# SUBMIT IN TRIPLICATE.

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

# UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

30-	039-	2.2	.5	39	,
5. LEAS	E DESIGN	KOITA	AND	SERIA	. NO.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SF-078766

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	1 FOR PERMIT	TO DRILL, D		N, OR PLUG B		7. UNIT AGREEMENT NAME
. TYPE OF WORK DRI	ILL 🖾	DEEPEN [	]	PLUG BAC	к 🗀	ROSA Unit
	AS Y OTHER		SIN	GLE MULTIPE	* 🔯	S. FARM OR LEASE NAME
NAME OF OPERATOR	TELL Y OTHER					ROSA Uni
•	lima Camparat	·ion		·		9. WELL NO.
Northwest Pl	<u>peline Corporat</u>			TIL TIME	.	#79 10. FIELD #D POOL, OR PALDONT -
	Farmington, No	ew Mexico 874	4010	re'requirements.*)	<del>'                                     </del>	Seam Dapore
LOCATION OF WELL (B	Farmington, Ne Report location clearly at	d in accordance with	h anj St	1000	1	Blanco Mesa Verde
At surface	1 1780 FWL Sec.			SEP 22 1890		AND SURVEY OR AREA
At proposed prod. 20	me Same as abo	re ∖		1 10000 1 800	137	Sec.22, T31N, R6W
		i	OFFICE	• <u>• 010124 (711 711 11</u>	T	12. COUNTY OR PARISH 13. STATE
	AND DIRECTION FROM NE		<b>\</b>	The state of the s		Rio Arriba New Mex
20 Miles Nor	theast of Nava	jo Dam	16. NO.	OF ACRES IN LEASE	17. NO.	OF ACRES ASSIGNED
LOCATION TO NEARES	ir 930)		2552	۲.71 مرام ر	10/	320 J W/320
PROPERTY OR LEASE (Also to nearest dr	ig. unit mae, it amy	27501		OPOSED DEPTH	20. KOT.	AHY OR CABLE TOOLS
TO NEMEST WELL, OR APPLIED FOR, ON TO	DRILLING, CONFESSION,	3750 <b>'</b>		5765		Rotary
	hether DF, RT, GR, etc.)		·			22. APPROX. DATE WORK WILL START
6255 GR						November 1980
0233 GI		PROPOSED CASIS	NG AND	CEMENTING PROGR.	AM	<u></u>
		WEIGHT PER F		SETTING DEPTH	ī	QUANTITY OF CEMENT
SIZE OF HOLE	SIZE OF CASING	32.7#		350	185	SX
707/4						
12-1/4	-\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				235	SX
9-7/8 6-3/4	7-5/8 5-1/2	24.# 17.0#		3709 7873	300	
9-7/8 6-3/4  Selectively Completion of the West has	7-5/8 5-1/2  perforate and plans will be obe installed as e conducted the left of Section	24.# 17.0# stimulate the determined at the surrough the BOI	face P's.	3709 7873  kota and Mesa val Depth.  casing is set	300 Verde	sx mented. All subsequent
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# OIL CONSERVATION DIVISION

STATE OF NEW MEXICO CHERGY AND MINERALS DEPARTMENT

# P. O. BOX 2088 SANTA FE, NEW MEXICO 87501

Form C-107 keyised 10-1-72

All distances must be from the cuter boundaries of the Section.

Operator			Lease			Well No.
	PIPELINE CORF		ROSA UN	Count	,	
Unit Letter	Section	Township	6W	į -	io Arriba	
K Actual Footage Lo	cation of Well:	31N	1 011		.10 .111200	
1800	_	outh lin	e and 1780	feet from t	e West	line
Ground Level Elev				co Mesa Ver		Dedicated Acreage:
6252		rde/Dakota	Basin Dak			320 MV & DK Acres
2. If more to interest a	than one lease is and royalty).	s dedicated to th		ch and identify	the ownership	thereof (both as to working
dated by  XX Yes  If answer this form  No allows forced-po	No If is "no;" list the if necessary.)	unitization, force answer is "yes," c owners and trac	-pooling. etc?  type of consolidati  t descriptions which  itil all interests ha	on <u>Unitizat</u>	ion y been consoli	of all owners been consoli- dated. (Use reverse side of ommunitization, unitization, en approved by the Commis-
sion.					<b>-</b>	CERTIFICATION
	+ 	ec.			Position Company Name	ry certify that the information conherein is true and complete to the my knowledge and belief.  Longsov  aul C. Thompson  rilling Engineer  orthwest Pipeline  eptember 19, 1980
1780	· · · · · · · · · · · · · · · · · · ·		22           	(0,907)	shown notes under is tru	by certify that the well location on this plat was plotted from field of actual surveys made by me or my supervision, and that the same e and correct to the best of my edge and belief.
	18001		 		Register and 1	ember 19, 1980  ed Professional Engineer  and Surveyor  d. B. Kerr Jr.
	Sc	ale: 1"=1000	1		395	o IR

#### NORTHWEST PIPELINE CORPORATION

#### DRILLING PROGNOSIS

WELL NAME: Rosa Unit #79

I. LOCATION: 1800 FSL and 1780 FWL

Section 22, T31N, R6W

Rio Arriba County, New Mexico

ELEVATION: FIELD: Basin Dakota/Blanco Mesa Verde 6252 GR SURFACE: BLM

MINERALS: Federal SF-078766

DATE: September 25, 1980

II. GEOLOGY: Surface San Jose

$\overline{A}$ .	Formation:	Depth	Formation	Depth
	Ojo Alamo	2340	Mancos	5787
	Kirtland	2455	Gallup	6517
	Fruitland	2920	Greenhorn	7570
	Pictured Cliffs	3094	Graneros	7626
	Lewis	3509	Dakota	7753
	Cliff House	5257	Total Depth	7873
	Point Lookout	5554		

- B. Logging Program: Gamma Ray-Induction & Density at Total Depth.
- C. Natural Gauges: Gauge @ 5554', 7626', 7753', and at Total Depth. Record all guages on daily drilling report and morning report. Gauge all noticeable increases in gas while drilling and report.

#### III. DRILLING:

- Contractor:
- Mud Program: Mud, water and gas will be furnished by Northwest Pipeline Corporation from surface to total depth.
  - a) From Surface to Intermediate casing depth to be drilled with mud.
  - b) From Intermediate casing to Total depth to be drilled with gas.
- C. 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. All tests will be reported in the Northwest Pipeline tour reports as to time and date.

#### IV. MATERIALS:

A. Casing Program:

Hole Size	Depth	Casing Size	Wt & Grade
12-1/4"	350 <b>'</b>	10-3/4"	32.7# H-40 ST&C
9-7/8"	3709	7-5/8"	24# H-40 ST&C
6-3/4"	7873	5-1/2"	17.0# N-80 LT&C

- B. Float Equipment:
  - a) Surface Casing: 10-3/4" Larkin Guide Shoe and self fill insert float valve.
  - b) Inermediate Casing: 7-5/8" Dowell Guide Shoe and Dowell self
  - fill insert valve. Dowell centralizers five (5).
    c) Production Casing: 5-1/2" Larkin Geyser Shoe. Larkin Flapper type float collar. Five (5) centralizers across Dakota, ten (10) across Mesa Verde.

### Page #2

C. Tubing:

7820' - 1-1/2", 2.9#, J-55, 10 RD, EUE tubing w/ common seating nipple above bottom joint. Baker Model D Packer for 1-1/2" tubing with locator sub (DK)

5560' - 1-1/4", 2.33#, J-55, IJ tubing (MV).

D. Well Head Equipment: Dual completion X-mas tree assembly. Well Head representative to set slip on intermediate & production strings.

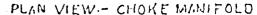
#### V. CEMENTING:

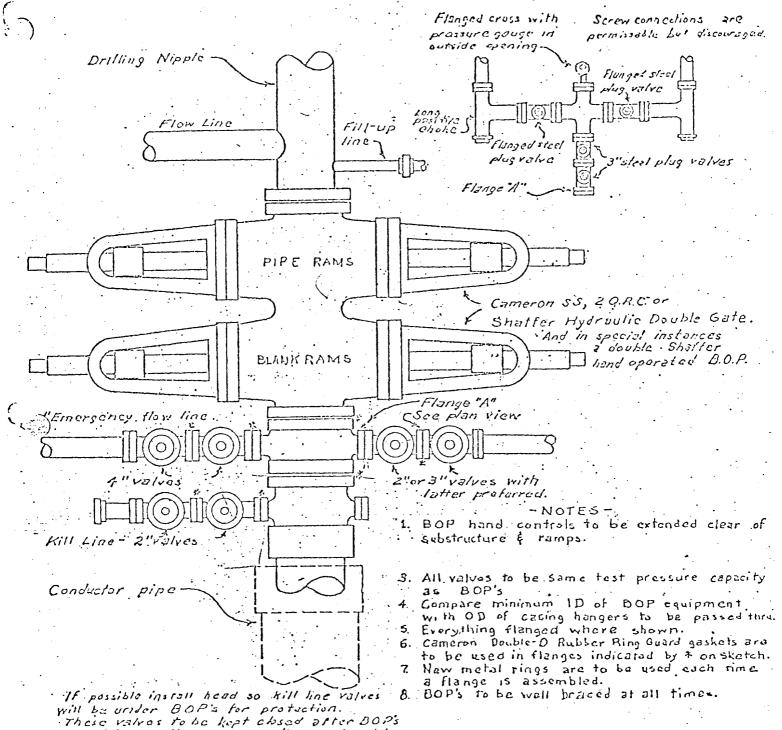
- A. Surface Casing: 10-3/4" Use 185 sks of Cl "B" cement w/ 1/4# gel flake/sk and 3% CaCl<sub>2</sub>, (100% excess to circulate 10-3/4" casing). WOC 12 hrs. Test to 600 psi for 30 min.
- B. Intermediate Caisng: 7-5/8" Use 160 sks of 65/35 Cl "B" poz w/ 12% gel and 15.5 gal of water/sk. Tail in w/ 75 sks of Cl "B" w/2% CaCl (485 cu.ft of slurry, 65% excess to cover Ojo Alamo). Use top rubber plug only. Run temp survey after 8 hrs. WOC 12 hrs. Test casing to 1200 psi for 30 min.
- C. Production Casing: 5-1/2" Precede cement w/ 40 bbls of wtr mixed w/ 4 sks gel. Cement with 200 sks of Cl "B" cement w/ 8% gel, 12-1/2# fine gilsonite/sk and 0.4% HR-4. Tail in w/ 100 sks Cl "B" cement w/ 1/4# fine tuf-plug/sk and 0.4% HR-4/sk. ( 520 cu.ft of slurry). (50% excess to fill to intermediate casing). Run temperature survey after 8 hrs. Perforate after 8 hrs.

Paul C. Thompson F. H. Wood

Original: Well File

sc: Regular distribution





SINGLE PIPE RAM BLOWOUT PREVENTOR HOOKUP

tested & kill line removed (by use of quick union) to fill-up line.
When used this vizy kill line must be

high - prossure.

 $( \tilde{c}^{*})$ 

- 1. Existing Roads: See attached topographic map. All existing roads used, shall be maintained in a serviceable condition at all times during the drilling operation.
- 2. Planned Access Roads: See attached topographic map. Maximum grade is approximately 1%. The road surface will not exceed twenty feet in width. Upon completion of drilling operations the access road will be adequately drained to control runoff and soil erosion. Drainage facilities may include ditches, water bars, culverts or any other measure deemed necessary. All activities will be confined to the access road and drill pad.
- 3. Location of Existing Wells: See attached topographic map.
- 4. Location of Tank Batteries; Production Facilities; and Production, Gathering and Service Lines: See attached topographic map for locations of existing and proposed gas gathering lines.
- 5. Location and Type of Water Supply: Water needed for the drilling operation will be hauled from the Northwest Pipeline LaJara Water Hole
- 6. Source of Construction Materials: No additional materials will be needed.
- 7. Methods for Handling Waste Disposal: All garbage, debris, and trash will be buried at least three feet deep. A portable toilet will be supplied for human waste. After drilling operations have been completed the reserve pit will be fenced and the liquid portion will be allowed to evaporate before the location is cleaned up and leveled. The earthen pits will not be located on natural drainages and will be constructed in such a manner so that they will not leak. Any evaporator pit containing toxic liquids will be fenced.
- 8. Ancillary Facilities: There will be no camps or airstrips associated with the drilling of this well.
- 9. Wall Site Layout: See attached location layout sheet.

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10. Plans for Restoration of the Surface: Upon completion of drilling, the location will be cleaned, and leveled so that no cut or fill banks will be steeper than 3:1.

All of the area disturbed in connection with the drill site will be seeded as close as possible for any above ground equipment while still allowing for access to the equipment. Seeding will be done within one year after drilling is completed and during the period from July 1 through September 15. Seeding will be done with the seed mixture recommednded by BLM.

All equipment above ground will be painted a non-glare, non-reflective, non-chalking color that simulates the natural color of the site.

11. Other Information: If, during operations, any historic or prehistoric ruin, monument or site, or any object of antiquity is discovered, then work will be suspended and the discovery will be reported to the District Manager of the BLM.

All liquids from the line will be contained at the site unless otherwise specified by the surface agency's representative.

Multi-Point Surface Use Plan Page 2

When drilling with gas, the line used to discharge and burn off the gas will be located so as not to damage vegetation in the area, and if necessary an earthen screen will be constructed to protect the vegetation. All liquids from the line will be contained at the site unless otherwise specified by the surface agency's representative.

12. Operator's Representative: Paul C. Thompson - P.O. Box 90, Farmington, New Mexico 87401. Phone: 327-5351.

## 13. Certification:

I hereby certify that I have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge true and correct; and, that the work associated with the operations proposed herein will be performed by Northwest Pipeline Corporation and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

Paul C. Thompson Drilling Engineer

. PCT/djb

TOKOTAS & MOSA-VERDUT

PESERVE DEPTH TRASH

> DATE 9/26/80 SCALE: 1cm = 20

