SUBMIT IN TRIPLICATE*

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES DEPARTMENT OF THE INTERIOR

(Other instructions on reverse side)

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| (31.6) (38) | UNIT | ED STATES | reverse sic | |
|--|--|---|--------------------------------------|--|
| | DEPARTMENT | OF THE IN | TERIOR | 5. LEASE DESIGNATION AND SERIAL NO. |
| | | SICAL SURVEY | | USA -SF-078998 |
| | | | | |
| | FOR PERMIT I | C DRILL, DE | EEPEN, OR PLUG B. | - CK |
| Ia. Type of work | L X | DEEPEN 🗌 | PLUG BAC | K 7. UNIT AGREEMENT NAME |
| b. Type of Well | - L M | DEELEI (C | | San Juan 32_7 Unit |
| OU. FT GA | S. X OTHER | | SINGLE X ZONE | |
| 2. NAME OF OPERATOR | | | | San Juan 32-7 Unit |
| Northwest Pip | <u>eline Corporati</u> | <u>oa</u> | | #71 |
| 3. ADDRESS OF OPERATOR | | | | 10. FIELD AND POOL, OR WILDCAT |
| P.O. Box 90, | Farmington, New | Mexico 874 | Ol any State requirements.*) | Blanco Mesa Verde |
| At surface | | | | 11. SEC., T., B., M., OR BLK. |
| | FNL & 1550' FW. | | 31N R7W | AND SURVEY OR AREA |
| At proposed prod. zone | · Same as above | | | Sec 9 T31N R7W |
| 14. DISTANCE IN MILES A | ND DIRECTION FROM NEAR | EST TOWN OR POST | OFFICE* | 12. COUNTY OR PARISH 13. STATE |
| | uth of Ignacio. | | | San Juan New Mexico |
| 15. DISTANCE FROM PROPO | SED* | <u> </u> | 16. NO. OF ACRES IN LEASE | 17. NO. OF ACRES ASSIGNED TO THIS WELL |
| LOCATION TO NEAREST PROPERTY OR LEASE L | INE, FT. | 1040' | N/A 171891 | N/320 |
| (Also to nearest drig | INED LOCATION* | | 19. PROPOSED DEPTH | 20. ROTARY OR CABLE TOOLS |
| TO NEAREST WELL, DI OR APPLIED FOR, ON THE | tilling, completed, | N/A | 5990 ' | Rotary · |
| 21. ELEVATIONS (Show who | ther DF, RT. GR, etc.) | | | 22. APPROX. DATE WORK WILL START* |
| 6571 | | | | Sept 1980 |
| 23. | P | ROPOSED CASING | G AND CEMENTING PROGRA | 1M |
| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOO | OT SETTING DEPTH | QUANTITY OF CEMENT |
| 12-1/4" | 9-5/8" | 36 | 200 | 115 sks |
| 8-3/4" | 7" | 20 | 3860' | 235 sks |
| 6-1/4" | 4-1/2" | 10.5 | 3660' - 5990' | 235 sks |
| A BOP will be work will be The North ha Gas is dedic | lans will be deference installed after conducted through the second of the second in the second of t | termined at er the surfaugh the BOP' dedicated to | ace casing is set a s. b. this well. | Jan J. William |
| 24. | - 1 | | | T 5 1000 |
| SIGNED Paul | C. Thomps | UN TIT | Drilling Engin | eer June 5, 1980 |
| Paul Cr | Thompson | | | |
| (Ins. spice. in I | | | | |
| PERMIT NO. | | | APPROVAL DATE | ====VED |
| | | | | APPROVED |
| CONDITIONS OF APPRO | | TIT | 1,6 | AS AMENDED |
| | | | | Januar & Line |
| ak Sm | | *See Instru | ctions On Reverse Side | DISTRICT ENGINEER |

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

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

Form C-107 Revised 10-1-78

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

| Operator | | | Lease | | | | Well No. |
|---|-------------------------------------|--|--|-----------------------|---------------------------------------|---------------------------------------|--|
| NORTHWEST PIPELINE CORPORATION | | | SAN J | SAN JUAN 32-7 UNIT 71 | | | 71 |
| Unit Letter | Section | Township | Range | | County | · | |
| C | 9 | 31N | <u> 7</u> W | | San Ju | nan | |
| Actual Footage Location of Well: 1010 feet from the North line and 1550 feet from the West line | | | | | | | |
| 1040 Ground Level Elev. | feet from the Producing For | North line and | P∞1 | leet | from the | | line cated Acreage: |
| 6571 | Mesa V | erde | Blanco | Hesa Verd | le | | 320 Acres |
| | e acreage dedica | ted to the subject v | vell by color | ed pencil or | hachure ma | arks on the pla | it below. |
| 2. 00 | 8 | • | | • | | - | |
| 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? | | | | | | | |
| X Yes | ☐ No If an | nswer is "yes," type | of consolida | tion | Unitizat | tion | |
| | . 44 10 11 -1 | 1 | | | 4a.11 L | | (Ilaa maaraa 623 t |
| | | owners and tract des | criptions wh | ich have ac | tually been | consolidated. | (Use reverse side of |
| | f necessary.) | ed to the well until a | ll interests l | ave heen c | onsolidated | (by communit | rization unitization. |
| | | or until a non-stands | | | | | |
| sion. | | • | | Ū | | • | |
| | | The section of the section | To Tostavan , G | | 5 1 20 - 10842 | CFF | RTIFICATION |
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| | 1010 | | | | | tained herein is | true and complete to the |
| | | | i | | ** | best of my know | rledge and belief. |
| יי 1550 | | | 1 | | | Paul C. | -1/2 |
| | | | .1 | | | Nome | 1 company |
| | + | · - | | | · — - | Paul C. Tho | mpson |
| | 1 | | 1 | | | Position | |
| | • | | ļ | | | Orilling En | gineer |
| | . 1 | | ; | | | Comp ony Northwest P | ipeline Corp |
| | i | | 1 | • | | Date | |
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| | 1 | | į | | 16 | Fred B | Part 37. |
| | | | | | | Certifican No. | N. A. |
| | | | | | ,, | 3950 | 8. KERR. |

NORTHWEST PIPELINE CORPORATION

DRILLING PROGNOSIS

San Juan 32-7 Unit #71

DATE: June 16, 1980

MINERALS:

LOCATION: 1040' FNL & 1550' FWL

ELEVATION: 6571' GR

Sec 9 T31N R7W

BLMSan Juan Co., New Mexico SURFACE: Fed - SF - 078998

FIELD: Blanco Mesa Verde

II. GEOLOGY: Surface Formation - San Jose

| $\frac{1}{A}$. | Formation Tops: | Depth | Formation Tops | Depth |
|-----------------|-----------------|------------------|----------------|---------------|
| | Ojo Alamo | 2461' | I.ewis | 3661' |
| | Kirtland | 2561' | Cliff House | 5426 ' |
| | Fruitland | 3046' | Menefee | 5496 ' |
| | Pictured Cliffs | 3451' | Point Lookout | 5746 ¹ |
| | | U | Total Depth | 5990' |

B. Logging Program: Production Casing Point - Gamma Ray-Induction and Density.

C. Natural Gauges: Gauge at last connection above 5496', 5746', and at Total Depth. Gauge any noticeable increases in gas flow @ depth other than those noted above. Record all gauges on daily drilling and morning reports.

III. Drilling:

- A. Contractor:
- B. Mud Program: Mud, water and gas will be furnished by Northwest Pipeline Corporation from Surface to Total Depth.
 - a) From Surface to Intermediate casing depth to be drilled with mud.
 - b) From Intermediate casing to Total Depth to be drilled with gas.
- C. 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 reported in the Northwest Pipeline tour reports as to time and date.

IV. Materials:

A. Casing Program:

| Hole Size | Depth O.H. | Casing Size | WT & Grade | |
|-----------|---------------|-------------|------------------|--------------|
| 12-1/4" | 200' | 9-5/8" | 32.3# H-40 | |
| 8-3/4" | 38601 | 7" | 20# K-55 | |
| 6-1/4" | 5990 ' | 4-1/2" | 10.5# K-55 (366 | 50' - 5990') |

B. Float Equipment:

a) Surface Casing: 9-5/8" - B&W Regular Pattern Shoe.

- b) Intermediate Casing: 7" Dowell guide shoe (Code #50101-070) and self fill insert float collar (Code #53003-070). Seven centralizers (Code #56011-070) spaced every other joint above the shoe. Place float one joint above shoe.
- c) Liner: 4-1/2" Larkin geyser shoe (Fig 222) and Larkin Flapper type float collar (Fig 404). Burns liner hanger with neopreme pack off.
- C. Tubing Program: 5940' of 2-3/8", 4.7#, EUE, J-55 tubing with seating nipple on top cf bottom joint. Expendable check valve on bottom.

D. Well Head Equipment: WKM Well Head. WKM representative to set slips and Make cut off.

V. Cementing:

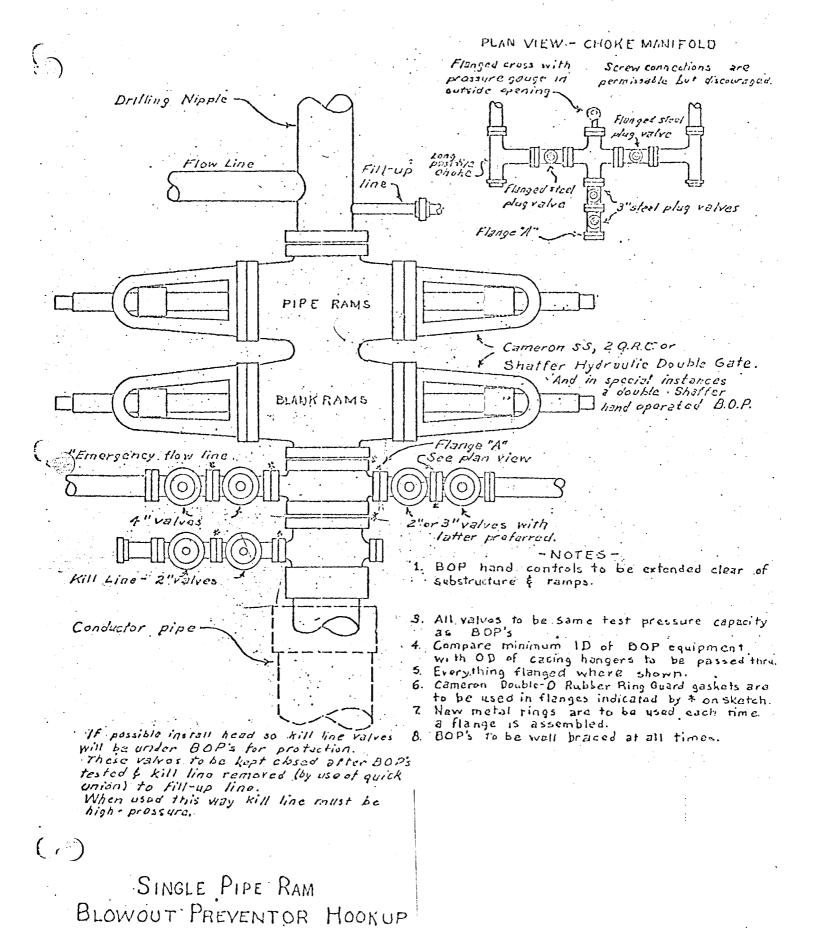
- A. Surface Casing: 9-5/8" Use 115 sks of Class "B" with 1/4# gel flake per sk and 3% CaCl₂ (100% excess to circulate). WOC 12 hrs. Test surface casing to 600 psi for 30 min.
- B. Intermediate Casing: 7" Use 160 sks of 65/35 poz with 6% gel. (Yield 1.63). Tail in with 75 sks Class "G" with 2% CaCl₂ (65% excess to cover Ojo Alamo). WOC 12 hrs. Run temp survey at 8 hrs. Test casing to 600 psi.
- C. Production Liner: 4-1/2" Use 235 sks of Class "B" with 4% gel and 1/4 cu.ft of fine Gilsonite per sk. Precede cement with 20 bbls water mixed with 3 sks gel. (70% excess to circulate liner). Clean out with 6-1/4" bit to top of liner and pressure test with rig pump. (Test 12 hrs after plug is down). Lay down drill pipe and run 3-7/8" bit on 2-3/8" EUE tubing and clean out liner. Perforate 18 hrs after plug is down.

F. H. Wood

m MJT/djb

Original: Well File

sc: Regular Distribution



- 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 Orilling Engineer

WJB/ch

32-7

290' Buch PIPE RACKS 45 1816 MUD TANKS MUD DITT BUSSERVE TOOLS FUEL Fuel

