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UNITED STATES

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Form approved. Budget Bureau No. 42-R1425.

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THE RESERVE THE PROPERTY OF TH	-,
TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 2400' S190' Rotary	
21. ELEVATIONS (Show whether DF, RT, GR, etc.)	BK WILL START*
5860'	
23. PROPOSED CASING AND CEMENTING PROGRAM	
SIZE OF HOLE SIZE OF CASING WEIGHT PER FOOT SETTING DEPTH QUANTITY OF CEME.	
13 3/4" 9 5/8" 32.3# 200' 224 cu.ft. to ci	ĪŢ
8 3/4" 7" 20.0# 2875' 434 cu.ft.to cov	
6 1/4" 4 1/2"liner 10.5# 2725-5190' 431 cu.ft.to fil	rculate

Selectively perforate and sandwater fracture the Mesa Verde formation.

A 3000 psi WP and 6000 psr blind and pipe rams will be			ion on this well.
This gas is dedicated.		MAY 26 19/8	RECEIVED
THE GOLD TO COMPANY OF THE COMPANY O		C REDLOGICAL SURVION	MAI 23 1975
The W/2 of Section 23 is de			U. S. EOLOGICAL SURVEY
IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal zone. If proposal is to drill or deepen directionally, give preventer program, if any.	is to deepen or pertinent data	plug back, give data on present production subsurface locations and measured	active zone and proposed new productive and true vertical depths. Give blowout
81GNED D. Guises	TITLE		DATE 5-22-78
(This space for Federal or State office use)		5-111111	
(This space for Federal or State office use)		APPROVAL DATE	

Char

N . MEXICO OIL CONSERVATION COMMISSI ... WELL LOCATION AND ACREAGE DEDICATION PLAT

		All distances must	be from the outer born	idaries of the Section	1.	
Operator	D/m + #		Lease	,		Well No.
	TURAL GAS COM	PANY	Mudge	(SF-	·078096)	7A
Unit Letter	Section	Township	Range	County		-
С	23	31N	1174	San	Juan	
Actual Footage Loc				-		
1140		orth line o		feet from the	West	line
Ground Level Elev.	Producing For		Pool			Dedicated Acreage:
5860	Mesa Ve	rde	Blan Blan	co Mesa Verd	e	320.00 / Acres
1. Outline the	e acreage dedica	ted to the subject	well by colored	pencil or hachure	marks on t	he plat below.
	J	•	•	•		•
2. If more th	an one lease is	dedicated to the	vell, outline each	and identify the	ownership t	hereof (both as to working
	id royalty).			•	•	
3. If more tha	in one lease of d	ifferent ownership	is dedicated to th	e well, have the	interests o	f all owners been consoli-
		nitization, force-po				
•						
X Yes	No If ar	iswer is "yes," typ	e of consolidation	comr	nunitiza	tion
1		owners and tract d	escriptions which	have actually be	een consolid	ated. (Use reverse side of
ŧ	necessary.)					
						nmunitization, unitization,
forced-pool	ing, or otherwise)	or until a non-stan	dard unit, elimina	ting such interes	ts, has been	approved by the Commis- R P.5705-78GRATH.
sion. NO.			TO BUON CORFT	CIED TEWE I	NUMBER PE	* 5-25-78 ************************************
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	(SF078	096)	I		El Pas	o Natural Gas Co.
FEE	Ø		1		Company	
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X	Ø		<u> </u>		Date	
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(X)	XXXXX	Sec 💢				
		23		·	.	
K#				`\	1 hereby	certify that the well location
M 3	` 🛭 .		. 1	\	shown or	this plat was plotted from field
FEE .				,	notes of	actual surveys made by me or
KV3				•	undermy	supervision, and that the some
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P. O. BOX 990 FARMINGTON, NEW MEXICO 87431 PHONE: 505-325-2841

Multi-Point Surface Use Plan Mudge #7A

- 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 rafer 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 at the Animas River.
- 6. Source of Construction Materials No additional materials will be required to build either the access road or the proposed location.

- 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 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 gray (Federal Standard #595-36357)
- 11. Other Information The terrain is sandstone ledges and high hills. Pinon and cedar trees grow on this site. Cattle graze 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.

May 22, 1978

D. C. Walker

Project Drilling Engineer

DCW:pb

Operations Plan Mudge #7A

I. Location: 1140'N,1645'W, Section 23, T-31-N, R-11-W, San Juan County, NM

Field: Blanco Mesa Verde <u>Elevation:</u> 5860'GR

II. Geology:

A. Formation Tops:	Surface Ojo Alamo Kirtland Fruitland Pic.Cliffs	990' 2135'	Lewis Mesa Verde Menefee Point Lookout Total Depth	2675' 4060' 4310' 4740' 5190'
--------------------	---	---------------	--	---

- B. Logging Program: GR-Ind. and GR-Density at Total Depth.
- C. Coring Program: none
- D. Natural Gauges: 4050', 4300', 4730' 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 2875'. Gas from intermediate casing to Total Depth.

IV. Materials:

7\	Casing Program:	Hole Size	Depth	Casing Size	Wt.&Grade
Α.	casing riogram.	13 3/4"	Depth 200'	9 5/8"	32.3# H-40
		8 3/4"	2875 '	7"	20.0# K-55
			2725-5190'	4 1/2"	10.5# K-55

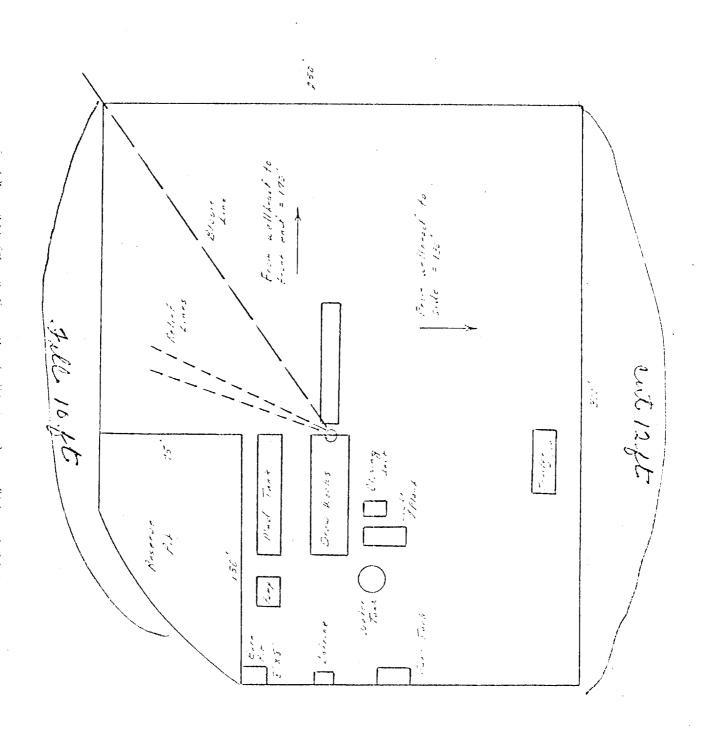
B. Float Equipment: 9 5/8" surface casing - Larkin guide shoe (fig. 102)

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: 5190' 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.

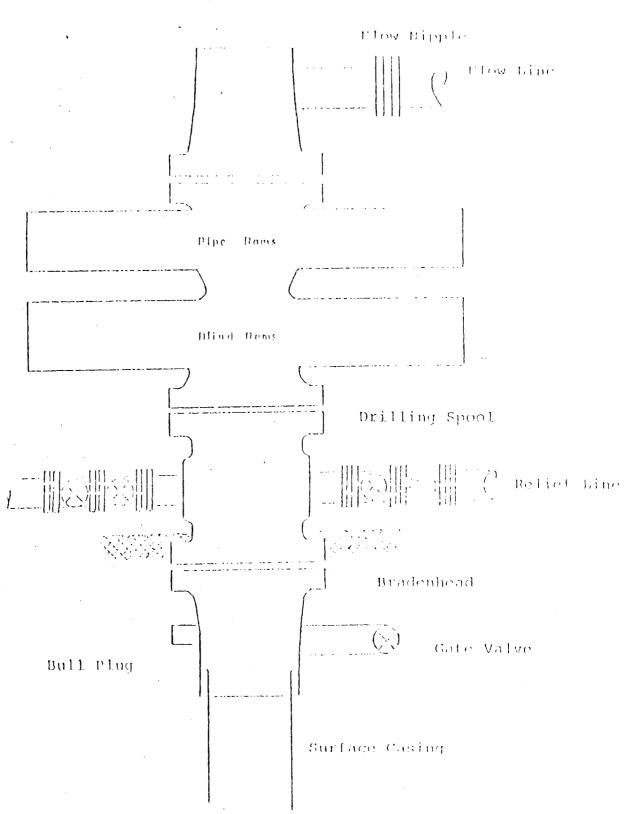
V. Cementing:

- 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 195 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 (434 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 310sks. of 50/50 Class "B" Poz with 2% gel, 0.6% Halad-9, 6.25# gilsonite plus 1/4# Flocele per sack (431 cu.ft. of slurry, 70% excess to circulate liner). WOC 18 hours.



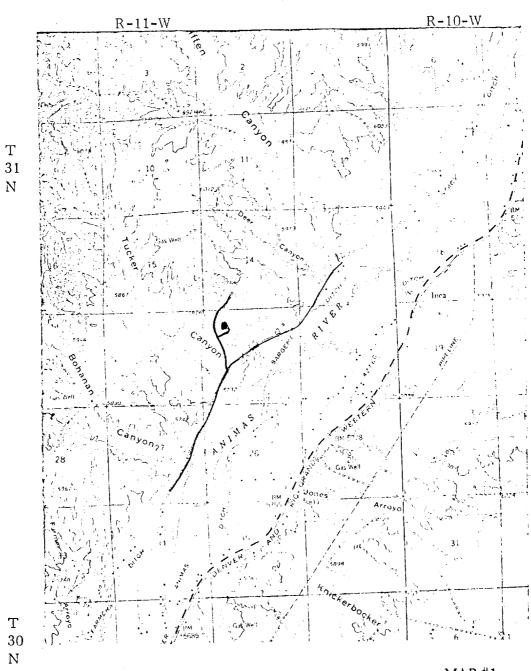
Kra Just El Para Natural 645

Typical N.O. S. Installation for Mena Verde Well



Sories 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 Mudge #7A NW 23-31-11

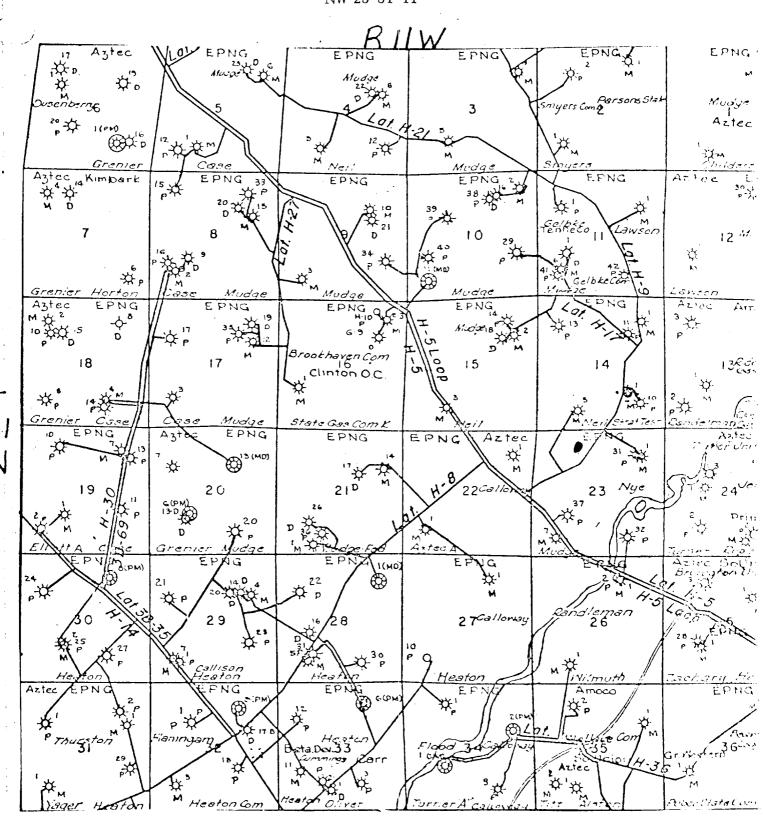


MAP #1

LEGEND OF RIGHT-OF-WAYS

EXISTING	ROADS	•			
EXISTING	PIPELI	ES	-+-		
EXISTING	ROAD 🤼	PILET	Diffi-4	-+	- •
PROPOSED	ROADS				
PROPOSED	PIPELI	F13	+		
FROPOSED	ROAD A	PIPEL	188 —	+-	

EL PASO NATURAL GAS COMPANY M.dge #7A NW 23-31-11



MAP #2 Proposed Location