SUBMIT IN TRIPLICATE*

Form approved, Budget Bureau No. 42-R1425.

(Other instructions on reverse side)

30-095-23657

5. LEASE DESIGNATION AND SERIAL NO.

UNITED STATES						
DEPARTMENT	OF	THE	INTERIOR			

GEOLOGICAL SURVEY

	NM 012641						
APPLICATION	FOR PERMIT T	O DRILL, D	EEPEN, OR PLUG	BACK	6. IF INDIAN, ALLOTTES	OR TRIBE NAME	
1a. TYPE OF WORK	LL X	DEEPEN [PLUG BA	CK 🗌	N/A 7. UNIT AGREEMENT N	АМЕ	
b. Type of well			SINGLE MULT	IDIR —	Blanco 31-8		
WELL W	ELL X OTHER		ZONE ZONE		8. FARM OR LEASE NAI	_	
2. NAME OF OPERATOR	n: 1: 0				Blanco 31-8 Unit		
	Pipeline Corpor	ration			9. WELL NO.		
3. ADDRESS OF OPERATOR	20 E	N W	87401		9A 10. FIELD AND POOL, OR WILDCAT		
P.O. BOX S 4. LOCATION OF WELL (Re At surface	Blanco Mes	a Verde					
_ 153	30 FEL 1600 FSI	ച			11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA		
At proposed prod. zon As	e Above			-	Sec. 35, T 31N, R 8W		
14. DISTANCE IN MILES A	AND DIRECTION FROM NEAR	EST TOWN OR POST	OFFICE*		12. COUNTY OR PARISH	13. STATE	
N/A	·				San Juan	New Mexic	
15. DISTANCE FROM PROPO LOCATION TO NEAREST PROPERTY OR LEASE L (Also to nearest drig	TO NEAREST				OF ACRES ASSIGNED THIS WELL 320		
18. DISTANCE FROM PROP- TO NEAREST WELL, DI OR APPLIED FOR, ON THI	OSED LOCATION* RILLING, COMPLETED,	1/A	19. р гороѕео дертн 5760	20. ROTA	20. ROTARY OR CABLE TOOLS ROTARY		
21. ELEVATIONS (Show whe	ether DF, RT, GR, etc.)				22. APPROX. DATE WO	RK WILL START*	
	6320 GR				July 30, 19	79	
23.	P	ROPOSED CASING	AND CEMENTING PROGR	RAM			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOO	T SETTING DEPTH		QUANTITY OF CEMES	NT	
12 1/4	9 5/8	32#	200		125		
8 3/4	7	20#			150		
6 1/4	4 1/2	10.5#	5760		210		
2) A BOP All so 3) The E,	will be instal	led after su tions will h	i	been ru gh the	n and cemented BOP. VED	L COO	
	drill or deepen directiona		n or plug back, give data on data on subsurface locations	present prod and measure	N. M.		
(This space for Fede	nbaugh ral or State office use)		· · · · · · · · · · · · · · · · · · ·				

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CONDITIONS OF APPROVAL, IF ANY:

PERMIT NO. ___

APPROVED BY ___

NMOCL *See Instructions On Reverse Side

TITLE

APPROVAL DATE _

MJT/skw

STATE OF NEW MEXICO

660

1980 2310 2640

2000

1500

1000

500

OIL CONSERVATION DIVISION

P. O. BOX 2088

Form C-102 Revised 10-1-78

ENERGY AND MINERALS DEPARTMENT SANTA FE, NEW MEXICO 87501 All distances must be from the cuter boundaries of the Section. Operator Well No. PIPELINE CORPORATION BLANCO 31-8 UNIT NORTHWEST 9A Unit Letter Section Township Range 35 8W 31N San Juan Actual Footage Location of Well: 1600 South 1530 feet from the East feet from the line and line Ground Level Elev. Producing Formation Dedicated Acreage: 320 6320 Blanco Mesa Verde Acres 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? Yes O No If answer is "yes," type of consolidation _ 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. m 0 Name M. Turnbaugh Position Assoc. Drilling Engineer Northwest Pipeline Co. Sec. 7-3-79 35 is planyasplated fro NM - 012641י0351

3950

OPERATIONS PLAN

I. LOCATION: Blanco 31-8 Unit 9A ELEVATION: 6320 GR

1530 FEL, 1600 FSL, Sec.35, T31N, R8W

FIELD: Blanco

II. GEOLOGY:

A. Formation Tops:

Ojo Alamo: 2109 Cliff House: 5134
Kirtland: 2209 Menefee: 5186
Fruitland: 2894 Point Lookout: 5504
Pictured Cliffs: 3229 Total Depth: 5760

Lewis: 3414

B. Logging Program: Gamma Ray Induction & Density at T.D.

C. Coring Program: None

D. Natural Gauges: Gauge at last connection above 3134,5186 and at total

depth. Gauge any noticeable increases in gas flow at

depth other than those noted above.

III. DRILLING:

A. Anticipated starting date and duration of activities: July 30, 1979

B. BOP: Blind rams and pipe rams, 10', 900 series, double gate, rated at 3000 PSI.

C. Mud Program:

a) Spud Mud: Water, lime and gel.

b) Surface to 3414

Viscosity: 32-38 sec/qt. Weight: 8.8-9.2 #/gal.

Water Loss: 8-20 cc Ph: 8.5-9.5

c) From 3414 to 3614

Viscosity: 36-45 sec/qt. Weight: 8.5-9.5 #/gal.

Water Loss: 8-20 cc Ph: 8.5-9.5

d) From 3614 to total depth with gas.

IV. MATERIALS:

A. Casing Program:

Hole Size	Depth O.H.	Casing Size	Wt. &	Grade	Depth Set
12-1/4"	200'	9-5/8"	32.3#	H-40	200'
8-3/4"	3614	7''	20#	K-55	3614
6-1/4"	3614 - T.D.	4-1/2"	10.5#	K-55	3494 - T.D.

B. Float Equipment:

a) Surface casing 9-5/8" - B & W Reg. Pattern Shoe

b) Intermediate Casing 7" - Dowell guide shoe (Code #50101-070) and self fill insert float collar (Code #53003-070). Seven (7) centralizers (Code #56011-070) spaced every other joint above the shoe. Place float collar one joint above shoe.

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Page 2

- B. Float Equipment cont.
 - c) Liner 4-1/2" Larkin geyser shoe (Fig. 222) and Larkin flapper type float collar (Fig. 404). Brown liner hanger with neopreme pack off.
- C. Tubing Program: 5610' of 2-3/8", 4.7#, EUE, K-55 tubing with seating nipple on top of bottom joint. Expendable check valve on bottom.
- D. Well Head Equipment: Gray well head. Gray representative to set slips and make cut off.

V. CEMENTING:

- A. Surface Casing 9-5/8" Use 125 sacks of Class "B" with 1/4# gel flake per sack and 3% CaCl (100% excess to circulate). WOC 12 hours. Test surface casing to 600 PSI for 30 minutes.
- B. Intermediate Casing 7" Use 100 sacks Class "B" 65/35 poz with 12% gel and 15.52 gallons water per sack. Tail in with 50 sacks Class "B" with 2% CaCl (65% excess to cover Ojo Alamo). WOC 12 hours. Run temperature survey after 8 hours. Test casing to 600 PSI.
- C. Production Liner 4-1/2" Use 210 sacks Class "B" with 4% gel and 1/4 cu. ft. of fine gilsonite per sack. Preced cement with 20 barrels water mixed with 3 sacks gel (70% excess to circulate liner). Set liner pack off and reverse out excess cement. Run 6-1/4" bit to top of liner and pressure test (test 12 hours after plug is down). Lay down DP and run 3-7/8" bit on 2-3/8" EUE tubing to clean out liner. Perforate 18 hours after plug is down.

NORTHWEST PIPELINE CORPORATION

MULTI- POINT SURFACE USE PLAN

for the Blanco 31-8 Unit

Well Number 9A

- 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 approximatley 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 private sources.
- 6. Source of Construction Materials: No additional materials will be needed.
- 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. <u>Well Site Layout:</u> 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 specified by land use authorities.

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.

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: M. J. Turnbaugh, P.O. Box 90, Farmington, New Mexico 87401 Phone: 327-5351 Extension 115.
- 13. Certification:

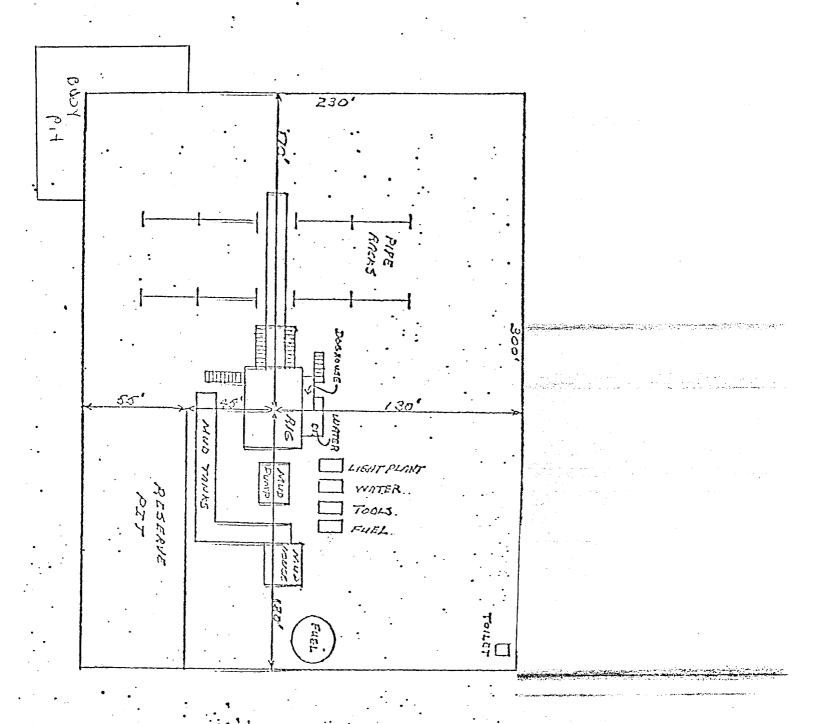
I hereby certify that I have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge true and correct; and, that the work associated with the operations proposed herein will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

7-3-79

M. Turnbaugh

Assoc. Drilling Engineer

MJT/skw



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