### SUBMIT IN TRIPLICATE\*

UNITED STATES
DEPARTMENT OF THE INTERIOR

(Other instructions en reverse side)

Form Budget	approved Bureau	No.	42-R1425

GEOLOGICAL SURVEY					SF 079033	
APPLICATIO	N FOR PERMIT	TO DRILL, DE	EPEN, OR PLUG B	ACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
1a. TYPE OF WORK  DR	ILL X	DEEPEN [	PLUG BAG		7. UNIT AGREEMENT NAME	
WELL W	AS OTHER		SINGLE MULTIP	re 🔲	San Juan 29-5 Unit 8. FARM OR LEASE NAME	
2. NAME OF OPERATOR  Northweel	t Pipeline Corp	onoti			San Juan 29-5 Unit	
3. ADDRESS OF OPERATOR					#94	
P.O. Box	90, Farmington eport location clearly and	New Mexico	87401		10. FIELD AND POOL, OR WILDCAT	
wh beginnen	20' FSL & 1170'		ny State requirements.		Gobernador Pictured Cliffs  11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  EXT	
At proposed prod. zor						
4. DISTANCE IN MILES	Above AND DIRECTION FROM NEA	REST TOWN OR POST OF	FICE*		SEC 23, T29N, R5W	
4 Miles H	East of Goberna	dor Camp				
5. DISTANCE FROM PROPO LOCATION TO NEARES	JSED*		. NO. OF ACRES IN LEASE		ACRES ASSIGNED	
(Also to nearest dri	g. unit line, if any)	1020'	NA	тотн	s well 160	
8. DISTANCE FROM PROF TO NEAREST WELL, D	RILLING, COMPLETED.		. PROPOSED DEPTH	20. ROTARY	OR CABLE TOOLS	
OR APPLIED FOR, ON TH		NA	4010'		Rotary	
I. ELEVATIONS (Show wh	•		•		22. APPROX. DATE WORK WILL START*	
6921	." GR	PROPOSED CASING	AND CEMENTING PROGRA	M		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEMENT	
12-1/4"	8-5/8"	24#	150'			
6-3/4"	2-7/8"	6.4#	T.D.		85_sks 160_sks	
A BOP will cemented.	be installed a	fter the surf operations w	e Pictured Cliffs ace casing has be vill be conducted this well. Gas	en run through	and the BOP.	
signed D.H.	arm or deepen directiona	TITLE	Sr. Drilling En	d measured a	tive zone and proposed new productive and true vertical depths. Give blowout  DATE 5/17/78	
			- ALL CALL	š.		
CONDITIONS OF APPROVA	AL, IF ANY:	TITLE			+ 1978	
Λlέ	al			;'?	THE SHOW A	

\*See Instructions On Reverse Side

## NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

All distances must be from the outer boundaries of the Section. Operator Well No. NORTHWEST PIPELINE CORPORATION San Juan 29-5 Unit 94 Unit Letter Section Township 23 29N Rio Arriba Actual Footage Location of Well: feet from the South 1170 line and East Ground Level Elev. Producing Formation Pool Dedicated Acreage: 6921 Pictured Cliffs Gobernador Pictured Cliffs 160 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 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 D.H. Maroncelli Position Sr. Drilling Engineer Northwest Pipeline Corp. 5/16/78 Sec 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 SF 079033 is true and correct to the best of my knowledge and belief. 11701 Date Surveyed Registered Professional Fred Certificate 660 1320 1650

1980 2310

2640

2000

1000

NORTHWEST PIPELINE CORPORATION

MULTI - POINT SURFACE USE PLAN

For The San Juan 29-5 Unit

Well Number 94

- 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.
- 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 run off and soil erosion. Drainage facilities may include ditches, water bars, culverts or any other 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. The pipeline will be constructed adjacent to the access road where possible.
- 5. Location and Type of Water Supply: Water needed for the drilling operation will be hauled from the San Juan 29-6 Unit Water Well in the SW/4 28, T29N, R6W.
- 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 layout sheet.
- 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 the site. For this well code number 959-34127, 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.

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.

Multi-Point Surface Use Plan San Juan 29-5 Unit #94 Page 2

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

12. Operator's Representative: D.E. Richardson, P.O. Box 90 - Farmington, New Mexico 87401. Phone: 327-5351 Extension #62.

# 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.

5/16/78 Date

D.E. Richardson Drilling Engineer

DER/ch

## OPERATIONS PLAN

San Juan 29-5 Unit #94

May 17, 1978

I. LOCATION: SE/4 SEC 23, T29N, R5W

LEASE NUMBER: SF 079033

FIELD:

Gobernador Pictured Cliffs

**ELEVATION:** 

6921 GR

GEOLOGY: II.

Formation Tops:

3002 Ojo Alamo:

4010' Total Depth:

Kirtland:

3242'

Fruitland:

35891

Pictured Cliffs: 3857'

B. Logging Program: IES & GR-Density at T.D.

C. Coring Program:

None

Testing Program: None

III. DRILLING:

Anticipated starting date and duration of activities: June 15, 1978 for 10 days.

Blind rams and pipe rams, 10", 900 series, double gate, rated at В.

3000 PSI.

Mud Program:

Spud Mud: Water, lime and gel. a)

Surface to 3300' b)

Viscosity: 25-30 sec/qt.

Weight:

8.9-9.0 #/gal.

Water Loss: 7-12 cc

Ph:

8.5-9.5

c) From 3300' to T.D.

Viscosity: 38-60 sec/qt.

Weight:

9.0-9.5 #/gal.

Water Loss: 7-12 cc

Ph:

8.5-9.5

IV. MATERIALS:

A. Casing Program:

Hole Size	Depth O.H.	Casing Size	Wt. & Grade	Depth Set
12 1/4"	150	8 5/8"	24# K-55	150'
6 3 /4"	4010	2 7/8"	6.4# <b>J</b> −55	T.D.

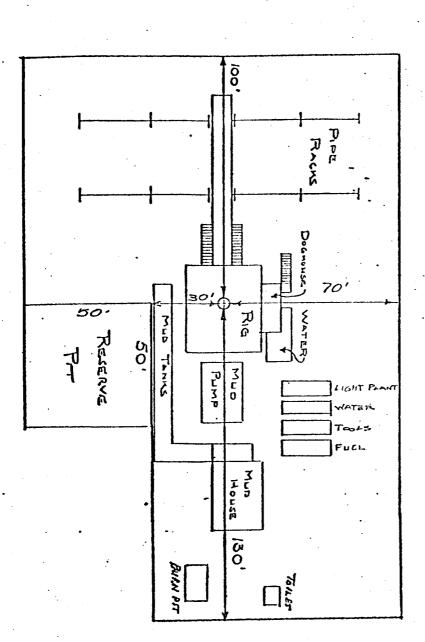
Operations Plan San Juan 29-5 Unit #94 Page 2

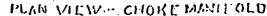
### V. CEMENTING:

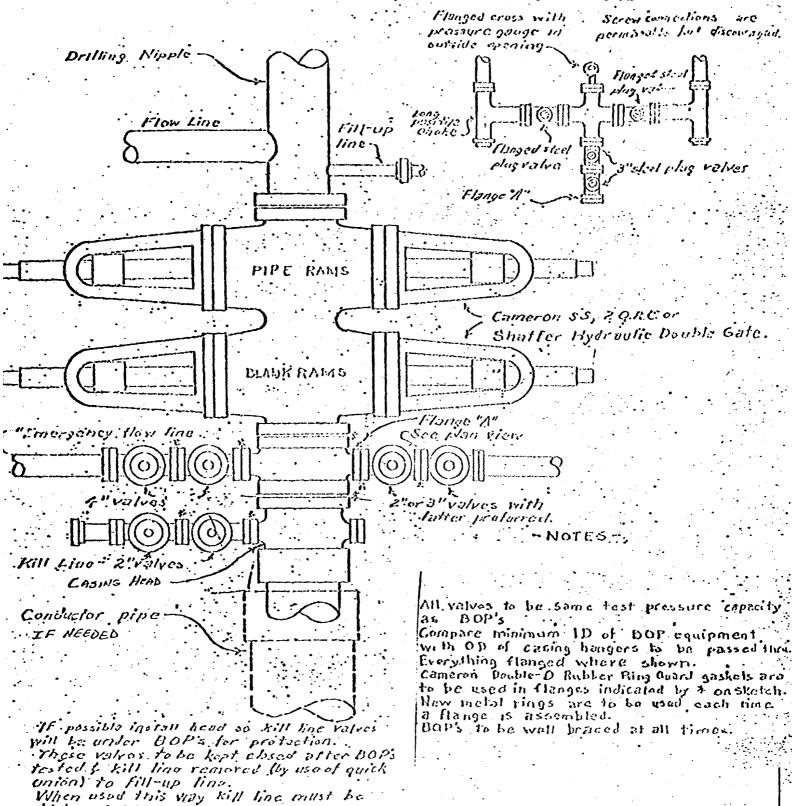
- A. Surface Casing 8 5/8" Use 85 sks. Class "B" cement with 1/4# flocele per sack and 3% calcium chloride (100% excess to circulate). WOC 12 hours. Test surface casing to 600 PSI for 30 minutes.
- B. Production Casing 2 7/8" Use 160 sacks 65/35 poz with 10% gel and 1/4 cu. ft. fine gilsonite per cu. ft. slurry and tail in with 50 sacks Class "B" cement with 2% calcium chloride. WOC 12 hours. Run temperature survey after 12 hours.

DHM/ch

NORTHWEST PRELINE CORPORATION LOCATION LAYOUT SAN JUAN 29-5 CHNIT #94







SINGLE PIPE RAM BLOWOUT PREVENTOR HOOKUP

high-prossure.

