Form 9-331C
(May 1963)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

30-039-22108

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL: OIL WELL [ ] GAS WELL [X] OTHER — SINGLE ZONE [X] MULTIPLE ZONE [ ]

2. NAME OF OPERATOR: Northwest Pipeline Corporation

3. ADDRESS OF OPERATOR: P.O. Box 90 Farmington, New Mexico 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: G 1850' FNL & 1185' FEL
At proposed prod. zone: as above

5. LEASE DESIGNATION AND SERIAL NO.: SF-078999

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME: San Juan 31-6 Unit

8. FARM OR LEASE NAME: San Juan 31-6 Unit

9. WELL NO.: 33

10. FIELD AND POOL, OR WILDCAT: Basin Dakota

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 34, T31N, R6W

12. COUNTY OR PARISH: Rio Arriba | 13. STATE: NM

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 65 miles east of Aztec, N.M.

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)	16. NO. OF ACRES IN LEASE	17. NO. OF ACRES ASSIGNED TO THIS WELL
1185'	NA	N/320
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.	**19. PROPOSED DEPTH**	**20. ROTARY OR CABLE TOOLS**
NA	8300	Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 6501' GR

22. APPROX. DATE WORK WILL START*: July 30, 1979

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#	350	185 sks
8 3/4"	7"	20#	4015	175 sks
6 1/4"	4 1/2"	10.5# & 11.6#	8300	362 sks

Selectively perforate and stimulate the Dakota formation.

A BOP will be installed after the surface casing is set and cemented. All subsequent work will be conducted through the BOPs.

The North half of Section 34 is dedicated to this well.

Gas is dedicated.

RECEIVED
JUL 2 1979
OIL CON. COM.
DIST. 3

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 William Billman W.J. Billman TITLE Drilling Engineer DATE 6/26/79

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

ah Frank

JUN 29 1979

*See Instructions On Reverse Side

U. S. GEOLOGICAL SURVEY
DURANGO, COLO.

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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

Form C-102
Revised 10-1-78

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

Operator	Lease	Well No.
NORTHWEST PIPELINE CORPORATION	SAN JUAN 31-6 UNIT	33

Unit Letter	Section	Township	Range	County
G	34	31N	6W	Rio Arriba

Actual Footage Location of Well:
1450 feet from the North line and 1450 feet from the East line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
6494	Dakota	Basin Dakota	320 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.

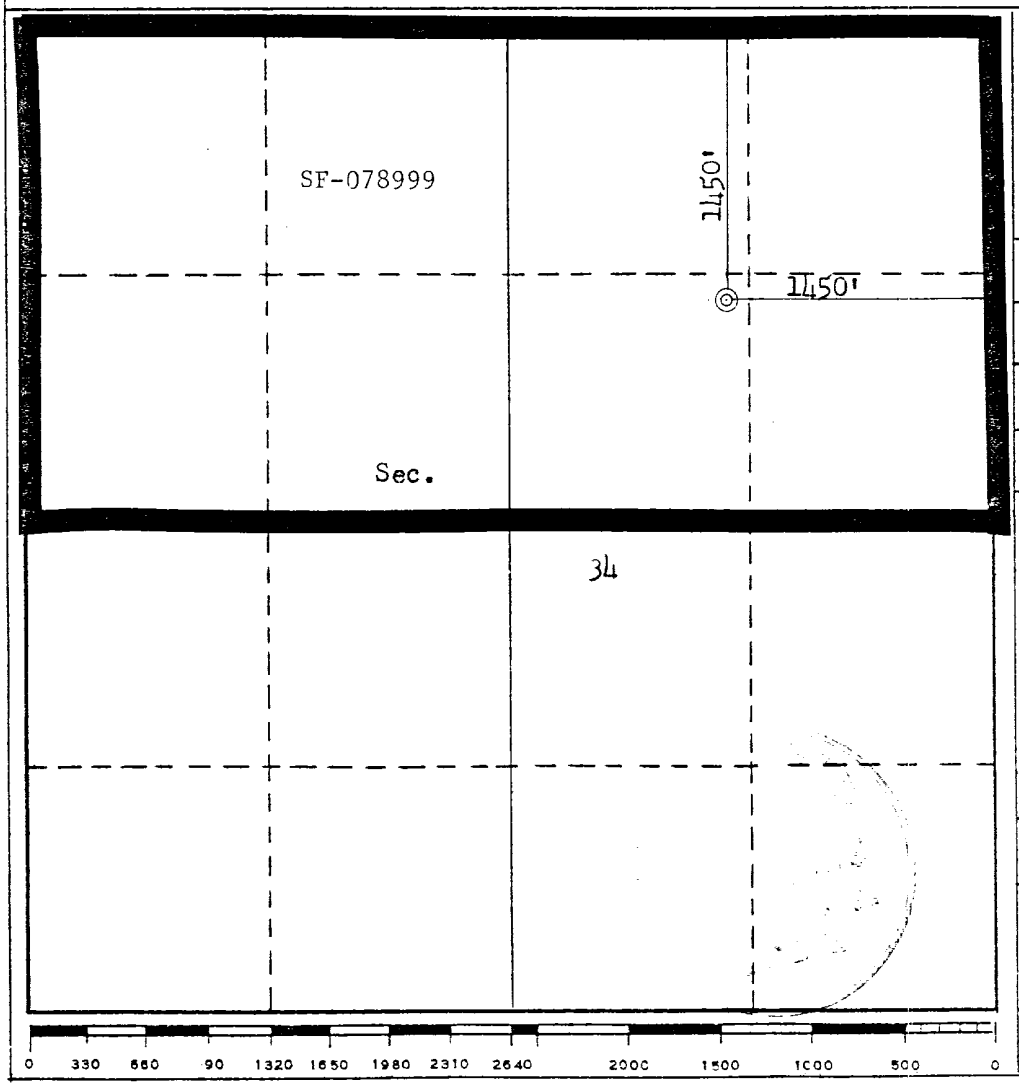
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

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?

☐ 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.

William J. Billman

Name: William J. Billman

Position: Drilling Engineer

Company: Northwest Pipline Corp.

Date: 6/26/79

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: June 23, 1979

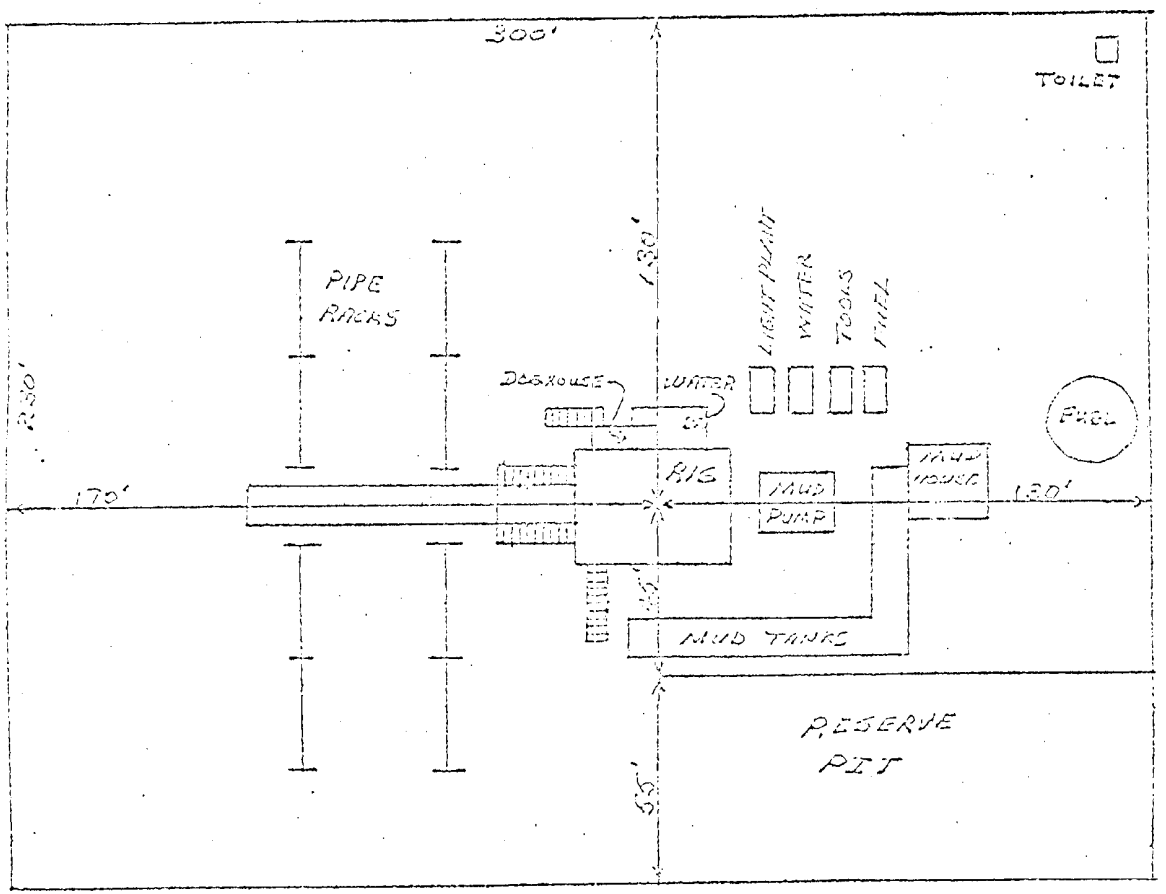
Registered Professional Engineer and/or Land Surveyor

Fred B. Kerr Jr.

REGISTERED LAND SURVEYOR
FRED B. KERR, JR.

Certificate No. 3950

NORTHWEST PIPELINE CORP. San Juan 31-6 #33



DATE:

SCALE: 1cm = 20'

OPERATIONS PLAN

I. WELL NAME: San Juan 31-6 #33 — June 27, 1979

LOCATION: 1850' FNL & 1185' FEL
Sec. 34, T31N, R6W — LEASE NUMBER: SF-078999

FIELD: Basin Dakota — ELEVATION: 6501'

II. GEOLOGY:

A. Formation Tops:

Ojo Alamo	2740'	Cliff House	5491'
Kirtland	2792'	Point Lookout	5691'
Fruitland	3102'	Greenhorn	7696'
Pictured Cliffs	3262'	Graneros	7746'
Lewis	3521'	Dakota	7921'
		Total Depth	8300'

B. Logging Program: Gamma Ray Induction & Density at Total Depth.

C. Coring Program: None

D. Natural Gauges: Gauge at 5691',7696',7746', and at total depth. Gauge any noticable increases in gas flow at depths other than those noted above. Record all gauges on daily drilling reports and tower reports.

III. DRILLING:

A. BOP: Blind rams and pipe rams, 10', 900 series, double gate, rated at 3000 psi.

B. Mud Program:

a) Spud Mud: Water, lime and gel.

b) Surface to 350'.
Viscosity: 32-38 sec/qt.
Weight: 8.8-9.2 #/gal.
Water Loss: 8-20 cc
Ph: 8.5-9.5

c) From 350' to 4015'
Viscosity: 36-45 sec/qt.
Weight: 8.5-9.5 #/gal.
Water Loss: 8-20 cc
Ph: 8.5-9.5

d) From 4015' to total depth with gas.

IV. MATERIALS:

A. Casing Program:

Hole Size	Depth	Casing Size	Wt. & Grade
12 1/4"	350'	9 5/8"	32.3# H-40
8 3/4"	4015'	7"	20# K-55
6 1/4"	8300'	4 1/2"	10.5# & 11.6# K-55

B. Float Equipment:
Surface - 9 5/8" guide shoe.
Intermediate - 7 " guide shoe, self-filling insert float valve.
Production - 4 1/2" geyser shoe, flapper type float collar.

C. Tubing: 8250' of 2 3/8" 4.7#, J-55, 8RD EUE tubing with a common seating nipple above bottom joint.

D. Well Head Equipment: Gray Tool Company drawing No. E-5533, or equivalent. Well head representative to set slips on intermediate and production strings.

V. CEMENTING:

A. Surface Casing: 9 5/8" - Use 185 sacks of classl "B" cement with 1/4# gel flake per sack and 3% calcium chloride, (100% excess to circulate 9 5/8" casing). WOC 12 hours. Test to 600 psi for 30 minutes.

B. Intermediate Casing: 7" - Use 175 sacks of 65/35 Class "B" poz with 12% gel and 15.52 gallons of water per sack. Tail in with 50 sacks of Class "B" with 2% calcium chloirde (360 cu. ft. of slurry 50% excess to cover Ojo Alamo). Use top rubber plug only. Run temperature survey after 8 hours. WOC 12 hours. Test casing to 1200 psi for 30 minutes.

C. Production Casing: 4 1/2" - Precede cement with 40 barrels of water mixed with 4 sacks gel. Cement with 262 sacks of Classl "B" cement with 8% gel, 12 1/2# fine gilsonite per sack and 0.4% HR-4. Tail in with 100 sacks of Class "B" cement with 1/4% fine tuf-plug per sack ans 0.4% HR-4 per sack.

WJB/ch

NORTHWEST PIPELINE COPORATION

MULTI - POINT SURFACE USE PLAN

for the San Juan 31-6 Unit

Well Number 33

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 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.

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.

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 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.

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 raod is gently sloped with scattered brush and some grasses.

12. Operator's Representative: W.J. Billman - P.O. Box 90 - Farmington, New Mexico 87401. Phone: 327-5351 Extinsion #103.

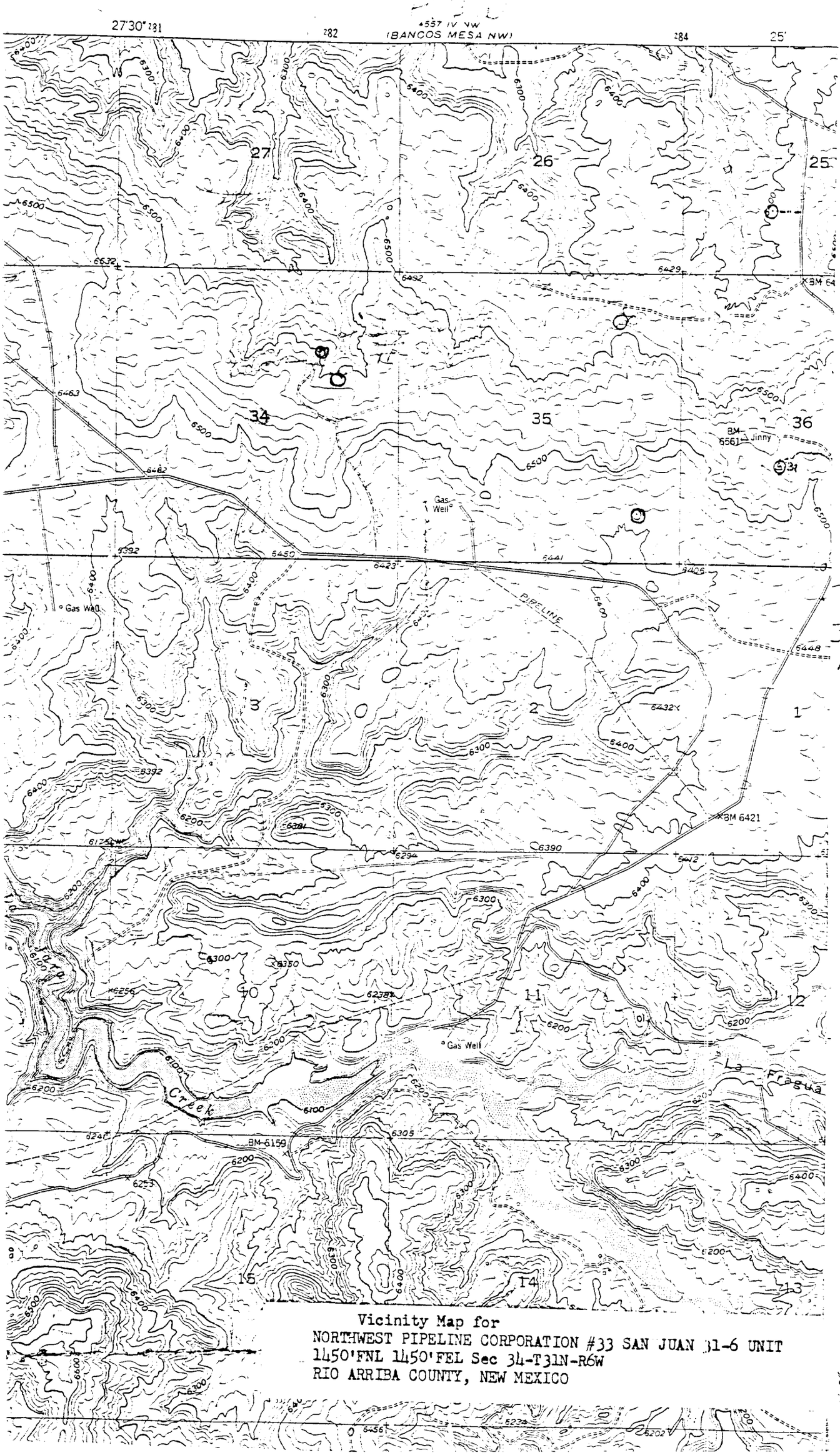
13. Certification:

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.

6/28/79
Date

William J. Billman
W.J. Billman
Drilling Engineer

WJB/ch



Vicinity Map for
NORTHWEST PIPELINE CORPORATION #33 SAN JUAN 31-6 UNIT
1450'FNL 1450'FEL Sec 34-T31N-R6W
RIO ARRIBA COUNTY, NEW MEXICO