

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

30-039-22571
5. LEASE DESIGNATION AND SERIAL NO.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1. TYPE OF WORK
DRILL ☒ DEEPEN ☐ PLUG BACK ☐

b. TYPE OF WELL
OIL WELL ☐ GAS WELL ☒ OTHER ☐
SINGLE ZONE ☒ 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 1050' FSL & 890' FWL Section 6, T30N, R5W
At proposed prod. zone Same as above

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
25 Miles East of Navajo Dam

15. DISTANCE FROM PROPOSED*
LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any) 890'

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT. 900'

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
6402' GR

16. NO. OF ACRES IN LEASE
1158.12 N/A 2.

19. PROPOSED DEPTH
7870'

17. NO. OF ACRES ASSIGNED
TO THIS WELL 5/320 ✓

20. ROTARY OR CABLE TOOLS
Rotary

22. APPROX. DATE WORK WILL START*
December 1980

23. PROPOSED CASING AND CEMENTING PROGRAM

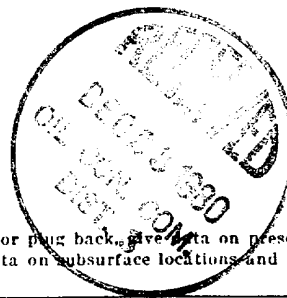
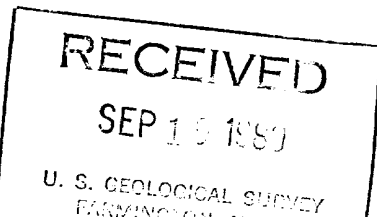
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	9-5/8"	32.3#	350'	115 sx
8-3/4"	7"	20#	3572'	140 sx
6-1/4"	4-1/2"	10.5# & 11.6#	7870'	360 sx

This action is subject to administrative

Selectively perforate and stimulate the Dakota Formation. Completion plans will be determined at Total Depth.

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

The South half of Section 6 is dedicated to this well. Gas is dedicated.



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 Paul C. Thompson TITLE Drilling Engineer DATE 9-16-80
Paul C. Thompson
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

ch 300

*See Instructions On Reverse Side

PCT/djb

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

Operator NORTHWEST PIPELINE CORPORATION			Lease SAN JUAN 30-5 UNIT		Well No. 50
Unit Letter M	Section 6	Township 30N	Range 5W	County Rio Arriba	
Actual Footage Location of Well: 1050 feet from the South line and 890 feet from the West line					
Ground Level Elev: 6402	Producing Formation Dakota		Pool Basin Dakota		Dedicated Acreage: 320 Acres

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- 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 Unitization

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.

		Sec.
		6

Scale: 1"=1000'

CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Paul C. Thompson

Name
Paul C. Thompson
Position
Drilling Engineer
Company
Northwest Pipeline Corp.
Date
August 28, 1980

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
August 28, 1980
Registered Professional Engineer and Land Surveyor
Fred B. Kerr, Jr.
Fred B. Kerr, Jr.
Certification No.
3950

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☐ gas ☒ other

2. NAME OF OPERATOR
Northwest Pipeline Corporation

3. ADDRESS OF OPERATOR

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1050' FSL & 890' FWL
AT TOP PROD. INTERVAL: Same as above
AT TOTAL DEPTH: Same as above

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:	SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF <input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE <input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES <input type="checkbox"/>	<input type="checkbox"/>
ABANDON* <input type="checkbox"/>	<input type="checkbox"/>
(other) <u>Cement change.</u>	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

We would like to change the Surface cement from 115 sacks to 185 sacks as reported on Application.

5. LEASE
SF-080066

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
San Juan 30-5 Unit

8. FARM OR LEASE NAME
San Juan 30-5 Unit

9. WELL NO.
#50

10. FIELD OR WILDCAT NAME
Basin Dakota

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec 6, T30N, R5W

12. COUNTY OR PARISH
Rio Arriba

13. STATE
New Mexico

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
6402' GR

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

Subsurface Safety Valve: Manu. and Type

Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED James F. Sims TITLE Production Clerk DATE Sept 19, 1980

AS AMENDED

(This space for Federal or State office use)

APPROVED BY James F. Sims TITLE _____ DATE _____
JAMES F. SIMS
DISTRICT ENGINEER

CONFIDENTIAL

NORTHWEST PIPELINE CORPORATION

DRILLING PROGNOSIS

Well Name: San Juan 30-5 Unit #50

Date: September 16, 1980

I. LOCATION: 1050' FSL & 890' FWL
Sec 5, T30N, R5W
Rio Arriba Co., New Mexico

ELEVATION: 6402' GR

SURFACE: BLM

MINERALS: Fed - SF - 080066

FIELD: Basin Dakota:

II. GEOLOGY: Surface - San Jose

<u>A. Formation:</u>	<u>Depth:</u>	<u>Formation:</u>	<u>Depth:</u>
Ojo Alamo	2605'	Mancos	5872'
Kirtland	2693'	Gallup	6697'
Fruitland	3003'	Greenhorn	7587'
Pictured Cliffs	3163'	Graneros	7637'
Lewis	3372'	Dakota	7767'
Cliff House	5392'	Total Depth	7870'
Point Lookout	5587'		

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

C. Natural Gauges: Gauge @ 5392', 6697', 7767', and @ Total Depth. Record all gauges on daily drilling report and morning report. Gauge all noticeable increases in gas while drilling & report.

III. DRILLING:

A. Contractor:

B. Mud Program: Mud, water & gas will be furnished by Northwest Pipeline Corp from surface to total depth.

a) From Surface to Intermediate casing depth to be drilled with mud.

b) From Intermediate casing depth to T.D. will be drilled with gas.

C. While drill pipe is in use, pipe rams shall be actuated to test proper functioning not less than once each day. The blind rams shall be actuated to test proper functioning once each trip. All tests will be reported in the Northwest Pipeline tour reports as to time and date.

IV. MATERIALS:

A. Casing Program:

<u>Hole Size</u>	<u>Depth</u>	<u>Casing Size</u>	<u>Wt & Grade</u>
12-1/4"	350'	9-5/8"	36# K-55
8-3/4"	3572'	7"	20# K-55
6-1/4"	7870'	4-1/2"	10.5# K-55 (To 6800')
		4-1/2"	11.6# K-55 (6800' to TD)

B. Float Equipment:

a) Surface Casing: 9-5/8" - Larkin Guide Shoe and Self-fill insert float valve.

b) Intermediate Casing: 7" - Dowell guide shoe, Dowell self fill insert float valve. Dowell centralizers five (5).

c) Production Casing: 4-1/2" - Larkin Geyser Shoe. Larkin Flapper type float collar.

C. Tubing: 7820' of 2-3/8", 4.7#, J-55, 10 RD EUE tubing with common seating nipple above bottom joint.

Drilling Prognosis

San Juan 30-5 Unit #50

Page #2

- 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 115 sks of C1 "B" cement with 1/4# gel flake per sack and 3% CaCl_2 (100% excess to circulate 9-5/8" casing). WOC 12 hrs. Test to 600² psi for 30 min.
- B. Intermediate Casing: 7" - Use 65 sks of 65/35 Class "B" poz with 12% gel and 15.2 gal of water per sk. Tail in with 75 sacks of Class "B" with 2% CaCl_2 (240 cu.ft of slurry, 65% excess to cover Ojo Alamo). Use top rubber plug only. Run temperature survey after 8 hrs. WOC 12 hrs. Test casing to 1200 psi for 30 min.
- C. Production Casing: 4-1/2" - Precede cement with 40 bbls of water mixed with 4 sks gel. Cement with 260 sks of C1 "B" cement with 8% gel, 12-1/2# fine gilsonite per sk and 0.4% HR-4. Tail in with 100 sks of C1 "B" cement with 1/4# fine tuf-plug per sack. (660 cu.ft of slurry), (50% excess to fill to intermediate csg). Run temperature survey after 8 hrs. Perforate after 18 hrs.


F. H. Wood

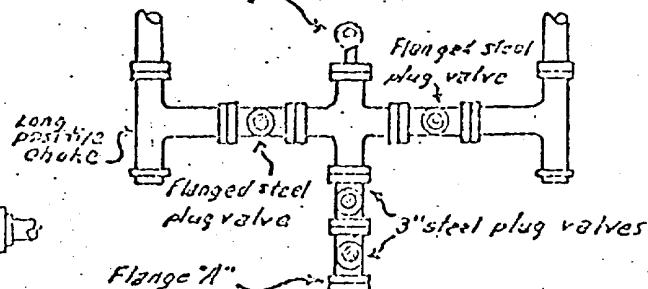
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Original: Well File
sc: Regular Distribution

PLAN VIEW - CHOKE MANIFOLD

Flanged cross with pressure gauge in outside opening.

Screw connections are permissible but discouraged.



Drilling Nipple

Flow Line

Fill-up line

Long positive choke

Flanged steel plug valve

3" steel plug valves

Flange "A"

PIPE RAMS

BLANK RAMS

Cameron SS, 2 Q.R.C. or

Shaffer Hydraulic Double Gate.

And in special instances a double Shaffer hand operated B.O.P.

"Emergency flow line"

Flange "A" See plan view

4" valves

2" or 3" valves with latter preferred.

Kill Line - 2" valves

Conductor pipe

- NOTES -

1. BOP hand controls to be extended clear of substructure & ramps.
2. All valves to be same test pressure capacity as BOP's.
3. Compare minimum ID of BOP equipment with OD of casing hangers to be passed thru.
4. Everything flanged where shown.
5. Cameron Double-D Rubber Ring Guard gaskets are to be used in flanges indicated by * on sketch.
6. New metal rings are to be used each time a flange is assembled.
7. BOP's to be well braced at all times.

If possible install head so kill line valves will be under 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 pressure.

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.
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 the seed mixture recommended by BLM.

All equipment above ground will be painted a non-glare, non-reflective, non-chalking color that simulates the natural color of the site.
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.

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.

12. Operator's Representative: Paul C. Thompson - P.O. Box 90, Farmington, New Mexico 87401. Phone: 327-5351.

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.

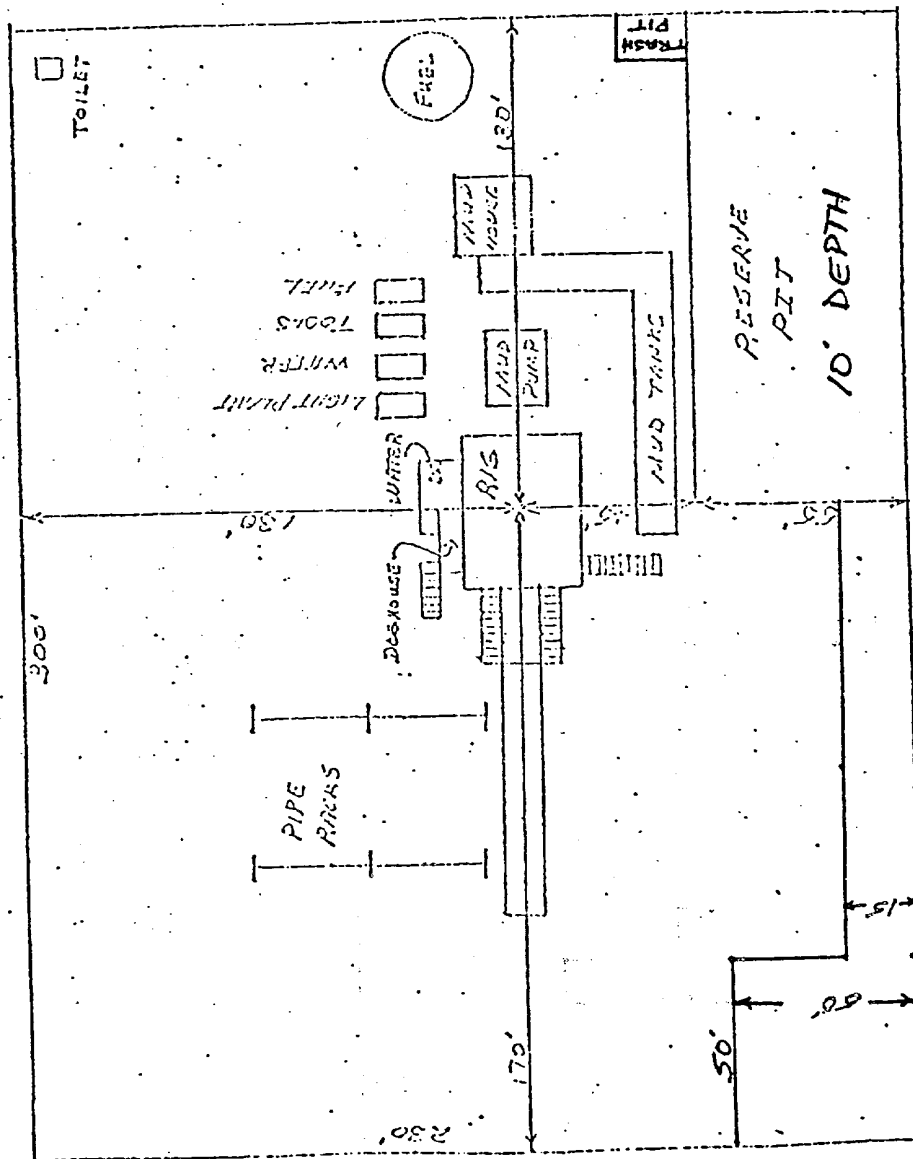

Paul C. Thompson
Drilling Engineer

PCT/djb

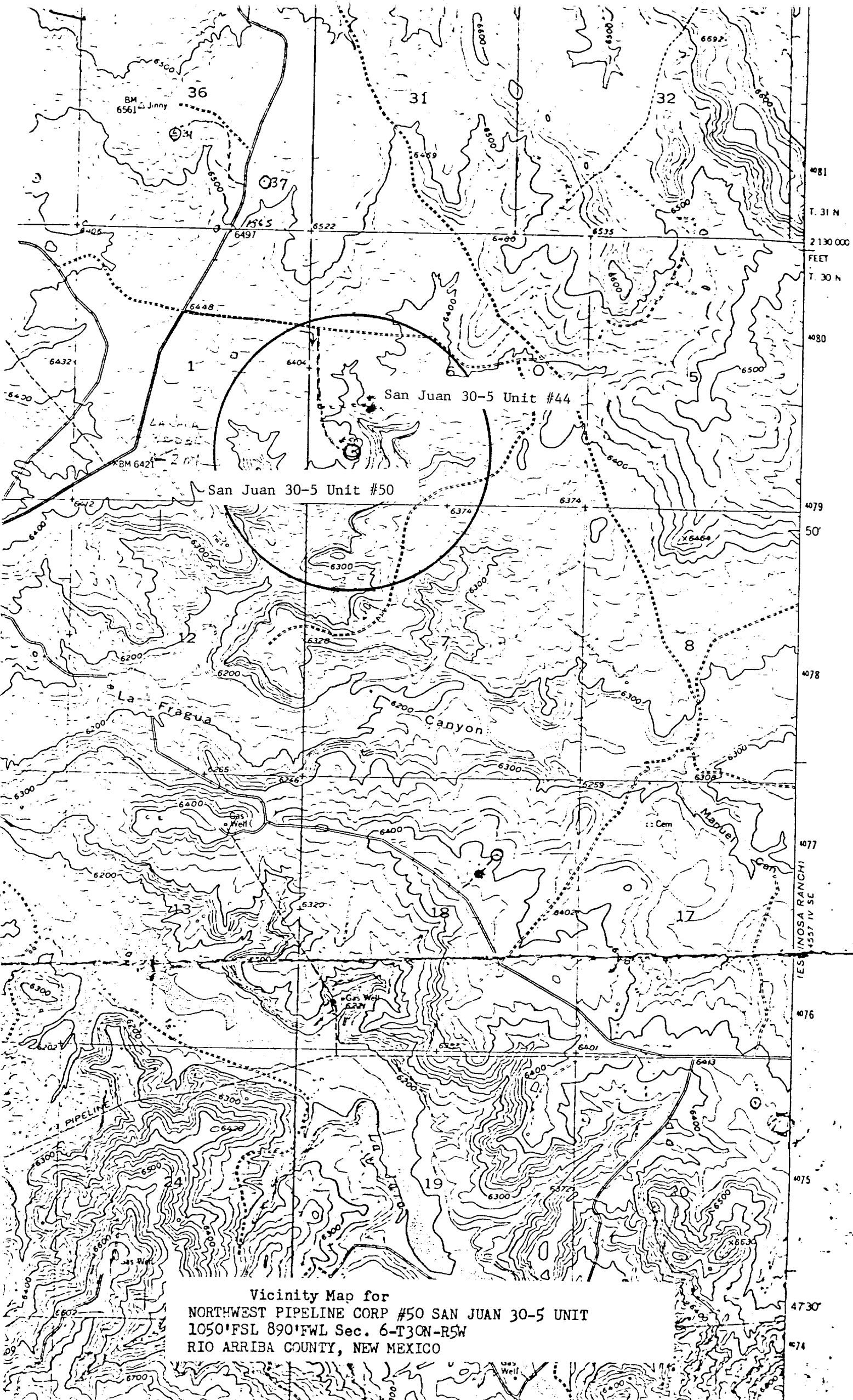
NORTHWEST PIPELINE CORP.

YAKOTAS & MCSA-VEEDER

San Juan 30-5 Unit #50



DATE: 9/17/80
SCALE: 1cm = 20'



Vicinity Map for
NORTHWEST PIPELINE CORP #50 SAN JUAN 30-5 UNIT
1050' FSL 890' FWL Sec. 6-T30N-R5W
RIO ARriba COUNTY, NEW MEXICO

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