SUBMIT IN TRIPLICATE*

Form approved. Budget Bureau No. 42-R1425.

(Other instructions on reverse side)

UNITED STATES

3	0 -	04	5-	22	725
5 .	LEASE	DESIG	NOITAN	AND BE	BIAL NO.

DEDADT	MENT OF THE I	UTERI	ΛR	-	5. LEASE DESIGNATION AND SERIAL NO.		
G		SF 078389					
APPLICATION FOR PER	MIT TO DRILL, D	DEEPEI	N, OR PLUG B	ACK_	6. IF INDIAN, ALLOTTEE OR TRIBE NAME		
DRILL X	DEEPEN [PLUG BAG	CK 🗆	7. UNIT AGREEMENT NAME		
b. TYPE OF WELL OIL GAS WELL WELL X OT	THER	SIN		LE	8. FARM OR LEASE NAME Lucerne		
El Paso Natural Ga	as Company				9. WELL NO.		
3. ADDRESS OF OPERATOR					#10		
PO Box 990, Farmin	ngton, NM 87	401			10. FIELD AND POOL, OR WILDCAT		
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*) At surface 990 S, 800 E At proposed prod. zone 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*					Blanco Pictured Clift 11. SEC., T., B., M., OR BLK. AND SURVEY OR AREA Sec. 4, T-31-N, R-10-W NMPM 12. COUNTY OR PARISH 13. STATE San Juan NM		
15. DISTANCE FROM PROPOSED® LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.	v)	16. No.	OF ACRES IN LEASE		of acres assigned his well 160.00		
(Also to nearest drig, unit line, if any) 18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.					<u> </u>		
21. ELEVATIONS (Show whether DF, RT, GF 6134 GL	s, etc.)				22. APPROX. DATE WOBK WILL START*		
23.	PROPOSED CASI	NG AND	CEMENTING PROGR	AM			
SIZE OF HOLE SIZE OF CA	SING WEIGHT PER F	оот 1	SETTING DEPTH	T	QUANTITY OF CEMENT		
size of Hole size of CAS	106	cu.ft. to circulate					

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT	_
12 1/4" 6 3/4"	8 5/8" 2 7/8"	24.0#	120' 3190'	106 cu.ft. to circulate 575 cu.ft. to cover Ojo A	Lam

Selectively perforate and sandwater fracture the Pictured Cliffs formation.

A 3000 psi WP and 6000 psi test double gate preventer equipped with blind and pipe rams will be used for blow out prevention on this well.

This gas is dedicated.

The SE/4 of Section 4 is dedicated to this well.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depibs: preventer program, if any

Drilling Clerk

(This space for Federal or State office use)

PERMIT NO. .

TITLE .

CONDITIONS OF APPROVAL, IF ANY ; Okaj

APPROVED BY .

1977

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

All distances must be from the outer boundaries of the Section.

Damentos.								
Operator	PASO NATI	JRAL GAS COM		LUCE!	RNE A	(SF-0	78389)	Well No.
Unit Letter P	Section 4	Township 3	1-N	Range	10-W	County	SAN JUAN	
Actual Footage Loc 990	feet from the	SOUTH	line and	800	· ·	et from the	EAST	line
Ground Level Elev. 6134	Produc	ing Formation ICTURED CLIF	1:	Pool B		CTURED CL	JFFS Dedi	cated Acreage:
1. Outline th	ie acreage d	ledicated to the	subject wel	ll by cold	ored pencil	or hachure	marks on the pl	
	nan one leas nd royalty).	se is dedicated	to the well,	outline	each and id	entify the o	wnership there	of (both as to working
		e of different ov ion, unitization			to the well.	, have the i	nterests of all	owners been consoli-
Yes	☐ No	If answer is "	yes;' type of	consolid	ation			
	is "no," lis		d tract descr	iptions w	hich have a	ictually bee	en consolidated.	(Use reverse side of
No allowa	ble will be a	ssigned to the v						itization, unitization, roved by the Commis-
	!						CE	RTIFICATION
				i . i				y that the information con-
	1			. 1			1	s true and complete to the wledge and belief.
				1				Signed by G. Brisco
	 -			 	_ _ _		Drilling	g Clerk
				·				Natural Gas Co
	! !			į				er 2, 1977
		SE Ç	ION ha		~~~			
		R			<u> </u>		l baraby cars	ify that the well location
	1					R	shown on this	plat was plotted from field
		8		SF-078	§389 I	K	under my supe	rvision, and that the same
	1	R	<u> </u>	 	! 	K	knowledge and	
						800'	Date Surveyed	
	!	R				k	AUGUS	ST 4, 1977
	! ! !				066	K	and/or Cand Cur	• /
REALEST FORES	Cal Marketon	150 1980 2310 2	640 2000	1500	1000	500 0	Certificate No.	1760



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

Multi-Point Surface Use Plan Lucerne A #10

- 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
- 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 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
- 8. Ancillary Facilities No camps or airstrips will be associated with this project.
- 9. Wellsite Layout Please refer to the attached Plat No. 1.

from occurring.

- 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 covered with pinon and cedar trees. 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.

September 1, 1977

W. D. Dawson

Chief Division Drilling Engineer

WDD:pb

Operations Plan - Lucerne A #10

I. Location: 990'S, 800'E, Section 4, T-31-N, R-10-W, San Juan County, NM

Field: Blanco Pictured Cliffs Elevation: 6134'GR

II. Geology:

A. Surface Formation: Nacimiento

Sub-surface Formation Tops:
Ojo Alamo 1305' Pictured Cliffs 2935'
Kirtland 1400' Lewis 3150'
Fruitland 2475' Total Depth 3190'

- B. Logging Program: Induction Electric and Gamma Ray Density at TD.
- C. Coring: none
- D. Testing: none

III. Drilling:

A. Anticipated Starting Date and Duration of the Project:

1978 Drilling Program - approximately 4 days to complete.

B. Circulating Medium: Treated water and a low solids gel base mud will be used from surface to TD.

IV. Materials:

A. Casing Program:	Hole Size	Depth	Csg.Size	Wt.&Grade	
	12 1/4"	120'	8 5/8"	24.0# J-55	
	6 3/4"	3190'	2 7/8"	6.4# J-55	

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

2 7/8" production casing - 10' shoe joint with notched collar for guide shoe and 2 7/8" latch down baffle on top. Two 3 1/16" balls and one 2 7/8" latch down plug.

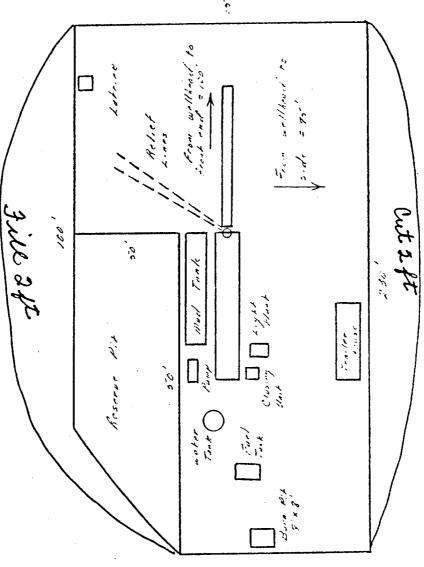
- C. Tubing: none
- D. Wellhead Equipment: Larkin wellhead (fig. 75)

V. Cementing:

8 5/8" surface casing - 90 sks. of Class "B" cement with 1/4# gel-flake per sack and 3% calcium chloride (106 cu.ft. of slurry, 100% excess to circulate to surface). WOC 12 hrs. Test casing wellhead and BOP to 600#/30 minutes.

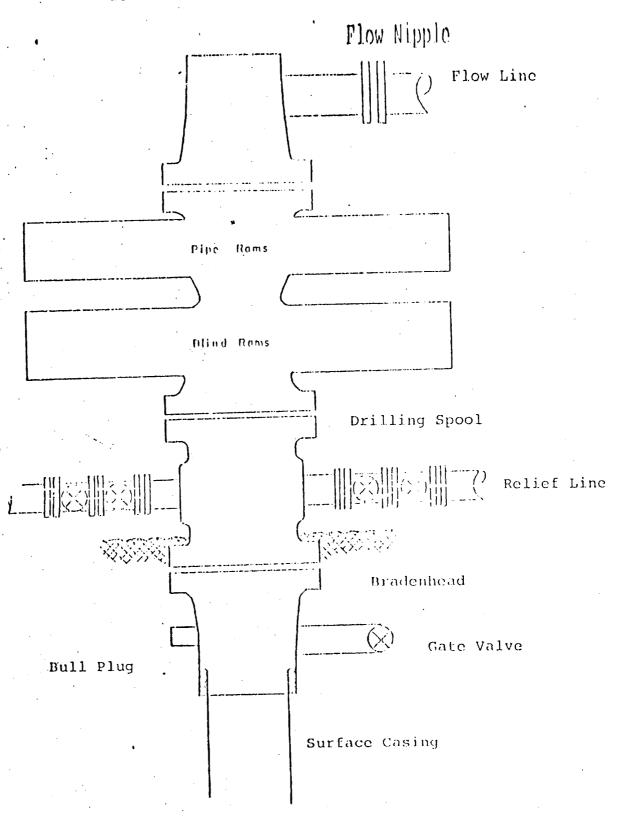
2 7/8" production - 194 sks. 65/35 Class "B" Poz with 12% gel and 15.52 gallons water per sack followed by 50 sks.Class "B" neat cement (575cu.ft. slurry, 50% excess to cover Ojo Alamo). Run temperature survey after 12 hrs. DRR:pb

El Paso Natural 603 Company
Typical Lecation Plat for Pertured Clites Well
APP ME



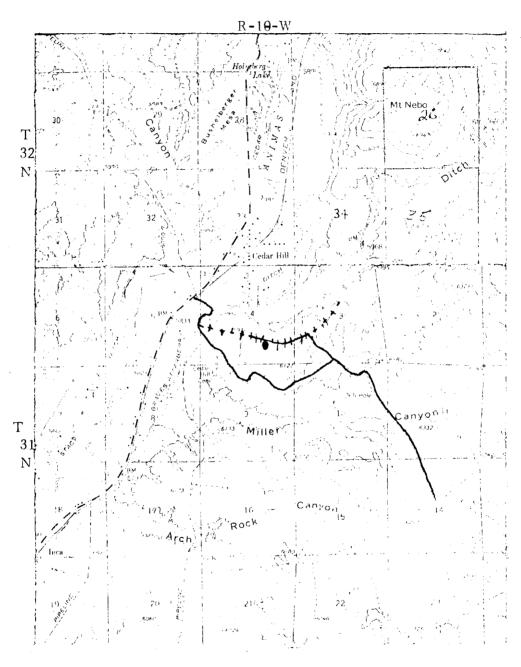
Sec. 1. " 1. " 1. " 5.

Typical Mud Drilled B.O.P. Installation for Pictured Cliffs Well



8" Series 900 Double Gate BOP, rated at 3000 psi Working Pressure

EL PASO NATURAL GAS COMPANY LUCERNE A #10 SE 4-31-10



MAP #1

LEGEND OF RIGHT-OF-WAYS

EXISTING	ROADS -		
EXIGTING	PETERTHES +	+	-+-
EXISTING	ROAD A PITELING-	÷	·- +
PROPOSED	RCADS —		
FROPOSED	PIPEDIPES +	+	+
FROPOSIDO	ROAD A PIERLING -		+

El Paso Natural Gas Company

Lucerne A #10 SE-4-31-10 Amoco -EPNG EPNG PNG Scott Unita Lugerne A Koch Ind Amoço 12 Walker EPNG Amoco EPNG EPNG 86 17 Sco 16 Kech Koch Ind. 21 19 Aztec 20 22 3 A Atlantic EPNG EPNG Aztec Sounion EPNG 28 26 25 30 Delhi Lat. B·8

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MAP #2

UNITED STATES DEPARTMENT OF THE INTERIOR **GEOLOGICAL SURVEY**

REQUEST FOR APPROVAL TO: TEST WATER SHUT-OFF FRACTURE TREAT SHOOT OR ACIDIZE REPAIR WELL

PULL OR ALTER CASING MULTIPLE COMPLETE CHANGE ZONES ABANDON* (other)

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY	5. LEASE SF 078389 6. IF INDIAN, ALLOTTEE OR TRIBE NAME
SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different	7. UNIT AGREEMENT NAME
reservoir. Use Form 9–331–C for such proposals.)	8. FARM OR LEASE NAME LUCERNE A
well well other 2. NAME OF OPERATOR	9. WELL NO. 10
EL PASO NATURAL GAS CO. 3. ADDRESS OF OPERATOR	10. FIELD OR WILDCAT NAME BLANCO P.C.
BOX 990, FARMINGTON, NEW MEXICO 4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 4, T-31-N, R-10-W
AT SURFACE: 990'S, 800'E AT TOP PROD. INTERVAL: AT TOTAL DEPTH:	12. COUNTY OR PARISH 13. STATE SAN JUAN NEW MEXICO 14. API NO.
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA	15. ELEVATIONS (SHOW DF, KDB, AND WD) 6134' GL
REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:	0104 QF

(NOTE: Report results of multiple completion or zone

change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Spudded well. Drilled surface hole. 4/8/78:

4/9/78: Ran 3 joints 8 5/8", 24# K-55 surface casing, 132' set at 144'. Cemented with 148 cu. ft. cement. Circulated to surface. WOC 12 hours; held 600#/30 minutes.

U. S. GEOLOGICAL SURVE.

Subsurface Safety Valve: Manu. and T	ype		_ Set @	FARMINGTON
18. I hereby certify that the foregoing	is true and correct	1777	/70:	
SIGNED A. P. LACKER	TITLE DITITING CLEIK	_ DATE - 4/ 14/	-/-0	
	(This space for Federal or State office use	e) 🛫 🚁 .		N
APPROVED BY	TITLE	DATE		
CONDITIONS OF APPROVAL, IF ANY:				-
		\$ \$	÷ . ·	