SUPMIT IN TRIPLICATE*

(Other in directions on reverse side)

Form approach, Budget Bussau No. 42-Rt425.

30-039-21560

UNITED STATES DEPARTMENT OF THE INTERIOR

	of brand branch files a stanial and						
	SF 079851						
7. PLICATION	6. IF INDIAN, AULOTTI 6 OF THE NAME						
DEEL X DEEPER PLUG BACK						7. UNIT AGREE TEST NAME	
b. Type of Well on. [] G3 w []	S X OTHER	San Juan 7 -5 and					
N G OPERATOR	San Juan 2 -5 nit						
Northwest Pip	13A						
P.O. Box 90 -	10, FIELD AND (OR VOLDEA)						
LOCATION OF WELL (R)	Blanco Masa Verde						
At surface 1'35	11. SEC., T., B., of the line of AND SURVEY (AND)						
At proposed prod. zen Al a	Sec. 30, T29N, R5W						
6 PETANUS & MILES I	12. COUNTY OR PART 1/ 13. STATE						
NΑ	Rio Arriba U.M.						
5. DISTANCE FROM PROPONED. LOCATION TO NEACEST PROPONELY OR LEADY LINE, FT. (51 - To nearest drig, unit line, if any)				NA	TO T	OF ACRES ASSIGNED THIS WELL. 320	
18. Pro Seron Professed Location* 10 Seron Well, Embling, Complete NA 0 Seron For, on this lease, ft.			19. PROPOSED DEPTH 20. 1		10	Rotary	
21. ELEVATIONS (Show who	22. APPROX. FVD WORK WEST START* 1-1-78						
23.	P	ROPOSED CASI	NG AN	D CEMENTING PRO	GRAM		
SIZI. OF HOLD	817E OF CASING	WEIGHT PER P	оэт	SETTING DEPTH		QUANTITY OF CEMENT	
12 :/4"	9 5/8"	32.3#		200'		125 sks	
5 3/7)t	7''	20#		39081		150 sks	
6 1/44	4 1/2"	10.5#		3758'-5998'		210 skc.	
Selectively p	perforate and st	imulate th	e Me	sa Verde form	iation.		

A BOP will be installed after the surface casing has been run and cemented. All subsequent operations will be conducted through the BOP.

The F/2 of Section 30 is dedicated to this we

Gas is dedicated.

IN AROVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or play back, give data on present productive zone and propose were productive zone. If proposal is to drill or decays direction by, give pertinent data on situating locations and measured and true vertical depth . Give blowout preventer program, if Jay.

(This span for Federal or State office oze)

PERMIT NO.

TITLE

APPROVED BY _ CONDITIONS OF APPROVAL, IF ANY :

DER/ch

NEW ME GOO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

om C-102 Opera des C-128 Effective 1-1-65

All distances must be from the outer boundaries of the Section. war i. Lease 64. est Pipeline Co. Srn Juan 29-5 Unit No. i Runga Unit Let Section 2911 Rio Arriba Actual : tage Location of Well: .oducing Form . 320 Blanco Астев Mesa Ver 1. Outling the acreage dedicated to the self of well by colored pencil or hachure marks on the plat halian. 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 trace descriptions which have actually been consolidated. (The revenue 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, climinating such interests, has been approved by the Commission. CERTIFICATION I hereby certify that the information conreprete to the D.E. Richardson \odot Drilling Engineer Company Northwest Pipeline Corp. SF 079851 November 9, 1977 30 I hereby certify that the well location shown on this plut was plotted from field notes of actual surveys more by me or 10201 under my supervision, and that the same is true and co set to the best of my knowledge and bulief. U_{i} NOV 1 6 1977 Date Surv. October 1 SF 078282 Registered Profe. Fee and/or Land Survey a.

2000

1920 -650 1980

OPERATIONS PLAN

San Jun 29-5 Unit #13A

NE/4 Sw/4 Sec. 30, T29N, R5W L' ATTON: I.

Rio Arriba County, N.M.

LEASE NUMBER: SF 079851

FIELD: Blanco Mesa Verde

66981 GR ELEVATION:

II. CEOLOGY:

A. Formation Tops:

54381 Cliff House: Ojo Alamo: 2801 55081 Kirtland: 30021 Menefec: 5798' 34031 Point Lookout: Freitland: 59981 Pillared Cliffs: 35931 Total Depth: 3708°

Levis:

Gamma Ray-Neutron at T.D. Logging Program: В.

None C. Coring Program:

Gauge at last connection above 5508',5792' and at Natural Gauges:

total dapth. Gauge any noticeable increases in gas

flow at depth other than those noted above.

III. DRILLING:

Anticipated starting date and duration of activities: Jan. 1, 1978, 2 weeks.

BOP: Blin! rams and pipe rams, 10', 900 series, double gate, rated В. at 3000 PSI.

Mud Program:

Spud Mud: Water, lime and gel. a)

Surface to 3708'.

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

3908'. c) From 3708' to

> 36-45 sec/qt. Viscosity: 8.5-9.5 #/gal. Weight: 8-20 cc Water Loss: 8.9-9.5

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d) from 3908' to to all depth with gas.

MATER! ALS: IV.

A. Casing Program:

Hole Size	Depth O.H.	Casing Size	Wt. & Grade	Dept' Co.
12 14/"	260*	9 5/8"	32.3# H-40	
8 3/4"	3903 *	7''	20# · K−55	3 900'
6 1/4"	2240'	4 1/2"	10. 5# K-55	3758'-5998'

Float Equipment:

Surface casing 9 5/8" - B & W Regular Pattern Shoe.

Intermediate Casing 7" - Dowell guide shoe (Gode #50101-070) and self fill insert float collar (Code #53003-0 3). Seven (7) control ralizers (Code #56011-070) spaced every other joint above the shoe.

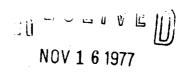
- B. Float Equipment Continued
 Place float collar one joint above shoe.
 - c) Liver 4 1/2" Larkin geyser shoe (Fig. 222) and Larkin flapped type float collar (Fig. 404). Brown liner hanger with neopressepack off.
- C. Tubing Program: 5950, of 2 3/8, 4.7#, EUE, K-55 tubing with seating nipple on top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

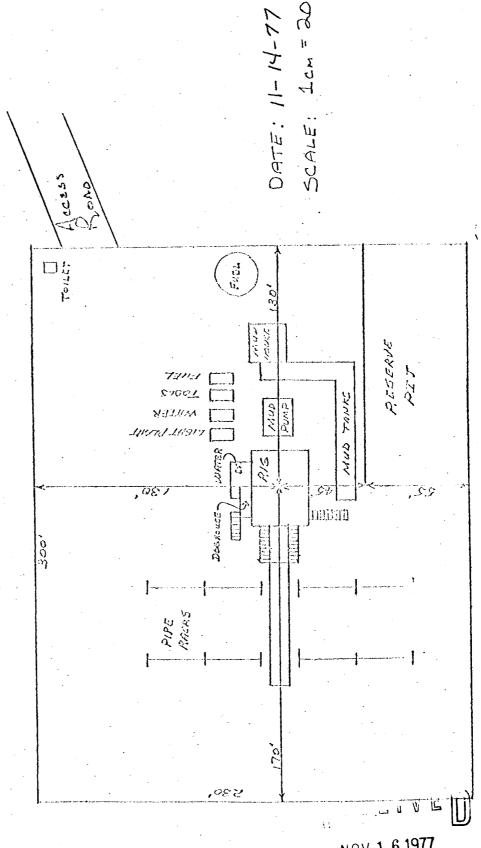
V. CEMENTING:

- A. Surface Casing 9 5/8" 1 125 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 3 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% cmc as co
 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.

DEE/ch





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NORTHWEST PIPELINE CORPORATION

MULTI - POINT SURFACE USE PLAN

for the San Juan 29-5 Unit

Well Number 13A

NOV 1 6 1977

- 1. Existing Roads: See attached topographic map. All existing roads used, shall be satisfyined in a serviceable condition at all times during the dealling operation.
- 2. Planned Access Roads: See attached topographic map. Maximum grade is an preminately 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. Drainge facilities may include dischast, water bars, culverts or any other measure attended 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 5: 'ce Lines: See attached topographic map for locations of existing and pr. used 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 25, T29N, R6W.
- 6. Source of Construction Materials: No additional materials will be needed.
- 7. Notheds for Handling Waste Disposal: All garbage, debris, and trash will be buriled 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 nother drainages and will be constructed in such a manner so that they will not leak. Any evaporator pit containing toxic liquids will be fenced.
 - Ancillary Facilities: These 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 claused, 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 of close as possible for any above ground equipment while still allowing for seeme 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 BLA.

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Multi-Point Surface bee Plan San Juan 29-5 Unit #13A Page 2

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 necessar 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 raod is gently sloped with scattered brush and some grasses.

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

I hereby certify that I have inspected the proposed drillsite and access route; that I at 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 substant atoms in conformity with this plan and the terms and conditions under which it is approved.

11-14-77 Date

D.E. Richerdson Drilling Engineer

DER/ch

NOV 1 6 1977

