SUBMIT IN TRIPLICATE.

(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

30-039-2286

UNITED STATES

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	GEOLO				1		ON AND SERIAL NO.
		GICAL SURVE	Y			SF 079488	A
	N FOR PERMIT T	O DRILL, D	EEPEN, C	OR PLUG F	BACK	6. IF INDIAN, ALLOT	TEE OR TRIBE NAME
A. TYPE OF WORK	RILL 🖺	DEEPEN []	PLUG BA	ск 🗆	7. UNIT AGREEMENT	NAME
. TYPE OF WELL OIL	CAS √√		SINGLE [T) MULTIF	PLE X	8. FARM OR LEASE	VAN T
NAME OF OPERATOR	WELL OTHER		ZONE L	ZONE		Carson	AME
El Paso Na	tural Gas Com	pany				9. WELL NO.	
ADDRESS OF OPERATOR						3	_
	, Farmington,					10 FIRED AND POOL, E.Blanco	Pic (ffi ff
LOCATION OF WELL () At surface	Report location clearly and	in accordance with	any State req	uirements.*)		Blanco Mesa Verde	
	840'S, 995	'W				Sec. 30, T-30-N, R-4-W	
At proposed prod. zo							
DISTANCE IN MILES	Same	EST TOWN OR POST	OFFICE*			NMPM 12. COUNTY OR PARIS	EH 12 STATE
	ortheast of Go	_ 				Rio Arrib	1
DISTANCE FROM PROP	POSED*		16. NO. OF ACI	RES IN LEASE		F ACRES ASSIGNED	a i iii
PROPERTY OR LEASE (Also to Degreet dr		840'		1786.72	10 18	7./3 WELL WELL	220.12
DISTANCE FROM PRO TO NEAREST WELL, OR APPLIED FOR, ON TI	DRILLING, COMPLETED,	2640'	19. PROPOSED	6920'	20. ROTAR	Y OR CABLE TOOLS	
	hether DF, RT, GR, etc.)				11.0 041	22. APPROX. DATE	WORK WILL START
7367'GL							
	P	ROPOSED CASING	3 AND CEME	NTING PROGR.	AM		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOO	T SE	TTING DEPTH		QUANTITY OF CEM	ENT
13 3/4"	9 5/8"	36.0#		200'	224 c	cu.ft. to circulate	
8 3/4" 6 1/4"	7" 4 1/2"line	20.0#		4660'		u.ft.to co	
	y perforate a	nd sandwa	ter fra	cture th	e Pict	ured Cliff	s and
Mesa Verde A 3000 psi	WP and 6000	psi test o	double	jate pre	vent er	equipped	with
Mesa Verde A 3000 psi		psi test o l be used	double for bl	gate pre	venter	equipped	with
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Mesa Verde A 3000 psi blind and	WP and 6000 pipe rams wil	psi test o l be used	double for bl	gate pre ow out p	venter	ion on thi	with s well.
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Mesa Verde A 3000 psi blind and This gas i The W/2 of ABOVE SPACE DESCRIB E. If proposal is to	WP and 6000 pipe rams wills dedicated. Section 30 is PROPOSED PROGRAM: If podrill or deepen directional	l be used s dedicate	for bl	his well	NOV 6	1979	with swell. EIVE 2 1979
Mesa Verde A 3000 psi blind and This gas i The W/2 of ABOVE SPACE DESCRIB E. If proposal is to	WP and 6000 pipe rams wills dedicated. Section 30 is PROPOSED PROGRAM: If podrill or deepen directional	l be used s dedicate	for bl	his well	NOV 6	1979	with swell. EIVE 2 1979
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Mesa Verde A 3000 psi blind and This gas i The W/2 of ABOVE SPACE DESCRIB E. If proposal is to venter program, if an	WP and 6000 pipe rams wills dedicated. Section 30 is proposed process. If partition of deepen directional may.	l be used s dedicate roposal is to deeper	for bl	his wells, give data on prace locations ar	NOV 6	1979	with s well. EIVE 2 1979 CAL SURVEY CAL SURVEY

Form C-102

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STATE OF NEW MEXICO P. O. BOX 2088 ENERGY AND MINERALS DEPARTMENT kevised 10-1-78 SANTA FE, NEW MEXICO 87501 All distances must be from the cuter boundaries of the Section. Operator Well No. EL PASO NATURAL GAS COMPANY (SF-079488-A) CARSON Unit Letter Range County 30N ПM Rio Arriba Actual Footage Location of Well: 870 South West feet from the line and feet from the Ground Level Elev. Producing Formation NESA VERDE BLANCO MESA VERDE Dedicated Acreage: 7367 PICTURED CLIFFS BLANCO PICTURED CLIFFS 110.13 % 220.12Acres 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? M Yes If answer is "yes," type of consolidation _ 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 Commis-CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Panilling Clerk ISF-079488-A CEL Paso Natural Gas Co. DOctober 29, 1979 Sec 30 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 knowledge and belief. 02 1979 Date Surveyed July 11.-11979 S. IGEOLOGICAL SURVEY Registered Professional Engineer DURANGO, COLO. Fred B. Kerr Jr.

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1980

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NATURAL GAS

P. O. BOX 990 **FARMINGTON, NEW MEXICO 87401** PHONE: 505-325-2841

Multi-Point Surface Use Plan Carson #3

- 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.
- Location of Tank Batteries, Production Facilities, and Production 4. 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.
- Location and Type of Water Supply Water for the proposed project 5. will be obtained from 29-6 Water Well.
- Source of Construction Materials No additional materials will be 6. 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,

02 1979

S. GEOLOGICAL SURVEY DUPANGO, CALO.

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 with pinon and juniper growing. Deer and elk are occasionally seen 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.

L. A. Aimes

Project Drilling Engineer

GEIVE

02 1979

S. GEOLOGICAL SURVEY
EMPANGO, COLO.

Operations Plan Carson #3

I. Location: 840'S, 995'W, Section 30, T-30-N, R-4-W, Rio Arriba County, NM

Field: East Blanco PC & Blanco MV <u>Elevation:</u> 7377'GL

II. Geology:

Α.	Formation Tops:	Surface	San Jose	Lewi s	4460'
	-	Ojo Alamo	3450 '	Mesa Verde	6155'
		Kirtland	3685 '	Menefee	6230'
		Fruitland	3 89 0'	Point Lookout	6467'
		Pic.Cliffs	4105'	Total Depth	6920 '

B. Logging Program: I-ES and GR-Density at 4660'

GR-Ind. and GR-Density at Total Depth.

C. Coring Program: none

D. Natural Gauges: 6140', 6220', 6455' 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 4660'. Gas from intermediate casing to Total Depth.

IV. Materials:

Α.	Casing Program:	Hole Size	Depth	Casing Size	Wt.&Grade
	3	13 3/4"	200'	9 5/8"	36.0 # H-40
		8 3/4"	4660'	7"	20.0# K-55
		6 1/4"	4510-6920'	4 1/2"	10.5# K-55

B. Float Equipment: 9 5/8" surface casing - cement guide shoe.

7" intermediate casing - cement guide shoe and self-fill insert float valve, 5 stabilizers every other joint above shoe. Run float two joints above shoe.

4 1/2" liner - 4 1/2" liner hanger with neoprene packoff. Geyser shoe and flapper type float collar

- C. Tubing: 6920' 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.

 4660' of 1 1/4", 2.33# J-55 IJ tubing with a common pump seating 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. 10" x 7" casing hanger, 10" 2000 x 6" 2000 dual tubing head.



Operations Plan - Carson #3

V. Cementing:

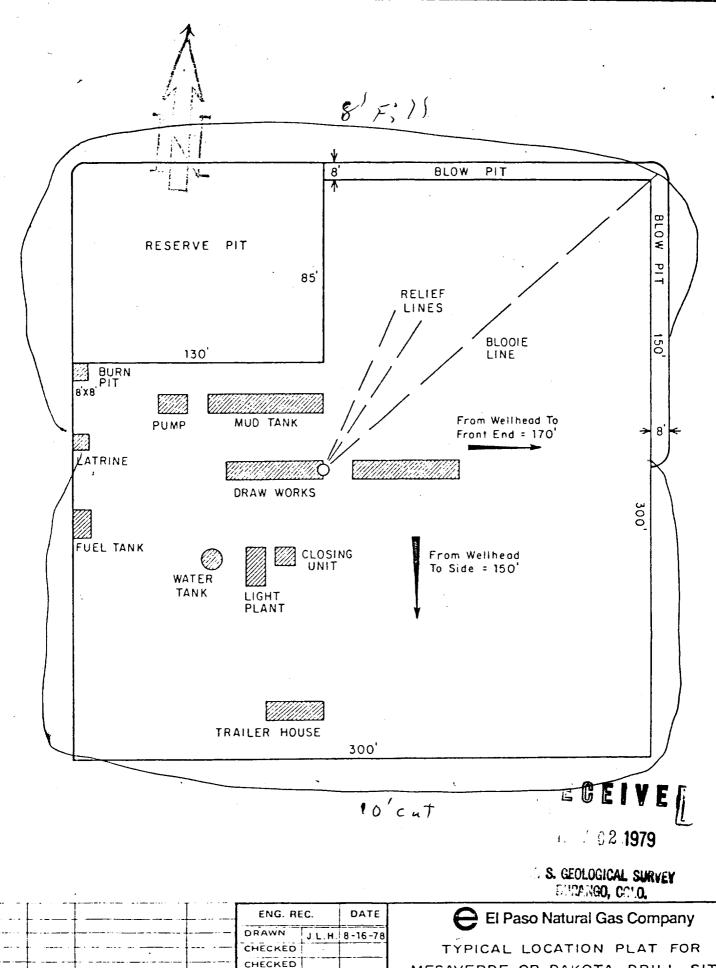
9 5/8" surface casing - use 190 sks. of Class "B" cement with 1/4# gel-flake per sack and 3% calcium chloride (224 cu.ft. of slurry, 100% excess to circulate to surface). WOC 12 hours. Test casing to 600#/30 minutes.

7" intermediate casing - use 96 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 (273 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 302 sks. of 50/50 Class "B" Poz with 2% gel, 0.6% Halad-9, 6.25# gilsonite plus 1/4# Flocele per sack (420 cu.ft. of slurry, 70% excess to circulate liner). WOC 18 hours.



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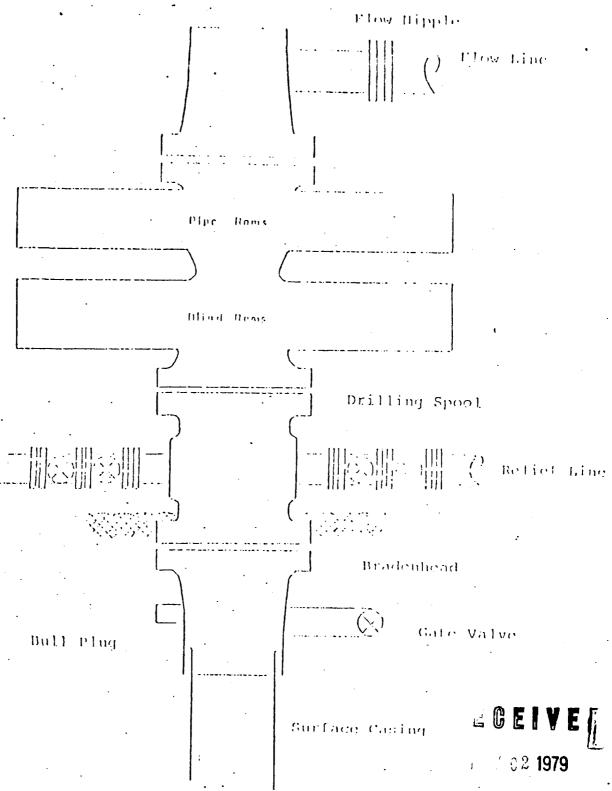


MESAVERDE OR DAKOTA DRILL SITE

RE\

PROJ. APP PRT. SEP. w.o. DESIGN DWG. SCALE: 1" = 50' PRINT RECORD NO. w.o.

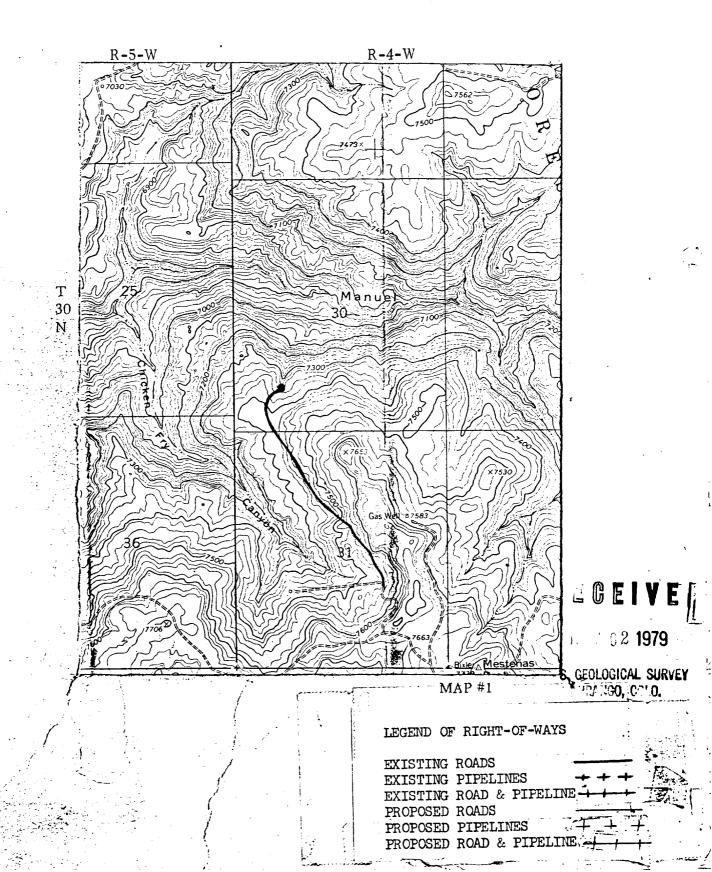
Typical W.O.t - Installation for Mega Verde Well



S. GEOLOGICAL SURVEY

Series 900 Double Gate BOF, 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 Carson #3 SW 30-30-4



EL PASO NATURAL GAS COMPANY

Carson #3 SW 30-30-4

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S. GEOLOGICAL SURVEY MAP #2

Proposed Location •