APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

### SUBMIT IN TRIPLICATE.

Form approved, Budget Bureau No. 42-R1425.

(Other instructions on reverse side)

# UNITED STATES DEPARTMENT OF THE INTERIOR

30-039-21287
5. LEASE DENIGNATION AND SERIAL NO.

GEOLOGICAL SURVEY							NM 03040-A	
APPLICATION	V FOR PERMIT	TO DRILL, I	DEEPEN,	OR PI	LUG BA	<b>ACK</b>	6. IF INDIAN, ALLOTTER OR TRIBE NAME	
DRIDER OF WORK  DRIDER OF WELL  OIL  WELL  OIL  WELL  OIL  WELL  OIL  WELL  OIL  WELL  OIL  OIL  WELL  OIL  OIL  OIL  OIL  OIL  OIL  OIL	St Pipeline Cor  x 90, Farmingto  eport location clearly and FNL & 790' FWL	DEEPEN   poration n, New Mexi	NINGLE ZONE	PLU	JG BACK		7. UNIT AGREEMENT NAME  San Juan 29-6 Unit 8. FARM OR LEANE NAME  San Juan 29-6 Unit 9. WELL NO.  46A  10. FIELD AND FOOL, OR WILDCAT  Blanco Mesa Verde  11. SEC., T., R., M., OR BLK.  AND SURVEY OR AREA	
At proposed prod. zon							0. 07 M20N D(II	
As above  14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*							Sec. 27, T29N, R6W  12. COUNTY OR PARISH   13. STATE	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST 790 from drilling PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) unit line  18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED,			19. PROPOSED DEPTH 20. ROZ			то ти	Rio Arriba   NM  ACRES ASSIGNED IS WELL.  320  FOR CABLE TOOLS	
OR APPLIED FOR, ON TH		/2 mile	5674	· '		Rotary 1 22. APPROX. DATE WORK WILL START*		
	6383¹ G	R					October 20, 1976	
23.	. ,	PROPOSED CASI	NG AND CEN	MENTING	PROGRAM	<u></u> !	0000001 10, 1570	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	оот :	SETTING DI	ЕРТН		QUANTITY OF CEMENT	
13 3/4"	9 5/8"			2001		180 sxs.		
8 3/4"	711	<u>36</u> 20		3662'		160 sxs.		
0.0/4					5674	215 sxs.		
A BOP will All subsequ	perforate and be installed af ent work will b Section 27 is d	ter the 9 5 e conducted	5/8" surf l through	face c	asing h	as bee	n run and cemented.	
Gas is dedicated.			SE	P 7	1976			
			pen or Nug b		data on ore		ctive zone and proposed new productive and true vertical depths. Give blowou	
signed D, H, M	Margacel	l: TI	rLE Produ	uction	Engine	er	8-30-76	
(This space for Fede	eral or State office use)						1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	

DATE

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

All distances must be from the outer boundaries of the Section. Well No. 116A San Juan 29-6 Unit Northwest Pipeline Corporation Township Unit Letter Section Rio Arriba 29N 6W Actual l'ootage Location of Well: 790 feet from the West North 940 feet from the Hine and Dedicated Acreage: Ground Level Elev. Producing Formation 320 Blanco Mesa Verde Acres 6383 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 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 consult dated by communitization, unitization, force-pooling. etc? If answer is "yes," type of consolidation \_ 7 Yes If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse 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, eliminating such interests, has been approved by the Commission. CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. 7901 **(3)** #46A Name Production Engineer SEP 7 1976 Northwest Pipeline Corp. O'L CON. COM. Date NM 0304b-A 8-24-76 DIST. 3 I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my #46 knowledge and belief.

1650

NORTHWEST PIPELINE CORPORATION

MULTI-POINT SURFACE USE PLAN

for the San Juan 29-6 Unit

Well Number 46A

- 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, 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 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 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. 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, draining east and west.
- i0. 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 druing the period from July 1 through September 15. Reseeding 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.

Con't on page 2

Page 2
Multi-Point Surface Use Plan
San Juan 29-6 Unit #46A

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 agencies representative.

The area covered by the location and proposed access road is gently sloped with scattered brush, and trees.

- 12. Operator's Representative: D.H. Maroncelli, P.O. Box 90, Farmington, New Mexico 87401. Phone: 327-5351 Extension 54.
- 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 comformity with this plan and the terms and conditions under which it is approved.

9-2-76 Date

D.H. Maroncelli Production Engineer

DHM/ks

## OPERATIONS PLAN

San Juan 29-6 Unit #46A

1. LOCATION: NW/4 Sec. 27, T29N, R6W LEASE NUMBER: NM 03040-A

FIELD: Blanco Mesa Verde ELEVATION: 6383' GR

#### II. GEOLOGY:

Formation Tops:

San Jose: Surface Cliff House: 50431 Ojo Alamo: 2430' Menefee: 5128' Kirtland: 2561' Point Lookout: 5458' Fruitland: 3012 Total Depth: 5674 Pictured Cliffs: 33071

Lewis: 34621

B. Logging Program: Gamma Ray-Induction and Density at T.D.

C. Coring Program: None

D. Testing Program: None

#### III. DRILLING:

- Anticipated starting date and duration of activities: Drilling will start on or about October 20, 1976 and will last about two weeks.
- BOP: Blind rams and pipe rams, 10", 900 series, double gate, rated at 300 PSI.
- Mud Program:
  - (a) Spud Mud: Water, lime and gel.
  - Surface to 3462'

Viscosity: 32-28 sec/qt. Weight: 8.8-9.2 #/gal. Water Loss: 8-20 cc.

Ph: 8.5-9.5

(c) From 3462' to 3662'

Viscosity: 36-45 sec/qt. Weight: 8.5-9.5 #/gal. Water Loss: 6-12 cc

Ph: 8.5-9.5

(d) From 3662' to total depth with gas.

## IV. MATERIALS:

A. Casing Program:

Hole Size	Depth O.H.	Casing Size	Wt. & Grade	Depth Set
13 3/4"	200'	9 5-8"	40# K-55	200'
8 3/4"	36621	7"	20# K−55	36621
6 1/4"	3662'-5674'	4 1/2"	10.5# K-55	3512'-5674'

Operations Plan San Juan 29-6 Unit #46A Page 2

> B. Tubing Program: 5624' 2 3/8", 4.7#, K-55 tubing with seating nipple on top of bottom joint. Expendable check valve on bottom.

## V. CEMENTING:

- A. Surface Casing 9 5/8" Use 180 sacks of Class "B" with 1/4# gel flake per sack and 3% calcium chloride (100% excess to circulate). WOC 12 hours.

  Test surface casing to 600 PSI for 30 minutes.
- B. Intermediate Casing Use 100 sacks of Class "B" 65/35 poz with

  12% gel and 15.52 gal. water per sack. Tail

  in w/50 sacks Class "B" with 2% calcium chloride

  (65% excess to cover 0jo Alamo). WOC 12 hrs.

  Run temp. survey after 8 hours. Test casing

  to 600 PSI.
- C. Production Liner 4 1/2"-Use 215 sacks of Class "B" with 4% gel & 1/4
  cu. ft. of fine Gilsonite per sack. Precede
  cement with 20 bbls. water mixed w/3 sxs. gel
  (70% excess to circulate liner.) Set liner
  pack off & reverse out excess cement. Run
  6 1/4" bit to top of liner & pressure test.
  (test 12 hrs. after plug is down). Lay down
  DP and run 3 7/8" bit on and 2 3/8" EUE tubing
  to clean out liner. Perforate 18 hrs. after
  plug is down.

DHM/ks

NORTHWEST PIPELINE CORPORATION
LOCATION LAYOUT

SAN JUAN 29-6 UNIT #46A

1200ch A ESERVE PIT MUD TANKS Mup 816 DOG NO USE -PIPE RACKS 082 Acc 6 55

Fuel

Tol. 67

DATE: 8-2-76 SCALE: 2 CM = 20°

22,

