District 1 PO Box 1980, Hobbs, NM 88241-1980 District []

PO Drawer DD, Artesia, NM 88211-0719 1000 Rio Brazos Rd., Aztec, NM \$7410

District IV

State of New Mexico
Energy, Minerals & Natural Resources Department

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

Form C-101 Revised February 10, 1994 Instructions on back Submit to Appropriate District Office State Lease - 6 Copies

Fee Lease - 5 Copies

APPLICA	TION	FOR PE	KMIT '	TO DRI	LL. RE-EN	TER, DE	EPE	N, PLUGB	ACK,	OR AI	DD A ZON	
APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK Operator Name and Address.										<sup>1</sup> OGRID Number		
WILI	PRODUCT	ION CO	MPANY						120782			
c/o Walsh Engr. & Prod. Corp											PI Number	
7415	7415 E. Main Farmington, New Mexic						co 87402				15-29592	
•	* Property Code			<del></del>	' P	roperty Name		<u>-</u>		<u> </u>	' Well No.	
170			F	Rosa Unit	=					150A		
					<sup>7</sup> Surface	Location						
UL or lot mo.	Section	Township	Range	Lot Ida	Feet from the	North/South fine Fee		Feet from the	East/West Ease Com		County	
M	32	32N	6 <b>W</b>		1120	South		1025	W	lest	San Juan	
	h	8 Pr	oposed	Bottom	Hole Locati	ion If Diff	eren	t From Surf	face		<u> </u>	
UL or lot so.	Section	Township	Range	Lot Ida	Feet from the	North/South		Feet from the		est line	County	
		<u></u>			<u> </u>						<u> </u>	
72 Blar	2 <i>319</i> nco Me:	'Propos sa Verdo	e W/	320				" Propos	ed Pool 2	· · · · · ·	-	
" W 1 T	See Cada	<del></del>	1 W 1 T-	- C-45	13 Cabla	M-4	<del></del>	14 T Turn C.	<u> </u>	u C	4.5 4.57	
Work 1	" Work Type Code		<sup>12</sup> Well Type Code G		13 Cable/Rotary			14 Lease Type Code		" Ground Level Elevation		
" Mu		<del></del>		Death	R If Formacion			S "Contractor		6271'		
No.	•		" Proposed Depth 5775"		Manc		Rio	Big A Rig 47			* Spud Date June 1998	
					ļ <sub></sub>					- U u.i.c	1990	
				Propose	ed Casing ar	nd Cement	PTC	gram				
Hala Ci	- 1	Casia			<del></del>					<del>, , , , , , , , , , , , , , , , , , , </del>	1700	
Hole Su			nt 2015	Casin	ng weight/foot	Setting D		Sacks of	Cement	<del>- i</del>	Estimated TOC	
12 1/4	4	9 5	nt 2015	Casia	6#	Setting D		Secks of	0	St	ırface	
12 1/4 8 3/4	4	9 5 7	i <b>y Size</b> 5/8	30 20	ne weight/look 6# 0#	250 3420	epth	385 + 1	0 10	St	rface rface	
12 1/4	4	9 5	i <b>y Size</b> 5/8	Casia	ne weight/look 6# 0#	Setting D	epth	Secks of	0 10	St	ırface	
12 1/4 8 3/4	4	9 5 7	i <b>y Size</b> 5/8	30 20	ne weight/look 6# 0#	250 3420	epth	385 + 1	0 10	St	rface rface	
12 1/4 8 3/4 6 1/4	4 4 4	9 5 7 4 1	ng Sine 5/8 _/2	20 10.	Mg weight/fool 6# 0# 5#	Setting D 250 3420 3320 - 5	775	385 + 1	0 10 0	St St	arface arface 3320	
12 1/4 8 3/4 6 1/4	4 4 4 proposed pr	9 5 7 4 1	ng Stax i/8 ./2	Casin 3( 2) 10.	ne weight/look 6# 0#	Setting D 250 3420 3320 - 5	775	385 + 1	0 10 0	St St	arface arface 3320	
12 1/4 8 3/4 6 1/4 Describe the page. Describe to	4 4 4 proposed pr	9 5 7 4 1 ogram. If the	ng Size i/8  //2  is application program, if	Casin 30 20 10.	Me weight/foot  6#  0#  5#  PEN or PLUG BAG  dictional sheets if a	Setting Do 250 3420 3320 - 5  CK give the data occurry.	775	Sects of  13 385 + 1 23 e present productive	0 10 0	St St	arface arface 3320	
12 1/4 8 3/4 6 1/4 Describe the passe. Describe	4 4 4 proposed pr the blower ms Pro	9 5 7 4 1 cogram. If the translation is duction	is application program, if	Casin 36 20 10.  10.  Des is to DEE! any. Use ad	Me weight/foot  6#  0#  5#  PEN or PLUG BAC  Iditional sheets if a	Setting Do 250 3420 3320 - 5  CK give the data eccurary.	775	Sacks of  13 385 + 1 23 c present productivitical well	0 10 0	St St	arface arface 3320	
12 1/4 8 3/4 6 1/4 Describe the process. Describe William descril	4 4 4 proposed protective blowers ms Pro	9 5 7 4 1 cogram. If the translation is duction	is application program, if	Casin 30 20 10.	Me weight/foot  6#  0#  5#  PEN or PLUG BAG  dictional sheets if a	Setting Do 250 3420 3320 - 5  CK give the data eccurary.	775	Sacks of  13 385 + 1 23 c present productivitical well	0 10 0	St St	arface arface 3320	
12 1/4 8 3/4 6 1/4 Describe the process. Describe William descril	4 4 4 proposed protective blowers ms Pro	9 5 7 4 1 cogram. If the temperature is discretion	is application program, if	Casin 30 20 10.	Me weight/foot  6#  0#  5#  PEN or PLUG BAC  Iditional sheets if a	Setting Do 250 3420 3320 - 5  CK give the data eccurary.	775	Sacks of  13 385 + 1 23 c present productivitical well	0 10 0	St St	arface arface 3320	
12 1/4 8 3/4 6 1/4 Describe the process. Describe William descril	4 4 4 proposed protective blowers ms Pro	9 5 7 4 1 cogram. If the temperature is discretion	is application program, if	Casin 30 20 10.	PEN or PLUC BACK  Additional sheets if a  POSES to d  Mesa Verde	Setting D 250 3420 3320 - 5 CK dive the data CK dive the data	775	Sacks of  13 385 + 1 23 c present productivitical well	0 10 0	St S	arface arface 3320 Ascw prodective	
12 1/4 8 3/4 6 1/4 Describe the proper Describe the proper William descril	4 4 4 proposed protective blowers ms Pro	9 5 7 4 1 cogram. If the temperature is discretion	is application program, if	Casin 30 20 10.	PEN or PLUC BACK  Additional sheets if a  POSES to d  Mesa Verde	Setting Do 250 3420 3320 - 5  CK give the data eccurary.	775	Sacks of  13 385 + 1 23 c present productivitical well	0 10 0	St St	arface arface 3320 Ascw prodective	
12 1/4 8 3/4 6 1/4 Describe the process. Describe William descril	4 4 4 proposed protective blowers ms Pro	9 5 7 4 1 cogram. If the temperature is discretion	is application program, if	Casin 30 20 10.	PEN or PLUC BACK  Additional sheets if a  POSES to d  Mesa Verde	Setting D 250 3420 3320 - 5 CK dive the data CK dive the data	775	Sacks of  13 385 + 1 23 c present productivitical well	0 10 0	St S	arface arface 3320 Acceptodeding 7e 3 1998	
12 1/4 8 3/4 6 1/4  Describe the proper described the proper d	4 4 4 more proposed per the blowest ms Probed loed ope	9 5 7 4 1 regram. If the temperature of the tempera	is application program, if a Compato test plan.	10.	MAY - 7	250 3420 3320 - 5  CK give the data  CK give the	775	Sacts of  13 385 + 1 23 c procest productivitical well in accorda	at the local state of the local	si	arface arface 3320 Acceptodeding 7e 3 1998	
12 1/4 8 3/4 6 1/4 Describe the passe. Describe William describ	4 4 4 more proposed per the blowest ms Probed loed ope	9 5 7 4 1 regram. If the temperature of the tempera	is application program, if a Compato test plan.	10.	MAY - 7	250 3420 3320 - 5  CK give the data  CK give the	775	Sacks of  13 385 + 1 23 c present productivitical well	at the local state of the local	si	arface arface 3320 Acceptodeding 7e 3 1998	
12 1/4 8 3/4 6 1/4  Describe the passe. Describe William describ attache "I bereby cerufy of my knowledge Segnature: Take	4 4 4 more proposed per the blowest ms Probed loed ope	9 5 7 4 1 regram. If the temperature of the tempera	is application program, if a Compato test plan.	10.	PEN or PLUC BACK  MAY - 7  MAY - 7	Setting D 250 3420 3320 - 5 CK give the data CK give the data CK give the data Printle A v Formati VED	775	Sacts of  13 385 + 1 23 c procest productivitical well in accorda	at the local state of the local	si	arface arface 3320 Acceptodeding 7e 3 1998	
Describe the process Describe to William describe attached	4 4 4 4 broposed proposed proposed proposed loed loed ope	9 5 7 4 1 cogram. If the trevention production exactions	is application program, if a Compart to test plan.	10.	MAY - 7	Setting D 250 3420 3320 - 5 CK give the data CK give the data CK give the data Printle A v Formati VED	775	Sacts of  13 385 + 1 23 c procest productivitical well in accorda	at the local state of the local	si	arface arface 3320 Acceptodeding 7e 3 1998	
12 1/4 8 3/4 6 1/4 Describe the process. Describe the process. Describe the process of the proce	4 4 4 4 broposed proposed proposed proposed loed loed ope	9 5 7 4 1 ogram. If the temperature production exactions	is application program, if a Compart to test plan.	10.	PEN or PLUC BACK  MAY - 7  CONTO	Setting D 250 3420 3320 - 5 CK give the data CK give the data CK give the data Printle A v Formati VED	775	Sacts of  13  385 + 1  23  e present productivitical well in accorda  ONSERVAT	at the local state of the local	si	arface arface 3320 Acceptodeding 7e 3 1998	

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

'API Number

District IV PO Box 2088, Santa Fe, NM 87504-2088 State of New Mexico
Energy, Minerals & Natural Resources Departm

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

Pool Name

AMENDED REPORT

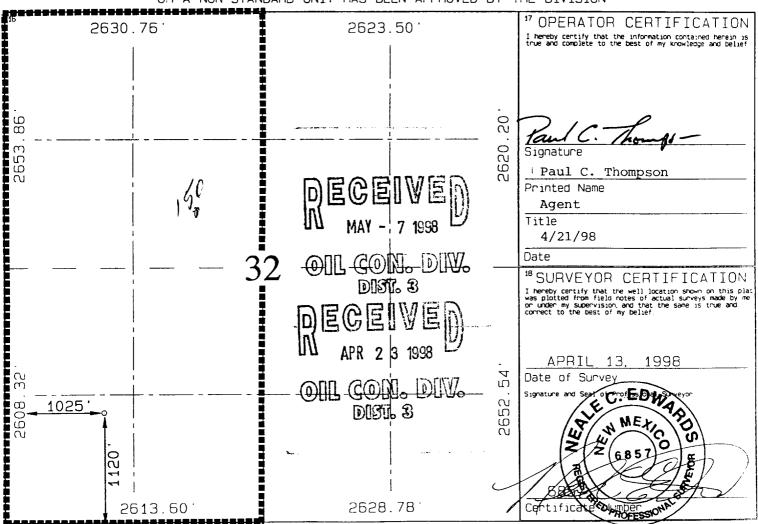
# WELL LOCATION AND ACREAGE DEDICATION PLAT

				72319		Blanco	Mesa Verde	e	
*Property Code *Property Name					*Well Number				
17033	3	ROSA UNIT						150A	
'OGRID No.			*Operator Name						Elevation
120782			WILLIAMS PRODUCTION COMPANY						6271
				1	<sup>10</sup> Surface	Location		······································	
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	1 20	2011		1	4.400	COUTU	4005	UEGE	1044

Pool Code

6W WEST 32N SOUTH 1025 SAN JUAN М 35 1120 <sup>11</sup>Bottom Hole Location Different From Surface UL or lot no. North/South line Feet from the Section Township Lot Idn Feet from the East/West line County 12 Dedicated Acres 13 Joint or Infill 14 Consolidation Code 15 Order No. 320 Y U

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

**DATE:** 

3/24/98

**WELLNAME:** 

**ROSA #150A** 

San Juan, NM

FIELD:

Blanco MV

**LOCATION:** 

NW/4 SW/4 Sec. 32, T32N, R6W

SURFACE:

State

**ELEVATION:** 

627**3** GR

**MINERALS:** 

State

**TOTAL DEPTH:** 

5775'

I. GEOLOGY:

Surface formation - San Jose

# A. FORMATION TOPS: (KB)

Ojo Alamo	2140'	Cliff House	4895'
Kirtland	2245'	Menefee	5275'
Fruitland	2775'	Point Lookout	5475'
Pictured Cliffs	2990'	Mancos	5610'
Lewis	32 <b>70</b> '	Total Depth	5775'

**B.** <u>LOGGING PROGRAM:</u> IND/GR, CDL/SNL. Log the Mesa Verde from TD to 500' above the Cliff House.

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. LSND to log and run pipe. Treat for lost circulation as necessary. Expect 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 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	<b>HOLE SIZE</b>	<u>DEPTH</u>	<b>CASING SIZE</b>	WT. & GRADE
Surface	12-1/4"	250'	9-5/8"	36# K-55
Intermediate	8-3/4"	3420'	7"	20# K-55
Prod. Liner	6-1/4"	3320'-5775'	4-1/2"	10.5# 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 20/40' to the surface. Total centralizers = 5 regular and 17 turbulent.

3. <u>PRODUCTION CASING</u>: 4-1/2" whirler type cement nose guide shoe with a latch collar on top of 20" bottom joint. Place marker joint above 4895'.

### C. <u>CEMENTING:</u>

- 1. <u>SURFACE</u>: Use <u>130 sx</u> (157 cu.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 <u>circulate the surface</u>. WOC 12 hours. Test to 1500#.
- 2. <u>INTERMEDIATE</u>: Lead 385<u>sx</u> (804 cu.ft.)of class "B" 65/35 poz with 10% gel and 1/4# cello-flake/sk (Yield = 2.1 cu.ft./sk, Weight = 12.1 #/gal.). Tail 110sx (195 cu.ft.) of class "B" with 4% gel, 1/4# cello-flake/sk, 0.5% FL-25 and 2% CaCl2 (Yield = 1.74 cu.ft./sk, Weight = 13.5#/gal.). Use 100% excess in lead and 75% excess in tail to <u>circulate to surface</u>. Total volume = 999 cu.ft. WOC 12 hours. Run a temperature survey after 8 hours if cement is not circulated. Test to 1500#.
- 3. <u>PRODUCTION LINER</u>: 230sx (403 cu.ft.) of class "B" with 4 % gel, 1/4# cello-flake/sk, 0.5% FL-25 and 2 % CaCl2 (Yield = 1.74 cu.ft./sk, Weight = 13.5 #/gal.) Displace cement at a minimum of 8 BPM. Use 60% excess in lead and tail to cover liner top. Total volume 416 cuft. WOC 12 hours. Run a temperature survey after 8 hours if liner top is not circulated.

#### 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" & 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 RBP.
- 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", 2.9#, J-55, EUE tubing with a SN (1.375" ID) on top of bottom joint. Land tubing approximately 50' above the bottom Point Lookout perforations.

Lance Hobbs

Engineer, Production & Drilling

