### SUBMIT IN TRIPLICATE\*

Form approved. Budget Bureau No. 42-R1425.

5. LEASE DESIGNATION AND SERIAL NO.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

0-045-24570

USA-SF 079380

(Other instructions on reverse side)

# UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

T. UNIT AGREEMENT NAME 1a. TYPE OF WORK PLUG BACK DEEPEN DRILL X Unit San Juan b. TYPE OF WELL S. FARM OR LEASE NAME MULTIPLE Zone SINGLE  $\mathbf{x}$ WELL X OIL WELL OTHER Unit San Juan 32-8 2. NAME OF OPERATOR 9. WELL NO. Northwest Pipeline Corporation
3. ADDRESS OF OPERATOR #41 P.O. Box 90, Farmington, New Mexico 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*)

At surface 10. FIELD AND FOOL. OR WILDCAT 40 MOUNTS OF MOS Undesignated Fruitland 11. SEC., T., B., M., OR BLK. AND SURVEY OR AREA 1680' FNL & 1710' FWL Sec 23, At proposed prod. zone Same as above Sec 23 T32N R8W 12. COUNTY OR PARISH | 13. STATE 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\* 15 Miles South of Ignacio, Colorado San Juan Mew Mexico 17. NO. OF ACRES ASSIGNED TO THIS WELL 16. NO. OF ACRES IN LEASE 10. DISTANCE FROM PROPOSED\*
LOCATION TO NEAREST
PROPERTY ON LEASE LINE, FT.
(Also to neurest drig, unit line, if any) 160 / 1680' N/A 1760 20. ROTARY OR CABLE TOOLS 19. PROPOSED DEPTH 18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 3940' Rotary 22. APPROX. DATE WOBE WILL START\* 21. ELEVATIONS (Show whether DF, RT, GR, etc.) Sept 1980 PROPOSED CASING AND CEMENTING PROGRAM 23. QUANTITY OF CEMENT SETTING DEPTH WEIGHT PER FOOT SIZE OF CASING SIZE OF HOLE 100 sks 120' 8-5/8" 24# 12-1/4" 3940 150 sks 6.4# 6-1/4" <u>2-7/8"</u> AUG 181980 OIL CON. COM. Selectively perforate and stimulate the DIST. 3 Fruitland Formation Completion plans will be determined at Total Depth. A BOP will be installed after the surface casing is set and remented All subsequent work will be conducted through the BOP's. The Northwest quarter of Sec 23 is dedicated to this well. JUN 29 1980 Gas is dedicated. U. S. GEOLOCICAL SUBVEY EARMINGTON, N. .... This action is subject to administrative 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, DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED DATE June 5, 1980 / homeson "GENERAL REQUIREMENTS . Thompson (This space for Federal or State office use) PROVED APPROVAL DATE AF AMENDED CONTROLS OF ALTRIVATION AT JAMES F. SIMS DISTRICT ENGINEER \*See Instructions On Reverse Side

# OIL CONSERVATION DIVISION STATES LINEARLY

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

1320 1650

1980 2310

2640

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

MAY 1 1 18.80

Form C-102 kevised 10-1-78

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

Well No. Operator SAN JUAN 32-8 UNIT NORTHWEST PIPELINE CORPORATION County Unit Letter San Juan 8W 32N 23 Actual Footage Location of Well: 1710 feet from the West line 1680 North line and feet from the Dedicated Acreage: Pool Producing Formation Ground Level Elev. Undesignated Fruitland 160 Acres 6978 Fruitland 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? Unitization If answer is "yes," type of consolidation \_ X Yes No 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 Commis-**CERTIFICATION** hereby certify that the information contained herein is true and complete to the best of my Inowledge and belief. Oli-C. Thompson 1710' Drilling Engineer Northwest Pipeline Corp. May 21, 1980 Sec. I hereby certify that the well location 23 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 1980 13% Registered Professional Engine and/or Land Surveyor 1000 2000 1500

# NORTHWEST PIPELINE CORPORATION DRILLING PROGNOSIS

San Juan 32-8 Unit #41

LOCATION: 1680' FNL & 1710' FWL

Sec 23 T32N R8W San Juan Co., New Mexico

DATE: June 16, 1980 ELEVATION: 6978' GR

SURFACE: BLM FIELD: Undesignated Fruitland

MINERALS: FED SF - 079380

Depth

GEOLOGY: Surface Formation - San Jose II.

Formation Tops: Depth Formation Tops: 29781 Ojo Alamo 39401 Total Depth Kirtland 32701

Fruitland 3458'

B. Logging Program: I-ES and Neutron-Density with Gamma Ray at Total Depth.

#### III. DRILLING:

Contractor: Α.

Mud Program: Mud and water will be furnished by Northwest Pipeline Corp.

a) From Surface to Total Depth to be drilled with mud.

b) 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 recorded in the Northwest Pipeline tour reports as to time and date.

### IV. MATERIALS:

A. Casing Program:

Casing Flogia		Casing Size	Wt & Grade
<u> Hole Size</u>	<u>Depth</u> 120'	8-5/8"	24# K-55
12-1/4"	_	<u>•</u>	
6-1/4"	3940'	2-7/8"	6.4# J-55

Float Equipment:

Surface Casing: 8-5/8" Larkin Guide Shoe (Fig 102).

- b) Production Casing: 2-7/8" 6' to 8' joint with notched collar on bottom and a 2-7/8" Hallibutron Baffle (Fig 801.03095) on top of the shoe joint. Use two (2) 3-1/16" rubber balls and one (1) Halliburton Omega Latch-in Plug (Fig 801.0292) above cement in a 3-1/4" I.D. Plug container cementing head. Run six B&W centralizers (Fig 72281-00) on bottom six joints. Pump plug, followed by one barrel of 7-1/2% acetic acid. As soon as plug is bumped, pressure up to 4000 psi test casing.
- C. Tubing: NONE.
- D. Well Head Equipment: Larkin.

#### Cementing: v.

Surface Casing: 8-5/8" - Use 100 sacks of Class "B" cement with 1/4#

Flocele/sack and 3% CaCl<sub>2</sub> (100% excess). WOC 12 hrs.

B. Production Casing: 2-7/8" - Use 50 sks Class "B" 65/35 poz w/ 12% gel and 12-1/2# of fine gilsonite per sack. Tail in with 100 sacks of Class "B" cement with 6% gel and 10# gilsonite/sk. (Slurry volume -274 cu.ft). (70% excess to fill to the top of the Ojo Alamo).

Drilling Prognosis San Juan 32-8 Unit #41 Page #2

V. Cementing Cont'd:

Run temp survey after 12 hrs.

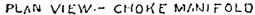
\*\*\*NOTE: Test Surface casing to 600 psi for 30 minutes.

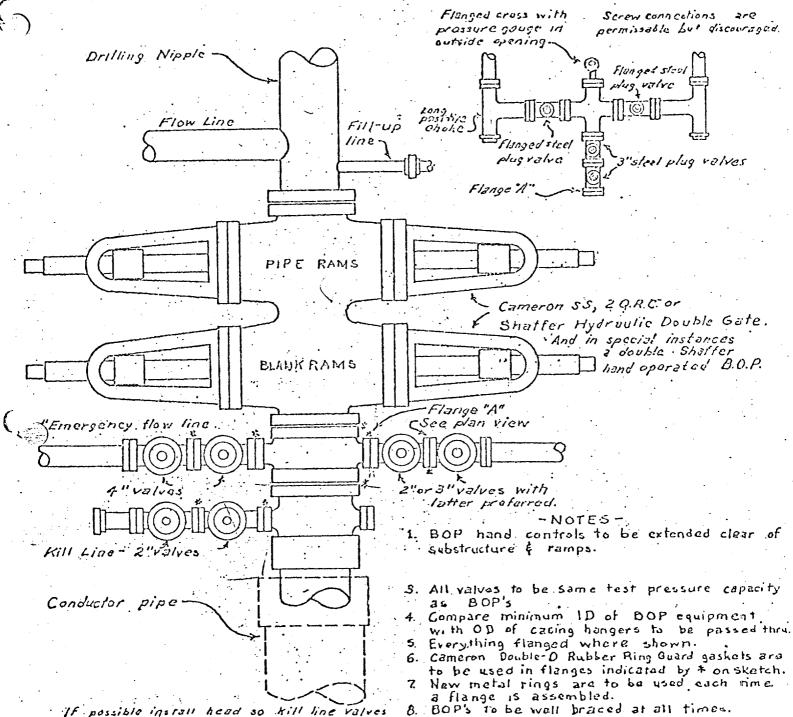
F. H. Wood

MJT/djb

Original: Well File

sc: Regular Distribution





If possible install head so kill line valves will be urder BOP's for protection.

These valves to be kept closed after BOP's tested & kill line removed (by use of quick union) to fill-up line.

When used this way kill line must be high-prossure.

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:

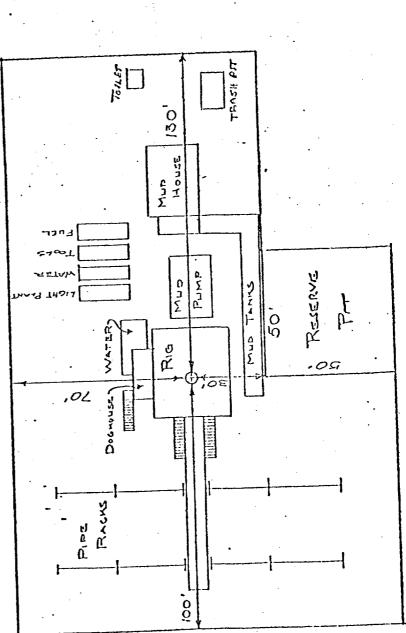
I hereby certify that I have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge true and correct; and, that the work associated with the operations proposed herein will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

NJB/ch

CORPORATION PIPELINE 644 out LOCATION NORTH WEST

SAN JUAN 32-8



DATE: 6/9/80

