(Other instructions on reverse side)

Form approved.
Budget Burgan No. 42-R1425.

## UNITED STATES

Duaget	1101674	. 117.	74-164	
30-039	- Z 7	24	84	

DEPARTMENT OF THE INTERIOR					5. LEASE DESI	GNATION AN	D SERIAL NO.		
GEOLOGICAL SURVEY					<del>USA-</del> SF-0	78917			
APPLICATION	V FOR PERMIT T	_		LUG BA	ACK_	6. IF INDIAN,	ALLOTTEE O	R TEIBE NAME	:
In. TYPE OF WORK	ILL 🗓	DEEPEN [		JG BAC	1	7. ENIT AGRE	ement Nam		 t
WELL W	AS OTHER		SINGLE ZONE	MULTIPL	· 🖳	S. FARM OR L			_
Northwest Pi	<u>peline Corporati</u>	on			<u>.</u>	9. WELL NO. #101	/	<del></del>	
P.O. Box 90.	Farmington, New Report location clearly and 100 FNL & 1970		ol any State requireme T29N R5W	nts.*)		Gobernato  11. SEC., T., B AND SURV	PC/B	lanco M	<u>v</u>
At proposed prod. 201	same as above	2				500 -0		R5W	
	AND DIRECTION FROM NEAR		OFFICE*			12. COUNTY O	i		
30 Miles Eas	st of Blanco, Ne	w Mexico			17 10 0	Rio Arri	iba	New Mex	CLC
15. DISTANCE FROM PROPOSED TO LOCATION TO NEAREST 1050' N/A 339.36 F				TO T	320 m	160	RC_		
(Also to neurest dr. 18. DISTANCE FROM PRO	POSED LUCATION		19. PROPOSED DEPTH		20. ROTA	HY OR CABLE TO	ools		
TO NEAREST WELL, ORILLING, COMPLETED, OK APPLIED FOR, ON THIS LEASE, FT. N/A 6310					Rotary				
21. ELEVATIONS (Show wi	nether DF, RT, GR, etc.)					22. APPROX.	DATE WOR	WILL STAR	r•
<sub>-</sub> 6904'	GR	_				Septer	<u>nber 19</u>	80	
23.	I	ROPOSED CASIN	G AND CEMENTIN	G PROGRA	M				
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO	OT SETTING	DEPTH		QUANTITY	OF CEMENT		
12-1/4"	9-5/8"	36#	200	· · · · · · · · · · · · · · · · · · ·		115 s	ks		
8-3/4"	-\ <del>7"</del>	20#	4180	'		195_s	ks		
6-1/4"	4-1/2"	10.5#	3980' -			235 s	ks	•	
			l	This ac	tion is si	Iblent to			

ect to administrative appeal pursuant to 30 CFR 2904

Selectively perforate and stimulate the Pictured Cliff & Mesa Verde Formation. Completion plans will be determined at Total Depth.

A BOP will be installed after the surface casing is set and cemented. All subsequent work will be conducted through the BOP's.

The East half of Section 26 is dedicated to this well.

Gas is dedicated.

AS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS"

JUI 2 - 1980

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measure tical depths. Give blowout preventer program, if any.

reventer program, a any.	·		
BIGNED Paul C. Thompson	Drilling Enginee	AUG PAR June 6, 198	0
(This space for February State Vol. De)  AS AMENDED	APPROVAL DATE	CON. 8 1980 DIST. CON.	
APPROVED BY SALE MANY	TITLE	97. 3° 19.	_
CONDITIONS OF A FORMESNE'S SIMS  DISTRICT ENGINEER	Nemoco		

\*See Instructions On Reverse Side

NSL-1255 oh 3ml

### OIL CONSERVATION DIVISION

STATE OF NEW MEXICO

1320 1650

1980 2310

2640

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

1989

Form C-102 kevised 10-1-78

ENERGY AND MINERALS DEPARTMENT

All distances must be from the cuter boundaries of the Section

Operator 101 SAN JUAN 29-5 UNIT NORTHWEST PIPELINE CORPORATION Range County Unit Letter Rio Arriba 5W 29N 26 Actual Footage Location of Well: East 1970 line North feet from the 1050 line and feet from the Dedicated Acreage Producing Formation Ground Level Elev. PC/Blanco MV Pictured Cliff/MV Goberna 6904 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling. etc? If answer is "yes," type of consolidation \_\_\_Unitization X Yes ☐ No If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.). No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. <u>Paul</u> Thompson Company Northwest peline Corp Date 1980 Sec. 26 I hereby certify that the well location on this plat was plotted from field actual surveys made by me or supervision, and that the same 0/1 28.12.60 13 1500 1000 500

# NORTHWEST PIPELINE CORPORATION DRILLING PROGNOSIS

San Juan 29-5 Unit #101

DATE: June 16, 1980

I. LOCATION: 1050' FNL

1050' FNL & 1970' FEL

ELEVATION: 6904' GR

Sec 26 T29N R5W

Rio Arriba Co., New Mexico

SURFACE: BLM

MINERALS: FED SF-078917

FIELD: Gobernador Pictured Cliff/ Blanco Mesa Verde

II. GEOLOGY: Surface Formation - San Jose

A.	Formation Tops:	Depth	Formation Tops	Depth
	Ojo Alamo	3104'	Lewis	.3979
	Kirtland	3224	Cliff House	5904'
	Fruitland	3679'	Menefee	60041
	Pictured Cliffs	3879'	Point Lookout	6129'
	11ccarca offic	20.3	Total Depth	6310'

B. Logging Program: Production Casing Point - Gamma Ray-Induction and Density.

C. Natural Gauges: Gauge at last connection above 6004', 6129', and at Total Depth. Gauge any noticeable increases in gas flow @ depth other than those noted above. Record all gauges on daily drilling and morning reports.

### III. Drilling:

- A. Contractor:
- B. 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

### IV. Materials:

A. Casing Program:

Hole Size	Depth O.H.	Casing Size	WT & Grade
	200'	9-5/8"	32.3# H-40
12-1/4"	4180'	7"	20# K-55
8-3/4" 6-1/4"	6310 <b>'</b>	4-1/2"	10.5# K-55 (3980' - 6310')
O-1/4	00-0	•	

B. Float Equipment:

a) Surface Casing: 9-5/8" - B&W Regular Pattern Shoe.

- b) Intermediate Casing: 7" Dowell guide shoe (Code #50101-070) and self fill insert float collar (Code #53003-070). Seven centralizers (Code #56011-070) spaced every other joint above the shoe. Place float one joint above shoe.
- c) Liner: 4-1/2" Larkin geyser shoe (Fig 222) and Larkin Flapper type float collar (Fig 404). Burns liner hanger with neopreme pack off.
- C. Tubing Program: 6300' of 2-3/8", 4.7#, EUE, J-55 tubing with seating nipple on top of bottom joint. Expendable check valve on bottom.

  3900' of 1-1/4", 2.33#, J-55 IJ tubing w/ expendable check valve on bottom (PC).

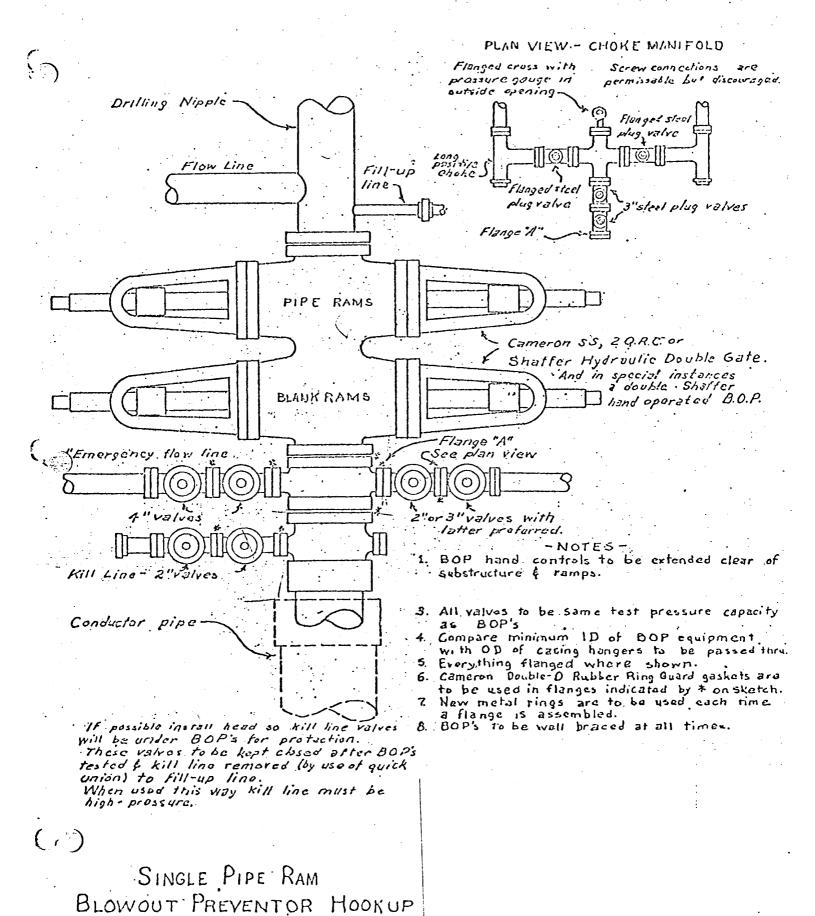
D. Well Head Equipment: WKM well head. WKM representative to set slips and make cut off.

### CEMENTING:

- Surface Casing: 9-5/8" Use 115 sks of Class "B" with 1/4# gel flake per sk and 3% CaCl<sub>2</sub> (100% excess to circulate). WOC 12 hrs. Test surface casing to 600 psi for 30 min.
- Intermediate Casing: 7" Use 120 sks of 65/35 poz with 6% gel. (Yield-1.63). Tail with 75 sks of Class "G" with 2% CaCl<sub>2</sub> (65 excess to cover Ojo Alamo). WOC 12 hrs. Run temp survey @ 8 hrs. Test casing to 600 psi.
- C. Production Liner: 4-1/2" Use 235 sks Class "B" with 4% gel and 1/4 cu.ft of fine Gilsonite/sk. Precede cement with 20 bbls water mixed with 3 sks of gel. (70% excess to circulate liner). Clean out with 6-1/4" bit to top of liner and pressure test with rig pump (test 12 hrs after plug is down). Lay down drill pipe and run 3-7/8" bit on an 2-3/8" EUE tubing to clean out liner. Perforate 18 hrs after plug is down.

Originial: Well File

sc: Regular Distribution



- 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 Conoco 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. Well Site Layout: See attached location layout sheet. There will be a drainage ditch above the cut slope.
- 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 seed Mixture #1.

All equipment above ground will be painted a non-glare, non-reflective, non-chalking color that simulates the natural color of the site. For this well code number 595-34127, green.

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.

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.

The area covered by the location and proposed access road is gently sloped with scattered brush and some grasses.

- 12. Operator's Representative: Paul Thompson P.O. Box 90 Farmington, New Mexico 87401. Phone: 327-5351 Extension # 115
- 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 Thompson Drilling Engineer

WJB/ch

NORTHWIST PIFELINE CORPORATIO LOCATION LAYOUT

FUEL RESERVE PIT MUD TANKS 816 2,2,, Pit

DATE: 6/11/80 SCALE: 1 CM = 20'

