u>
Ojo Alamo	2344'	2646'	Mancos sh	5889'	6360'
Kirtland sh	2459'	2765'	Gallup ss	6944'	7400'
Fruitland cl	2889'	3286'	Greenhorn ls	7674'	8120'
Pictured Cliffs ss	3119'	3513'	Graneros sh	7734'	8180'
Lewis sh	3424'	3846'	Dakota ss	7869'	8310'
Cliff House ss	5329'	5790'			
Menefee	5374'	5835'			
Point Lookout ss	5589'	6030'	Total Depth	8119'	8662'

- B. LOGGING PROGRAM: DIL from TD to the Intermediate Casing Shoe. DEN/Neutron/GR (selected intervals by on-site Geologist). Subject to change as wellbore conditions dictate.
- C. NATURAL GAUGES: Gauge any noticeable increases in gas flow. Guage well @ 5800' and before TOH for logs @ 7954'. 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. Obtain 100% returns prior to cementing. Notify Engineering of any mud losses.
- B. BOP TESTING: While drill pipe is in use, the pipe rams will be function tested not less than once each day. 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.

C. <u>BIT PROGRAM:</u> Use **Hammer bit** from Intermediate to just above the Greenhorn formation. Replace Hammer bit with **Tricone** bit to drill through the Dakota formation

III. MATERIALS

A. CASING PROGRAM:

CASING TYPE	HOLE SIZE	DEPTH	CASING SIZE	WT. & GRADE
Surface	14-3/4"	+/- 500'	10-3/4"	40.5# K-55
Intermediate	9-7/8"	+/-4537'	7-5/8"	26.4# K-55
Prod. Casing	6-3/4"	+/- 8662'	5-1/2"	17.0# N-80

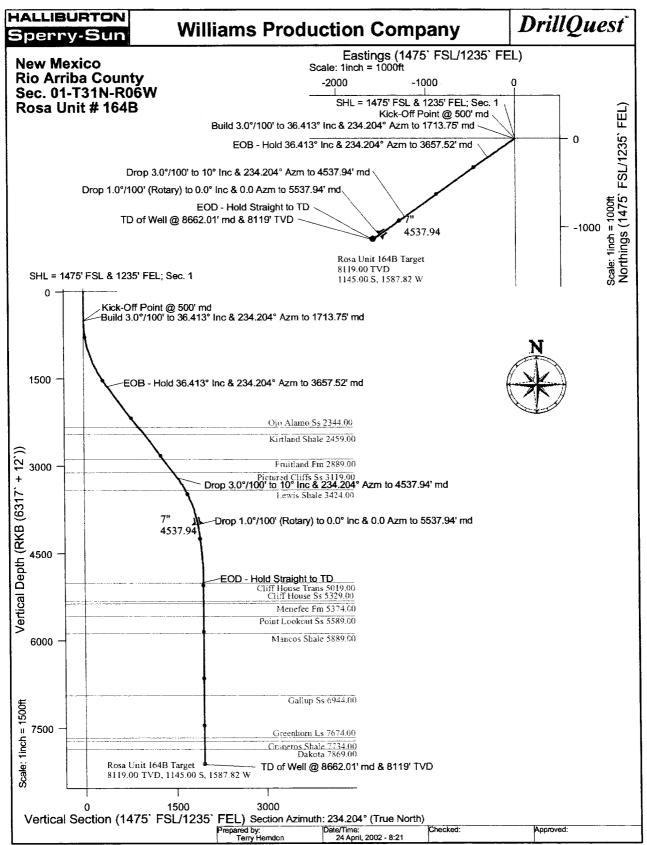
B. FLOAT EQUIPMENT:

- 1. <u>SURFACE CASING:</u> 10-3/4" notched regular pattern guide shoe. Run (1) Standard centralizer on each of the bottom (3) Joints.
- 2. <u>INTERMEDIATE CASING:</u> 7-5/8" 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 1500' to the surface. Total centralizers (5 regular and 13 turbulent).
- 3. PRODUCTION CASING: 5-1/2" whirler type cement nose guide shoe with a latch collar on top of 20' bottom joint. Place 20' marker joint on top of 10 th joint and one above 5100'.

C. CEMENTING:

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

- 1. SURFACE: Use 460sx (626cu.ft.) of class "Type III" with 2% CaCl2 and 1/4# of cello-flake/sk (Yield = 1.39 cu.ft./sk, Weight = 14.5 #/gal.). 125% excess to circulate the surface. WOC 12 hours. Test to 1500#.
- INTERMEDIATE: Lead: 655sx (1363cu.ft.) of class "Premium Lite" 65/35, Type III/Poz with 8% gel and 1/4# cello-flake/sk (Yield = 2.09 cu.ft./sk, Weight = 12.1 #/gal.). Tail: 420sx (586cu.ft.) of class "Type III" with 1/4# cello-flake/sk (Yield = 1.39 cu.ft./sk, Weight = 14.5#/gal.). 100% excess in lead and tail to circulate to surface. Total volume = 1949 cu.ft. WOC 12 hours. Run a temperature survey after 8 hours if cement is not circulated.
- 3. PRODUCTION CASING: 30 sks Scavenger of Premium Light HS + 1% FL-52 + .3% CD-32 + 2% KCl + .25 #/sk Celloflake + 4% Phenoseal + .2% R3. (Weight = 11 #/gal.). Cement Slurry: 230 sx (458ft³) of Premium Light HS + 1% FL-52 + .3% CD-32 + 2% KCl .25 #/sk Celloflake + 4% Phenoseal + .2% R3. (Yield = 2.02 ft³/sk, Weight = 12.5 #/gal.). Displace cement at a minimum of 8 BPM. Use 30% excess in calculation to raise cement 100° into intermediate casing. Total volume 458ft³. WOC 12 hours.



Williams Production Company, LLC

Well Control Equipment Schematic for 2M Service

Attachment to Drilling Technical Program

Typical BOP setup

