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

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-101
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 6 Copies
Fee Lease - 5 Copies

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

District IV				Sant	a re, NM	8/304-2088	5			Fee	e Lease - 5 Copi	
PO Box 2088, Sa	ınta Fc, NM	87504-2	088							JAME	NDED REPORT	
APPLICA	TION	FOR	PERMIT	TO DR	ILL, RE-EN	NTER, DE	EPE	N, PLUGB	ACK,	OR A	DD A ZONI	
Operator Name and Address.									¹ OGRID Number			
WILLIAMS PRODUCTION COMPANY									120	0782		
			gr. & Pr							API Number		
	415 E.	Main	· · · · · · · · · · · · · · · · · · ·	Farmin	gton, New		8740)2		30-039-25580		
'Property Code 008480 Rosa Unit //0.33						Property Name					' Well No. 26A	
	,				⁷ Surface	Location						
UL or lot no.	Section	Towns	ship Range	Lot Idn	Feet from the	North/South	line	Feet from the	East/V	Vest line	County	
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13 3/4			LO 3/4	32.	75 H-40	_300	320	200		S	urface	
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6 3/4			5 1/2	17.0	08- K C	8182		335 & 100		3670		
						2-7				 - - - - - - - - - 		
												
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									IE()	2 S	VED	
²⁸ I hereby certify of my knowledge	that the info and belief.	ormation (giyen above is t	ruc and compi	cie to the best	OII	L CC	NSER VA	NOT		PDIV.	
faul C. Thompso						Approved by: Envir Bush 5-24-96						
	Paul C	. The	mpson		Ti	DEPUTY	OIL 8	GAS INSPECT				
Tide: Agent						pproval Muly	2	4 1996 E	xpiration	MAY	2 4 1997	
Date: 3/19	/96		- Phone:	(505) 32	7-4892 I I	onditions of Appro	oval .					

District I PO Box 1980, Hobbs, NM \$8241-1980 District II PO Drawer DD, Artonia, NM 88211-0719 District III

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088

Form C-1 Revised February 21, 19

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District IV	KG., ARCC,	. NM #7410			Santa Fe,	NM	87504-2088		·	Fee Lease - 3 C	
PO Box 2003, Sa	ola Fc, NM	87504-2088								MENDED REP	
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API Number				* Pool Code 72319			Blanco M	'Pool N esa Verde	# tine	·	
Property	<i>939-2</i> Code	5580					Name				
008480		-	_		Rosa					* Well Number 26A	
'OGRID			· · · · · ·				Name		Elevation		
120782				W		6495'					
					10 Sur	face	Location				
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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 Fc, NM 87504-2088

State of New Mexico Energy, Minerals & Natural Rosources Department

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

Form C-10 Revised February 21, 199 Instructions on bac Submit to Appropriate District Offi

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AMENDED REPOR

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number		¹ Pool Code 71599			³ Pool Name					
	039-2	5580				Basin Da	akota			
1 Property Code				•	Property	Name			* Well Number	
008480 17033			-	Ros	a Un	it			26A	
OGRID	No.				Operator	r Name		Elevation		
120782		i		William	s Pr	oduction Co			6495'	
		¹⁰ Surface Location								
UL or lot no.	Section	Towaship	Range	Lot Idn Feet fr	om the	North/South line	Feet from the	East/West	line	County
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WILLIAMS PRODUCTION COMPANY OPERATIONS PLAN

DATE:

2/1/96 (revised 3/8/96)

WELLNAME:

ROSA UNIT #26A

San Juan Co., NM

FIELD:

Blanco MV/ Basin DK

LOCATION:

SW/4 SE/4 Sec. 32, T31N, R5W

SURFACE:

State of NM

ELEVATION:

6495' GR

MINERALS:

State

TOTAL DEPTH:

8182'

LEASE#

E-347

I. **GEOLOGY**:

Surface formation - San Jose

A. FORMATION TOPS:

Ojo Alamo	2617'	Point Lookout	5757'
Kirtland	2772'	Mancos	5922'
Fruitland	3137'	Gallup	6487'
Pictured Cliffs	3352'	Greenhorn	7767'
Lewis	3622'	Graneros	78221
Cliff House	5492'	Dakota	7932'
Menefee	5547'	Total Depth	8182'

- B. <u>LOGGING PROGRAM</u>: IND/GR, CDL/SNL. Log the Dakota from 8182' to 300' above the top of the Greenhorn and the Mesa Vede from 6000' to 300' above the Cliff House.
- C. NATURAL GAUGES: Gauge any noticeable increases in gas flow. Gauge well @ 6000' and before TOH for logs @ 8182'. Record all gauges in Tour book and on morning reports.

II. DRILLING

- A. MUD PROGRAM: Included in footage bid.
- B. <u>BOP TESTING</u>: While drill pipe is in use, the pipe rams will be tested not less than once each day. The blind rams will be tested once each trip. The drum brakes will 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	DEPTH	CASING SIZE	WT. & GRADE
Surface -	13-3/4"	300'	10-3/4"	32.75# H-40
Intermediate	9-7/8*	3770'	7-5/8"	26.4# K-55
Production	6-3/4"	8182'	5-1/2 "	17.0# N-80

B. FLOAT EOUIPMENT:

- 1. SURFACE CASING: 10-3/4" notched regular pattern guide shoe.
- 2. INTERMEDIATE CASING: 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 2617' to the surface. Total centralizers: 5 regular and 19 turbulent.
- 3. <u>PRODUCTION CASING:</u> 5-1/2" whirler type cement nose guide shoe with a latch collar on top of 20' joint. Place 20' marker joint on top of 10th joint and one above 5492'.

C. <u>CEMENTING</u>:

- 1. <u>SURFACE</u>: Use 200 sx (240cu.ft.) of class "B" with 3% CaCl2 and 1/4# of cello-flake/sk (Yield = 1.19 cu.ft./sk, Weight = 15.6 #/gal.). Use 100% excess to circulate the surface. WOC 12 hours. Test to 1500#.
- 2. INTERMEDIATE: Lead 620 sx (1288 cu.ft.) of class "B" 65/35 poz with 8%gel and 1/4# cello-flake/sk (Yield = 2.1 cu.ft./sk, Weight = 12.1 #/gal.). Tail 210 sx (249 cu.ft.) of class "B", 1/4# cello-flake/sk and 2% CaCl2 (Yield = 1.20 cu.ft./sk, Weight = 15.6#/gal.). Use 100% excess in Lead and 75% in tail to circulate to surface. Total volume = 1537 cu.ft. WOC 12 hours. Run a temperature survey after 8 hours if cement is not circulated. Test to 1500#.
- 3. PRODUCTION CASING: Use 335 sx (452 cu.ft.) of class "B" 50/50 poz with 4% gel, 6-1/4# fine gilsonite/sk and 0.5% CF-14 (Yield = 1.35 cu.ft./sk, Weight = 13.4 #/gal.). Tail 100sx (150 cu.ft) of class "H" with 35% silica flour, 1/4# cello-flake/sk, 1.8% FL-62 and 0.2% A-2 (Yield = 1.50 cf/sk, Weight 15.9 #/gal). Displace cement at a minimum of 10 BPM. Use 60% excess in lead and tail to circulate 100' into intermediate casing. Total volume = 602 cu ft. WOC 12 hours. Run a temperature survey after 8 hours to determine TOC behind 5-1/2" casing.

IV COMPLETION

A. CBL

1. Run Cement Bond Log across all intervals to be perforated and find Top of Cement behind all casing strings.

B. PRESSURE TEST

1. Pressure test 7-5/8 to 3300# & 5-1/2" casing to 6000# for 15 minutes.

C. STIMULATION

- 1. Stimulate Dakota with approximately 100,000# of 20/40 sand in x-link foam.
- 2. Isolate Dakota with a RBP...
- 3. Stimulate Point Lookout with approximately 100,000# of 20140 sand in slick water.
- 4. Isolate Point Lookout with a RBP.
- 5. Perforate the Menefee/Cliff House as determined from the open hole logs.
- 6. Stimulate with approximately 80,000# of 20/40 sand in slick water.
- 7. Test each zone before removing bridge plugs.

D. RUNNING TUBING

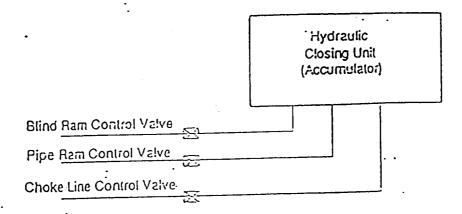
- 1. <u>Dakota</u>: Run 1-1/2", 2.9#, J-55 EUE tubing with 1/2 mule shoe on bottom, SN with pump-out plug on top of adeem joint and 5 Seal Units. Land tubing approximately 100' below top Dakota perf.
- 1. <u>Mesa Verde:</u> Run 1-1/4", 2.3#, J-55, IJ tubing with a bull plugged perforated nipple on bottom and a SN with pump-out plug on top of bottom joint. Land tubing approximately 25' above the bottom Point Lookout perforation.

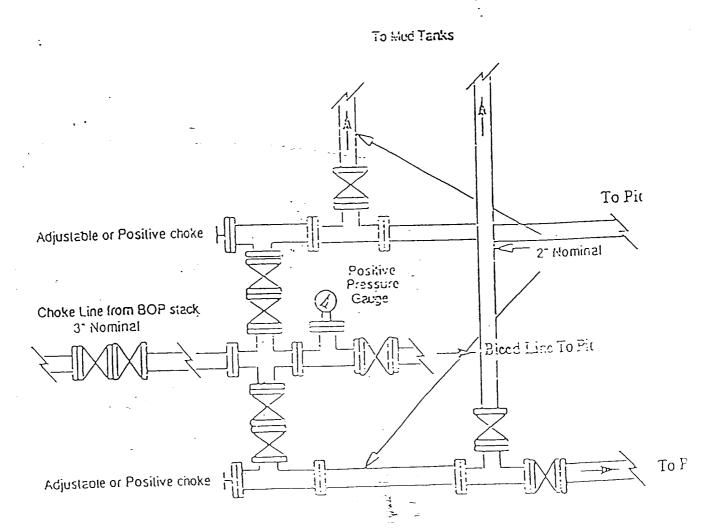
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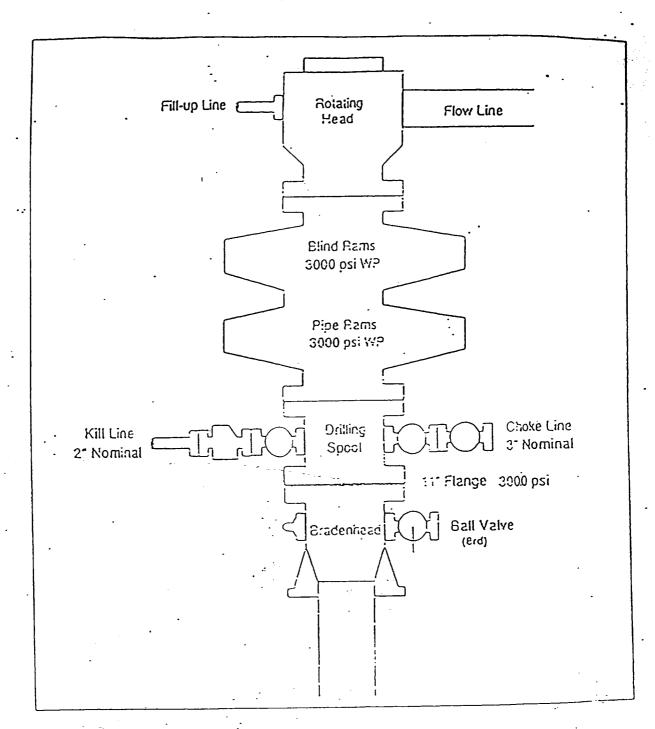
Engineer, Production & Drilling

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Choke Manifold & Accumulator Schematic







All ram type preventers and related equipment will be hydraulically tested at nipple-up and after any use under pressure to 1500 psi. The blind rams will be hydraulically activated and checked for operational readiness each time pipe is pulled out of the hole. All checks of the BOP stack and equipment will be noted on the daily drilling report. The BOP equipment will include a ke cock with handle, floor safety valve with change overs for each tool joint in the string, and choke manifold all rated to 3000 psi.

