# SURMIT IN TRIPLICATE\*

(Other instructions on reverse side)

Form series St. Budget Street No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR

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5.	LEASE BUSE.	Milet	TO SERIAL	-¥

	5. LEASE BUSE STICE NO SERIAL NO.							
	SF 078278							
APPLICATION	UFCH PERMIT	O DRELL, I	DEFPE	N. O" PLUS	SBACK	6. IF INDIAN, Alsted 2 THE NAME		
- 12. ттеп ос мовя ВВІ	LL [X	DEEPEN		PILIG	BACK 🗌	7. UNIT AGENEE BYS 1 . 19		
b. Type of well		Re but last 1				San Juas 29-6 Unit		
	S OTBOR			NGLE MU NE ZOS	LTIPLE []	8. PARM OR EED . ASIE		
2. NOTE OF OPERATOR	<b></b>					San Jua: 29-6 Unit		
North est Pip	eline Corporati	.on						
P.O. Box 90	Farmington, New	Mexico 8	7401			10. FIELD AND CR. SEDERA		
A. I . SER OF WELL (R.	port location clearly and	in accordance wi-	Trang S	tate requirements.*)		Blacco M. & Verde		
J 1850' TSL & 9	00' FEL -					11. SEC., T., E., M		
At proposed prod, zon					•			
As Above -	DRUC ON FROM NEAD	F'. TOWN OR POS	T OFFICE	*		SEC 13 VISW NOW		
N/A						Rio Arria NM		
14. PRIMARCH PROMITAGES FORATION TO NEW SET			16. No	OF ACEES IN LEASE	17. No.	OF ACRES A CIGNES		
PROPERTY OF THE L. (Also to nearest - )	INE, FT. OC	00 1		N/A		232.16		
18. DISTANCE PROM P. D. TO SCALOGE WELL, E.	SUMB IN ATION*		19. PR	PPOSED DEPTH	29. 107/	ARY OR CAMES 9000.		
On white har, on the	ROBART CA N/	Λ		6007		Rotary		
21. The vitigated (Show vite)	the Br, Re, G., etc.)					20. APPROX. POWE WORK WILL START*  1/1/76		
23.		ROPOSED CASH	vo and	CEMENTING PRO	1C12 5 3 f			
AUTO AN AVAIL		·				·		
SIZE OF HOUR	5-7E OF CASING	WEIGHT PER F	00T	SETTING DEPTH		QUANTITY OF CEMENT		
8_3//	. 1 5/8 . <u> </u>	32.3# 70_#		200.' 39.33		25_sks 50_sks		
6 1/4	4 1/2	10.5#		3783-6007		10 sks		
١	, .	10.5"	1	3703 0007	1 -	10 585		
Selectively performed 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 E/2 of section 13 is dedicated to this well gas is dedicated.								
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						And the second second		
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				1 2007.7	1977			
				10000	DOM:			
				OIL CON. (	/			
preventer program, if any 24.	Irill or deepsic Espectional	Ny, give pertinen	data o	ing back, de Sata c n subsurface i Sation	on resent process and measure	ductive zone and perposed a sepreductive dund true vertical depths. Clee blowout		
	of State office use)							
PEPSHT NO.			No.	APPROVAL DATE				

CONDITIONS OF APPROVAL, IF ANY.

Unit Citter OF

NWU 551

\*See Instructions On Reverse Side

distances must be free the outer by the level the Section Opera Rorthgest Pip Jine Corporation Ser don 29-6 Unit 2911 Rio Arriba Actual 1 stage L 1.850 tines South Ground Level Elev. - Mesa 🖖 Blanco 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more that one lease is dedicated to the well, outline each and identify the ownership thereof (both a to working interest and royalty). 3. If more than one lease of different ownership is described 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 in "no," list the owners and tract descriptions which have actually been consolidated. (Her rever at the of this form it necessary.) No allowable will be assigned to the well until all interests have been consolidated (by communitization) forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. 45557 CERTIFICATION I hereby certify that the infer action comtained hereign is true and cor lite to the  $(\cdot)$ D.E. Richard on Drilling Engineer Company Northwest Pagel Fe SF 078278 November 8, 19, .13 I hereby certify that the well location shown on this plat were plate: "from field notes of actual surveys made by me or under my supervises, and they the same is true and come t to the last of my. knowledge and belief. Date Surveyed October h. Registered Profes and/or Land Surveyer Quella Con Ja-Fred B. 2310 200 1000 50 Ç

#### OPERATIONS PLAN

## San Juan 29-6 Unit #33A

NW/4 SW/4 Sec. 13, T29N, R6W LOCATION: I.

Rio Arriba County, N.M.

LEASE NUMBER: SF 078278

FIELD: Blanco Mesa Verde

6727' GR

#### 11. CECHOGY:

A. Formation Tops:

Olo Alamo: 27391 Cliff House: 54091 Kirtland: 2902**'** Menefee: 55131 Fruitland: 33421 Point Lookout: 58071 Pictured Cliffs: 36291 Total Depth: 6007 Lewis: 37331

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

C. Coring Program: None

Natural Gauges:

Gauge at last connection above 5513',5307' and at total depth. Gauge any noticeable increases in gas

flow at depth other than those noted above.

## III.

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

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

Mud Program:

a) Spud Mud: Water, lime and gel.

b) Surface to 3733'

Viscosity:  $32-38 \sec/qt$ . 8.8-9.2 #/gal. Weight:

Water Loss:

8-20 cc

Ph:

8.5-9.5

39331. c) From 3733' to

Viscosity:

36-45 sec/qt.

Weight:

8.5-9.5 #/gal.

Water Loss:

8-20 cc

8.5-9.5

d) from 3933' 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# 11-40	2001
8 3/4"	3933 <b>'</b>	7''	<b>20</b> # K−55	39331
6 1/4"	2074'	4 1/2"	10.5# K-55	37831-60071

## Float Equipment:

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

Intermediate Casing  $7^{\prime\prime}$  - De :-11 guide shoe (Code #50101-070) and self fill insert float coller (Code #53003-070). Seven (7) center ralizers (Code #56011-070) spaced every other joint above the sleet

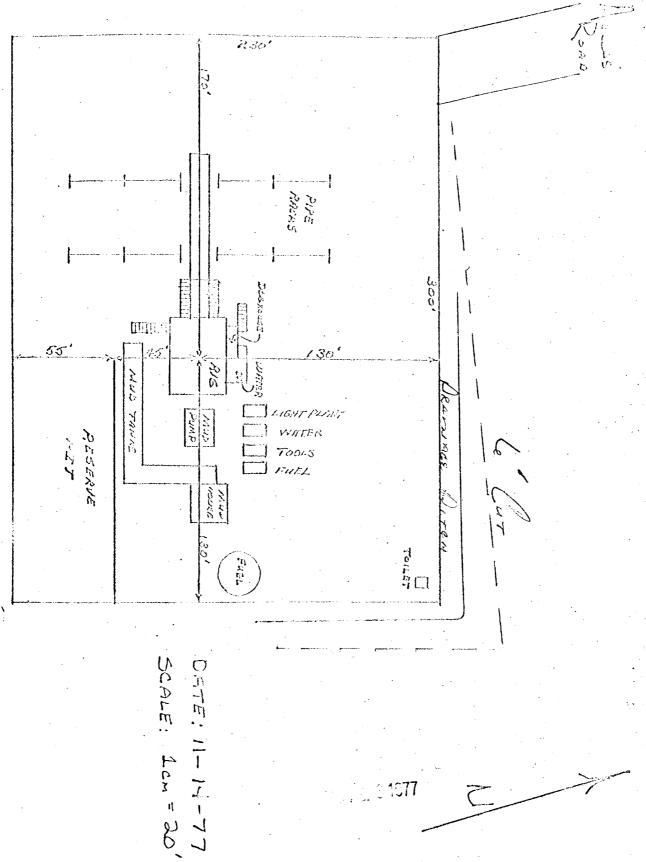
- B. Float Equipment Continued

  Place float collar one joint above shoe.
  - c) Liner 4 1/2" Laskin geyser shoe (Fig. 222) and Larkin flapper type float collar (Fig. 404). Brown liner hanger with neoprema pack off.
- C. Tubing Program: 5950, of 2 3/8, 4.7%, EUU, K-55 tubing with senting 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. CEMESTING:

- 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). NOC 12 hours. Test surface casing to 600 PSI for 30 minutes.
- B. Internaliate 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 PST.
- C. Production Liner 4 1/2" Use 210 sacks Class "B" with 4% gel and 1/4 cm.

  ft. of fine Gilsonite per sack. Precede cmt. with
  20 bbls. water mixed with 3 sks. gel (70% cmc ss to
  circulate liner). Set liner pack off and recorse
  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 PIPELING CORPORATION

MULTI - POINT SURFACE USE PLAN

for the San Juan 29-6 Unit

Well Number 33A

- i. 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 diches, 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 Vells: 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 : I Type of Water Supply: Water needed for the drilling operation will be holded from the San Juan 29-6 Unit Water Well located in the SW/4 28, T29%, K6%.
- 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 powill be feaced 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 the will not leak. Any evaporator pit containing toxic liquids will be fenced.
- 8. Ancillary reflicies: 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 drawnage 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, con-reflective, non-chalking color that simulates the natural color of the site. For this well code number 595-3427, 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 a earthen screen will be constructed to protect the vegetation. All liquid from the line will be contained at the site unless otherwise specified by the surface agency's represe lative.

The area covered by the location and proposed access rand 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. <u>Certification:</u>

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.

11-14-77 Date

W.E. Richardson Drilling Engineer

DER/ch

