SUBMIT IN TRIPLICATE*

Form approved. Budget Bureau No. 42-R1425.

(Other instructions on reverse side)

30-045-24499
5. LEANE DESIGNATION AND SERIAL NO.

UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY						SA-SF 079029
APPLICATION	I FOR PERMIT T	O DRILL, DE	EPEN, OR	PLUG BA	ACK '	6. IF INDIAN, ALLOTTEE OF TRIBE NAME
DRII b. Type of Well oil. as	LL X	DEEPEN	_	PLUG BACK	< 🗆 📑	San Juan 32-8 Unit San Juan 32-8 Unit San Juan 32-8 Unit
2. NAME OF OPERATOR Northwest Pip	<u>eline Corporati</u>	on				9. WELL NO. #20A
۲.	560' FNL & 820'	FWL Sec 4				Blanco Mesa Verde 11. SEC., T., B., M., OR BLE. AND SURVEY OR AREA
	• Same as above		0-midDB	-	·	Sec 4 T31N R8W
	uth of Ignacio		OFFICE.			San Juan New Mexic
20 MITES SO 13. DISTANCE FROM PROPO- LOCATION TO NEARBYT PROPERTY OR LEASE L (Also to nearest drig	SED*	820'	16. NO. OF ACRES N/A	156208	TO THE	ACRES ASSIGNED. S WELL W/320.57
18. DISTANCE FROM PROP TO NUMBERT WELL, DI OR APPLIED FOR, ON THE	OSED LOCATIONS RILLING, COMPLETED, IS LEASE, FT.		19. PROPOSED DEP 5930 *	тн	ZU. ROTARY	ROTARY 22. APPROX. DATE WORE WILL START
21. ELEVATIONS (Show who	ether DF, RT, GR, etc.)					Sept 1980
23.	F	ROPOSED CASING	AND CEMENT	ING PROGRA	м	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOC		NG DEPTH		QUANTITY OF CEMENT
12-1/4"	9-5/8"	36# 20#	200 377		285	sks
8-3/4" 6-1/4"	4-1/2"	10.5#		- 5930'	235	
Completion p	perforate and s lans will be de e installed aft conducted thro	termined at er the surfa	Total Dept ace casing	on.		OIL CON S 1980 DIST 3 Subsequent
	of section 4			rell.		
Gas is dedic	ated.	হারালে ছিলায়া ওচ এই ১৮১১	e s fr iider styr a	<u>,</u>	1.	- 420 mm - 1900
zone. If proposal is to preventer program, if an	drill or deepen direction	proposal is to deep ally, give pertinent	en or plug back. data on subsurfa	give data on prace locations ar	resent produ nd measured	ictive zone and proposed new productive and true vertical depths. Give blowout
signed Paul C. (This space for Fed	Thompson eral or State office use)	25 <i>№</i> 1 тіт	Drilli	ng Engine	er	DATE June 5, 1980
PERMIT-	(200 - 200 -		APPROVAL	DATE		
AS AME	(T-10	TIT	LE			DATE
B Warm	J. J.	*See Instru				

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEFARTMENT

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

MAY 101980

Form C-107 Revised 10-1-78

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

			Lease	的最级数的数据100分别。 \$250	Well No.
Operator man	ממט מאפי מאפי מאפי	MULTUVEU	SAN JUAN 32-8	UNIT	20A
NORTHWEST Unit Letter	PIPELINE CORF	Township	Range	County	
E E	1	31N	8W	San Juan	
Actual Footage Lo		+			
1560	feet from the	North line or	nd 820 feet	from the West	line
Ground Level Elev		ormation	Pool		Dedicated Acreage:
6473		verde	Blanco Mesa		320.57 Acres
 If more to interest at If more th 	than one lease is and royalty). nan one lease of communitization,	different ownership in unitization, force-po	is dedicated to the well, oling. etc?	ntify the ownership that the control of the interests of the interests of the control of the con	thereof (both as to working
X Yes If answer this form No allows forced-po	No If a 'is ''no,' list the if necessary.)	owners and tract de	e of consolidation	ctually been consolic	lated. (Use reverse side of nmunitization, approved by the Commis-
sion.					CERTIFICATION
1095I 820i	 	Sec.		Name Paul Position Dril Company Nort Date May	certify that the information con- erein is true and complete to the my knowledge and belief. C. Thompson ling Engineer hwest Pipeline Corp. 21, 1980
された かって はいかない ないない ないかん 大変な からい ないない ないない ないない ないない ないない ないない かんかい かんか	+	The second secon		shown on notes of under mis true knowled to the last survey with the las	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 and correct to the best of my dge and belief. 17 1980 17 1980 18 Professional Englished and Surveyor
		انجوس	<u> </u>	Certifica	te No. 8 NERN.
				3050	
0 330 660	90 1320 1650	1980 2310 2640	2000 1500 1000	800 01 377	_

NORTHWEST PIPELINE CORPORATION

DRILLING PROGNOSIS

San Juan 32-8 Unit #20A

DATE: June 16, 1980

I. <u>LOCATION</u>: 820' FWL & 1560' FNL

ELEVATION: 6473' GR

Sec 4 T31N R8W

SURFACE: BLM

San Juan Co., New Mexico

MINERALS: FED SF 079029

FIELD: Blanco Mesa Verde

II. GEOLOGY: Surface Formation - San Jose

Α.	Formation Tops:	Depth	Formation Tops	<u>Depth</u>
	Ojo Alamo	2083 ' 2163 '	Lewis Cliff House	3568 ' 5348 '
Fruitland	Kirtland Fruitland Pictured Cliffs	3013' 3348'	Menefee Point Lookout	5398 ' 5713 '
	rictured Cillis	3340	Total Depth	5930'

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

C. Natural Gauges: Gauge at last connection above 5398', 5713', 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 date.

IV. Materials:

A. Casing Program:

Hole Size	Depth O.H.	Casing Size	WT & Grade	
12-1/4"	200'	9-5/8"	32.3# H-40	
8-3/4"	3770 '	7"	20# K−55	
0-3/4 6_1///	5930 '	4-1/2"	10.5# K-55	(3570' - 5930')

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: 5900' of 2-3/8", 4.7#, EUE, J-55 tubing with seating nipple on top of bottom joint. Expendable check valve on bottom.

D. Well Head Equipment: WKM Well Head. WKM representative to set slips and Make cut off.

V. Cementing:

A. Surface Casing: 9-5/8" - Use 115 sks of Class "B" with 1/4# gel flake per sk and 3% CaCl₂ (100% excess to circulate). WOC 12 hrs. Test surface casing to 600 psi for 30 min.

B. Intermediate Casing: 7" - Use 210 sks of 65/35 poz with 6% gel. (Yield - 1.63). Tail in with 75 sks Class "G" with 2% CaCl, (65% excess to cover Ojo Alamo). WOC 12 hrs. Run temp survey at 8 hrs. Test casing

to 600 psi.

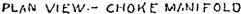
C. Production Liner: 4-1/2" - Use 235 sks of Class "B" with 4% gel and 1/4 cu.ft of fine Gilsonite per sk. Precede cement with 20 bbls water mixed with 3 sks gel. (70% excess to circulate liner). Clean out with 6-1/4" bit to top of liner and pressure test with rig pump. (Test 12 hrs after plug is down). Lay down drill pipe and run 3-7/8" bit on 2-3/8" EUE tubing and clean out liner. Perforate 18 hrs after plug is down.

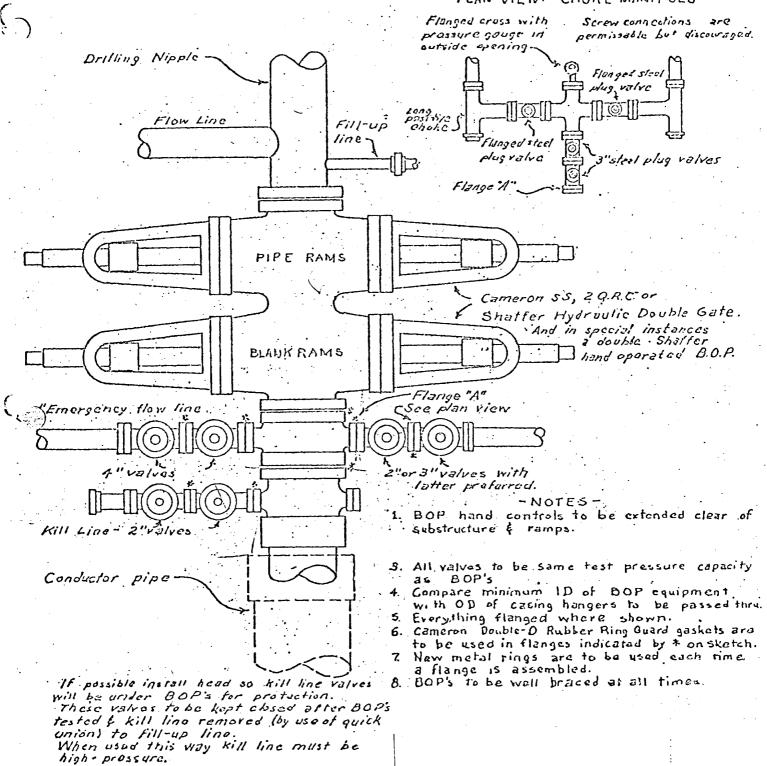
F./H. Wood

MJT/djb

Original: Well File

sc: Regular Distribution





SINGLE PIPE RAM BLOWOUT PREVENTOR HOOKUP

- 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 Pine River.
- 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.

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.

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:

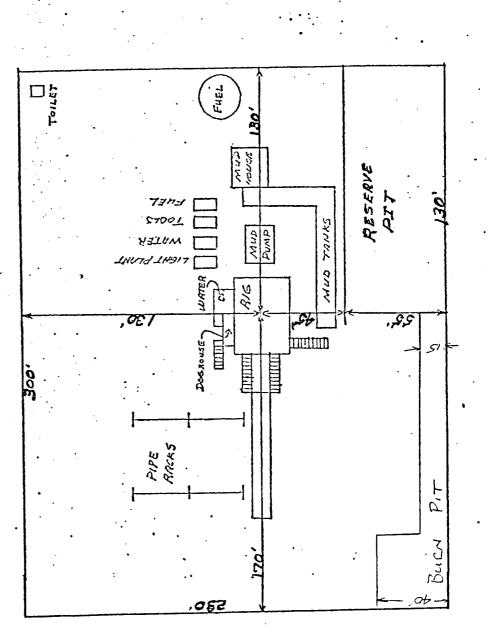
I hereby certify that I have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge true and correct; and, that the work associated with the operations proposed herein will 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

NORTHWEST PRELINE CORPORATION

LOCATION LAYOUT SAN JUAN 32-8 UNIT #



DATE: 6/9/80 SCALE: 2 CM = 20

