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P.O. Box 90	Farmington, No (Report location yearly and	w Mexico 87401	State requirements.*)	41A 10. FIELD AND SCOR, OR WHATEAT
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ON APPLICATION, ON	THU A GOLD . FT.	N/A	6048	Rotary
6763 GR	whether DF, RT, GR, etc)			25. APPROX. BUTB WORK W START*
23.				1/1/76
		PROPOSED CASING AN	D CEMENTING PROGR.	AM
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTERY OF CEME. T
$\frac{12}{8}\frac{1}{3}$	9 5/8"	32 3#	200'	124 61 6
8_3/ <sub>6</sub> 6_1/ <sub>4</sub>	4 1/2"	00. <u>#</u>	3969	150_sks
0 1/4	4 1/2	10.5#	3819-6048	210 sks
Selactively	perforate and st	imulate the Mes	sa Verde format	ion.
A BOP will	be installed afte	or the surface of	easing has been	run and cemented.
All subsequ	ent operations wi	111 be conducted	l through the B	OP.
The E/2 of	section 24 is dec	licated to this	well gas is de	dicated.
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zone. If properal is	to drill or deep நிரேச்சரிற்	proposal is to deepen or a	ong baco-sire data on p	resent Productive zone and proposed a predoctive aid measured and true vertical depths. See blowout
preventer program if	mg. , /			

(This space for Federal or State office use)

APPROVED BY ...

CONTIONS OF APPROVAL, IF ANY:

Olcal

\*See Instructions On Reverse Side

NWU-281

# NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

| Prim C-102 | Style to Tos C-128 | 1.0 prim to 1-1-65

All districted t	nust be from the outer bound	aries of the Section.	
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the state of the s			233. <b>24</b> Anes
1. Outline the warrage dedicated to the sub	ject well by colored p	encil or hachese marks on	the placeledow.
2. If more than the lease is dedicated to the interest are coalty).	he well, outline each a	and identify the ownership	thereof (both as to working
3. If more than one lease of different owners dated by communitization, unitization, force	hip is dedicated to the e-pooling. etc?	well, have the interests	of all owners been seemoli-
Yes No If answer is "yes,"	type of consolidation	<u> </u>	
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If answer is "no," list the owners and tra-	et descriptions which b	iave actually been consol	idated. (Feerewerse . of
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No allowable will be assigned to the well u forced-pooling, or otherwise) or matil a non-s	ntii ali interests have standard uuit-eliminati	been consolidated (by e	ommunitization, a line, ion,
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## OPERATIONS PLAN

#### San Juan 29-6 Unit #41A

NW/4 SE/4 Sec. 24, T29N, R6W LOCATION:

Rio Arriba County, N.M.

LEASE NUMBER: SF 078284

FILLD: Blanco Mesa Verde

ELEVATION: 6763' GR

ov 1 6 1977

GEOLOGY: II.

A. Femaltion Tops:

27751 Ojo Alamo: Cliff House: 54451 Kirtland: **2**933\* 55491 Menefee: 33781 Fruitland: Point Lookout: 58481 36651 Pictured Cliffs: Total Depth: 6048 Lewis: 3769**'** 

B. Logging Program:

Gamma Ray-Neutron at T.D.

C. Coring Program:

D. Natural Gauges: Gauge at last connection above 5549',5848' and at

total depth. 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.

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

C. Mod Plogram:

a) Spud Mud: Water, lime and gel.

Surface to 3769'.

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

Wat :: Loss: 8-20 ce Ph: 8.5-9.5

c) From 3769' to 3969'.

Viscosity: 36-45 sec/qt. Weight: 8.5-9.5 #/gal.

Water Loss: 8-20 cc Ph: 8.5-9.5

d) from 3969' to total depth with gas.

IV. MATERIALS:

A. Casing Program:

H le Size	Depth O.H.	Casing Size	Wt. & Grade	Depth Set
12 14/"	200	9 5/8"	32.3# H-40	200
8 3/4"	<b>3</b> 969 <b>'</b>	7"	20# K−55	<b>3</b> 969 <b>'</b>
6 1/4"	2079'	4 1/2"	10.5# K-55	3819'-6048'

Float Equipment:

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

Intermediate Casing 7" - Dowell guide shoe (Code #50101-070) and self fill insert float cellar (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 neopresse pack off.
- C. Tubing Program: 6000', of 2 3/8", 4.7#, EUE, 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. CEMERATING:

- 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 paz with 12% get and 15.52 gal. water per sack. Tail in with 50 sacks Class "B" with 2% CaCl (65% excess to a r Ojo Alamo). WOC 12 hours. Run temp. surray accer 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 cat. with
  20 bbls. water mixed with 3 sks. gel (70% excess to
  circulate liner). Set liner pack off and revers
  out excess cmt. Rum 6 1/4" bit to top of liner and
  pressure test (test 12 hours after plug is down)
  Lay down DP and rum 3 7/8" bit on 2 3/8" Ear. tels
  ing 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 41A

- 1. Existing Roads: See attached topographic map. All existing roads us 1, shall be maintained in a serviceable condition of all times during the drilling operation.
- 2. Planned Access Roads: See attached topographic map. Maximum grade in aperproximately 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 dit was 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, Cathering 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 houled from the San Juan 29-6 Unit Water Well located in the SW/4 28, T29N, R64.
- 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 cleaned up and leveled. The earthen pits will not be located on natural draitiges and will be constructed in such a manner so that they will not lead. 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. Phas 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-colo number 595-3412/, Green.

11. Ot of Information: If, during operations, any historic or prehistoric rule, 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.

Multi-Polit Surface Use Flan San Juan 29-6 Unit: #41A Page 2

When drilling with gas, the line used to discharge and burn off the gas vill be located so as not to damage vegetation in the area, and if necessary the earthen screen will be constructed to protect the vegetation. All liquit of 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 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. 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.

11-14-77

D.E. Richardson Drilling Engineer

DER/ch

