## SUBMIT IN TRIPLICATE\*

Form approved. Budget Bureau No. 42-R1425.

(Other instructions on reverse side)

UNITED STATES					
DEPARTMENT	OF	THE	INTERIOR		

30-045-22)34 5. Lease designation and serial no. SF 078051

	GEOLOG	SICAL SURV	E.Y		ļ	pr 0/002T	
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK					G. IF INDIAN, ALLOTTEE OR TRIBE NAME		
1a. TYPE OF WORK DRI	LL 🛚	DEEPEN (	J	PLUG BAC	к 🗆	7. UNIT AGREEMENT NAME	
b. TYPE OF WELL			61	NGLE MULTIP			
WELL W	ELL X OTHER			NE ZONE	<u>"                                    </u>	8. FARM OR LEASE NAME	
2. NAME OF OPERATOR						Neil	
El Paso N	atural Gas Co	mpany				9. WELL NO.	
3. ADDRESS OF OPERATOR						3A	
PO Box 99	0, Farmington	, NM 87	401			18 Tanco Protured Cliffs	
4. LOCATION OF WELL (Re At surface	eport location clearly and	in accordance wi	th any S	tate requirements.*)		Blanco Mesa Verde 🗸	
F.	1600'N, 11	.05'W /				11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA	
At proposed prod. zon	•	. ,				Sec. 15, T-31-N, R-11-W	
proposa proces						NMPM	
14. DISTANCE IN MILES	AND DIRECTION FROM NEAR	EST TOWN OR POS	T OFFICI	r.•		12. COUNTY OR PARISH   13. STATE	
						San Juan NM	
15. DISTANCE FROM PROPO			16. NO	). OF ACRES IN LEASE	17. NO. 0	OF ACRES ASSIGNED HIS WELL	
PROPERTY OR LEASE I.	INE, FT.				1	160.00 & 320.00	
(Also to nearest drig 18. DISTANCE FROM PROP			19. PR	OPOSED DEPTH	20. ROTA	TARY OR CABLE TOOLS	
TO NEAREST WELL, DE OR APPLIED FOR, ON THE	RILLING, COMPLETED,			52951	Rotar	rv	
21. ELEVATIONS (Show who			<u> </u>		11000	22, APPROX. DATE WORK WILL START*	
5935 GL	22, 200, 200,						
23.				O O DE LOS DELOS DE LOS DELOS DE LOS DELOS DE LOS DELOS DE LOS DELOS DE LOS DE LOS DE LOS DELOS DELOS DELOS DELOS DELOS DELOS		<u> </u>	
	P	ROPOSED CASI.	NG ANI	O CEMENTING PROGRA	Y 1/1		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	оот	SETTING DEPTH		QUANTITY OF CEMENT	
13_3/4"	9 5/8"	32.3#		200'	224	cu.ft. to_circulate_	
8 3/4"	7"	20.0#		2950'	470	cu.ft.to cover Ojo Alamo	
6 1/4"	4 1/2"line			2800-5295'		cu.ft.to fill to 2800'	
-	1			ı	•		
				_			
	ly perforate		wate	r fracture t	he Mes	sa Verde and	
Pictured	Cliffs format	cions.					
A 3000 ps	i WP and 6000	) psi tes	t do	ouble gate pr	evente	er equipped with	
blind and	pipe rams wi	ll be us	ea I	or blow out	preve	ntion on this well.	
		*			· F		
This gas	is dedicated.	•					
				•		7 1977	
					25	SET !	
					_ \	OIL CON. CO 1/	
	f Section 15					N DIST. 3	
IN ABOVE SPACE DESCRIBI	E PROPOSED PROGRAM: If	proposal is to dec	pen or p	plug back, give data on p	resent prod	dutive zone and proposed new productive d and true vertical depths. Give blowout	
zone. If proposal is to preventer program, if an		my, give perimen	ii uata v	on substitute locations at	nu measure	d and the vertical appears	
24.	11 1.				J. 737		
	9. Queso	T.	TLE	Drilling	C1 0 m	k- PATE -August 31, 1977	
BIGNED	and an State office use)			DITIII	-cier	R August 317 1377	
(This space for rede	eral or State office use)						
PERMIT NO.				APPROVAL DATE		A COMPANY AND A PARTY OF	
						RECEIVED	
APPROVED BYCONDITIONS OF APPROVED	VAL. IF ANY:	Ti	TEE			DATE	
Comparison OF REERO	0010					SEP 2 1977	

All distances must be from the outer boundaries of the Section. Operator Lease Well No. EL PASO NATURAL GAS COMPANY NEIL (SF-078051) **3A** Unit Letter Section Township Range County 31-N 11-W SAN JUAN Actual Footage Location of Well: 1600 NORTH 1105 WEST feet from the line and feet from the line Ground Level Elev. Producing Formation Pool BLANCO PICTURED CLIFFS Dedicated Agreage MESA VERDE 5935 & P. C. BLANCO MESA VERDE 320.00 & 160.00 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 consolidated by communitization, unitization, force-pooling. etc? Yes If answer is "yes," type of consolidation \_ No Communitization х 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 NOTE: THIS PLAT IS REISSUED TO SHOW DUAL COMPLETION. 8-18-77 CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Original Signed by 1105 SF-078051 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 FEE knowledge and belief.  $^{\circ}M$ C. Date Surveyed AUGUST 9, 1977 Registered Professional Engineer 1320

2000

1500

1000

500



P. O. BOX 990 FARMINGTON, NEW MEXICO 87401

PHONE: 505-325-2841

## Multi-Point Surface Use Plan Neil #3A

- 1. Existing Road Please refer to Map No. 1 which shows the existing roads. New roads which will be required have been marked on this map.

  All existing and new roads will be properly maintained during the duration of this project.
- 2. Planned Access Roads Please refer to Map No. 1. The grade of the access roads will be consistent with that of the local terrain. The road surface will not exceed twenty feet (20') in width. Upon completion of the project, the access road will be adequately drained to control soil erosion. Drainage facilities may include ditches, water bars, culverts or any other measure deemed necessary by trained Company personnel to insure proper drainage. Gates and/or cattleguards will be installed if necessary.
- 3. Location of Existing Wells Please refer to Map No. 2
- 4. Location of Tank Batteries, Production Facilities, and Production
  Gathering and Service Lines Please refer to Maps No. 1 and No. 2.

  Map No. 2 shows the existing gas gathering
  lines. Map No. 1 shows the existing roads and
  new proposed access roads. All known production
  facilities are shown on these two maps.
- 5. Location and Type of Water Supply Water for the proposed project will be obtained from a water hole located in Aztec Ruins Road ditch.
- 6. Source of Construction Materials No additional materials will be required to build either the access road or the proposed location.

- 7. Methods of Handling Waste Materials - All garbage and trash materials will be put into a burn pit shown on the attached Location Plat No. 1. clean-up operations are begun on the proposed project, the burn pit with its refuse will be buried to a depth of at least three feet (3'). A latrine, the location of which is also shown on Plat No. 1 will be provided for human waste. If large amounts of liquids are left in the reserve pit after completion of the project, the pit will be fenced until the liquids have had adequate time to dry. The location clean-up will not take place until such time as the reserve pit can be properly covered over to prevent run-off from carrying any of these materials into the watershed. No earthen pit will be located on natural drainages; all earthen pits will be so constructed as to prevent leakage from occurring.
- 8. Ancillary Facilities No camps or airstrips will be associated with this project.
- 9. Wellsite Layout Please refer to the attached Plat No. 1.
- 10. Plans for Restoration of the Surface After completion of the proposed project, the location will be cleaned and leveled. The location will be left in such a condition that will enable reseeding operations to be carried out. Seed Mixture #2 will be used. The reseeding operation will be performed during the time period set forth by the regulatory body. The location production equipment will be painted brown (Federal Standard #595 30318).
- 11. Other Information The terrain is sand stone ledges covered with cedar and pinon trees. Coyotes and rabbits are occasionally seen on the proposed project site.

- 12. Operator's Representative W. D. Dawson, Post Office Box 990, Farmington, New Mexico 87401
- 13. Certification -

I hereby certify that I, or persons under my direct supervision, 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 El Paso Natural Gas Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

August 31, 1977

D. R. Read

Division Drilling Engineer

DRR:pb

## Operations Plan Neil #3A

I. Location: 1600'N, 1105'W, Section 15, T-31-N, R-11-W, San Juan County, NM

Field: Blanco Mesa Verde <u>Elevation:</u> 5935'GR

## II. Geology:

A. Formation Tops	Surface	San Jose	Lewis	<b>27</b> 50'	
	-	Ojo Alamo	875 <b>'</b>	Mesa Verde	4175'
		Kirtland	980'	Menefee	4405'
		Fruitland	2155'	Point Lookout	4845'
		Pic.Cliffs	2600'	Total Depth	5295'

- B. Logging Program: GR-Ind. and GR-Density at Total Depth.
- C. Coring Program: none
- D. Natural Gauges: 4165', 4395', 4835' and at Total Depth. Also gauge any noticeable increase in gas. Record all gauges in daily drilling report and on morning report.

## III. Drilling:

A. Mud Program: mud from surface to 2950'. Gas from intermediate casing to Total Depth.

#### IV. Materials:

Α.	Casing Program:	Hole Size	Depth	Casing Size	Wt.&Grade
		13 3/4"	200'	9 5/8"	32.3# H-40
		8 3/4"	2950'	7"	<b>20.0</b> # K-55
		6 1/4"	2800-5295'	4 1/2"	10.5# K-55

B. Float Equipment: 9 5/8" surface casing - Larkin guide shoe (fig. 102)

7" intermediate casing - Dowell guide shoe (fig. 50101) and Dowell self-fill insert float valve (fig. 53003), 5 B&W stabilizers (Prod. No. 637085) every other joint above shoe. Run float two joints above shoe.

- 4 1/2" liner 4 1/2" liner hanger with neoprene packoff. Larkin geyser shoe (fig. 222) and Larkin flapper type float collar (fig. 404 M&F).
- C. Tubing: 5295' of 2 3/8", 4.7#, J-55 8rd EUE tubing with a common pump seating nipple above perforated pup joint with bull plugged full joint for mud anchor on bottom.
- D. Wellhead Equipment: 10" 900 x 9 5/8" casing head. 10" 900 x
  6" 900 xmas tree.

Operations Plan - Neil #3A, cont'd.

## V. Cementing:

9 5/8" surface casing - use 190 sks. of Class "B" cement with 1/4# gel-flake per sack and 3% calcium chloride (224 cu.ft. of slurry, 100% excess to circulate to surface). WOC 12 hours. Test casing to 600#/30 minutes.

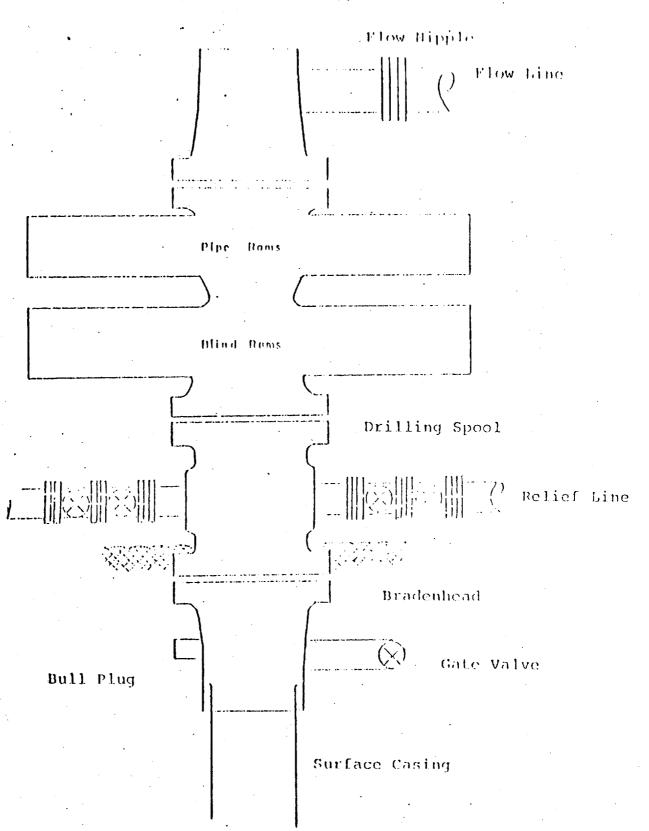
7" intermediate casing — use 134 sks. of 65/35 Class "B" Poz with 12% gel (15.52 gallons of water per sack) followed by 100 sks. of Class "B" with 2% calcium chloride (470 cu.ft. of slurry, 50% excess to cover Ojo Alamo). Run temperature survey at 8 hours. WOC 12 hours. Test casing to 1200#/30 minutes.

4 1/2" liner - precede cement with 20 barrels of gel water (2 sks. gel) Cement with 24lsks. of Class "B" cement with 4% gel, 1/4 cu.ft. of fine gilsonite per sack and 0.6% Halad-9 (435 cu.ft. of slurry, 70% excess to circulate liner). WOC 18 hours.

DRR:pb

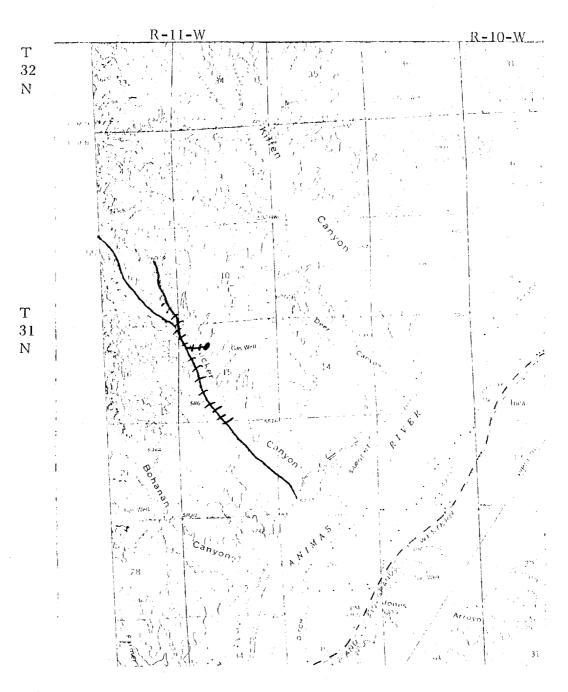
cut 6ft Typical Location Plat for Miss Verde and Waters Wells from wellhood to front to Fill 6 ft File 4 ft 300 75. 1 01.5.1g Mud Tonk Draw Kerks Fact Tonk

## Typical N.O. to Installation for Mesa Verde Well



Series 900 Double Gate BOP, rated at 3000 psi Working Pressure When gas drilling operations begin a Shaffer type 50 or equivalent rotating head is installed on top of the flow nipple and the flow line is converted into a blowie line

## EL PASO NATURAL GAS COMPANY Neil #3A SWNW 15-31-11



MAP #1

LEGERD OF STUDY-OF-MAYS

EXISTINA	ROADS		
EXISTING	PORLING	-1	+ -+-
EXISTIVI	Road & LHEEL	777-t	<b>†</b> •
PROPOGFIE	ROADG		
	TTENT, ETT	+ +	
FRCFOSED	ROVO - FILEP	1000 <del>- 1</del> -	++

# EL PASO NATURAL GAS COMPANY Neil #3A

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MAP #2