

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

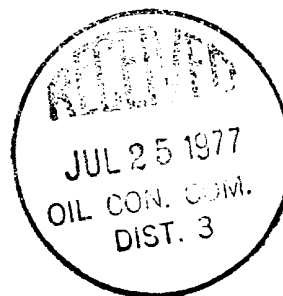
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>			5. LEASE DESIGNATION AND SERIAL NO. Contract #9 30-039-21467	
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>			6. IF INDIAN, ALLOTTEE, OR TRIBE NAME Jicarilla Apache	
2. NAME OF OPERATOR Northwest Pipeline Corporation			7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR P.O. Box 90 - Farmington, N.M. 87401			8. FARM OR LEASE NAME Jicarilla 93	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 1715' FNL & 960' FWL At proposed prod. zone As above			9. WELL NO. 9	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*			10. FIELD AND POOL, WILDCAT Gavilan Pictured Cliff	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 960'			11. SEC., T., R., M., OR L. AND SURVEY OR AREA Sec. 34, T27N, R3W	
16. NO. OF ACRES IN LEASE NA			12. COUNTY OR PARISH Rio Arriba	
17. NO. OF ACRES ASSIGNED TO THIS WELL 160			13. STATE N.M.	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. NA			19. PROPOSED DEPTH 4062	
20. ROTARY OR CABLE TOOLS Rotary			21. APPROX. DATE WORK WILL START* Sept. 5, 1977	
22. ELEVATIONS (Show whether DP, RT, GR, etc.) 7152' GR				
23. PROPOSED CASING AND CEMENTING PROGRAM				
SIZE OF HOLE 12 1/4" 6 3/4"	SIZE OF CASING 8 5/8" 2 7/8"	WEIGHT PER FOOT 24# 6.4#	SETTING DEPTH 120 4062	QUANTITY OF CEMENT 85 110

Selectively perforate and stimulate the Pictured Cliffs formation.
A BOP will be installed after the surface casing is set & cemented.
All subsequent work will be done through the BOP.

The NW/4 of Sec. 34 is dedicated to this well.

Gas dedicated to NPC.



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 July 12, 1977
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

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

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.

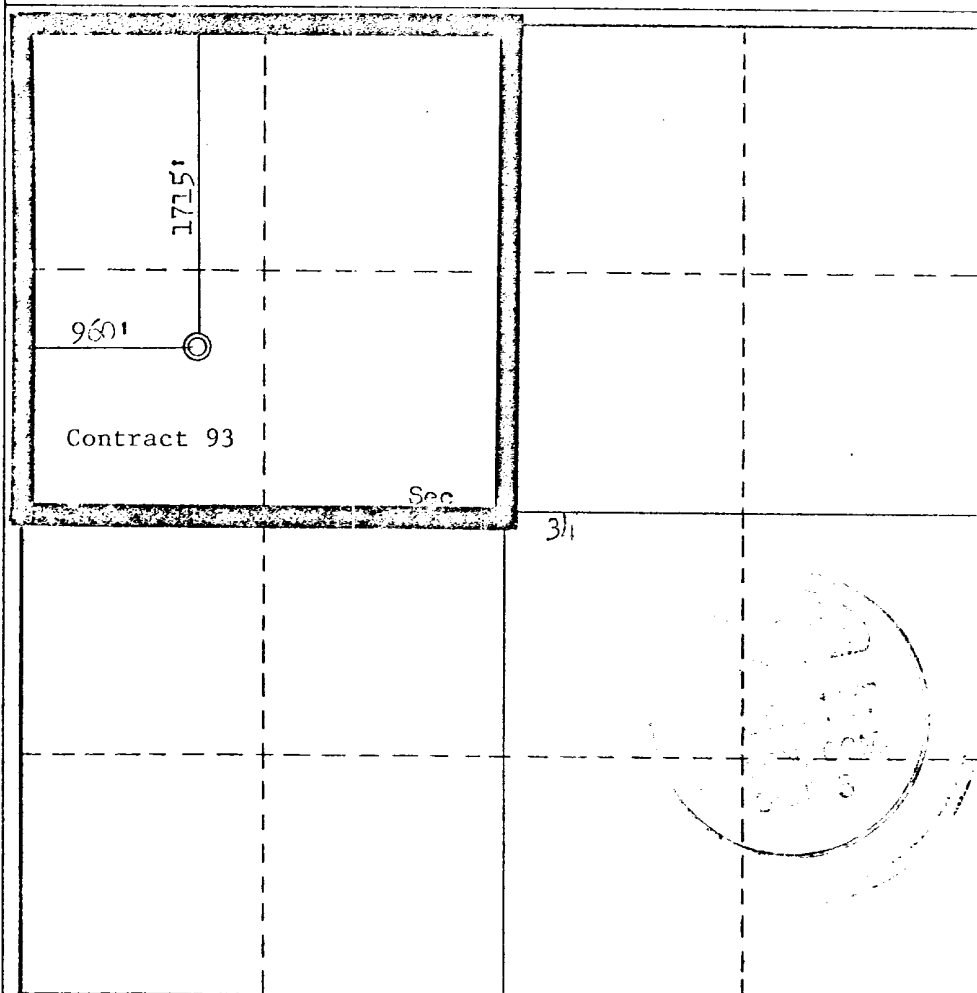
Operator Northwest Pipeline Corporation			Lease Jicarilla 93		Well No. 9
Unit Letter E	Section 31	Township 27N	Range 3W	County Rio Arriba	
Actual Footage Location of Well: 1715 feet from the North line and 960 feet from the West line					
Ground Level Elev. 7152	Producing Formation Pictured Cliffs		Pool Gavilan		Dedicated Acreage: 160 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.

Name
J. P. Slattery
Position
Drilling Engineer
Company
Northwest Pipeline Corp.
Date
July 12, 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
March 21, 1977
Registered Professional Engineer and/or Land Surveyor
Fred B. Kerr
Fred B. Kerr
Certificate No.
3950

OPERATIONS PLAN

Jicarilla 93 #9

I. LOCATION: SW/4, NW/4 Sec. 34, T27N, R3W

LEASE NUMBER: Contract 93

FIELD: Gavilan Pictured Cliffs

ELEVATION: 7152' GR

II. GEOLOGY:

A. Formation Tops:

Ojo Alamo:	3360'	Total Depth:	4062'
Kirtland:	3560'		
Fruitland:	3700'		
Pictured Cliffs:	3852'		

B. Logging Program: I-ES and Density at T.D.

C. Coring Program: None

D. Testing Program: None

III. DRILLING:

A. Anticipated starting date and duration of activities: Sept. 5, 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 3425'

Starloss:	CMC mud
Viscosity:	25-30 sec/qt.
Weight:	8.9-9.0 #/gal.
Water Loss:	7-12 cc.
Ph:	8.5-9.5

c) From 3425 to 4062

Starloss:	CMC Hy-gel mud
Viscosity:	38-8- sec/qt.
Weight:	9.0-9.5 #/gal.
Water loss:	6-8 cc
Ph:	8.5-9.5

IV. MATERIALS:

A. Casing Program:

<u>Hole Size</u>	<u>Depth O.H.</u>	<u>Casing Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>
12 1/4"	120'	8 5/8"	24# K-55	120'
6 3/4"	4062'	2 7/8"	6.4# K-55	4062'

V. CEMENTING:

- A. Surface Casing 8 5/8" - Use 85 sacks Class "B" cement w/14# flocele/sk. and 3% calcium chloride (100% excess to circulate). WOC 12 hours. Test surface csg. to 600 PSI for 30 minutes.

- B. Production Casing 2 7/8" - Use 60 sacks 65/35 poz with 10% gel and 1/4 cu. ft. fine gilsonite/cu. ft. slurry and tail in with 50 sacks Class "B" cement with 2% calcium chloride. WOC 0 hours. Run temperature survey after 12 hours.

NORTHWEST PIPELINE CORPORATION

MULTI- POINT SURFACE USE PLAN

for the JICARILLA 93

Well #9

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 Jicarilla Tapacito Water Hole located in the SE/4 17, T26N, R4W.
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.

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.

7-12-77
Date

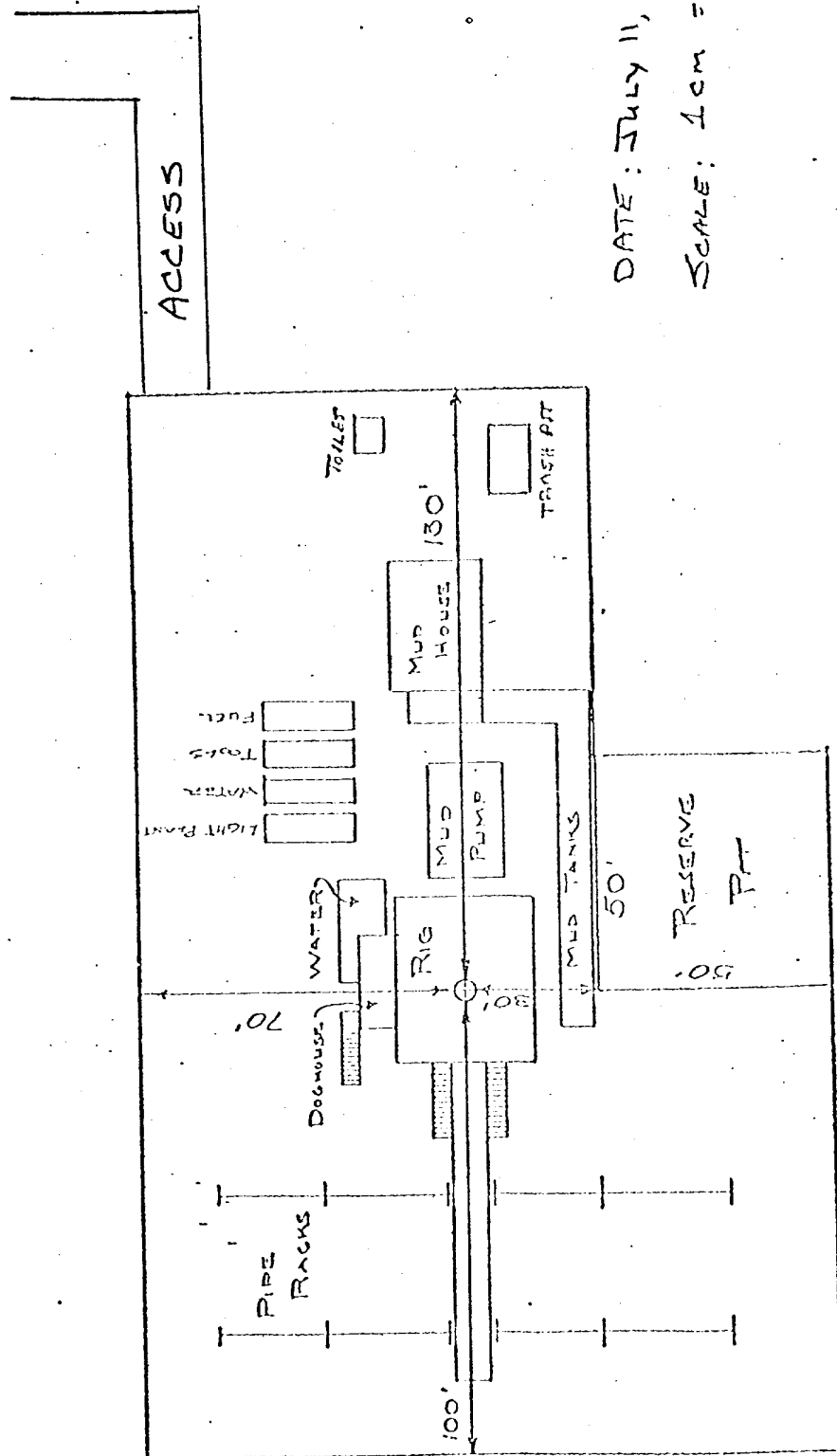
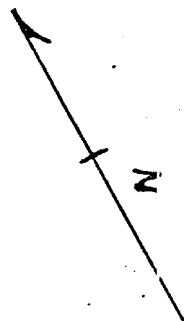
J. P. Slattery
J.P. Slattery
Drilling Engineer

JPS/dd

NORTH WEST PIPELINE CORPORATION

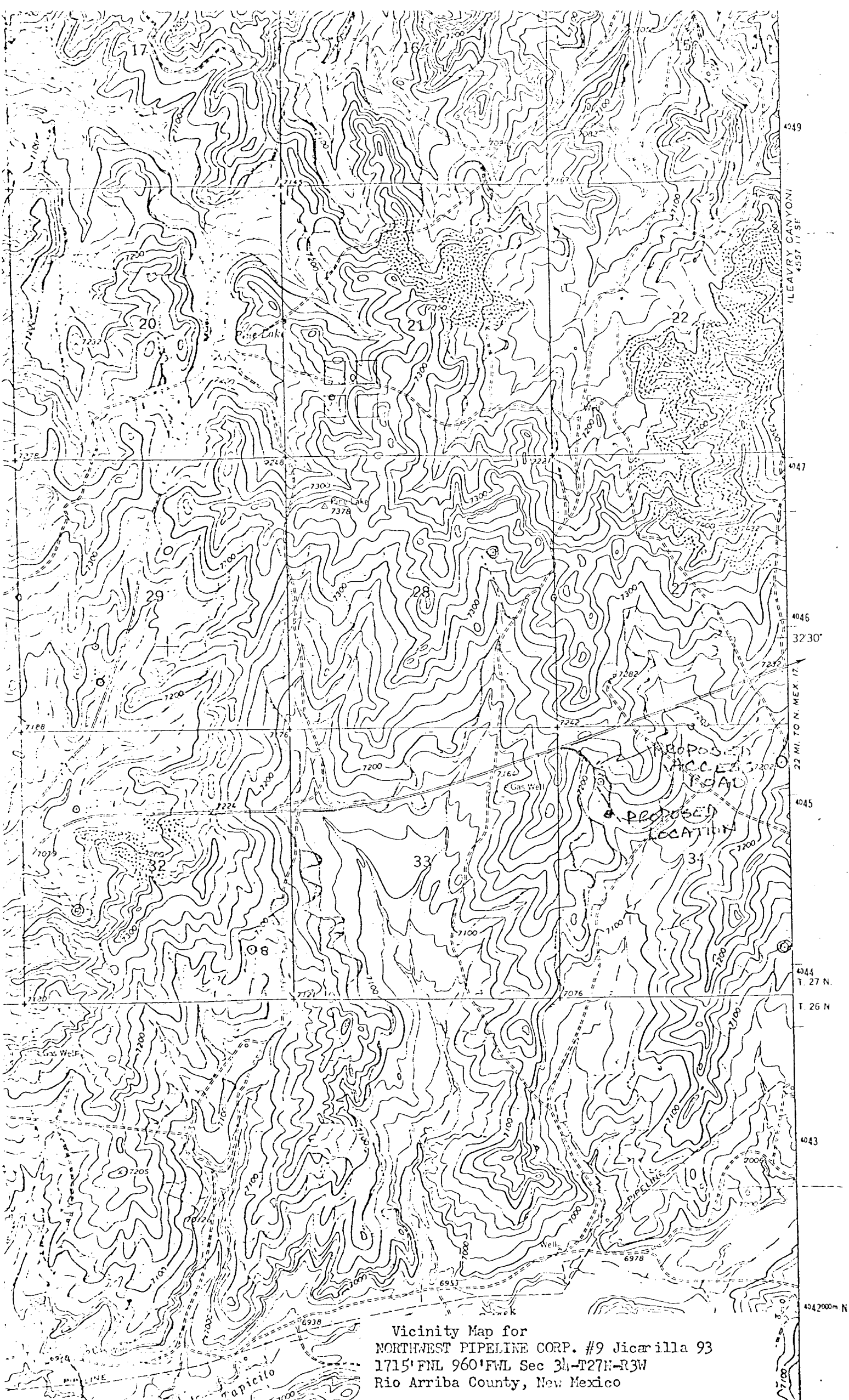
LOCATION LAYOUT

TICARILLA 93 #9



DATE: JULY 11, 1977

SCALE: 1cm = 20'



Vicinity Map for
 NORTHWEST PIPELINE CORP. #9 Jicarilla 93
 1715'FWL 960'FWL Sec 34-T27N-R3W
 Rio Arriba County, New Mexico

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 9-331-2 for such proposals.)

1. oil well ☐ gas well ☒ other ☐
2. NAME OF OPERATOR
Northwest Pipeline Corporation
3. ADDRESS OF OPERATOR
PO Box 90, Farmington, New Mexico 87401
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1715' FNL & 960' FWL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

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) <input type="checkbox"/>	<input type="checkbox"/>

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.)*

Although we will not be drilling this well this year,
we request that our Application for Permit to Drill be
kept active because we are planning to drill it next year.

Subsurface Safety Valve: Manu. and Type _____

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

SIGNED Robert C. ... TITLE Production Clerk DATE April 2, 1979

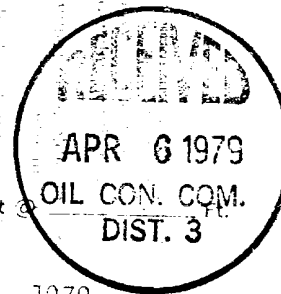
(This space for Federal or State office use)

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

Form Approved.
Budget Bureau No. 42-R1424

5. LEASE
Contract 93
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Jicarilla Apache
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME
Jicarilla 93
9. WELL NO.
9
10. FIELD OR WILDCAT NAME
Gavilan-Pictured Cliffs
11. SEC., T., R., M. OR BLK. AND SURVEY OR AREA
Sec 34 T27N R3W
12. COUNTY OR PARISH 13. STATE
Rio Arriba New Mexico
14. API NO.
15. ELEVATIONS (SHOW DF, KDB, AND WD)
7152' GR

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



RECEIVED

APR 05 1979

U. S. GEOLOGICAL SURVEY
DALLAS, TEXAS