### SUBMIT IN TRIPLICATE\*

UNITED STATES
DEPARTMENT OF THE INTERIOR

(Other instructions on reverse side)

	Budget Bureau	n. No. 42-R1425.
5. LEAR	5 - 075 SE DESIGNATION	

GEOLOGICAL SURVEY					SF 079353	
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK					6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
1a. TYPE OF WORK  DR	DRILL   DEEPEN   PLUG BACK   DEEPEN   PLUG BACK   DEEPEN   DEEPEN			7. UNIT AGREEMENT NAME San Juan 32-8 Unit		
OIL GAS WELL OTHER SINGLE X MULTIPLE ZONE ZONE					8. FARM OR LEASE NAME	
2. NAME OF OPERATOR		+ion				San Juan 32-8 Unit
3. ADDRESS OF OPERATOR	ipeline Corpora					9. WELL NO.
	- Farmington,	N.M. 8740	1			10. FIELD AND POOL, OR WILDCAT
	eport location clearly an	d in accordance wit	th any St	ate requirements.*)		
/M 840 ! -	FWL, 960' FSL					Blanco, Mesa Verde  11. sec., T., B., M., OR BLK.  AND SURVEY OR AREA
At proposed prod. zon	ne				i e	And Bonney on Mana
14 DISTINCE IN MILES	AND DIRECTION FROM NE	DEST TOWN OF DOS	T OFFICE		· · · · · · · · · · · · · · · · · · ·	Sec, 33, T32N, R8W 12. COUNTY OR PARISH   13. STATE
	AND DIRECTION PROSE NE	REST TOWN OR TON	LOFFICE			New Mexic
NA 15. DISTANCE FROM PROPORTION TO NEAREST			16. NO.	OF ACRES IN LEASE	17. No. (	San Juan   San Juan
PROPERTY OR LEASE I (Also to nearest drls	LINE, FT.	340 <b>'</b>	N	/A	- TO TH	HIS WELL 320
18. DISTANCE FROM PROP TO NEAREST WELL, D	RILLING, COMPLETED,		19. PRO	POSED DEPTH	20. ROTA	RY OR CABLE TOOLS
OR APPLIED FOR, ON TH	J.	550 <b>'</b>	5	800	R	otary 22. APPROX. DATE WORK WILL START*
	02' GR					July 20, 1979
23.		PROPOSED CASI	NG AND	CEMENTING PRO	GRIM	1 Dury 20, 1979
SIZE OF HOLE	1				1	
12 1/4"	SIZE OF CASING	WEIGHT PER FO		SETTING DEPTH		SKS.
8 3/4"	9 5/8"	32.3# 20#		200 <u>'</u>		sks.
6 1/4"	4 1/2"	10.5#		3665 <b>'-</b> 5900 <b>'</b>	210	sks.
All subsequer	e installed aft nt operations w Section 33 is de	ill be cond	ucted	through the		nd cemented.
20ne. If proposal is to preventer program, if an 24.  SIGNED S. G. K. (This space for Fede PERMIT NO	drill or deepen direction y.  Lift at irgis craffor State office use)	ally, give pertinent	t data on	oduction Eng	s and measure	uctive zone and proposed new productive d and true vertical depths. Give blowout  DATE5/30/79
oh Freh				On Reverse Side	MINGTON,	j Çriya

# STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

## OIL CONSERVATION DIVISION

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

Form C-102 Revised 10-1-78

All distances must be from the cuter houndaries of the Section. Operator Well No. NORTHWEST PIPELINE CORPORATION SAN JUAN 32-8 UNIT Unit Letter Township 32N 8W San Juan Actual Footage Location of Well: feet from the South line and feet from the West line Ground Level Elev. Producing Formation Pool Dedicated Acreage: 6502 Mesa Verde Blanco 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 \_\_\_\_ 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. Position Drilling Engineer Northwest Pipeline Corp. SF079353 Sec. July 20, 1979 33 I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. 840° Date Surveyed Registered Professional 1320 1650 1980 2310 1000

## OPERATIONS PLAN

San Juan 32-8 Unit #40

I. LOCATION: SW/4, Sec. 33, T32N, R8W LEASE NUMBER:

FIELD: Blanco, Mesa Verde ELEVATION: 6502' GR

### II. GEOLOGY:

Α.	Formation Tops	Depth:	Formation Tops	Depth:
	Ojo Alamo	2135'	Lewis	3615'
	Kirtland	2185'	Cliff House	5361 <b>'</b>
	Fruitland	3057 <b>'</b>	Menefee	5415'
	Pictured Cliffs	3385 <b>'</b>	Point Lookout	5730 <b>'</b>
	Total Depth	5900 <b>'</b>	· •	

B. Logging Program: Gamma Ray Induction & CNL-Density

C. Coring Program: None

D. Natural Guage at last connection above 5415',5730' and at total depth. Gauge any noticeable increases in gas flow at

depth other than those noted above.

#### III. DRILLING:

 $\overline{A}$ . Anticipated starting date and duration of activities: July 20, 1979 - 2 weeks

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 3615'

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

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

c) From 3615' to 3815'.

Viscosity: 36-45 sec/qt.

Weight: 8.5-9.5 #/gal.

Water Loss: 8-12 cc

Ph: 8.5-9.5

d) From 3815' to total depth with gas.

### IV. MATERIALS:

A. Casing Program:

Hole Size	Depth O.H.	Casing Size	Wt. & Grad	le Depth Set
12 1/4"	200'	9 5/8"	32.3# H-4	200'
8 3/4"	3815 <b>'</b>	7"	20 # K <b>-</b> 5	5 3815 <b>'</b>
6 1/4"	2235	4 1/2"	10.5# K-5	5 8665 <b>'-</b> 5900 <b>'</b>

### 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.

- 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: 5750' 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 dow 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

San Juan 32-8 Unit

Well #40

- 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. <u>Location of Tank Batteries</u>; <u>Production Facilities</u>; <u>and Production</u>, <u>Gathering and Service Lines</u>: See attached topographic map for locations of existing and proposed gas gathering lines.
- 5. <u>Location and Type of Water Supply:</u> Water needed for the drilling operation will be hauled from private sources.
- 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. <u>Wall 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 required by the surface management agency.
  - 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.

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.

Operator's Representative: S.G. Katirgis, P.O. Box 90 - Farmington, New 12. Mexico 87401. Phone: 327-5351 Extension #107.

### 13. Certification:

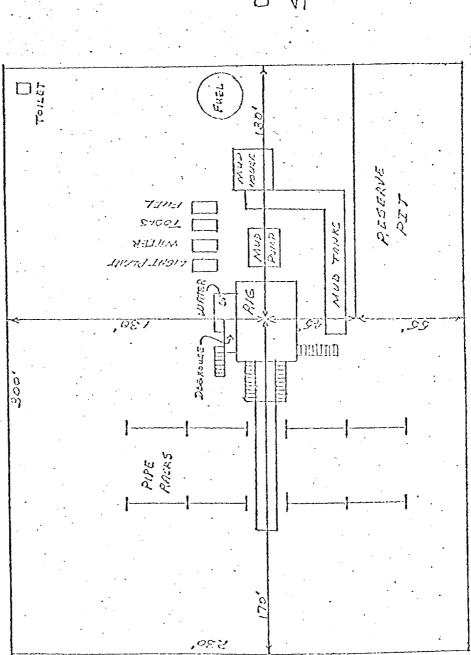
I hereby certify that I have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge true and correct; and, that the work associated with the operations proposed herein will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

Production Engineer

SGK/ch

CORP

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SCALE: OATE:

