Form 9-331 C
(May 1963)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

30-045-24661

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.: SF-078996

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

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

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

7. UNIT AGREEMENT NAME: San Juan 32-7 Unit

8. FARM OR LEASE NAME: San Juan 32-7 Unit

2. NAME OF OPERATOR: Northwest Pipeline Corporation

9. WELL NO.: #74

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

10. FIELD AND POOL, OR WILDCAT: Blanco Mesa Verde

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 1600' FSL & 180' FEL Section 4, T31N, R7W
At proposed prod. zone: Same as above

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec 4, T31N, R7W

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 20 miles south of Ignacio, Colorado

12. COUNTY OR PARISH: San Juan

13. STATE: New Mexico

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 180'

16. NO. OF ACRES IN LEASE: N/A 2537.37

17. NO. OF ACRES ASSIGNED TO THIS WELL: 323.46

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.: N/A

19. PROPOSED DEPTH: 6200'

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 6744' GR

22. APPROX. DATE WORK WILL START*: November 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#	200'	115 sks
8-3/4"	7"	20#	3980'	250 sks
6-1/4"	4-1/2"	10.5#	6200'	240 sks

This action is subject to administrative appeal pursuant to 30 CFR 290.

Selectively perforate and stimulate the Mesa Verde 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.

Blocks 5, 6, 7, 8, and the W/2 of the SW/4 of Section 3 and block 5, the East half of the SE/4 and the ~~SW/4 of SE/4 of Section~~ 4 is dedicated to this well.

Gas is dedicated.

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FARMINGTON, N. M.

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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 Paul C. Thompson — TITLE Drilling Engineer — DATE Sept 10, 1980

Paul C. Thompson

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

APPROVED
AS AMENDED
NOV 1980
Bruce Warnsley
for JAMES F. SIMS
DISTRICT ENGINEER

*See Instructions On Reverse Side

NWU R-1066

PCT/djb

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	Lease	Well No.
NORTHWEST PIPELINE CORPORATION	SAN JUAN 32-7 UNIT	74

Unit Letter	Section	Township	Range	County
I	4	31N	7W	San Juan

Actual Footage Location of Well:
1600 feet from the South line and 180 feet from the East line

Ground Level Elev:	Producing Formation	Pool	Dedicated Acreage:
6744	Mesa Verde	Blanco Mesa Verde	323.46 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).

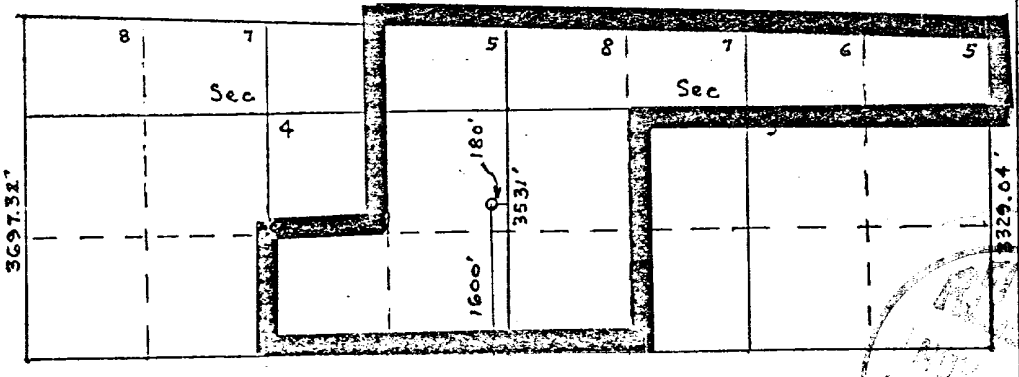
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling. etc?

☒ Yes ☐ No If answer is "yes," type of consolidation 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.

Acreage Dedication: Sec 3= Lots 5, 6, 7, & 8, $NW\frac{1}{4}SW\frac{1}{4}$, $SW\frac{1}{4}SW\frac{1}{4}$
Sec. 4= Lot 5, $NE\frac{1}{4}SE\frac{1}{4}$, $SE\frac{1}{4}SE\frac{1}{4}$, $SW\frac{1}{4}SE\frac{1}{4}$



Scale: 1"=2000'

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NORTHWEST PIPELINE CORPORATION
SEP 5 1980
PRODUCTION AND DRILLING

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: September 5, 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: September 4, 1980

Registered Professional Engineer and/or Land Surveyor

Fred B. Kerr Jr.

Certificate No. 3950

NORTHWEST PIPELINE CORPORATION

DRILLING PROGNOSIS

DATE: Sept 10, 1980

I. LOCATION: San Juan 32-7 Unit #74
1600' FSL & 180' FEL
Section 4, T31N, R7W

ELEVATION: 6744'

SURFACE: BLM
MINERALS: SF-078996

FIELD: Blanco Mesa Verde

II. GEOLOGY: Surface Formation - San Jose

A. Formation Tops:

Formation Tops	Depth	Formation Tops	Depth
Ojo Alamo	2487'	Lewis	3780'
Kirtland	2594'	Cliff House	5658'
Fruitland	3233'	Menefee	5710'
Pictured Cliffs	3637'	Point Lookout	5964'
		Total Depth	6200'

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

C. Natural Gauges: Gauge at last connection above 5710', 5964', 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"	3980'	7"	20# K-55
6-1/4"	6200'	4-1/2"	10.5# K-55

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: 6150' of 2-3/8", 4.7#, EUE, J-55 tubing with seating nipple on top of bottom joint. Expendable check valve on bottom.

D. Well Head Equipment: Gulfco Well Head. Gulfco 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% $CaCl_2$ (100% excess to circulate). WOC 12 hrs. Test furface casing to 600 psi for 30 min.

B. Intermediate Casing" 7" - Use 175 sks of 65/35 poz with 12% gel. (Yield - 1.63). Tail in with 75 sks Class "G" with 2% $CaCl_2$ (Yield 1.18 ft^3/sk). (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 240 sks of Class "B" with 4% gel and 1/4 cu.ft. of fine Gilsonite per sk (Yield 1.79 ft^3/sk). (70% excess to circulate liner). Clean out with 6-1/4" bit on 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.

Paul C. Thompson

Paul C. Thompson

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.

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

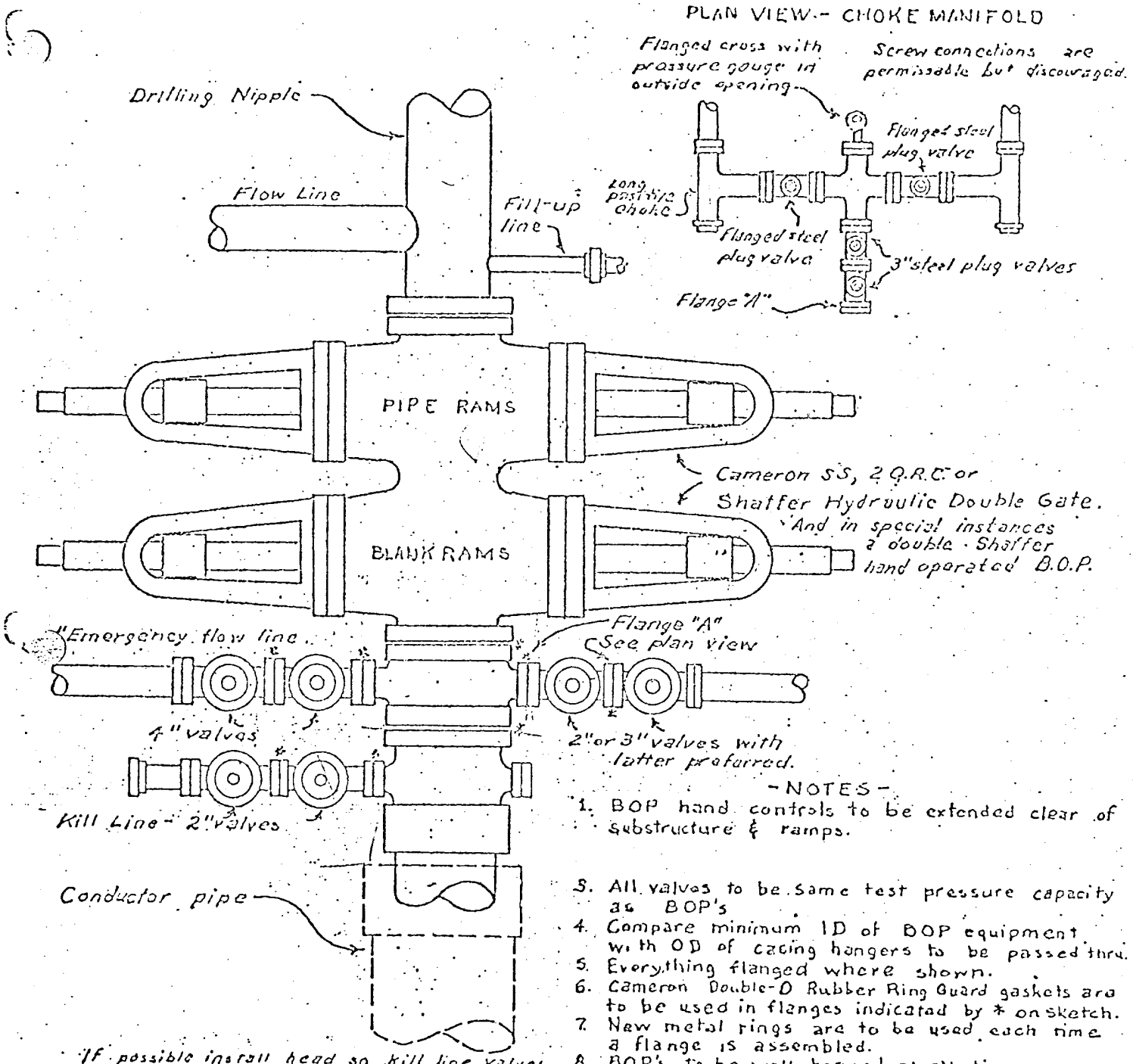
13. Certification:

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 C. Thompson

Paul Thompson
Drilling Engineer

WJB/ch



-NOTES-

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

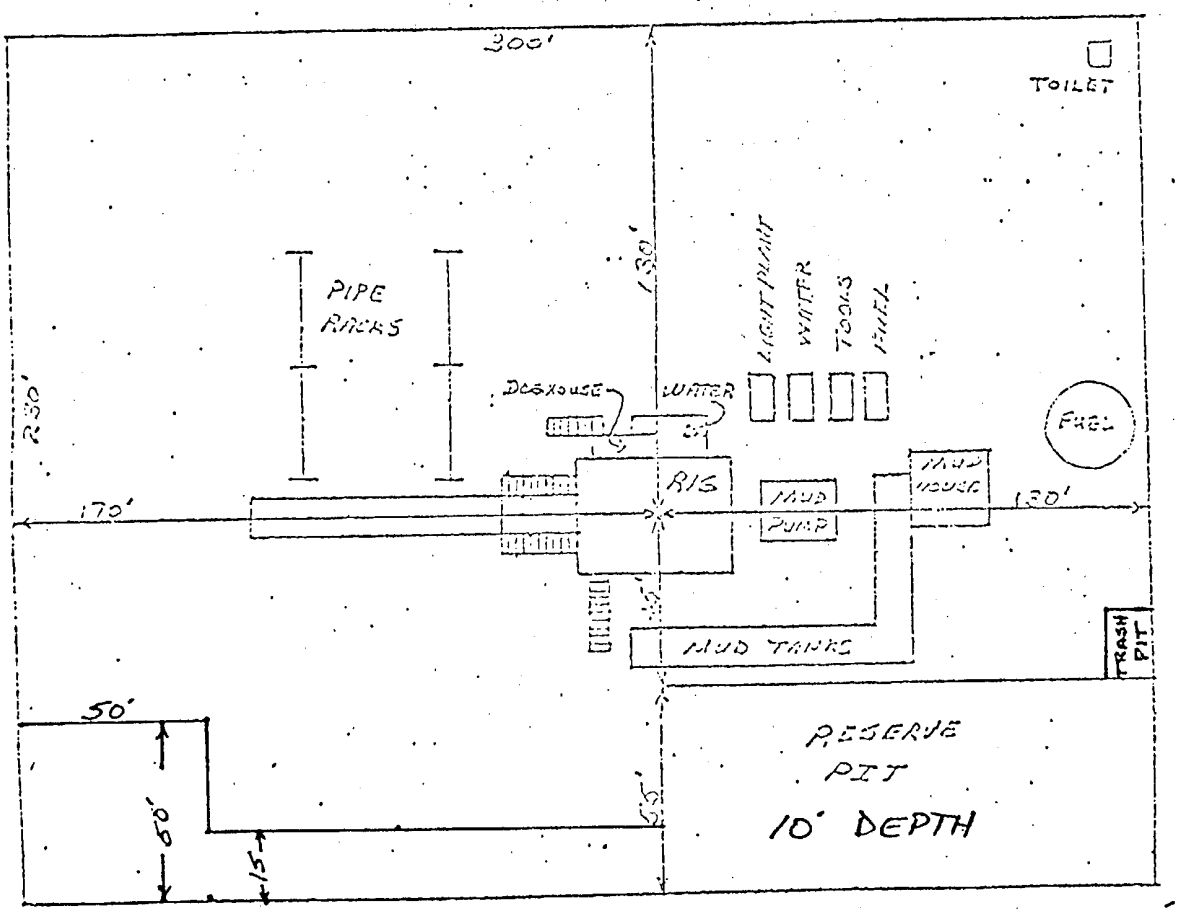
If possible install head so kill line valves will be under BOP's for protection. These valves to be kept closed after BOP's tested & kill line removed (by use of quick union) to fill-up line. When used this way kill line must be high-pressure.

SINGLE PIPE RAM BLOWOUT PREVENTOR HOOKUP

NORTHWEST PIPELINE CORP.

DAKOTA S. & MESA-VERDE

SAN JUAN 32-7 UNIT #74



DATE. 9/10/80

SCALE: 1cm = 20'

Vicinity Map for
NORTHWEST PIPELINE CORP. #74 SAN JUAN 32-7 UNIT
1600'FSL 180'FEL Sec. 4-T31N-R7W
SAN JUAN COUNTY, NEW MEXICO