SUBMIT IN TRIPLICATE*

Form approved. Budget Bureau No. 42-R1425.

(Other instructions on reverse side)

UNITED STATES DEPARTMENT OF THE INTERIOR

30.	045-	-225	02
5 LEASE	DESIGNATION	AND SERI	AL NO.

	GEOLO(GICAL SURVE	Ϋ́				SF 078389	
APPLICATION				N, OR PLU	G BA	CK	6. IF INDIAN, ALLOTT	EE OR TRIBE NAME
a. TYPE OF WORK DRIL		DEEPEN [PLUG			7. UNIT AGREEMENT	NAME
b. TYPE OF WELL	I, K OTHER		SIN		ULTIPLE ONE	_k_	8. FARM OR LEASE	AME
OIL WELL WEL NAME OF OPERATOR	I, K OTHER						Lucerne A	
	El Paso Natural Gas Company						9. WELL NO.	
ADDRESS OF OPERATOR						3A		
DO D 000	, Farmington	. NM 874	01				BlanconPic	tured Cliffs
PO BOX 990, LOCATION OF WELL (Rep	ort location clearly and	in accordance wit	h any St	tate requirements.*	')		Blanco Mes	<u>a Verde</u>
At surface	1600'S, 10	50 ' E					Sec. 3, T-31	AREA -N, R-10-W
At proposed prod. zone							NMPM 12. COUNTY OR PARI	SHI 13 STATE
4. DISTANCE IN MILES AN	D DIRECTION FROM NEA	REST TOWN OR POS					San Juan	NM
15. DISTANCE FROM PROPOS LOCATION TO NEAREST PROPERTY OR LEASE LI	NE. FT.		16. NO	OF ACRES IN LEA	SE	TO	THIS WELL 94 & 3	748,84 508.84
(Also to nearest drig. 18. DISTANCE FROM PROPO TO NEAREST WELL, DR OR APPLIED FOR, ON THIS	SED LOCATION®		19. PR	OPOSED DEPTH 5465'		20. ROTA	•	
21. ELEVATIONS (Show wheth			<u>' </u>				22. APPROX. DATE	WORK WILL START
6004'GL					DOCE A			
23.		PROPOSED CASI	NG ANI	CEMENTING P			QUANTITY OF CE	MENT
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	TOOT	SETTING DEPT	H	224		
13 3/4"	9 5/8"	32.3#		200'			cu.ft. to	cover Ojo Alan
8 3/4"	7"	20.0#		3225'		454	cu.ft to	Eill to 3075'
6 1/4"	4 1/2"	10.5#		3075-546	ا ا	410	cu.rc. co	
Pictured C	y perforate liffs forma	tion.						
blind and	WP and 600 pipe rams w	ili be us	t do ed f	uble gate or blow o	ruc P	vent rev	ention on the	d with his well.
	s dedicated				3.	্র ১১	APR 15	1977
	Section 3i					and a supplementary of the		
IN ABOVE SPACE DESCRIB zone. If proposal is to preventer program, if an	drill or deepen direction	f proposal is to de onally, give pertine	eepen or ent data	plug back, give da on subsurface loca	ata on p ations a	nd meas	roductive zone and pr ured and true vertical	oposed new productive depths. Give blowout
24.	. Duces		TITLE	Dril]	ling	Cle	rk DATE	<u>April 14, 1</u> 97
(This space for Fed	eral or State office use)							
PERMIT NO.				APPROVAL DATE				
t rational a contract	. —						a.ma	
APPROVED BY			тіті.Е				DATE	
CONDITIONS OF APPRO	VAL, IF ANY							

*See Instructions On Reverse Side

1/11 U 3-414 (111)

		All distances must be f	rom the outer boundaries o	of the Section.	
perator EL]	PASO NATURAL	GAS COMPANY	Lease LUCERNE A	(SF-078389)	Well No.
nit Lette:	Section 3	Township 31-N	Range 10-W	County SAN JU	AN
etual Footage Loc		SOUTH	1050	eet from the EAST	line
ound Level Elev.	Producing F PICTURED	Tine (2.5	~	CTURED CLIFFS MESA VERDE	Dedicated Acres: 148,84 148.94 & 308.84Acres
1. Outline th	he acreage dedic	cated to the subject w	ell by colored pencil	or hachure marks on	the plat below.
	han one lease i	s dedicated to the wel	l, outline each and id	dentify the ownership	thereof (both as to working
3. If more the	nan one lease of communitization,	different ewnership is unitization, force-pool	dedicated to the welling.etc?	, have the interests of	of all owners been consoli-
Yes	☐ No If	answer is "yes," type	of consolidation		
If answer	is "no;" list the	e owners and tract des	criptions which have	actually been consoli	dated. (Use reverse side of
this form	if necessary.)				mmunitization, unitization,
No allowator forced-po	oling, or otherwis	se) or until a non-standa	rd unit, eliminating s	uch interests, has been	en approved by the Commis-
sion.					
) 		1 1		CERTIFICATION
	i		1		y certify that the information con-
	1		F	T 1	nerein is true and complete to the my knowledge and belief.
	1			Desir or	Original Signed by
	i		/ i	Name	D. G. Brisco
	+				
	!			Position	$\sigma_{ij} = \sigma_{ij}$ (3)
	1		 	Company	
	i i		i i		<u> </u>
	l i			Date	
	 	SECTION 3	minu		
		\sim			
Į.	•	8	l		by certify that the well location on this plat was platted from field
		sf-03389			of actual surveys made by me of
			l .	under	my supervision, and that the same
	ĺ	×	9-1		e and correct to the best of m edge and belief.
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	+			80	
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8	1	×	1	NA.E	attid Curveyor
Ŋ	i	×	1		21/10/1/20
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	And the state of the state of	1980 2310 2640 2	ono 1500 1000	500 0	1100
U 343 665	90 1320 1650	1380 5310 5740 5			

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P. O. BOX 990 FARMINGTON, NEW MEXICO 87401

PHONE: 505-325-2841

Multi-Point Surface Use Plan Lucerne A #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 thirty feet (30') 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 Cedar Hill Ditch.
- 6. Source of Construction Materials No additional materials will be required to build either the access road or the proposed location.

Multi-Point Surface Use Plan

- Methods of Handling Waste Materials All garbage and trash 7. 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 green (Federal Standard #595 34127)
- 11. Other Information The terrain is rolling hills and sagebrush flats covered with cedar and sagebrush. Cattle and deer occasionally 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.

April 14, 1977

D. R. Read

Division Drilling Engineer

DRR:pb

Operations Plan Lucerne A #3A

I. Location: 1600'S, 1050'E, Section 3, T-31-N, R-10-W, San Juan County, NM

Field: Blanco Mesa Verde-Blanco PC Elevation: 6014'D

II. Geology:

A. Formation Tops:	Ojo Alamo Kirtland Fruitland	1283' 2355'	Lewis Mesa Verde Menefee Point Lookout Total Depth	3025' 4560' 4705' 5065' 5465'
	Pic.Cliffs	2810.	Total Depth	3403

B. Logging Program: I-ES and GR-Density at 3225'.

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

C. Coring Program: none

D. Natural Gauges: 4550', 4695', 5055' 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 3225'. Gas from intermediate casing to Total Depth.

IV. Materials:

a desira Drogram:	Hole Size	Depth	Casing Size	Wt.&Grade
A. Casing Program:	13 3/4"	Depth 200'	9 5/8"	32.3 # H-40
	8 3/4"	3225'	7"	20.0# K-55
		3075-5465	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 - T.I.W. liner hanger with neoprene packoff. A liner with a polished bore receptical or production packer will isolate the two zones. Larkin geyser shoe (fig. 222) and Larkin flapper type float collar (fig. 404 M&F).

- C. Tubing: 5465' 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:

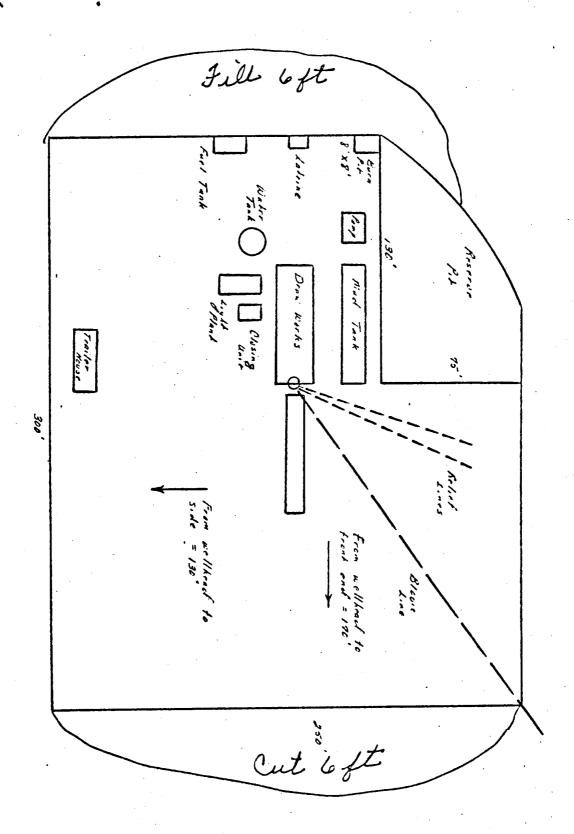
9 5/8" surface casing - use 190 sks. of Class "B" cement with 1/4# gel-flake per sack and 3% calcium chloride (224 cu.ft. of slurry, 100% excess to circulate to surface). WOC 12 hours. Test casing to 600#/30 minutes.

7" intermediate casing - use 128 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 (454 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 231 sks. of Class "B" cement with 4% gel, 1/4 cu.ft. of fine gilsonite per sack and 0.6% Halad-9 (416 cu.ft. of slurry, 70% excess to circulate liner).

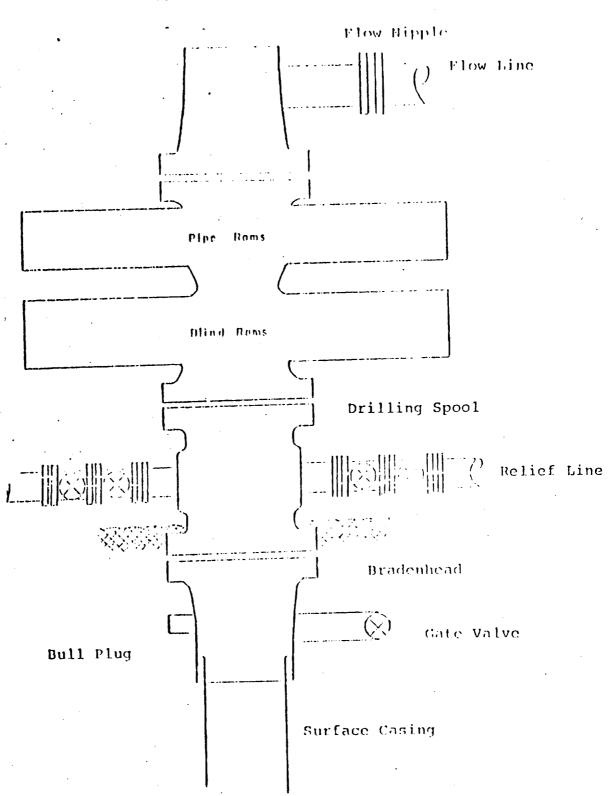
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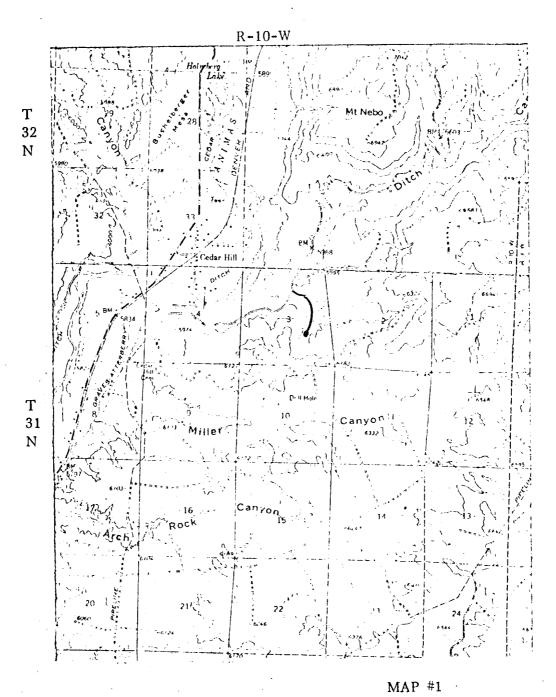
Typical Location Plat for Misa Virale and Dakota

Typical N.O.P 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

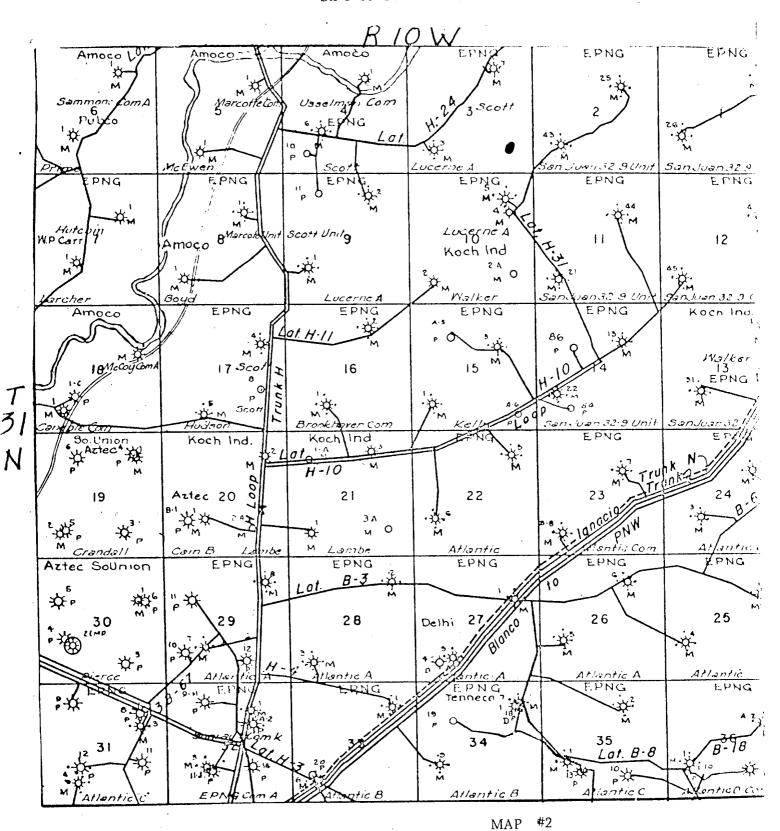
EL PASO NATURAL GAS COMPANY LUCERNE A #3A SE 3-31-10



LEGEND OF RIGHT-OF-MAYS

EXISTING	ROADS			
EXISTING	TEPELINES		+	
EXISTING	ROAD - PIPELIN	4113 - 1	-+-	+-
PROPOSED	ROADS			
	PIPELINES	-	+	
PROPOSED	ROAD & PUFFEE	iF –	-+	+

EL PASO NATURAL GAS COMPANY LUCERNE A #3A SE 3-31-10



. Proposed Location

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