FORM 3160-3 (December 1990) SUBMIT IN TRIPLICATE® (Other instructions on Form approved.

reverse side)

Budget Bureau No. 1004-0136 Expires December 31, 1991

UNITED STATES
DEPARTMENT OF THE INTERIOR
DUDEAU OF LAND MANAGEMENT

3r-0/0/00
IF INDIAN ALLOTTEE OR TRIBE NAM

5. LEASE DESIGNATION AND SERIAL NO.

BUR	EAU OF LAND MANA	GEMENI		31-078700			
ADDI ICATION E	OR PERMIT TO DRII	I DEEDEN O	R PLUG BACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME			
Ja. TYPE OF WORK DRIL			KT LOG BAGK	7. UNIT AGREEMENT NAME	<del></del>		
16 TYPE OF WELL	Rosa Unit						
	8. FARM OR LEASE NAME, WELL NO.						
OIL G.	AS TOTHER	SINGLE ZONE	MULTIPLE ZONE	163 C			
2. NAME OF OPERATOR				9. API WELL NO.			
- Williams Pi	roduction Company, Ll	CC		30-039-26961			
3 ADDRESS OF OPERATOR							
c/o Walsh Engineering 7	Blanco Mesa Verde	/DK					
4. LOCATION OF WELL (Report loca	ation clearly and in accordance with an	y State requirements.*)		11. SEC., T., R., M., OR BLK.			
At Surface 1760' FN	IL and 1735' FEL			AND SURVEY OR AREA	. <del>.</del> *		
At proposed Prod. Zone		1		G Sec. 25, T31N, R6W	V		
14 DISTANCE IN MILES AND DIRECTION 26 miles N	ON FROM NEAREST TOWN OR POST OF Blanco, NM	OFFICE*		12. COUNTY OR PARISH Rio Arriba	13. STATE NM		
15. DISTANCE FROM PROPOSED® LOCA	ATION TO NEAREST PROPERTY	16. NO. OF ACRES IN LEASI	E 1	NO. OF ACRES ASSIGNED TO THIS WELL			
OR LEASE LINE, FT (Also to nearest de 1735'	320 272,16 N/	<u>ک</u>					
18 DISTANCE FROM PROPOSED LOCA	TION* TO NEAREST WELL,	19. PROPOSED DEPTH		ROTARY OR CABLE TOOLS			
DRILLING, COMPLETED, OR APPLIE		echoical and 813	DRILLING	OPERATIONS AUTHORIZED	) ARE		
	his action is subject to t	pointious aria		TO COMPLIANCE WITH AT	TACHED		
21 ELEVATIONS (Show whether DF, RTD	ncespural review pursual nd appeal pursuant to 4	3 CFR 3165.4.	S. GENERA	AL APPENDENT April 30, 2002			
23.	PROPOSED CASIN	G AND CEMENTING	PROGRAM				
SIZE OF HOLE	SIZE OF CASING	WEIGHT/FOOT	SETTING DEPTH	QUANTITY OF CEMEN			
14-3/4"	10-3/4"	<i>32.75</i> #	+/- 250'	~313 cu.ft. Type III w/ 2% C			
9-7/8"	7-5/8"	26.4#	+/- 3687'	~1256 cu.ft.65/35 poz & ~3.	59 cu.ft.Type		
6-3/4"	5-1/2"	17.0#	+/- 8156'	~450 cu.ft.Prem. Lite HS w/	' additives		
				•			

Williams Production Company proposes to drill a vertical well to develop the Mesa Verde and Dakota formations 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 not require any new access road (see Pipeline & Well Plats #3 & #4). The well will be accessed by utilizing an existing road that runs in the through the SW/NE of section 25, T31N, R6W where it joins the main "Rosa Road".

Wu ( ) / we	TITLE J	ohn C. Thompson, Agent date	3/20/02
ral or State office use)	APPROVAL DATE	4/24/	(u L
l does not warrant or certify that the applicant holds legal		he subject lease which would entitle the applicant to conduct	operations thereon.
	,	$\alpha \in \mathcal{M}$	11/211/02
PAPPROVAL IF ANY:  A David J. Mankiewicz	See Instructions C	DFM DATE	4/24/02

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, Antesia, NM 88211-0719

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

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

"API Number

12 Dedicated Acres

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe. NM 87504-2088 Form C-112 Revised February 21, 1994 Instructions on beak it to Appropriate District Office

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

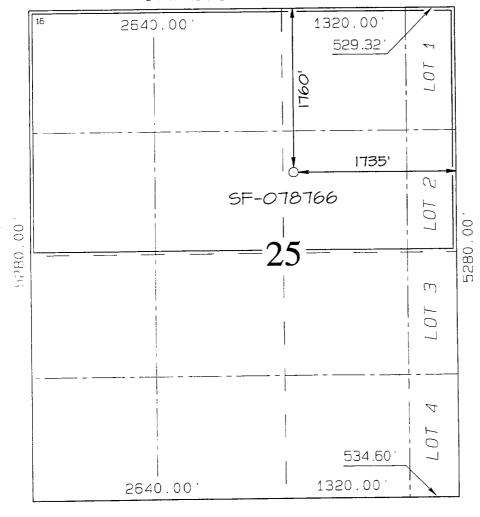
30.03	9-20	_	72	319 / 7	1599	Blanco M	lesaverde /	Basin Dako	ta	
Property 1703	Code	<del>+ 1 + 1</del>			*Property ROSA (			5 W	ell Number 1658	
OGRID No. 120782				WILLI		*Operator Name MS PRODUCTION COMPANY			'Elevation 6399	
					<sup>10</sup> Surface	Location				
UL or lot no.	Section 25	Township 31N	Range 6 W	Lat Idn	Feet from the	North/South line	Feet from the 1735	East/West line EAST	County RIO ARRIBA	
		11 🖯	ottom	Hole L	ocation I	f Different	From Surf	ace		
UL or lot no.	Sect 100	Township	Range	Lat Idn	Feet from the	North/South line	Feet from the	East/West line	County	

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

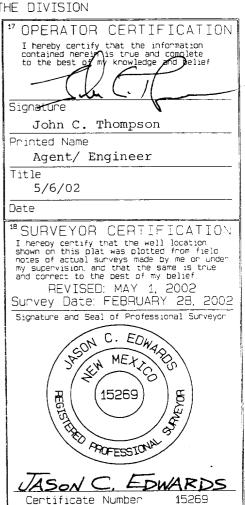
<sup>14</sup> Consolidation Code

<sup>15</sup> Order No.

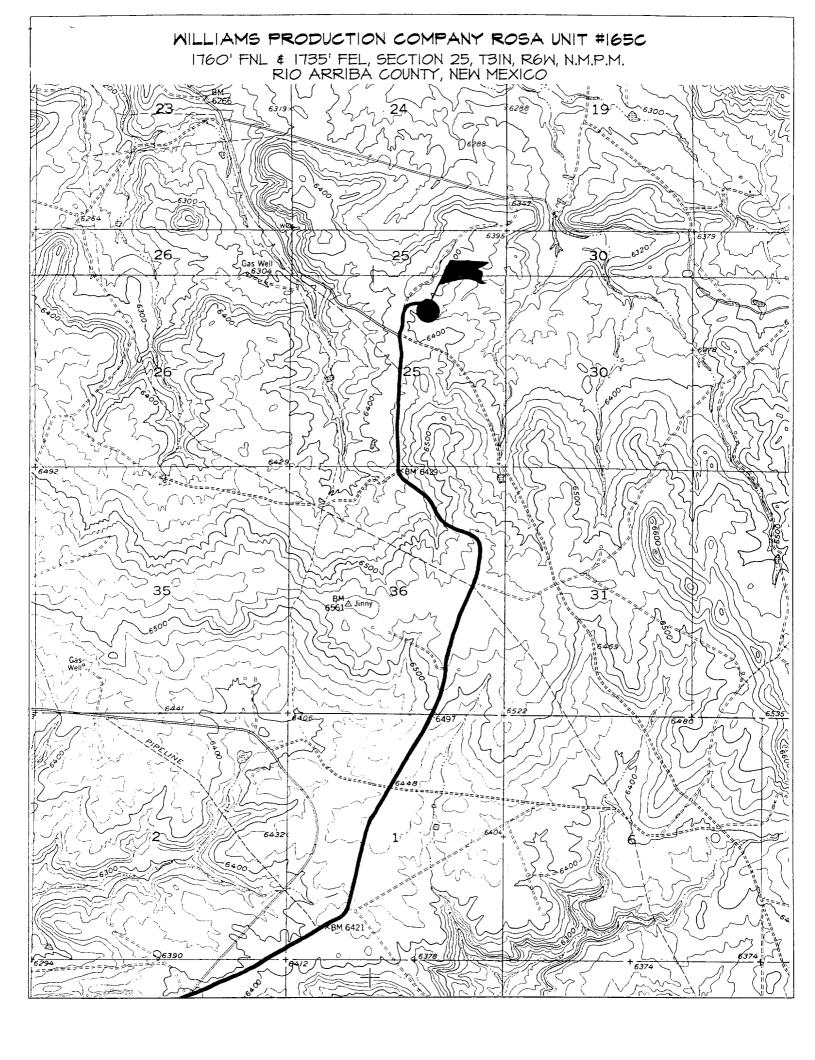
13 Joint or Infill



272.16 Acres - N/2



2046A





#### WILLIAMS PRODUCTION COMPANY

#### **OPERATIONS PLAN**

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

DATE: 3/18/2002

**WELL NAME:** Rosa Unit 165C FIELD: Basin Blanco MV/DK

**SURFACE LOCATION:** SW/4 NE/4 Sec. 25-T31N-R6W **SURFACE: BLM** 

Rio Arriba, NM

**ELEVATION:** 6399' GR **MINERALS:** BLM

LEASE #

SF-078766

**MEASURED DEPTH:** 8156'

I. **GEOLOGY**: Surface formation - San Jose

A. FORMATION TOPS: (KB)

	<u>MD</u>		<u>MD</u>
Ojo Alamo	2531'	Mancos sh	6056
Kirtland sh	2651'	Gallup ss	7016'
Fruitland cl	3026'	Greenhorn Is	7726
Pictured Cliffs ss	3286'	Graneros sh	7781
Lewis sh	3576'	Dakota ss	7906
Cliff House ss	5466'		7,00
Menefee	5511'		
Point Lookout ss	5721'	Total Depth	8156

- B. LOGGING PROGRAM: DIL from TD to the Intermediate Casing Shoe. CNL/FDC intervals 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. Guage well @ 5800' and before TOH for logs. 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 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	<b>HOLE SIZE</b>	<u>DEPTH</u>	CASING SIZE	WT. & GRADE
Surface	14-3/4"	+/- 250'	10-3/4"	32.75# H-40
Intermediate	9-7/8"	+/-3687'	7-5/8"	26.4# K-55
Prod. Casing	6-3/4"	+/- 8156'	5-1/2"	17.0# N- <b>8</b> 0

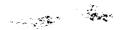
#### **B. FLOAT EQUIPMENT:**

- 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 230sx (313cu.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#.
- 2. INTERMEDIATE: Lead: 600sx (1256cu.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: 260sx (359cu.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 = 1615 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 + .3% R3. (Weight = 11 #/gal.). Cement Slurry: 225 sx (450 ft³) of Premium Light HS + 1% FL-52 + .3% CD-32 + 2% KCl + .25 #/sk Celloflake + 4% Phenoseal + .1% R3. (Yield = 1.99 ft³/sk, Weight = 12.5 #/gal.). Displace cement at a minimum of 8 BPM. Use 20% excess in calculation to raise cement 100' into intermediate casing. Total volume 450 ft³. WOC 12 hours.



# Williams Production Company, LLC

## Well Control Equipment Schematic for 2M Service

Attachment to Drilling Technical Program

### Typical BOP setup

