

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>			5. LEASE DESIGNATION AND SERIAL NO. NM 012698		
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>			6. IF INDIAN, ALLOTTEE OR TRIBE NAME		
2. NAME OF OPERATOR Northwest Pipeline Corporation			7. UNIT AGREEMENT NAME San Juan 29-6 Unit		
3. ADDRESS OF OPERATOR P.O. Box 90, Farmington, New Mexico 87401			8. FARM OR LEASE NAME San Juan 29-6 Unit		
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface <input checked="" type="checkbox"/> 790' FSL & 990' FEL At proposed prod. zone <input type="checkbox"/> As above			9. WELL NO. 22A		
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*			10. FIELD AND POOL, OR WILDCAT Blanco Mesa Verde		
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 790'			11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 12, T29N, R6W		
16. NO. OF ACRES IN LEASE NA			12. COUNTY OR PARISH Rio Arriba		
17. NO. OF ACRES ASSIGNED TO THIS WELL 229.85			13. STATE N.M.		
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. NA			20. ROTARY OR CABLE TOOLS Rotary		
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 6593' GR			22. APPROX. DATE WORK WILL START* August 1, 1977		

23. PROPOSED CASING AND CEMENTING PROGRAM				
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	9 5/8"	32.3	200'	125 sks.
8 3/4"	7"	20	3843'	150 sks.
6 1/2"	4 1/2"	10.5	3723'- T.D	210 sks.

Selectively perforate and stimulate the Mesa Verde formation.

A BOP will be installed after the surface casing has been run and cemented.  
All subsequent operations will be conducted through the BOP.

The E/2 of section 12 is dedicated to this well.

Gas is dedicated.



JUN 1 1977

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

24. SIGNED J.P. Slattery TITLE Drilling Engineer DATE 5-31-77  
(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

*Obal*

*St*

\*See Instructions On Reverse Side

JPS/ks

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

Form C-102  
Supersedes C-128  
Effective 1-1-65

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

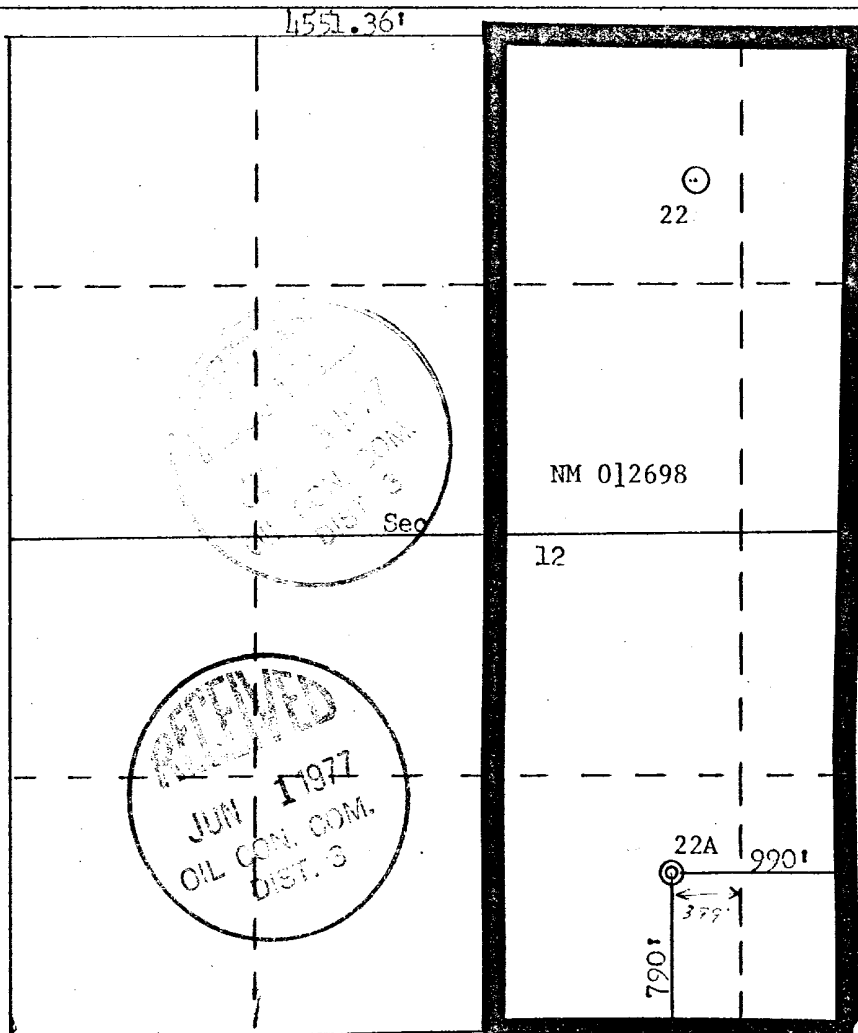
Operator <b>Northwest Pipeline Corporation</b>			Lease <b>San Juan 29-6 Unit</b>		Well No. <b>22A -</b>
Unit Letter <b>D</b>	Section <b>12</b>	Township <b>29N</b>	Range <b>6W</b>	County <b>Rio Arriba</b>	
Actual Footage Location of Well: <b>790</b> feet from the <b>South</b> line and <b>990</b> feet from the <b>East</b> line					
Ground Level Elev. <b>6593</b>	Producing Formation <b>Mesa Verde</b>		Pool <b>Blanco</b>		Dedicated Acreage: <b>229.85</b> Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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 ☐ 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.

*D.H. Maroncelli*  
Name

D.H. Maroncelli

Position

Sr. Drilling Engineer

Company

Northwest Pipeline Corp.

Date

April 19, 1977

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.

Date Surveyed

April 17, 1977

Registered Professional Engineer and Land Surveyor

*Fred B. Kerr Jr.*  
Fred B. Kerr Jr.

Certificate No.

3950

OPERATIONS PLAN

Well Name: San Juan 29-6 Unit #22A

May 25, 1977

I. LOCATION: NW/4 NE/4 Sec. 12, T29N, R6W

LEASE NUMBER: NM 012698

FIELD: Blanco Mesa Verde

ELEVATION: 6593 GR

II. GEOLOGY:

A. Formation Tops:

Ojo Alamo:	2532'	Cliff House:	5338'
Kirtland:	2586'	Menefee:	5423'
Fruitland:	3146'	Point Lookout:	5705'
Pictured Cliffs:	3498'	Total Depth:	5905'
Lewis:	3643'		

B. Logging Program: Gamma Ray-Neutron at T.D.

C. Coring Program: None

D. Natural Gauges: Gauge at last connection above 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: August 1, 1977

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 3643'

Viscosity: 32-38 sec/qt.

Weight: 8.8-9.2 #/gal.

Water Loss: 8-20 cc

Ph: 8.5-9.5

c) From 3643' to 3843'

Viscosity: 36-45 sec/qt.

Weight: 8.5-9.5 #/gal.

Water Loss: 8-20 cc

Ph: 8.5-9.5

d) From 3843' 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"	3843'	7"	20# K-55	3843'
6 1/4"	3843' - T.D.	4 1/2"	10.5# K-55	3723' - 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.
- c) Liner 4 1/2" - Larkin geyser shoe (Fig. 222) and Larkin flapper type float collar (Fig. 404). Brown liner hanger with neoprene pack off.

C. Tubing Program: 5800' of 2 3/8", 4.7#, EUE, K-55 tubing with seating nipple on top of bottom joint. Expendable check valve on bottom.

D. Wellhead Equipment: Gray wellhead. Gray representative to set slips and make cut off.

V. CEMENTING:

- A. Surface Casing 9 5/8" - Use 125 sks. Cl. "B" w/1/4# gel flake/sk. & 3% Ca Cl. (100% excess to circ.) WOC 12 hrs. Test surface csg. to 600 PSI for 30 min.
- B. Intermediate Casing 7" - Use 100 sks. Cl. "B" 65/35 poz w/12% gel & 15.52 gal. water/sk. Tail in w/50 sks. Cl. "B" w/2% Ca Cl. (65% excess to cover Ojo Alamo). WOC 12 hrs. Run temp. survey after 8 hrs. Test csg. to 600 PSI.
- C. Production Liner 4 1/2" - Use 210 sks. Cl. "B" w/4% gel. & 1/4 cu. ft. of fine Gilsonite/sk. Precede cmt. w/20 bbls. water mixed w/3 sks. gel (70% excess to circ. liner). Set liner pack off & reverse out excess cmt. Run 6 1/4# bit to top of liner & pressure test (test 12 hrs. 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 hrs. after plug is down.

NORTHWEST PIPELINE CORPORATION

MULTI-POINT SURFACE USE PLAN

for the San Juan 29-6 Unit

Well Number #22A

RECEIVED  
JUN 1 1977

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 San Juan 29-6 Unit water well located 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 as 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.

JUN 1 1977

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: J.P. Slattery, P.O. Box 90, Farmington, N.M. 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.

5-31-77  
Date

J. P. Slattery  
J.P. Slattery  
Drilling Engineer

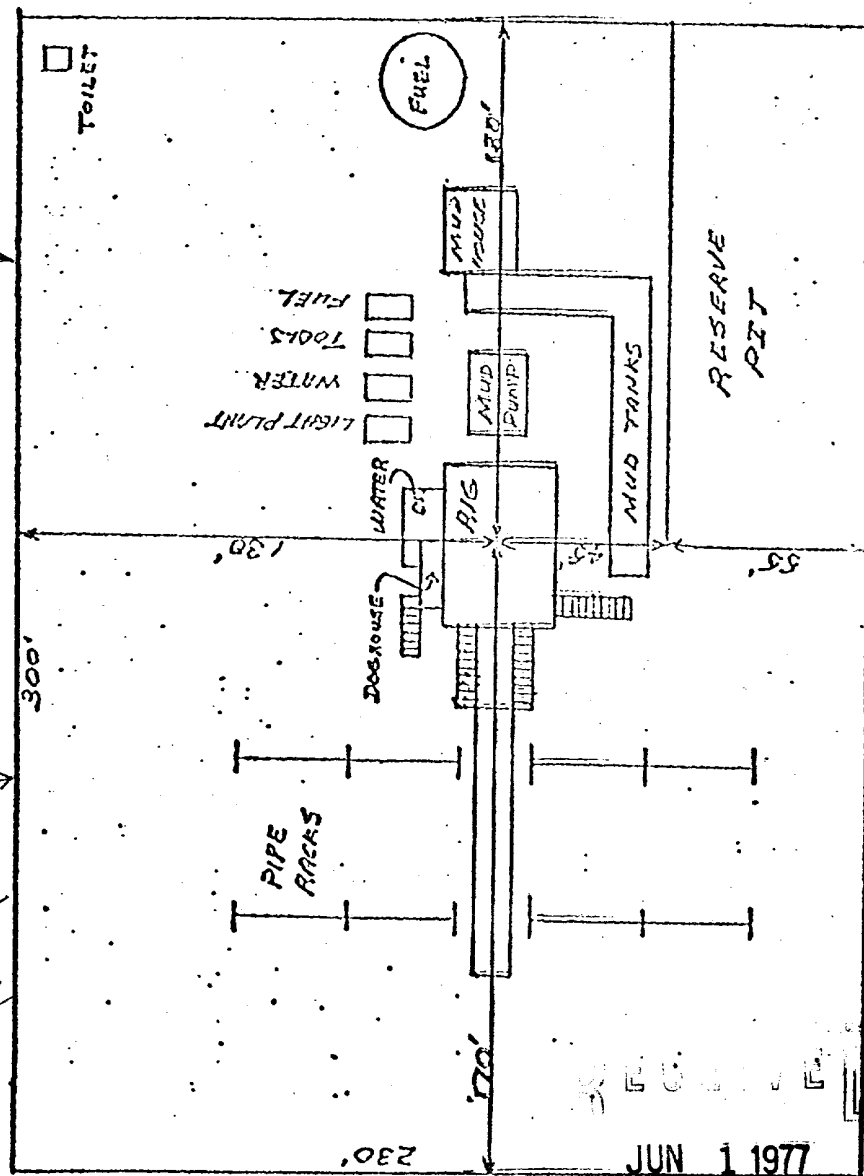
JPS/ks

NORTHWEST PIPELINE CORPORATION

LOCATION LAYOUT

SAN JUAN 29-6 UNIT #22A

ACCESS



DATE: 5/24/77  
SCALE: 1" = 40'

JUN 1 1977





JUN 1 1977

Vicinity Map for  
NORTHWEST PIPELINE CORP.  
#22A San Juan 29-6 Unit  
790' FSL 990' FEL Sec 12-T29N-R6W  
Rio Arriba County, New Mexico