

Sundry
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPPLICATE
(Other instructions on
reverse side)Form approved.
Budget Bureau No. 42-R1425.

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.
#1
10. FIELD AND POOL, OR WILDCAT
Blanco Mesa Verde
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 35, T31N, R6W
12. COUNTY OR PARISH
Rio Arriba
13. STATE
New Mexico

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
SIDETRACK ☒ DEEPEN ☐ PLUG BACK ☐b. TYPE OF WELL
OIL WELL ☐ GAS WELL ☒ OTHER ☐ SINGLE ZONE ☐ MULTIPLE ZONE ☐2. NAME OF OPERATOR
Northwest Pipeline Corporation3. ADDRESS OF OPERATOR
P.O. Box 90, Farmington, New Mexico 874994. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
At surface 990' FSL & 990' FWL SW/SWAt proposed prod. zone
Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

Approximately 12 miles to Gobernador Camp

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

990'

16. NO. OF ACRES IN LEASE
N/A17. NO. OF ACRES ASSIGNED
TO THIS WELL

320

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

1600'

19. PROPOSED DEPTH
5875'20. ROTARY OR CABLE TOOLS
Rotary

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

6437' GR

DRILLING OPERATIONS AUTHORIZED ARE
SUBJECT TO COMPLIANCE WITH ATTACHED
"GENERAL REQUIREMENTS"

22. APPROX. DATE WORK WILL START*

10-1-84

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

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
6-1/4"	4-1/2"	10.5#	5875'	115 sx C1 "B" (206 cu.ft.)

As Per Conversation with Earl Beecher 9-17-84 attached are the following:

- 1) Original Approved APD
- 2) Operations Plan
- 3) BOP Diagram
- 4) Multi-point Surface Use Plan
- 5) Topographic Map

RECEIVED

OCT 16 1984

OIL CON. DIV.

DIST. 9

RECEIVED

SEP 20 1984

BUREAU OF LAND MANAGEMENT
FARMINGTON RESOURCE AREA

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 M. J. Turnbaugh TITLE Senior Engineer

(This space for Federal or State office use)

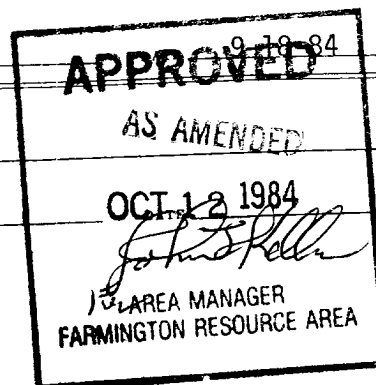
PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:



*See Instructions On Reverse Side

MJT/lsm

NMOCC

Prod. Dept. - 1
Region - 1
District - 2

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Santa Fe
Lease No. 078999
Unit West 1/4 Sec. 35

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	<input checked="" type="checkbox"/>	SUBSEQUENT REPORT OF WATER SHUT-OFF.....
NOTICE OF INTENTION TO CHANGE PLANS.....		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....		SUBSEQUENT REPORT OF ALTERING CASING.....
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....		SUBSEQUENT REPORT OF REDRILLING OR REPAIR.....
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....		SUBSEQUENT REPORT OF ABANDONMENT.....
NOTICE OF INTENTION TO PULL OR ALTER CASING.....		SUPPLEMENTARY WELL HISTORY.....
NOTICE OF INTENTION TO ABANDON WELL.....		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

January 19, 1953

Well No. Mesa 1-35 is located 990 ft. from TS line and 990 ft. from TEX line of sec. _____
SW/4 SW/4 Sec. 35 31N 6W R.M.P.M.
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Wildcat Rio Arriba County New Mexico
(Field) (County or Subdivision) (State or Territory)

The elevation of the Ground ~~derrick floor~~ above sea level is 6437 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Propose to drill to approximately 5000' using mud. Set casing at top of pay.
Mesa Verde will be drilled with gas and cleaned out with gas after shot.
Rotary tools will be used to TD.

Proposed Casing:

SET 10-3/4" casing at 150' and cement to surface with approximately 200 sax.
SET 7" casing at top of pay and cement with approximately 200 sax.

Location plat attached.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Phillips Petroleum Company

Address P. O. Box 939

Aztec, New Mexico

By

Earl Stumm
VIB

Title District Superintendent

Company Phillips Petroleum Company

Lease Well No.

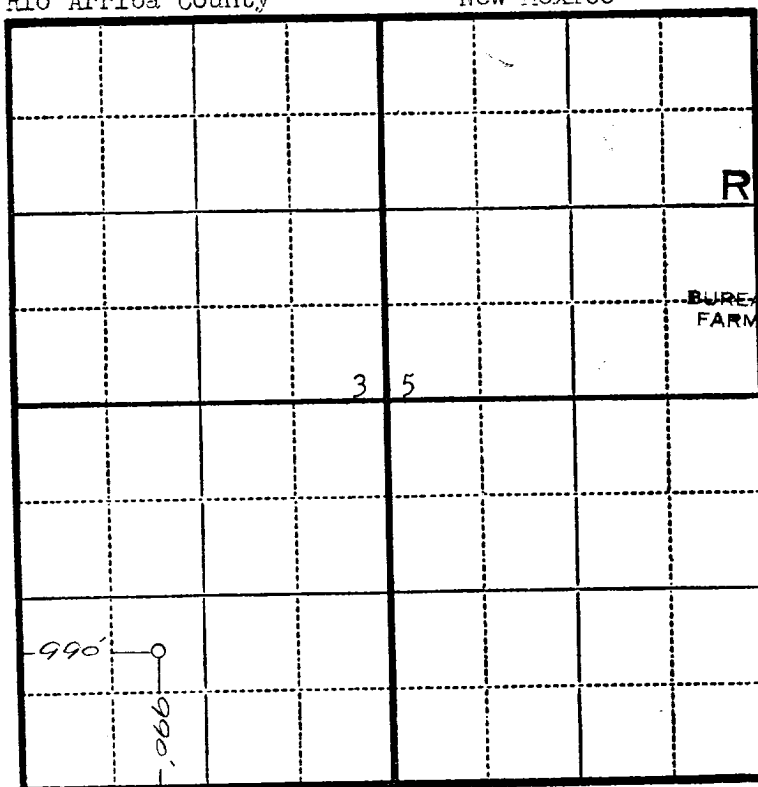
Sec. 35, T. 31 N., R. 6 W., N.M.P.M.

Location 990' from the South line and 990' from the West line.

Elevation 6437 Ungraded ground.

Rio Arriba County

New Mexico



RECEIVED

SEP 20 1984

BUREAU OF LAND MANAGEMENT
FARMINGTON RESOURCE AREA

Scale—4 inches equal 1 mile.

This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.

Charles J. Finklea

Seal:

Registered Professional
Engineer and Land Surveyor.

Charles J. Finklea
N. Mex. Reg. No. 1302

Surveyed January 12, 19 53.



IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
P. O. Box 965
Farmington, New Mexico

January 22, 1953

Phillips Petroleum Company
P. O. Box 939
Aztec, New Mexico

Re: Santa Fe 078999

Gentlemen:

Receipt is acknowledged of your "Notice of Intention to Drill" dated January 19, 1953, covering your well No. 1-35 Mesa on the subject lease, in the SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 35, T. 31 N., R. 6 W., N. M. P. M., Rio Arriba County, New Mexico, Wildcat area.

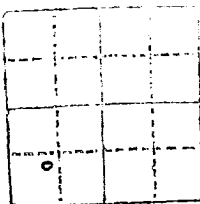
Your proposed work is hereby approved subject to compliance with the provisions of the "Oil and Gas Operating Regulations" revised May 25, 1942, a copy of which will be sent to you on request, and subject to the following conditions:

1. Drilling operations so authorized are subject to the attached sheet for general conditions of approval.
2. Furnish copies of all logs.

Very truly yours,

P. T. McGrath,
District Engineer

PTMcGrath:jhb



1. All drilling and producing wells shall be permanently marked in a conspicuous place with the name of operator, lease name, serial number of lease and number of production. Necessary precautions must be taken to preserve such marks.

2. All drilling and producing wells shall be permanently marked in a conspicuous place with the name of operator, lease name, serial number of lease and number of production. Necessary precautions must be taken to preserve such marks.

3. Any desired change of drilling plan or location of proposed well shall be approved by the District Engineer (DE) before any change is made.

4. When a well is drilled to a depth of 100 feet or more, the production casing of such well must be set at the top of the pay zone. The casing shall be set with a minimum of 10 feet of casing.

5. Before work is started, written approval must be obtained, signed by the District Engineer, for all work in advance with the District Engineer. All other work is completed before must be reported to the U. S. Geological Survey by submitting complete information in triplicate on form 9-111a, covering:

- a. Drilling or cementing, including proposed data and method of testing water seal-off.
- b. Drilling logs or perforating.
- c. Casing alterations, patching, or repairs of any kind.
- d. Shooting, acid treatment, deepening or plugging back.
- e. Gas-lift installations.
- f. Drilling of water wells.

6. Monthly report of operations in duplicate on form 9-112, must be submitted promptly each month beginning with beginning of the first well on a lease and continuing until approved abandonment of all drilling and producing operations.

7. Log in quadruplicate on form 9-113, must be submitted within 10 days of reaching temporary or permanent drilling depth. Duplicate copies of all exploratory logs, service casing logs, drilling logs, and any other well information not given on the standard form also should be filed.

8. Separate application to drill any water well on Federal land is required, and special procedure is necessary for abandonment of any well having a production casing.

9. All wells and lease operations shall be maintained in first class condition with due regard to safety, conservation, operations, and refuse disposal.

10. The notice of intention to drill any well is required without further notice if drilling is not started within 90 days of approval.

11. Cement must be allowed to set a minimum of 72 hours on all strings of casing prior to drilling the plug, except for modification provided by the Department's order dated March 10, 1941, copy of which will be furnished on request.

12. (None, if so indicated)

WORKOVER PROGNOSIS

San Juan 31-6 Unit #1

7/18/84

LOCATION: SW/4 Sec. 35, T31N, R6W
Rio Arriba County

FIELD: Blanco Mesa Verde

ELEVATION: 6437' GR

TOTAL DEPTH: 5850'
PBD

COMPLETED: 7/24/53

INITIAL POTENTIAL: 386 MCF/D

<u>CASING RECORD</u>	<u>CASING SIZE</u>	<u>WT. & GRADE</u>	<u>DEPTH SET</u>	<u>CEMENT</u>	<u>TOP CEMENT</u>
	10 3/4"	21.63#	173'	200 sx	circ.
	7"	20 & 23# J-55	5318'	300 sx	4540'
				DV-150 sx	2600'

WELLHEAD EQUIPMENT: 10" 400 O.C.T. csg. head; 6" 600 O.C.T. tubing head

TUBING EQUIPMENT: 2 3/8" 4.7# J-55 EUE tubing set @ 5813'.

<u>FORMATION TOPS:</u>			
Ojo Alamo	2484'	Cliff House	5342'
Kirtland	2656'	Menefee	5432'
Fruitland	3044'	Point Lookout	5666'
Pictured Cliffs	3404'		
Lewis	3495'		

LOGGING RECORD: SP Res

STIMULATION: Shot Open Hole (5318' - 5950') w/ 1228 qts. SNG

PRODUCTION HISTORY: Well was shut-in on 7/24/53 upon completion, deemed non-commercial due to low productivity and left shut-in. Well never tied-in. 7/10/81 tbg. blew dead in less than one minute. Tbg = 103# Csg. = 620#.

RECOMMENDED WORKOVER PROCEDURE:

1. MOL & RU
2. Lay relief lines and blow well down.
3. Kill w/ wtr. if necessary.
4. Nipple up BOP on well head.
5. Pull tbg. If necessary, shoot off at approximately 5500'
6. Examine tbg. Order new string if required.
7. Locate 7" csg. shoe w/ CCL.
8. Set cmt. retainer approximately 150' above shoe (5170').
9. Circulate csg w/ wtr.

10. Squeeze btm. of 7" csg. and open hole w/ 125 sx C1 "B" w/ 4% gel and 12.5# gilsonite/sk. (Yield - 1.79 cu.ft./sk., slurry wt. = 13.29 lbs./gal. cmt. vol. 223 cu.ft.). Tailed w/ 100 sx C1 "B" w/ 1% TK and 2% CaCl_2 (Yield = 1.18 cu.ft./sk., slurry wt. = 17.5 lbs./gal., cmt. vol. = 118 ft³).
11. Test 7" csg. to 800 psi for 1/2 hour.
12. If test indicates a leak, locate it w/ a retrievable packer and squeeze w/ 125 sx C1 "B" w/ 2% CaCl_2 .
13. If no leak, perforate squeeze hole near top of Ojo Alamo and squeeze 7" annulus w/ 125 sx C1 "B" w/ 2% CaCl_2 . Drill out and test to 800#.
14. Blow down w/ gas.
15. Drill cmt. retainer w/ gas. Test to 800 psi.
16. Drill cmt. to 10' below shoe (5330') w/ gas.
17. Sidetrack hole w/ core head and knuckle joint. Widen kick off point using hole opener and reamer. (5° to 6° over casing shoe deviation).
18. Drill side tracked hole (6-1/4") to 5875' w/ gas.
19. Run Induction, Neutron, Density and GR logs from TD to 7" shoe.
20. Run long string 4-1/2", 10.5#, K-55, ST&C to TD. Use Rector Geyser shoe (part #2017-1-050) and Rector Flapper type float collar (part #2008-2-000).
21. Cmt. w/ 115 sx C1 "B" w/ 4% gel & 12.5# gilsonite/sk. (Yield = 1.79 cu.ft./sk, slurry wt. = 13.29 lbs./gal., total cmt. vol. 206 cu.ft.). Precede cmt. w/ 20 brls. wtr. mixed w/ 2 sx. gel. Run temp survey after 8 hrs. WOC 18 hrs. before perforating. (70% excess to fill 500' above 7" csg. shoe).
22. PU 3-7/8" mill on 2-3/8" tbg. and clean out to FC. Fill annulus between 4-1/2" and 7" csg. Pressure test to 4000 psi.
23. Circulate hole w/ treated wtr. and spot 750 gal. 7-1/2% HCl across intervals to be perforated. TOH.
24. Run GR/CCl and perforate as determined from new logs.
25. Establish an injection rate w/treated wtr. (.5 gal. FR/1000 gel) 60 BPM @ 2000# is expected. Pump 1000 gal. 15% HCl and drop one 7/8" (SG = 1.1) ball every 20 gal. Break down and ball off is possible. Total 50 balls.
26. Run wire line junk basket and retrieve or knock off balls.
27. Establish an injection rate and pump 10,000 gal. pad of slick water.

Workover Prognosis

Page 3

28. Fracture w/ 80,000# 20/40 sand @ 1 ppg. Increase to 2 ppg w/ last 10,000#.
29. Flush to top perforations. Shut in and record pressure.
30. Run 2 3/8" EUE, 4.7# tbg. w/ expendable check, seating nipple combination on bottom of bottom jt. Blow well down and clean out below bottom perforations. Land tbg. and pump out expendable check valve. Kick well off through tbg. and gauge.

mm / M. J. Turnbaugh

M.J. Turnbaugh
Sr. Production Engineer

MJT/aa

San Juan 31-6 #1

SUBJECT

INTERESTED PARTY'S SIGNATURE

DATE

10 ³/₄" @ 173'

Top of cnt. @ 2600'

D.V. tool @ 4372'

Top cnt. @ 4540'

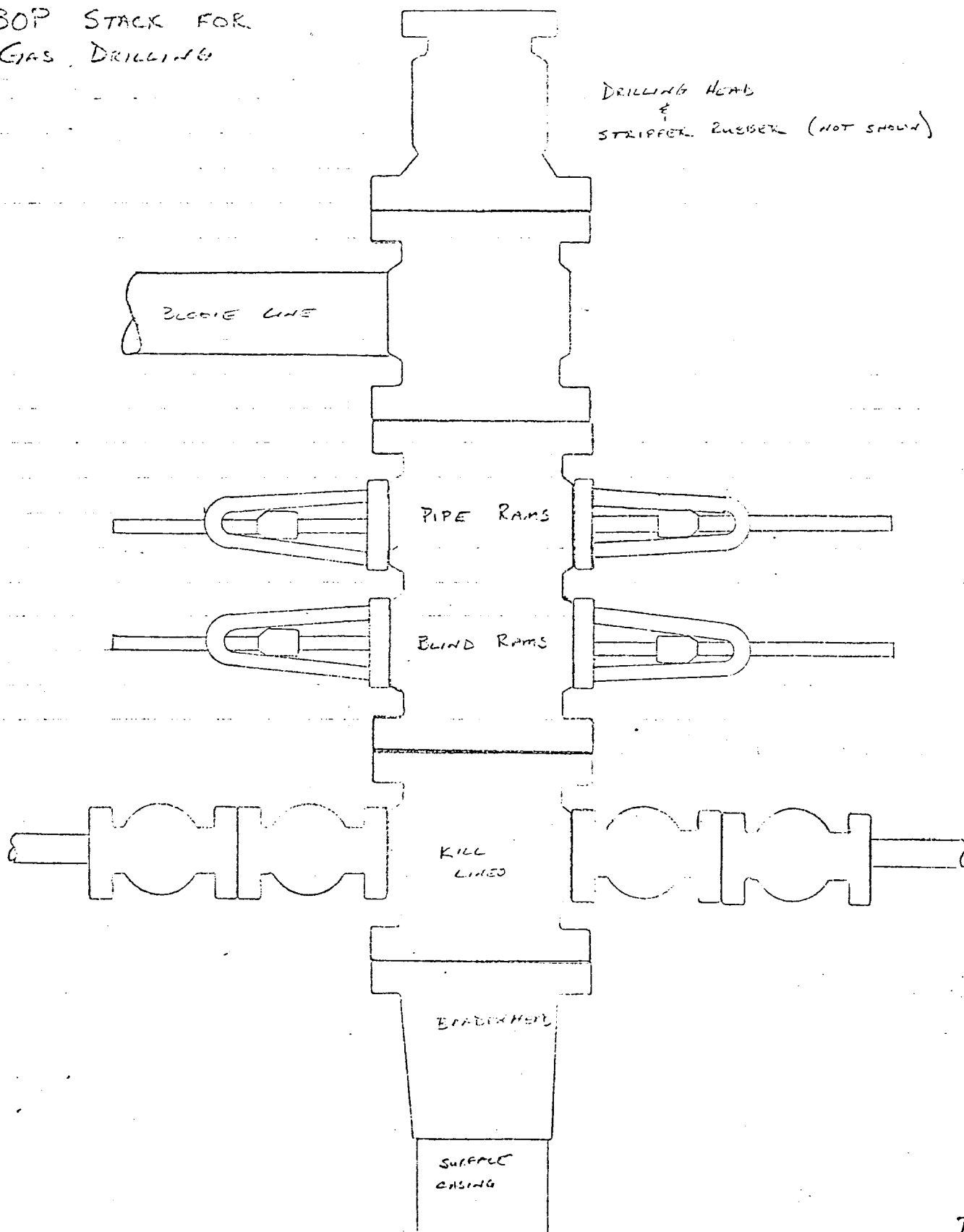
7" @ 5318'

open hole shot w/ 1228 ft.

2 ³/₈" @ 5813'

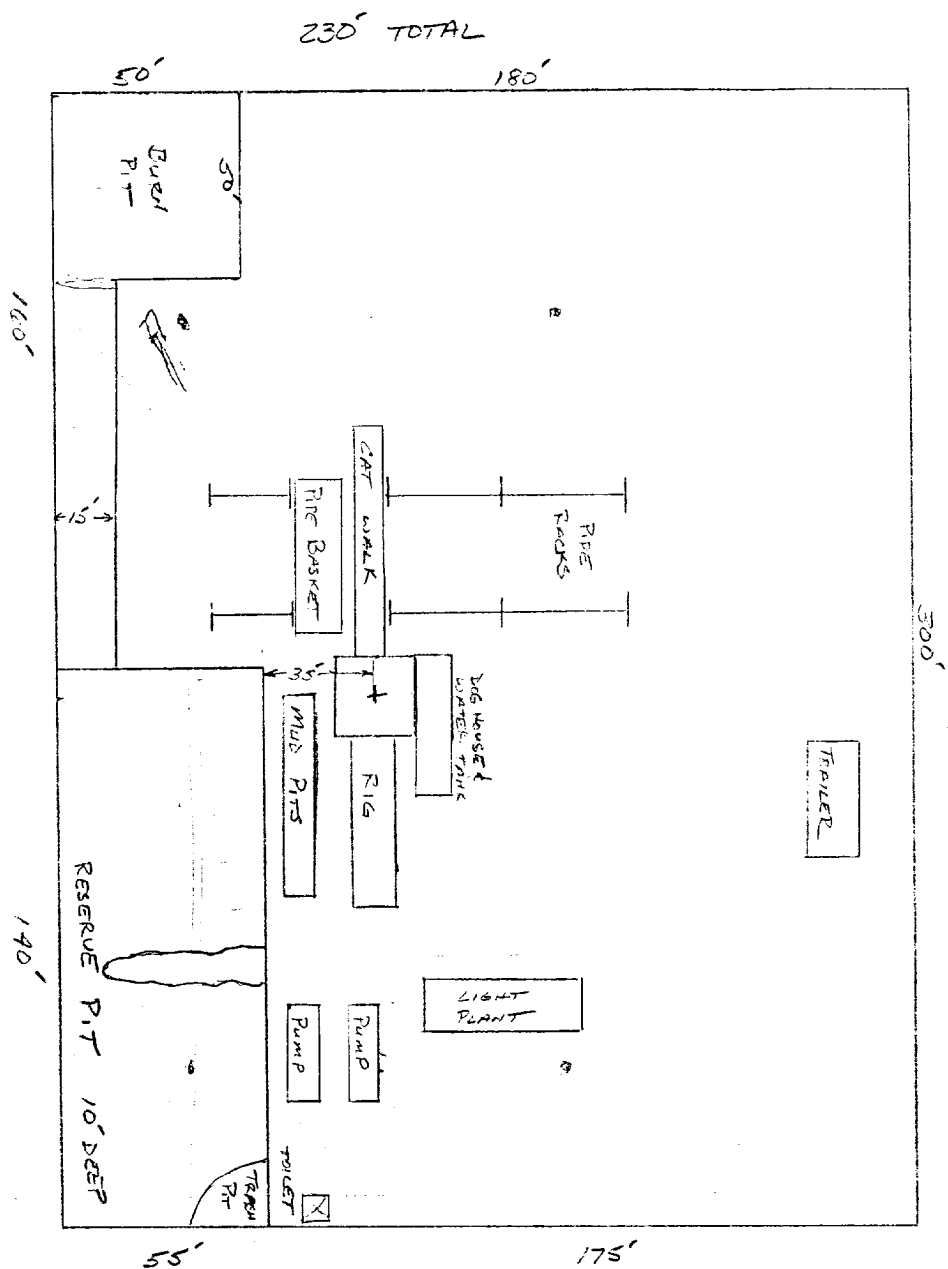
T.D. @ 5850'

BOP STACK FOR
GAS DRILLING



PT
7/17/81

NORTH WEST PIPELINE CORP. DARTON & MESA VERDE LOCATION LAYOUT



SCALE: 1 cm = 20 ft

RT

NORTHWEST PIPELINE CORPORATION

MULTI-POINT SURFACE USE PLAN

SAN JUAN 31-6 UNIT #1

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 operations will be hauled from private sources.
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. Auxillary 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 specified by land use authorities.

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.

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; M.J. Turnbaugh, P.O. Box 90, Farmington, New Mexico 87499, 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.

9-13-84
Date

M.J. Turnbaugh
M.J. Turnbaugh
Senior Engineer

MJT/lsm

280

27°30' 281

282

4 1/2 IV NW
(BANCOS MESA NW)

284

285

