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

District II

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

Submit to Appropriate District Office

State Lease - 6 Copies

1000 Rio Brazos Rd., Aztoc, NM \$7410 District IV				Santa	Fe, NM 8	7504-2088	-e	Euro de Centrolana Puntago de Calendario de Calendario de Calendario de Calendario de Calendario de Calendario	10:50 - Simple Special Special (10:2) (10:4)	•• · · · · · · · · · · · · · · · · · ·	Lease - 5 Copie
PO Box 2068, Sa	nta Pe, NM	87504-2088] AMEN	DED REPORT
APPLICA	TION	FOR PE			LL, RE-EN	TER, DE	可框	CER	VE.	11.13	DD A ZONE
		IPELINE	CORPO	RATION	me and Address.		J	MAY 261	994	J_{1618}	GRID Number 39
1		ngr. &	Prod.	Corp.	•		~ n n				API Number
	E. Mai ngton,	n New Me	xico 8	7402		(5)[[[COM	DIM	VZ 0 - 0.3	39-25412
' Property Code 008480 ROSA							DIST. 3			' Well No. 79A	
<u> </u>					⁷ Surface	Location-		- 15: 55:00 (10:00 4:00 1:00 1:00 1:00 1:00 1:00 1:00	*****	********	
UL or lot so. Section E 22		Township 31N	Range 6W	Lot ida	Foot from the 1597'	North/South FNL		Feet from the 790 !	East/W FE	Cort Lase	County Rio Arriba
		⁸ Pr	oposed	Bottom	Hole Locat	ion If Diff	erent	From Sur	face		
UL or lot zo.	Section	Township	Range	Lot Ida	Feet from the	North/South	line	Feet from the	East/W	cet line	County
Blanc	o Mesa	'Propos Verde	ed Pool 1 723	17	W/320	Wildcat	: Ro	"Propos sa Pictur	ed Pool 2 ed Cl	iffs	96175
										<u> </u>	
" Work	Type Code		14 Well Type Code M		" Cable	Rotary	" Lesse Type Code S E-289-50		rda .	" Ground Level Elevation 6272 GR	
	ultiple		' Proposed 5975'	Depth	"Formation Mesa Verde		"Contrador Four Corners		" Sped Date June 10, 1994		
			21	Proposi	ed Casing a	nd Camani	Dro	am m			
Hole S	ise .	Casic	ng Size		ng weight/foot	Setting D			Cement	Τ	Estimated TOC
12-1/	4"	9-5/8"			6.0# 500'			315 cuf	t	Ci	rc
8-3/		7"	7" K-55 2		0.0# 3605'			950 cuf	t	Ci	rc
6-1/	4"	4-1/2"	4-1/2" K-55 l		0.5#	3505-5975'		407 cuft		35	05
NORTHWE	ST PIP	ELINE p	program, il propose le form	asy. Use sees to dinations	dddonal sheets if s rill a ver at the al	ctical we cove desc	ll t ribe	o develop d locatio	the on in	Pictu:	dance
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BOP and	Cnoke	: Manifo	old Dia	igrams.							
is I hereby certifof my knowledge	•	•	en above is	true and comp	plete to the best	10	L C	ONSERVA	TION	DIVIS	ION
Signature: 2					7	Approved by:					
Printed name:	Paul	C. Thom	- 			Title: DEPUTY OIL & GAS INSPECTOR, DIST. #3					
Title:	Agent				1,	Approval PAGE	26		Expiration		6 1005
Date:	5/26/	'94	Phone:	505 327	11	Conditions of App	roval :	1 1 1 1		H	<u> </u>

District I PO Dex 1980, Hobbs, NM 88241-1980 District II PO Drawer DD, Artesia, NM 88211-0719 District III 1000 Rio Brazos Rd., Axtec, NM 87410 District IV District IV PO Dox 2080, 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 CRevised February 10,
Instructions on 1
Submit to Appropriate District 0
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Fee Lease - 3 Cc

AMENDED REPO

	WELL LO	CATION AND	ACREAGE DE			
'API Number		72319	B	LANCO / M		
· Property Code 008480	ROSA UNIT	V Pr	uperty Same			Well Number # 79A
' оснів ко. 16189	NORTHWEST	PIPELINE CORP	erator Same ORATION			· Elevation 6272
			ce Location			
UL or lot no. Section 22	31N 6W	tal idn Feet from 1597		790'	East Seat line	RIO ARRI
		Hole Location		From Surfa	ace	
UL or lot no. Section	Township Range	Lot idn Feet from	the North/South line	rect from the	East/West line	County
" Dedicated Acres "Joint o		n Code 0 Order No		A contraction of the contraction		
NO ALLOWABLE W		ED TO THIS COMP STANDARD UNIT H				CONSOLIDAT
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District | 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 Pe, NN 87504-2088

State of New Mexico Energy, Minerals & Natural Resources Department

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

Form C-10 Revised February 10, 199 Instructions on bac Submit to Appropriate District Offic State Lease - 4 Copic Fee Lease - 3 Copie

* Property Code	WELL ROSA U		ATIO ' Fooi 9617!	Code 5		REAGE DE	Pool No	PLAT	• Well Number # 79A
' ogrid no. 16189	NORTH	WEST	PIPEL	INE CORI		TION 			* Elevation 6272
UL or lot no. Section	Township 31N	Range 6W	Lot Id	In Feet from	m the	Location North/South line FNL	Feet from the 790'	East/West line FWL	County RIO ARRIBA
UL or lot no. Section		Range	Lot Id			Different North/South line	From Surfa	East/West line	County
NO ALLOWABLE	OR A N	SSIGNE ION-S	ED TO TANDA	THIS COM	PLET HAS I	ON UNTIL ALL	Signature Paul C Printed Name Agent Title 5/16/9 Date 18 SURV I hereby certification of the service of the ser	ATOR CERTY that the informal plete to the best of the	RTIFICATION tion contained herein is my knowledge and belie. PS. P.E. RTIFICATION ration shown on this plat citual surveys made by that the same is true eliet.
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NORTHWEST PIPELINE CORPORATION OPERATIONS PLAN

DATE:

04/29/94

WELLNAME:

ROSA UNIT #79A

FIELD:

Rosa PC/Blanco MV

LOCATION:

SW/4 NW/4 Sec. 22, T31N, R6W Rio Arriba Co., NM SURFACE:

Bureau of Rec.

ELEVATION:

6266' GR

MINERALS:

Federal

TOTAL DEPTH: 5975'

LEASE #

SF-078766

I. GEOLOGY: Surface formation - San Jose

A. FORMATION TOPS:

Ojo Alamo	2318'	Cliff House	5303'
Kirtland	2428'	Menefee	5343'
Fruitland	2863'	Point Lookout	5575'
Pictured Cliffs	3165'	Mancos	5738'
Lewis	3455'	Total Depth	5975'

- 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"	500'	9-5/8"	36# K-55
Intermediate	8-3/4"	3605'	7"	20# K-55
Prod. Liner	6-1/4"	3505-5975'	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 2428' to the surface. Total centralizers = 5 regular and 20 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.

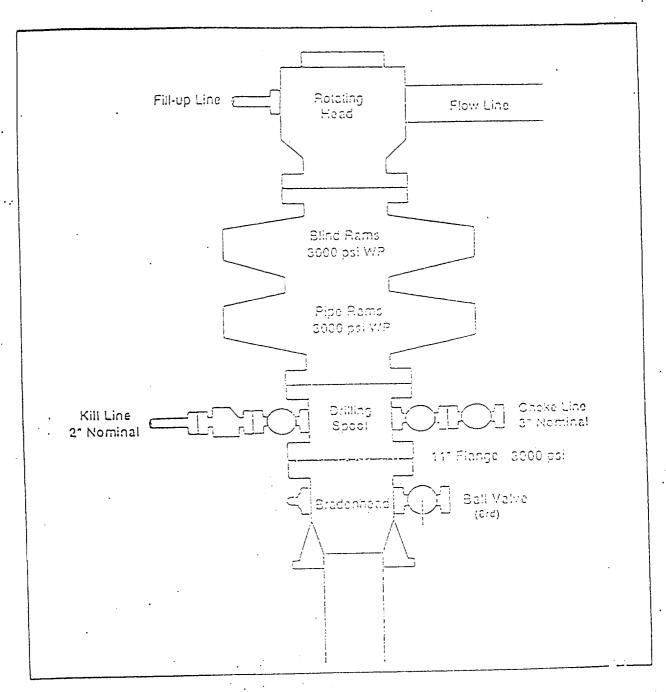
C. <u>CEMENTING:</u>

- 1. <u>SURFACE</u>: Use <u>265 sx</u> (315 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 355 sx (746 cu.ft.) of class "B" 65/35 poz with 12% gel and 1/4# cello-flake/sk (Yield = 2.1 cu.ft./sk, Weight = 12.1 #/gal.). Tail 150 sx (204 cu.ft.) of class "B" with 2% gel, 1/4# cello-flake/sk and 2% CaCl2 (Yield = 1.36 cu.ft./sk, Weight = 14.7#/gal.). Use 75% excess to circulate the surface. Total volume = 950 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>235 sx</u> (407 cu.ft.) of class "B" with 4% gel, 6-1/4# fine gilsonite/sk and 0.5% Halad 9 (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.

Mark McCallister

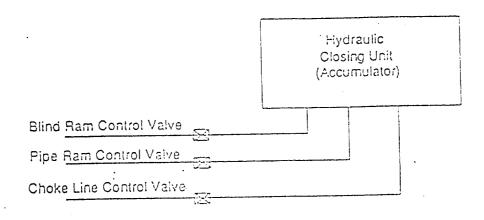
Sr. Engineer, Production & Drilling

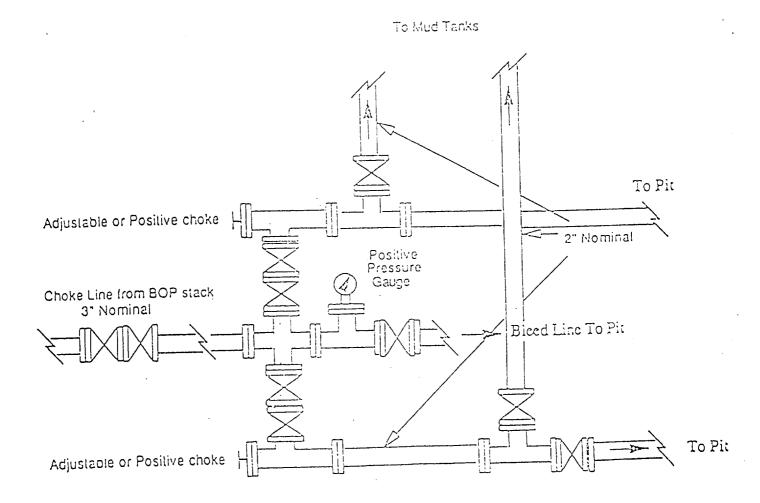
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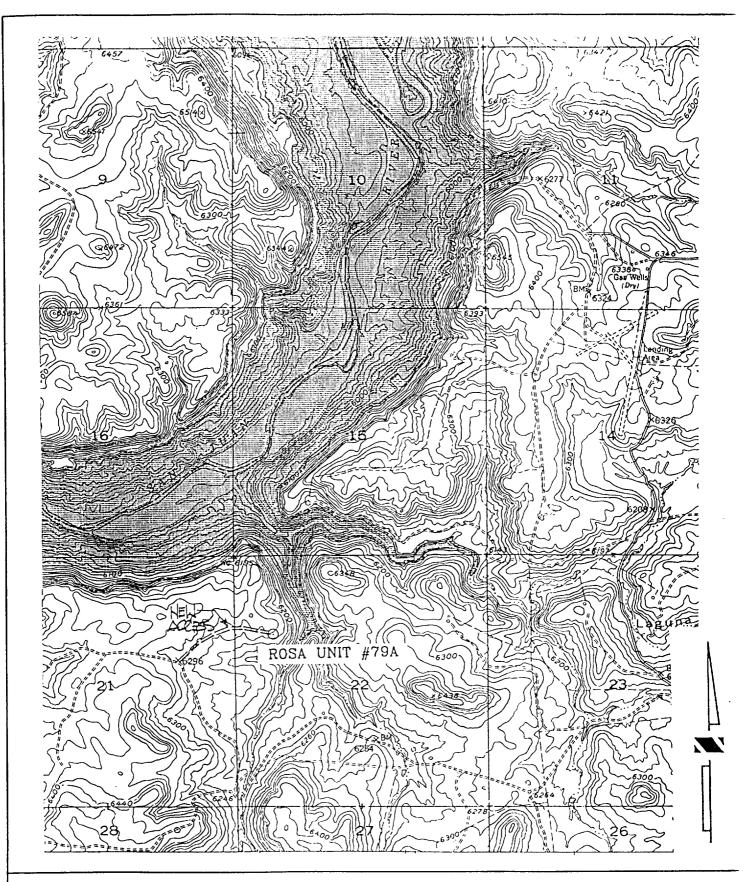


All ram type preventers and related equipment will be hydraulically tested at nipple-up and after any use under pressure to 600 psi. The blind rams will be hydraulically activated and checked for operational readiness each time pipe is pulled out of the hole. All checks of the BOP stack and equipment will be noted on the daily drilling report. The BOP equipment will include a kelly cock, floor safety valve, and choke manifold all rated to 3000 psi.

Exhibit #/2 Choke Manifold & Accumulator Schematic

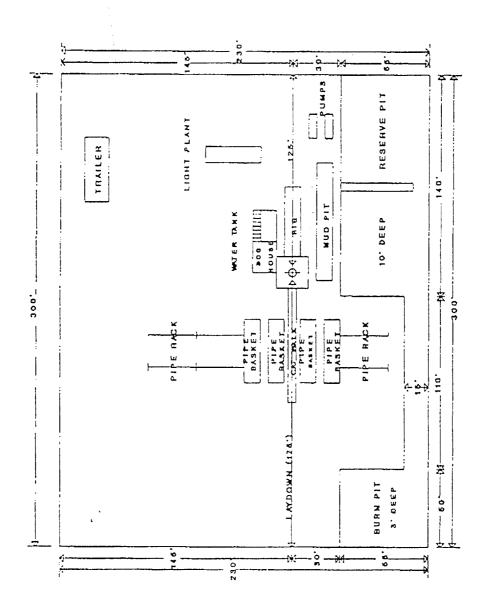






ROSA UNIT #79A NORTHWEST PIPELINE CORPORATION 1597' FNL, 790' FWL, SEC. 22, T.31 N., R.6 W. N.M.P.M. RIO ARRIBA COUNTY, NEW MEXICO BANCOS MESA NW ELEV.= 6272

NORTHWEST PIPELINE CORPORATION LOCATION DIAGRAM



NORTHWEST PIPELINE CORPORATION ROSA UNIT #79A 1597'FNL & 790'FWL, SEC. 22, T31N, R6W Rio Arriba County, New Mexico

lease:ROSA_UNI	T #79A
FOOTAGE:1597' FNL.	790' FWL
SEC: 22 TWN: 31-N RN	IG: <u>6-W</u> NMPM
GROUND ELEVATION: 6272	
F30.0 A B	F20.0 C
F19.0	77
145*	Ц
LANGUAN A SUSU COZO	230'
N 79° F	F0.4
85' BURN 50' 55' X 140'	
PIT SO RESERVE PIT	
F7.5 A' C11.0 B' 125'	C12.4
į i	
ELEV. A-A'	C/L
6302	
6292	
6282	
6272	
6262	
6252	
ELEV. B-B'	C/L
6302	
6292 — — — — — — — — — — — — — — — — — —	
6282	
6272 ———————————	
6262	
6252	
ELEV. C-C'	C/L
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6292	
6282	
6272	
6262	
6252	