District I PO Box 1980, Hobbs, NM 88241-1980 District [

PO Drawer DD, Artesia, NM \$8211-0719 District III

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088

Form C-101 Revised February 10, 1994 Instructions on back

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istrict IV O Box 2068, San	a Fe, NM i	17504-20 68			ţ.	فالمصابح فالهواء وللداعوا المرااد	and the second s	and a service of the second service services of		AMEN	DED REPORT
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008480)	F	ROSA UI	TIV			M. S				150
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UL or lot me.	Section	Township	Range	Lot Ida	Feet from the	North/South	ine F	est from the	East/V	Vest Lac	County
F	32	32N	6W		1575	North		1620	Wes	t <u> </u>	SJ
		⁸ Pr	oposed	Bottom	Hole Locat	ion If Diff	erent	From Sur	face		
UL or lot no.	Section	Towaskip	Range	Lot Idn	Feet from the	North/South		est from the		Vest Line	County
											<u></u>
		•	ed Pool 1		,			" Propor	ed Pool	2	
72319	BLAN	ICO MESA	VERDI	E	N/320						
					<u> </u>					4.6	- 4 I 1 53
" Work	Type Code	,	1 Well Type	: Code	" Cabi	e/Rotary	· "	Lease Type Co	KG4		ed Level Elevation
<u> </u>			G		R	S S		S " Contractor	6365 ' r Sped Date		
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			21	Propos	ed Casing a	and Cemen	Prog	ram			
Hole S	ise	Casing Size		Casing weight/foot		Setting Depth		Sacks of Cement		t Estimated TOC	
12-1/4'	1	9-5/8"		36.0#		250		135 (161 cuf		ft) Surface	
8-3/4		7"		20	0.0#	3515		570 (1030 cu			
6-1/4'	· · · · · · · · · · · · · · · · · · ·	4-1/2"		10.5#		3415'-5945'		240 (415 cu		aft) 3415'	
				<u> </u>							
					EPEN or PLUG B.	ACK -inc the det	the			and nonne	ed new productive
Describe the	proposed p the blower	rogram. If U st prevention	us applicati program, il	om is to Del Lamy. Use a	dditional shorts if	BOCCOSALY.	# 0# t#c	present product	416 2000	and broken	ou all products
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Printed name:	Paul (C. Thom	oson,	P.E.		Title:				7	
Title:	Agent					Approval Date:P	R -	3 1995	Expirati	or DAH	₹ - 3 19
Date:		2.5	Phone:		7 4900	Conditions of Ap	proval :				
	3/31/9	95		505 32	/-4892	Attached 🚨					

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 Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088 Form C-102
Revised February 21, 1994
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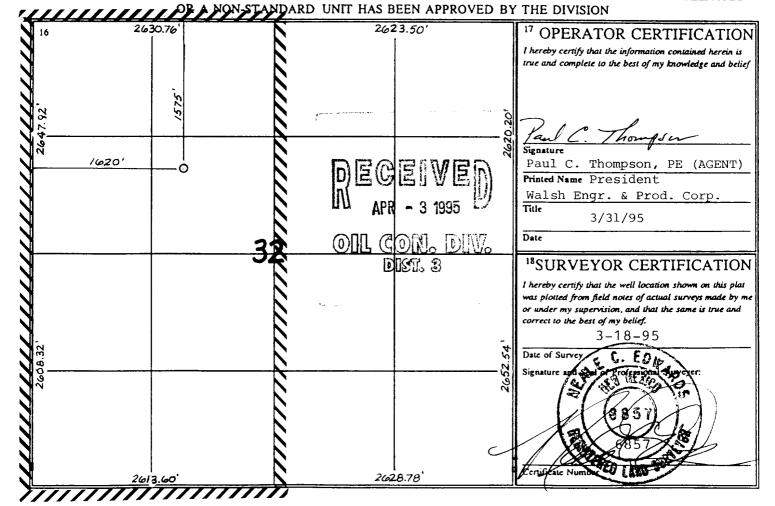
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-045-24229				¹ Pool Cod 72319	e	' Pool Name BLANCO MESA VERDE				
* Property Code 008480				³ Property Name					* Well Number	
			Rosa Unit						15 0	
¹ OGRID No.				. ⁴ Operator Name					Elevation	
16189				Northwest Pipeline Production					6365'	
					10 Surface	Location				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
F	32	32 N	6 W		1575	North	1620	West	S.J.	
			11 Bot	tom Hol	e Location I	f Different Fro	om Surface	•		
UL or lot no.	or lot no. Section Township		Range	nge Lot Idn Feet fro		North/South line	South line Feet from the		County	
12 Dedicated Act	aj '3 Joint	or Infill 14 (Consolidatio	n Code 15 C	rder No.					
320	1		Ħ	ł						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED



WILLIAMS PRODUCTION COMPANY OPERATIONS PLAN

DATE:

03/24/95

WELLNAME:

ROSA UNIT #150

FIELD:

Blanco MV

LOCATION:

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

SURFACE:

State

ELEVATION:

San Juan Co., NM 6365' GR

MINERALS:

State

TOTAL DEPTH:

5945'

LEASE #

E-504

I. GEOLOGY: Surface formation - San Jose

A. FORMATION TOPS:

Ojo Alamo	2217'	Cliff House	5302'
Kirtland	2332'	Menefee	5352'
Fruitland	2 7 97'	Point Lookout	5545'
Pictured Cliffs	3062'	Mancos	5742'
Lewis	3365'	Total Depth	5945'

- B. <u>LOGGING PROGRAM:</u> IND/GR, CDL/SNL. Log the Pictured Cliffs from TD to the Kirtland. 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. MUD PROGRAM: Clear water with benex to 7" casing point. LSND to log and run pipe.
- 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	12-1/4"	250'	9-5/8"	36# K-55
Intermediate	8-3/4"	3515'	7 "	20# K-55
Prod. Liner	6-1/4"	3415'-5945'	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 2332' to the surface. Total centralizers: 5 regular & 19 turbulent.
- 3. <u>PRODUCTION CASING:</u> 4-1/2" whirler type cement nose guide shoe with a float collar and an insert float on top of bottom joint.

C. <u>CEMENTING:</u>

- 1. <u>SURFACE</u>: Use <u>135 sx</u> (161 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 circulate the surface. WOC 12 hours. Test to 1500#.
- 2. INTERMEDIATE: Lead 410 sx (841 cu.ft.) of class "B" 65/35 poz with 2% CaCl2, 8% gel and 1/4# cello-flake/sk (Yield = 2.05 cu.ft./sk, Weight = 12.1 #/gal.). Tail 160 sx (189 cu.ft.) of class "B", 1/4# cello-flake/sk and 2% CaCl2 (Yield = 1.18 cu.ft./sk, Weight = 15.6 #/gal.). Use 100% excess in lead to circulate surface and 75% excess in tail to circulate Fruitland. Reciprocate pipe while cementing. Precede cement with 40 BBIs gel water and 20 BBIs of scavanger slurry. Total volume = 1030 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> Use <u>240 sx</u> (415 cu.ft.) of class "B" with 4% gel, 6-1/4# fine gilsonite/sk and CF14 (Yield = 1.73 cu.ft./sk, Weight = 13.5 #/gal.). Displace cement at a minimum of 10 BPM. Use 60% excess to cover liner top. WOC 12 hours. Run a temperature survey after 8 hours if liner top is not circulated. Test to 1500#.

Mark McCallister

Sr. Engineer, Production & Drilling

GENERAL ROSA UNIT DRILLING PLAN Mesa Verde

ROSA UNIT BOUNDARIES: T31N, RO4W: All - Except sections 32-36; T31N, R05W: All - Except sections 1 & 2;

T31N, R06W: All - Except sections 6,7, 18, 20, 27-36; T32N, R06W: Sections 32-36.

FORMATION CHARACTERISTICS:

FORMATION	LITHOLOGY	WATER	GAS	OIL	OVER PRES.	LOST CIRC.
NACIMIENTO	Interbedded shales, siltstones & sandstones	no	no	no	no	no
OJO ALAMO	Sandstone & conglomerates w/ lenses of shales	fresh	no	no	no	no
KIRTLAND	Shale w/ interbedded sandstones	no	poss.	no	no	no
FRUITLAND	Inter. SS, SltSt, SH & Coals w/ Carb. SS, SltSt, SH	yes	yes	no	poss.	no
PICTURED CLIFFS	Massive Sandstone w/ thin interbedded Shales	poss.	yes	poss.	no	poss.
LEWIS	Shale w/ thin interbedded sandstones & siltstones	no	poss.	no	no	no
CLIFF HOUSE	Transgressive sandstone	poss.	yes	no	no	no
MENEFEE	Sandstones, Carb shales & coal	poss.	yes	no	no	no
POINT LOOKOUT	Regressive coastal barrier sandstone	poss.	yes	poss.	no	yes
MANCOS	Marine shale	no	no	no	no	no

DRILLING

Potential Hazards

1. There are no overpressured zones expected in this well.

2. No H2S zones will be penetrated while drilling this well.

Mud System

1. Surface: The surface hole will be drilled with a Low-solids Non-Dispersed system with starch and lost circulation material as

needed. Expected mud weights will be in the 8.4 to 9.0 #/gal range. Viscosities will be in the 30 to 60 sec/grt range

as needed to remove drill cuttings.

2. Intermediate: The intermediate hole will be drilled with clear water and Benex to TD where the well will be mudded up to log and

run casing. The mud system will be Low-solids Non-dispersed with mud weights in the 9 to 10 #/gal range as needed to control the well. Viscocities will be in the 45 to 55 range as needed to support any weight material. The

weight material will consist of Barite.

3. Production: The well will be drilled using natural gas from the intermediate casing point to TD.

