Form approved.

UNITED STATES DEPARTMENT OF THE INTERIOR

	Buc	lget	Bures	u	No.	42-	R142	5.
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	GEOL	OGICAL SURV	EY			SF 078096		
APPLICATION	6. IF INDIAN, ALLOTTEE OR TRIBE NAME							
a. TYPE OF WORK						-		
DR	ILL 🛭	DEEPEN [PLUG BA	YCK 🗌	7. UNIT AGREEMENT NAME		
b. TYPE OF WELL OIL C	AS 🗔		•	thore — wurm	C-			
WELL W	·····	SINGLE MULTIPLE ZONE ZONE			8. FARM OR LEASE NAME			
NAME OF OPERATOR						Mudge -		
El Paso Nat	tural Gas Co	mpany				9. WELL NO.		
ADDRESS OF OPERATOR	15A -							
PO Box 990	, Farmington	, NM 8740)1			10. FIELD AND POOL, OR WILDCAT		
LOCATION OF WELL (R. At surface	eport location clearly an	d in accordance wit	th any	State requirements.*)		Blanco MV&Blanco P		
	1150'S, 8	10'E				11. SEC., T., R., M., OR RIK.		
At proposed prod. zon	ie					Sec. 8, T-31-N, R-11		
						NMPM		
. DISTANCE IN MILES .	AND DIRECTION FROM NE	AREST TOWN OR POS	T OFFIC	E*		12. COUNTY OR PARISH 13. STATE		
10 miles No	orth of Azte	C. NM				San Juan NM		
DISTANCE FROM PROPO LOCATION TO NEAREST	OSED*		16. N	O. OF ACRES IN LEASE		OF ACRES ASSIGNED		
PROPERTY OF LEASE I	INE, FT.	810'		2512	тот	160.00 & 320.00		
. DISTANCE FROM PROP	OSED LOCATION*	0.10	19. PI	ROPOSED DEPTH	20. ROTA	20. ROTARY OR CABLE TOOLS		
TO NEAREST WELL, D. OR APPLIED FOR, ON THE	RILLING, COMPLETED,	2500 '	1	5350 '		Rotary		
. ELEVATIONS (Show who		2500	<u> </u>	3330	Inocai	22. APPROX. DATE WORK WILL START*		
6060'GR	,,					BILLOS. DELE WORK WILL START		
3.					· · · · · · · · · · · · · · · · · · ·	<u> </u>		
		PROPOSED CASIN	NG ANI	D CEMENTING PROGR	RAM			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO	00 T	SETTING DEPTH		QUANTITY OF CEMENT		
13 3/4" 9 5/8"						cu ft to circulate		
13 3/4"	9 5/8"	32.3#		200'	224 0	ru ft to circulate		
13 3/4" 8 3/4"	9 5/8" 7"	32.3#				cu.ft. to circulate		
8 3/4" 6 1/4"	7" 4 1/2"r	20.0#		3020' 2870-5350'	400 0	cu.ft.to cover Ojo Ala cu.ft.to fill to 3020		
8 3/4" 6 1/4" Selectively Pictured Cl A 3000 psi blind and p This gas is The E/2 of ABOVE SPACE DESCRIBE THE PROPOSAL IS TO THE PROPOSAL IS	7" 4 1/2"r 7 perforate of the liffs format. WP and 6000 pipe rams will deducated. Section 8 is proposed program: If drill or deepen direction	20.0# 10.5# and sandwa ion. psi test 11 be used JUL 25	doul fo:	3020' 2870-5350' fracture the ble gate prediction out produced by this well.	400 de 406 de Mesa	cu.ft.to cover Ojo Ala cu.ft.to fill to 3020		
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NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

All distances must be from the outer boundaries of the Section. Operator Well No. EL PASO NATURAL GAS COMPANY (SF-078096) MUDGE 15A Unit Letter Section Township Range County P 8 31N llW San Juan Actual Footage Location of Well: South feet from the 810 feet from the East Ground Level Elev. Producing Formation Pool Blanco Pictured Cliffs Dedicated Acreage: 6060 Pictured Cliffs-Mesa Verde Blanco Mesa Verde 160.00 & 320.00cres 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 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. 41000 Drilling Clerk ·o #15 El Paso Natural Gas Co. Company July 21, 1978 Date Sec I hereby certify that the well location shown on this plat was plotted from field SF-078096 notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. 810

2000

1500

2040



P. O. BOX 990 FARMINGTON, NEW MEXICO 87401

PHONE: 505-325-2841

Multi-Point Surface Use Plan Mudge #15A

- 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.
- Location of Existing Wells Please refer to Map No. 2. 3.
- 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 Animas River.
- 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. When 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,

7. cont'd.

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 as designated by the responsible government agency 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 as designated by the responsible government agency.
- 11. Other Information The terrain is rolling hills and high sandstone ledges with sagebrush and cedar growing. Deer graze and coyote run on the proposed project site.
- 12. Operator's Representative W.D. Dawson, PO Box 990, Farmington, NM
- 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.

D. C. Walker Project Dril

Project Drilling Engineer

Operations Plan Mudge #15A

I. Location: 1150'S, 810'E, Section 8, T-31-N, R-11-W, San Juan County, NM

Field: Blanco MV & Blanco PC Elevation: 6060'GR

II. Geology:

Α.	Formation Tops:	Surface	Nacimiento	Lewis	2820 '
		Ojo Alamo	1247'	Mesa Verde	42921
		Kirtland	1287'	Menefee	4495'
		Fruitland	2222'	Point Lookout	4900'
		Pic.Cliffs	2696'	Total Depth	5350'

- B. Logging Program: GR-Ind. and GR-Density at Total Depth.
- C. Coring Program: none
- D. Natural Gauges: 4282', 4485', 4890' 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 3020'. Gas from intermediate casing to Total Depth.

IV. Materials:

A. (Casing Prog		Size	Depth C	asing Size	Wt.&Gr	rađe
		13 3	3/4"	200'. 9	5/8"	32.3#	H-40
		8 3	3/4"	3020 ' 7	II .	20.0#	K-55
		6 1	./4" 287	0-5350' 4	1/2"	10.5#	K-55

7" intermediate casing - Pathfinder guide shoe (Part #1003-1-007) and Pathfinder self-fill insert float valve (Part #2010-6-007), 5 Pathfinder stabilizers (Part #107-10) every other joint above shoe. Run float two joints above shoe.

- 4 1/2" liner 4 1/2" liner hanger with neoprene packoff. Pathfinder geyser shoe (Part #2017-1-050) and Larkin flapper type float collar (fig. 404 M&F).
- C. Tubing: 5350' of 2 3/8", 4.7#, J-55 8rd EUE tubing with a common pump seating nipple one joint above bottom. Tubing will be open ended.

 2820' of 1 1/4", 2.33# J-55 IJ tubing with a common pump seatin nipple above a perforated joint plugged on bottom. Isolate producing formations with a packer.
- D. Wellhead Equipment: 10" 900 x 9 5/8" casing head.
 6" 900 xmas tree.



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 174 sks. of 65/35 Class "B" Poz with 6% gel and 2% calcium chloride (8.3 gallons of water per sack) followed by 100 sks. of Class "B" with 2% calcium chloride (400 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 292 sks. of 50/50 Class "B" Poz with 2% gel, 0.6% Halad-9, 6.25# gilsonite plus 1/4# Flocele per sack (406 cu.ft. of slurry, 70% excess to circulate liner). WOC 18 hours.



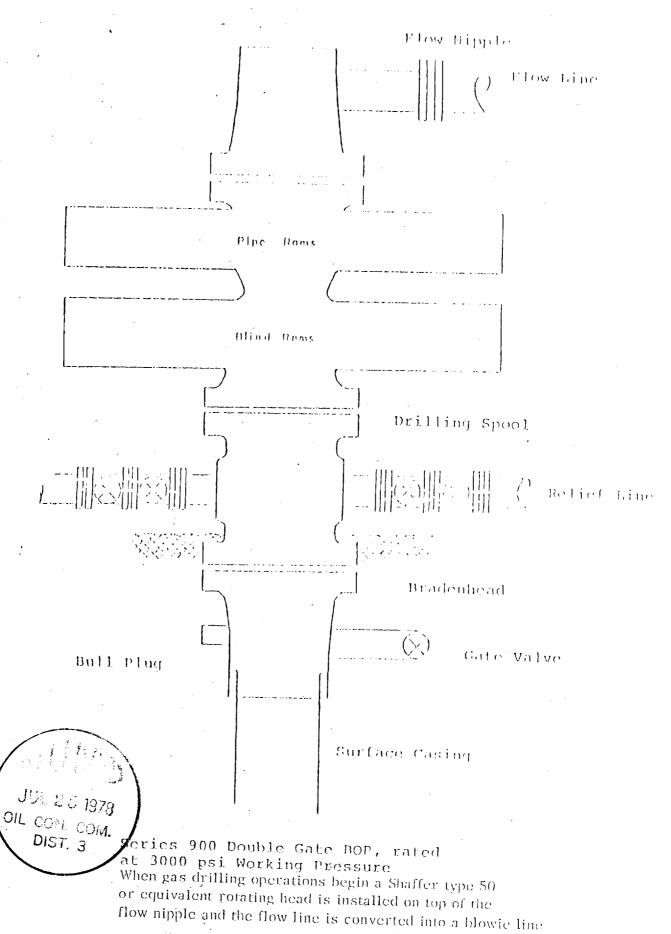
37 Drow Kerks Every Com cut 10xt Fill 10 ft

Koralisa Most for most word one works

Woll Namo. Mind of #154

Well Name: Mudge # 15A SES 131-11 F.C. M.V.

JUL 25 1978 OIL COM. COM. DIST. 3

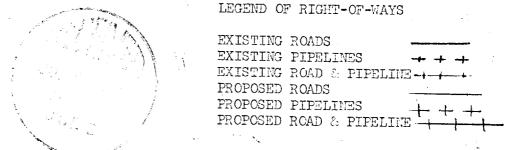


EL PASO NATURAL GAS COMPANY Mudge #15A (PM) SE 8-31-11

4089 4088

T 31 N

MAP #1



EL PASO NATURAL GAS COMPANY Mudge #15A (PM) SE 8-31-11

