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SUBMIT IN TRIPLICATE*

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ther	instructions on	Budget	Bureau	No.
re	verse side)		_	

UNITED	STAT	ES
DEPARTMENT OF	THE	INTERIOR

5. LEASE DESIGNATION AND SERIAL NO. **GEOLOGICAL SURVEY** SF 080379 6. IF INDIAN, ALLGITTE OR TRUE . ME APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK 1a. TYPE OF WORK 7. UNIT AGREEMENT NAME DRILL X DEEPEN PLUG BACK San Juan 29-6 Unit b. TYPE OF WELL MULTIPLE ZONE SINGLE ZONE WELL 8. FARM OR LEASE NAME WELL X OTHER 2. NAME OF OPERATOR San Juan 29-6 Unit 9. WELL NO. Northwest Pipeline Corporation 3. ADDRESS OF OPERATOR 1.3A P.O. Box 90 Farmington, New Mexico 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface 10. FIELD AND POOL, OR WILDCAT Blanco Mesa Verde 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA D 960' FNL & 880' FWL At proposed prod. zone SEC 6 T29N R6W As Above 12. COUNTY OR PARISH | 13. STATE 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* Rio Arriba NM N/A17. NO. OF ACRES ASSIGNED TO THIS WELL 319.65 15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) 16. NO. OF ACRES IN LEASE 880' N/A 20. ROTARY OR CABLE TOOLS 18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT. 19. PROPOSED DEPTH 6089 Rotary 22. APPROX. DATE WORK -ILL START* 21. ELEVATIONS (Show whether DF, RT, GR, etc.) 1/1/78 6814 GR 23 PROPOSED CASING AND CEMENTING PROGRAM

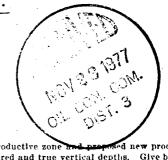
QUANTITY OF CEMUS WEIGHT PER FOOT SETTING DEPTH SIZE OF HOLE SIZE OF CASING 2001 9 5/8" 125 sks 32.3# 12 1/24020 150 sks ·20 # 8 3/4 4 1/2" 210 sks 10.5# 3870-6089 6 1/4

Selectively perforate and stimulate the Mesa Verde formation.

A BOP will be installed after the surface casing has been run and cemented.

All subsequent operations will be conducted through the BOP.

The W/2 of section 6 is dedicated to this well gas is dedicated.



ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is ne. If proposal is to drill or deepen directionally, give preventer program, if any.	s to deepen of pertinent data	r plug back, give data on present p a on subsurface locations and meas	productive zone and proposed new productive sured and true vertical depths. Give blower
BIGNED D. E. Richardson	TITLE	Drilling Engineer	DATE
(This space for Federal or State office use)		:	
PERMIT NO.		APPROVAL DATE	RAF F
APPROVED BY	TITLE		DATE
CONDITIONS OF APPROVAL, IF ANY:			NOV 2 2 1977
Ollas			- man acres on the V

*See Instructions On Reverse Side

C. C. SECTIONICAL SURVEY Part 3, 2003.

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

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

Operator Northwest Pipeline Corporation]	_{Lease} San	Juan 29-	-6 Unit		W	13A	
Unit Letter D	Sect		Township 29N	······································	Range	6W	County Rio Ar	riba			
Actual Footage Loc	ation	of Well:	ļ 								
960			Y Y-1	line and	880 Pool	fee	et from the	West	Dedicute	e i Acreage;	
Ground Level Elev. 6814		Producing For Mesa Ve		. [P001	Blanco			319.6	55 .	Acres
			ted to the sub	ioot wal	l by cold	red pencil o	r hachure n	uarks on th	e plat b		
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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 a	ıswer is "yes,	' type of	consolid	ation					
									. 1 (11	,	, ,
		_	owners and tra	ect descr	iptions w	hich have a	ctually been	n consolid	ated. (Us	se reverse sid	ie of
this form i			ed to the well	until all	interests	have been	consolidate	d (by com	munitiza	tion unitizat	tion.
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OPERATIONS PLAN

San Juan 29-6 Unit #13A

I. LOCATION: NW/4 NW/4 Sec. 6, T29N, R6W

Rio Arriba County, N.M.

FIELD: Blanco Mesa Verde <u>ELEVATION:</u> 6814' GR

II. GEOLOGY:

A. Formation Tops:

28061 Cliff House: 5434' Ojo Alamo: 29891 Menefee: 5602' Kirtland: 34291 5889' Point Lookout: Fruitland: 3714' 60891 Total Depth: Pictured Cliffs: 38201 Lewis:

B. Logging Program:

Gamma Ray-Neutron at T.D.

C. Coring Program:

None

D. Natural Gauges:

Gauge at last connection above 5602',5889' and at total depth. Gauge any noticeable increases in gas

SF080379

LEASE NUMBER:

flow at depth other than those noted above.

III. DRILLING:

A. Anticipated starting date and duration of activities: 1-1-78, 2 weeks.

B. BOP: Blind rams and pipe rams, 10', 900 series, flouble gate, rated at 3000 PSI.

C. Mud Program:

- a) Spud Mud: Water, lime and gel.
- b) Surface to 3820'.

Viscosity: 32-38 sec/qt.
Weight: 8.8-9.2 #/gal.
Water Loss: 8-20 cc
Ph: 8.5-9.5

c) From 3820' to 4020'.

Viscosity:

36-45 sec/qt.

Weight:

8.5-9.5 #/gal.

Water Loss:

8-20 cc

Ph:

8.5-9.5

d) from 4020' to total depth with gas.

IV. MATERIALS:

A. Casing Program:

Hole Size	Depth O.H.	Casing Size	Wt. & Grade	Depth Set
12 14/"	200'	9 5/8"	32.3# H-40	200'
8 3/4"	4020'	7"	20 # K−55	4020
6 1/4"	20691	4 1/2"	10.5 # K-55	3870'-6089'

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 (7) centralizers (Code #56011-070) spaced every other joint above the shoe.

- B. Float Equipment Continued
 Place float collar one joint above shoe.
 - c) Liner 4 1/2" Larkin geyser shoe (Fig. 222) and Larkin flapper type float collar (Fig. 404). Brown liner hanger with neopreme pack off.
- C. Tubing Program: 5950', of 2 3/8", 4.7#, EUE, K-55 tubing with seating nipple on top of bottom joint. Expendable check valve on bottom.
- D. Well Head Equipment: Gray well head. Gray representative to set slips and make cut off.

V. CEMENTING:

- A. Surface Casing 9 5/8" Use 125 sks. Class "B" with 1/4# gel flake per sack and 3% CaCl (100% excess to circulate). WOC 12 hours. Test surface casing to 600 PSI for 30 minutes.
- B. Intermediate Casing 7" Use 100 sacks Class "B" 65/35 poz with 12% gel and 15.52 gal. water per sack. Tail in with 50 sacks Class "B" with 2% CaCl (65% excess to cover Ojo Alamo). WOC 12 hours. Run temp. survey after 8 hours. Test casing to 600 PSI.
- C. Production Liner 4 1/2" Use 210 sacks Class "B" with 4% gel and 1/4 cu. ft. of fine Gilsonite per sack. Precede cmt. with 20 bbls. water mixed with 3 sks. gel (70% excess to circulate liner). Set liner pack off and reverse out excess cmt. Run 6 1/4" bit to top of liner and pressure test (test 12 hours after plug is down). Lay down DP and run 3 7/8" bit on 2 3/8" EUE tubing to clean out liner. Perforate 18 hours after plug is down.

NORTHWEST PIPELINE CORPORATION

MULTI - POINT SURFACE USE PLAN

for the San Juan 29-6 Unit

Well Number 13A

- 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 bad..
- 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 San Juan 29-6 Unit Water Well located 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 burried 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 cleared 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 rovered by the location and proposed access raod is gently sloped with scattered brush and some grasses.

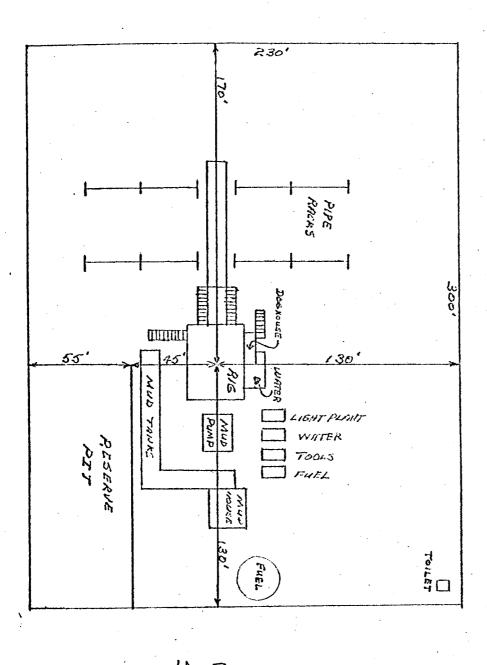
- Operator's Representative: D.E. Richardson, P.O. Box 90 Farmington, New Mexico 87401. Phone: 327-5351 Extinsion #38.
- 13. Certification:

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.

D.E. Richardson Drilling Engineer

DER/ch

W P



SCALE: DATE:

1cm = 20'

