SUBMIT IN TRIPLICATE*

Form approved.

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WELL OIL	WELL X OTHER			NE X ZOI	NR J	8. FARM OR LEASE	NAME
2. NAME OF OPERATOR				EPI		Luzon Fe	deral
Union Oil C	Company of Califor	rnia			7110		:
P. O. Box 6		Texas 7	9702		22 1977	10. FIELD AND POO	DL, OR WILDCAT
4. LOCATION OF WELL ((Report location clearly and	in accordance wi	th any S	tate requirements.	<u> </u>	VANDESICHA.	TED
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14. DISTANCE IN MILES	S AND DIRECTION FROM NEAR	EST TOWN OR POS	T OFFICE	*		12. COUNTY OR PA	RISH 13. STATE
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PROPERTY OR LEASE (Also to nearest d	ELINE, FT. 560° to di rlg. unit line, if any) 1ir	rig. unit ne		20		20	* j
18. DISTANCE FROM PR	OPOSED LOCATION* DRILLING, COMPLETED,		1	OPOSED DEPTH	20. вота	RY OR CABLE TOOLS	
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21. ELEVATIONS (Show v	whether DF, RT, GR, etc.)						E WORK WILL START*
23.						Upon Ap	proval
20.	P1	ROPOSED CASI	NG AND	CEMENTING PRO	OGRAM		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	00Т	SETTING DEPTH		QUANTITY OF C	EMENT
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NOTE: This acreage is not dedicated to a gas purchaser.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to zone. If proposal is to drill or deepen directionally, give per preventer program, if any. 24.	o deepen or plug back, give data on presen tinent data on subsurface locations and me	t productive zone and proposed new productive asured and true vertical depths. Give blowout
J. R. Huches	THE District Drilling St	int. August 19 1977
(This space for Federal or State office use)	OPRO	VED O
PERMIT NO.	TITLE AS AMER	1917
APPROVED BY 1 CONDITIONS OF APPROVAL, IF ANY:	SEP O ARTHUR F DISTRICT Instructions On Reverse Side	BROWN ENGINEER
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General: This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by eithe a Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form main the local rederal and/or State of State agency offices. If the Island Islan	A U.S. GOVERNMENT PRINTING OFFICE: 1833—O-711-396 **A U.S. GOVERNMENT PRINTING OFFIC	1 (27) (9) (13) (13) (14) (15) (15) (15) (15) (15) (15) (15) (15) (15)
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Operator INTON OTI C	OMPANY OF CALIFO	Lease RNTA	Luzon Federal		Well No.
Unit Letter Section		Rom			
В		4-S	35-E	Lea	
Actual Footage Location of 660 feet	from the North	line and 1980) feet from the	ne East	line
Ground Level Elev:	Producing Formation Morrow	Pool	ESIGNATED	I	Dedicated Acreage: 320 Acres
	eage dedicated to the			ure marks on the	
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interest and roy					
	e lease of different own nitization, unitization,		d to the well, have t	he interests of a	all owners been consoli-
X Yes	No If answer is "	yes," type of consol	idation Comm	unitization	
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No allowable wi	ll be assigned to the w				nunitization, unitization, approved by the Commis-
	T		Ţ	기	CERTIFICATION
	1	660	1	I hereby ce	ertify that the information con-
		ò	1980'	tained here	ein is true and complete to the knowledge and belief.
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Union Oil	Maralo, Inc.	Union 0i1	Gulf 0il	J. R. Hu	ghes
NM-13646	NM-15326	NM-13646	NM-15457	Position	Drilling Supt.
	1		1	Company	l Co. of California
	1		1	Date August 19	
			<u> </u>		
	1		1	l hereby	certify that the well location
			1	1 1	this plat was plotted from field actual surveys made by me or
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CIT CONSERVATION COMM.

COMPANY OF CALIFORNIA

DISTRICT OFFICE - MIDLAND, TEXAS

DRILLING PROGRAM

Field:

Luzon Prospect

Location: 660' FNL & 1980' FEL of Section 13, T-24-S, R-35-E, Lea County, New Mexico

Well Name: LUZON FEDERAL WELL NO. 1

Estimated Total Depth:

14,900'

Drilling Data:

Geolograph & 10' drilling time surface to TD

Samples:

10' from 500' to TD

Estimated Formation Tops:

Rustler	1730	Strawn	11230*
Yates	4130	Atoka	12730*
Bone Spring	8150	Middle Morrow	14230*
Wolfcamp	10480*	Lower Morrow	14650*

* Abnormal pressure zones

Logs:

GR-Sonic 5300'-surface; DIL & GR-Sonic 10,800-5300'; GR-CNL-Density, GR-Sonic, DLL CDM (contingent) TD-10,800'

DSTs:

(8) Delaware, 2 Bone Spring, @ Wolfcamp, Strawn, 2 Middle Morrow

Cores:

None

Deviation:

50 maximum with rate of change not to exceed 10 per 100' of interval

Casing & Mud Program:

	Size					Mud	
Depth	Hole	Casing	Cement	W.O.C.	Wt.	Vis.	W.L.
0'-500'	17-1/2"	13-3/8"	*500 sx	18	Spud	Mud	
500'- 5300'	12-1/4"	9-5/8"	**1800 sx	18	10 pp	g brine	
5300'-10800'	8-1/2"	7" ·	***700 sx	24	Fresh	Water	
10800'-TD	6-1/8"	4-1/2" L	****325 sx	. 24	10-12	35	<15

Rig to be released after nippling up 4-1/2" casing.

* 500 sx Class "C" w/2% CaCl2, 1/4 lb flocele. Calculated to circulate.

** 1600 sx HOWCO light or equivalent w/10 lb salt, 1/4 lb flocele, 5 lb gilsonite followed by 200 sx Class "C" neat. Calculated to circulate. *** 1st Stage 300 sx HOWCO light or equivalent w/.6% Halad 22A 15 lb salt 1/4 lb flocele followed by 200 sx Class "H" w/.6% Halad 22A 6 lb salt. 2nd Stage thru DV @ 7100 200 sx HOWCO light w/.4% Halad 22 15 lb salt 1/4# flocele.

**** 325 sx Class "H" w/.8% Halad 22A 6 lb KCl. Calculated to circulate above liner top.

Changes in the above program will be at the direction of a qualified Union Oil NOTE: Company of California representative and should be clearly indicated on the program posted at the rig.

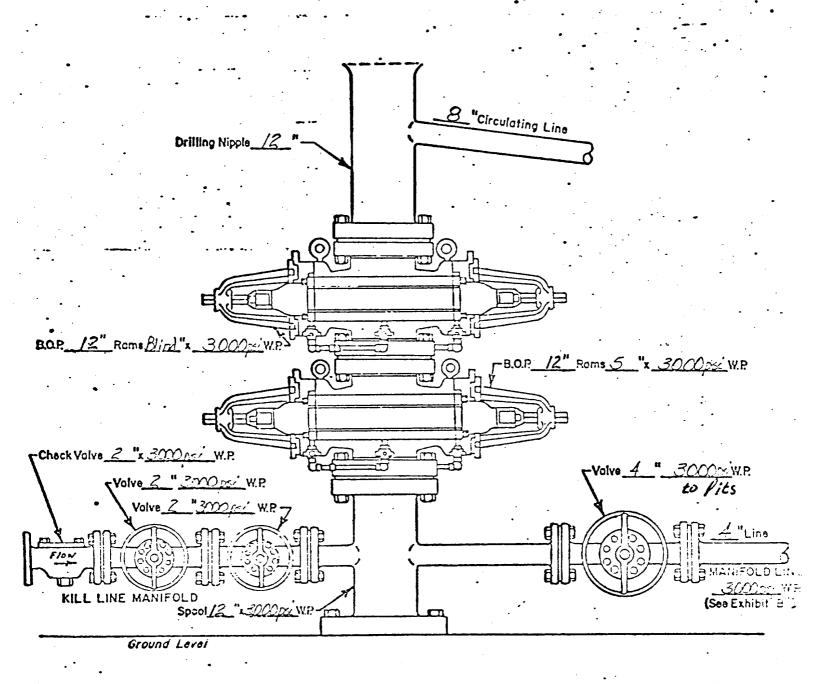
> R. Hughes District Drilling Superintendent

JLW:MTD:1b 6-22-77

UNION OIL COMPANY OF CALIFORN ...

IELL NAME: Luzon No. 1

OCATION: Les County New Mexico



WELL HEAD B.O.P.

3000 #W.P.

Used on 124" hole 500'-5300'

Test to 3000 Psi When Installed

Manuel Manuel

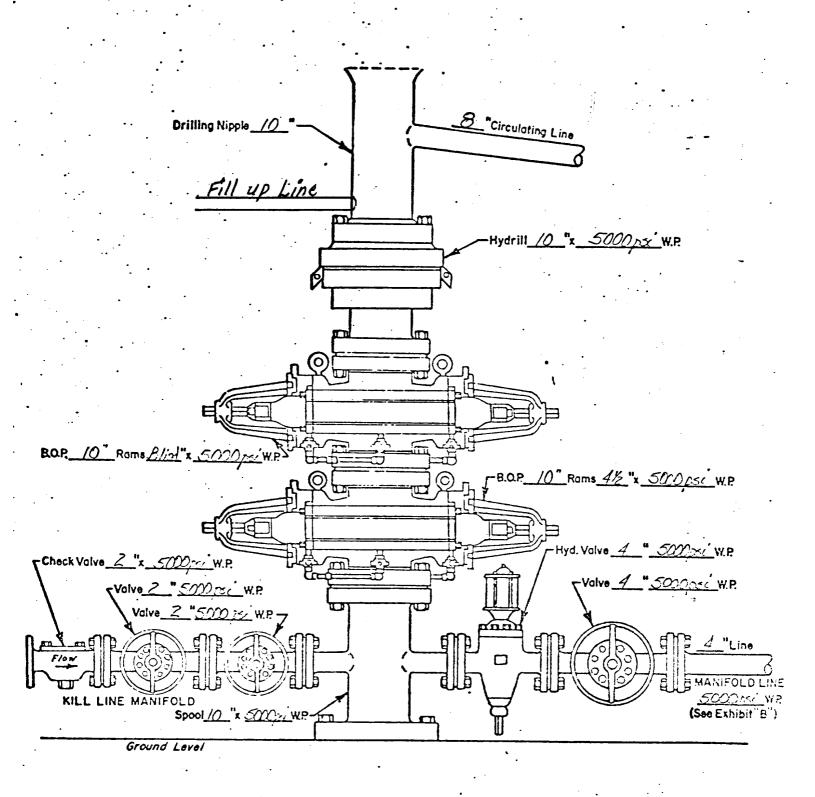
Mydraulic

UNION OIL COMPANY OF CALIFORNIA

rederal EXHIBIT A-2

WELL NAME: LUZON No 1

LOCATION: Les County, New Mexico



WELL HEAD B.O.P. 5000 #W.P.

Monuel

Mydraulic

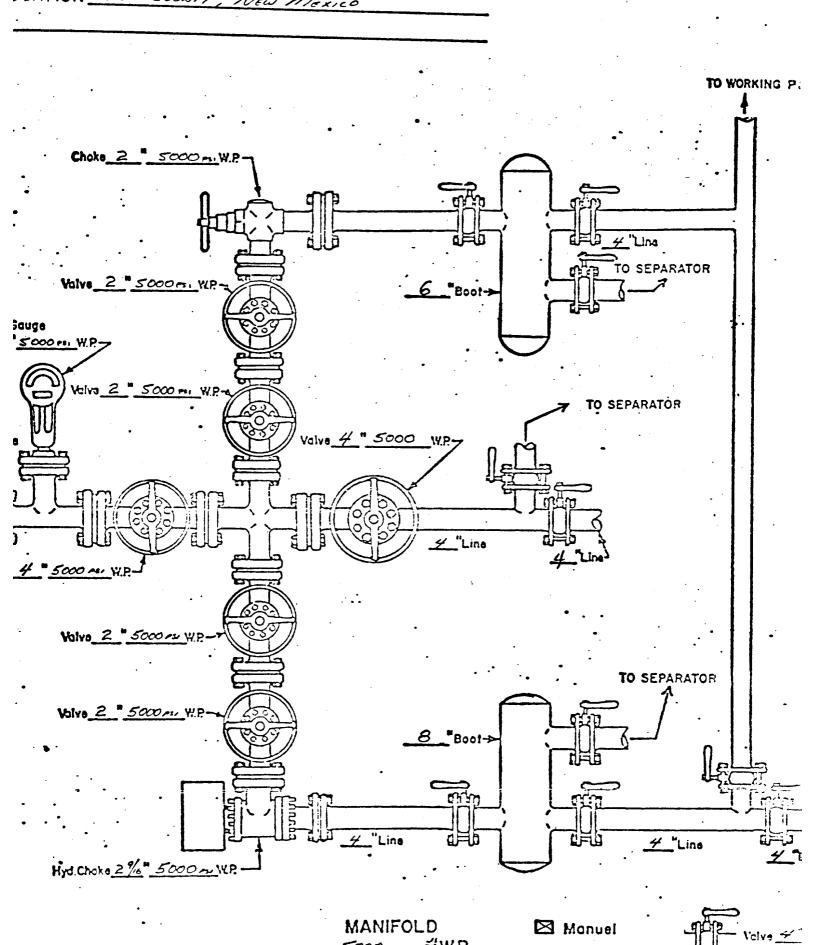
Used on 8/2" & 6/8" holes 5300-TD. 31/2" pipe rams required on 6/8" hole. Rotating head to be furnished by Union when required.

Bop 15 To be Tested to 5000 Psi when installed, Worked every trip, + tested to 5000 Psi every 30 days.

UNION OIL COMPANY OF CALIFORNIA

EXHIBIT B-2

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ELL NAME: Luzom Fode	. 1				
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☐ Hydraulic USED ON 81/2" & 61/8" HoLES 5300'- TD.

Test to soooks when installed terery sodays

Collapse Assist. W/o Tension			127	ttom	SING SIZE	SING	Ħ
			00501	INTERVAL	SIZE	SING SIRING	FORM CR-13 1/72
Y=Censile Los 0 .2 .1			3900	TENGER	1/2" E01	Production (Linex) COUNTY Lea	R-13
Load/Pipe Y			135#	Wt.	11/2" HOLE SIZE	in (Line	100 1
Yield Str		·	S02-35	DESCRIPTION Grade Th	6/6"	CO'JI	FIEI
Strength			S00-85 SEJ-P	Toread	MUD WI	TY Lea	FIELD Mildet
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TO PURCHASING DEPT.			00001	BURST PRESSURB Ps1	II .52	BY MT	
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rsd CTGIX MONENEN	COLLAPSE COLLAPSE CDF BURST PRESS. @ RESIST. PRESSURE bottom tension psi psi	WEIGHT TENSION MINIMUM TOF W/OBY section TENSION lbs lbs 1000 lbs	ttom Top Wt. Grade Thread
6 psi/ft. M.S.P. 4500 rsi.	MUD WT. II 13.0 #/g. HYD. GR. II .6%	1 9.0 #/g. HYD GR. I 4/3 ps1/ft. MU	SING SIZE 7" HOLE SIZE 8½" MUD WI.
72	5-11-76 DESIGN BY 197	STATE Ale Marica DATE	SING STRING 200 Intermediate COUNTY Lea
Que la company de la company d	IGN	casing and tubing design	TL <u>Lueon Mo 1</u> FIEID <u>W.M.caf</u>

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MULTI-POINT SURFACE USE AND OPERATIONS PLAN

UNION OIL COMPANY OF CALIFORNIA

LUZON FEDERAL WELL NO. 1

660' FNL & 1980' FEL, Sec. 13, T-24-S, R-33-E

Lea County, New Mexico

This plan is submitted with the Application for Permit to drill the above described well. The purpose of the plan is to describe the location of the proposed well, the proposed construction activities and operations plan, the magnitude of necessary surface distrubance involved and the procedures to be followed in rehabilitating the surface after completion of the operation so that a complete appraisal can be made of the environmental effects associated with the operation.

1. EXISTING ROADS:

- A. Exhibit "A" is a topographic map of southeastern Lea County, New Mexico, showing the location of proposed well as staked 4 miles north of Jal, New Mexico on highway No. 18, west 2 miles on paved road, 1 mile on county maintained caliche road, 2½ miles west on existing oil field road, 2 miles west and 1 mile north on private ranch road, ½ mile west on existing oil field road, then 660 feet south on new road to proposed well site.
- B. Exhibit "B" is a map showing all existing roads within a 3 mile radius of the well site and the planned access road. The well will be drilled within 660 feet of an existing road.
- C. All existing oil field caliche roads and private ranch roads will be repaired as necessary. Repairs will consist of replacing the eroded caliche surface with a new caliche surface 6 inches deep and 12 feet wide, watered and compacted.

2. PLANNED ACCESS ROADS:

- A. <u>Length and Width</u>: The new road required will be 12 feet wide and approximately 660 feet long.
- B. <u>Surfacing Material:</u> Six inches of caliche, watered, compacted and graded.
- C. Maximum Grade: 3 Percent.
- D. Turnouts: None required.
- E. <u>Drainage Design</u>: New road will have a drop of 3-4 inches from center line on each side.

2. PLANNED ACCESS ROADS - Cont'd

- F. <u>Culverts</u>: None required.
- G. Cuts and Fills: None required.
- H. <u>Cattleguards</u>: One cattleguard will be installed in fence approximately one mile south of well site.

LOCATION OF EXISTING WELLS:

- A. There are no wells within a two mile radius of proposed well site.
- B. There is an abandoned drill hole ½ mile southeast and an abandoned drill hole 1 mile northwest of drill site.

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

- A. Location of the proposed tank battery and flow line from well No. 1 are shown on Exhibit "D". There are no water disposal lines or injection lines.
- B. If the well is productive, the tank battery and flow line will be located on the well pad and no additional surface disturbance will occur.

5. LOCATION AND TYPE OF WATER SUPPLY:

A. Water for drilling will be purchased from Jal Public Library Fund Trustees and transported by pipeline to well site. The pipeline will be layed along a road as shown on Exhibit "B" together with water well location. The water line will not cause additional surface disturbance and will be removed after drilling is completed.

6. SOURCE OF CONSTRUCTION MATERIALS:

A. Caliche for surfacing the road and the well pad will be obtained from an existing pit located in NE/4 of Section 14; 3/4 miles west of the proposed location as shown on Exhibit "B".

7. METHODS OF HANDLING WASTE DISPOSAL:

- A. Drill cuttings will be disposed of in the drilling pits.
- B. Drilling fluids will be allowed to evaporate in the drilling pits until pits are dry.
- C. Water produced during tests will be disposed of in the drilling pits. Oil produced during tests will be stored in test tanks until sold.

7. METHODS OF HANDLING WASTE DISPOSAL - Cont'd

- D. Current laws and regulations pertaining to the disposal of human waste will be complied with.
- E. Trash, waste paper, garbage and junk will be buried in a separate trash pit and covered with a minimum of 24 inches of dirt. All waste material will be contained to prevent scattering by the wind. Location of trash pit is shown on Exhibit "C".
- F. All trash and debris will be buried or removed from the well site within 30 days after finishing drilling and/or completion operations.

8. ANCILLARY FACILITIES:

A. None required.

9. WELLSITE LAYOUT:

- A. Exhibit "C" shows the relative location and dimensions of the well pad, mud pits, reserve pit, trash pit and location of major rig components.
- B. Only minor leveling of the well site will be required. No significant cuts and fills will be necessary.
- C. Part of the reserve pit will be plastic lined.
- D. The pad and pit area has been staked and flagged.

10. PLANS FOR RESTORATION OF THE SURFACE:

- A. After completion of drilling and/or completion operations all equipment and other material not needed for operations will be removed. Pits will be filled and location cleaned of all trash and junk to leave the well site in an aesthetically pleasing condition as possible.
- B. Any unguarded pits containing fluids will be fenced until they are filled.
- C. After abandonment, any special rehabilitation and/or revegetation requirements of the surface management agency will be complied with and accomplished as expeditiously as possible. All pits should be filled and leveled within 90 days after abandonment.

Note: See attached letter.

11. OTHER INFORMATION:

- A. Topography: Land surface is level to gently rolling.
- B. Soil: Soil is a sandy soil underlain by caliche.

11. OTHER INFORMATION - Cont'd

- C. Flora and Fauna: The vegetative cover consists of mesquite, sandsage, and perenial native range grasses. Wildlife in the area is that typical of semi-arid desert land and includes coyotes, rabbits, rodents, reptiles, dove, quail, and an occasional antelope.
- D. <u>Ponds and Streams</u>: There are no rivers, streams, lakes or ponds in the area.
- E. Residence and Other Structures: The nearest occupied dwelling is a ranch house 3½ miles northeast of the well site. No water in area.
- F. Archeological, Historical and Cultural Sites: None observed in the area.
- G. Land Use: Grazing and hunting in season.
- H. <u>Surface Ownership</u>: Well site and all roads on surface are owned by Jal Public Library Fund Trustees. All roads and drill site easements have been obtained.

Note: See attached letter.

12. OPERATOR'S REPRESENTATIVE:

The field representatives responsible for assuring compliance with the approved surface use and operations plan are as follows:

Bobby Bryan 317 S.W. 4th St. Andrews, Texas 79714 Home Phone: 915-523-5383

J. R. Hughes P. O. Box 671 Midland, Texas 79702 Home Phone: 915-697-1739 Office Phone: 915-682-9731

13. CERTIFICATION:

I hereby certify that I, or persons under by 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 Union Oil Company of California and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

8-18-77

Mame and Title

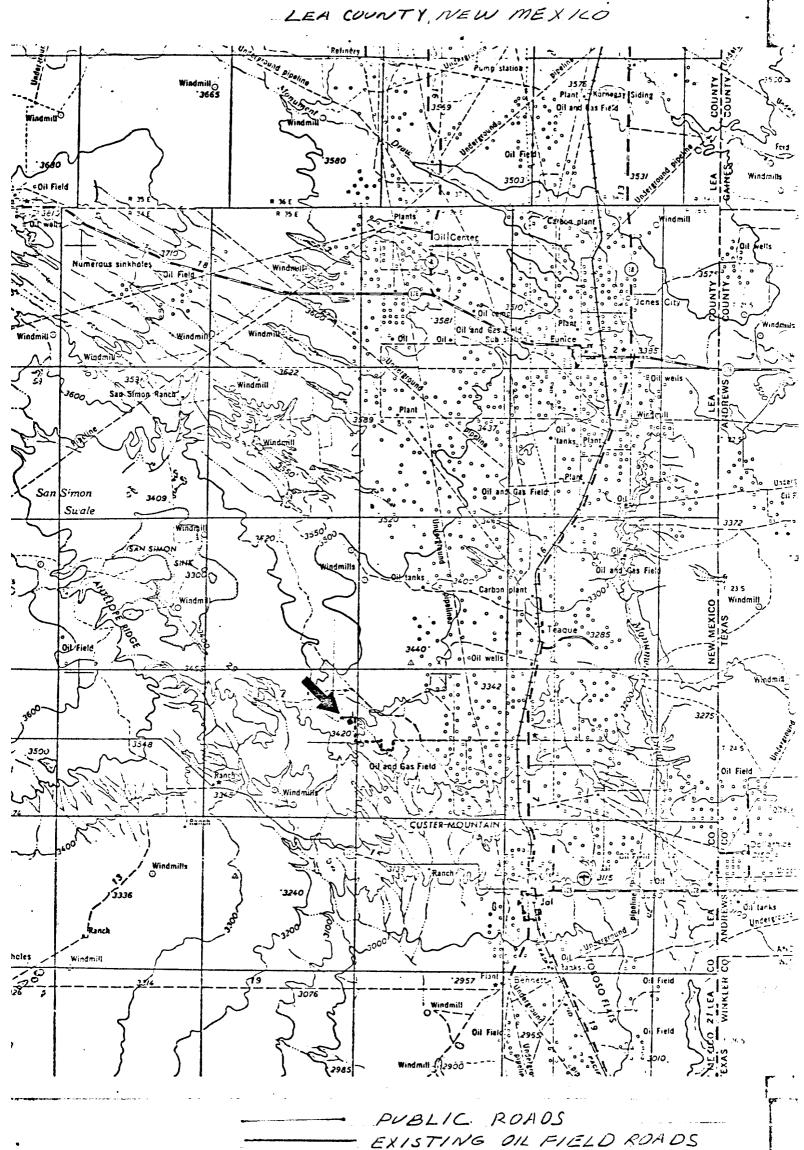
Date

EXHIBIT A

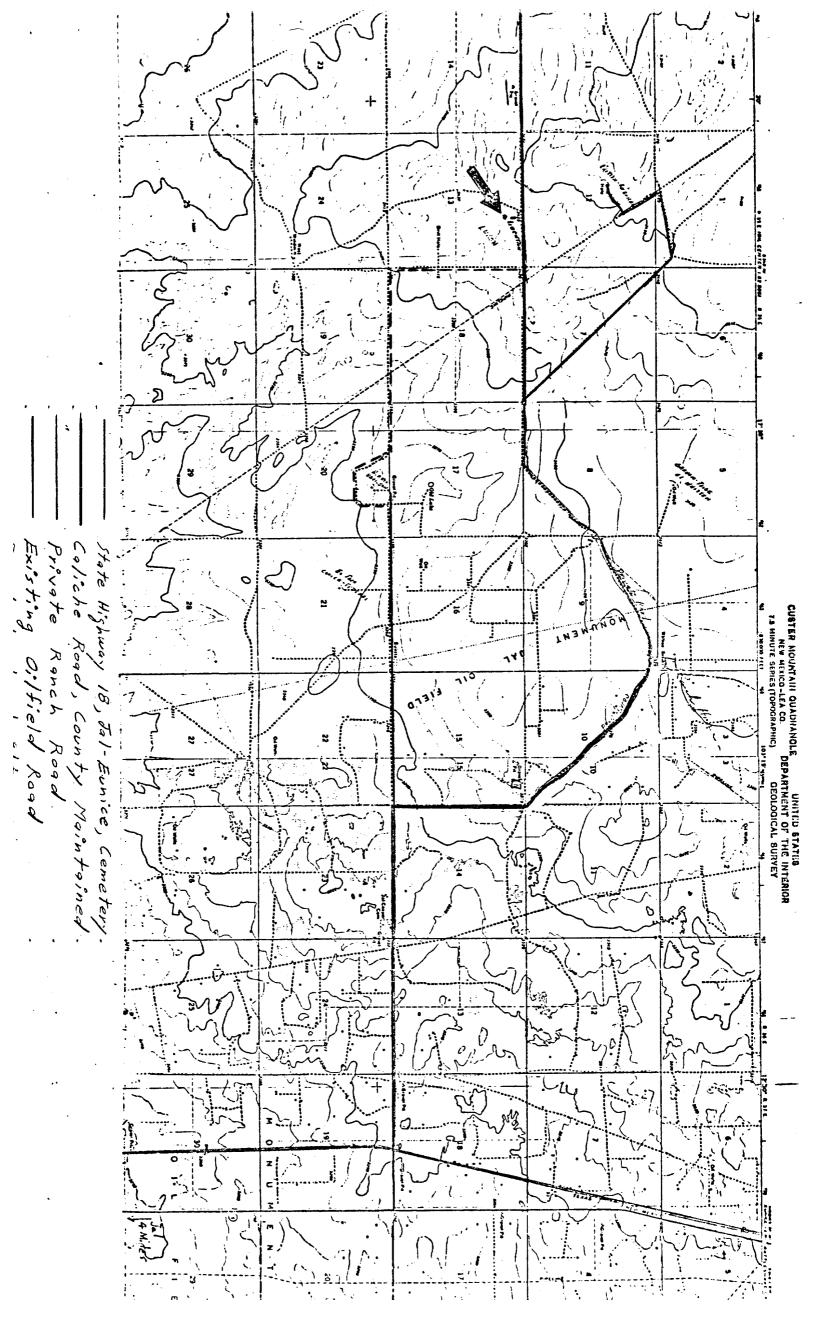
UNION C COMPANY OF CALIF (NIA

LUZON FEDERAL WELL INO #/

660 FNL + 1980 FEL, SEC. 13, T-245, R-33-E.



PRIVATE RANCH ROAU



-EXHIBIT B

LUZON FEDERAL WELL NO. 1

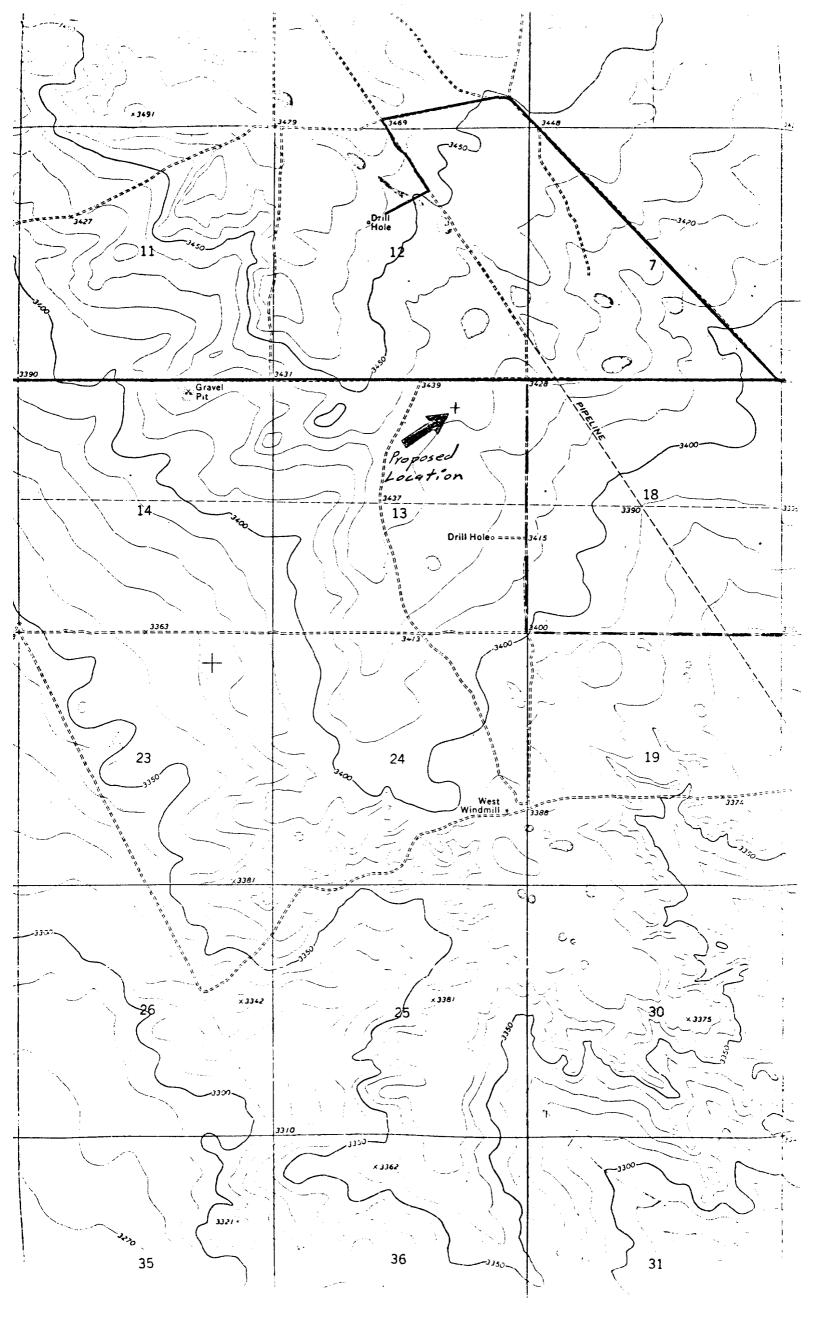
Location: 660' FNL + 1980' FEL of Sec. 13, T-245

R-35 E, Lea County, New Mexico.

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33	34		Wind mill x 36	Windmill 3	32	33
4	 3 	2	900	6	5	*/ •——•
y x Gravel Pit	water Well		Piteline 2		8	9
6	15	Gravel 14	1/3	18	17 Gravel - p,+ x	
21	22	23	24 Windyl x	19	20	2/
2 <i>9</i>	27	26	25	30	29	28
	1					

Nater Well Located in NW/4 of Sec 10

oll roads are caliche.



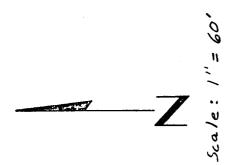
Union Oil Company of Calitornia

LUZON FEDERAL WELL NO. 1.

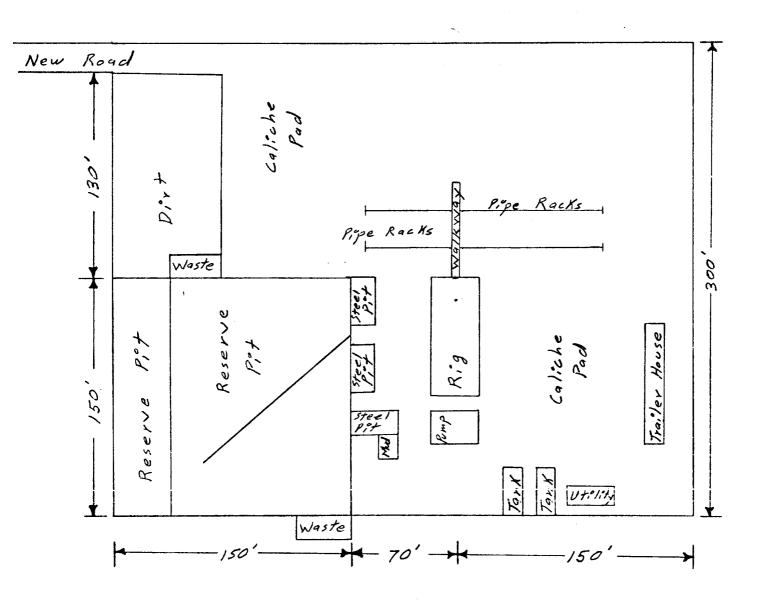
Location: 660' FNL + 1980' FEL of Section 13, T-245,

R-35E, Lea County, New Mexico.

EXHIBIT C



Low, rolling sand hills, covered with Shinnery Oak and native grass.



Low, rolling sand hills, covered with shinnery oak and native grass.

Union Oil Company of California

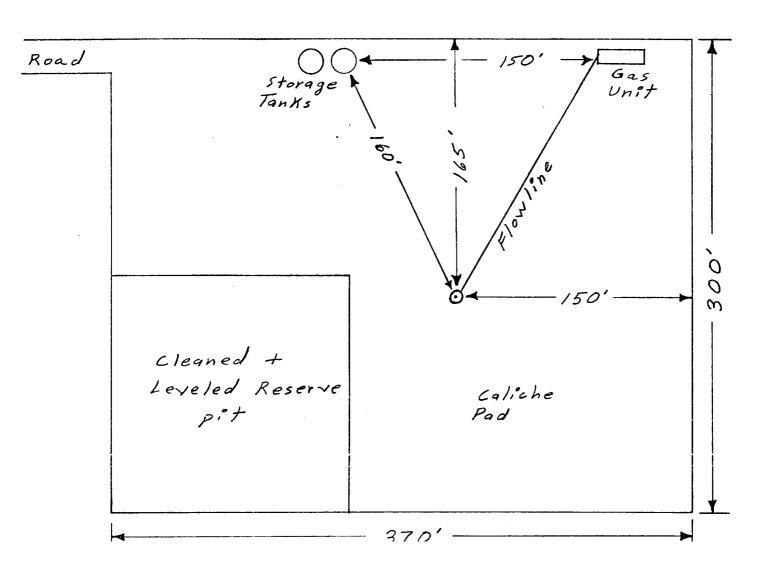
LUZON FEDERAL WELL NO. 1.

. Location: 660' FNI + 1980' FEL of Section 13, T-245,

R-35E, Lea County, New Mexico.

EXHIBIT D





AUXILIARY EQUIPMENT:

A sub with full opening valve on the rig floor at all times.

Mud pit level controls hooked up at 10,800 ft.

No hydrogen sulfide gas is expected.

This well is expected to spud approximately October 10, 1977 and last 110 days.

HOBBS DISTRICT

Union Oil Co. of California No. 1 Luzon Federal NW¼NE¼ sec. 13-24S-35E Lea County, N. M.

Above Data Required on Well Sign

CONDITIONS OF APPROVAL

- 1. Drilling operations authorized are subject to compliance with the attached General Requirements for Drilling Operations on Federal Oil and Gas Leases, dated January 1, 1977.
- 2. Notify this office (telephone (505) 393-3612) when the well is to be spudded and in sufficient time for a representative to witness all cementing operations. Attached are names and telephone numbers of Geological Survey and Bureau of Land Management personnel who are available for consultation during construction, drilling, completion, and rehabilitation activities.
- 3. Immediate notice is required of all blowouts, fires, spills, and accidents involving life-threatening injuries or loss of life.
- 4. Secure prior approval of the District Engineer for variance from the approved drilling program and before commencing plugging operations, plugback work, casing repair work, corrective cementing operations, or suspending drilling operations indefinitely.
- 5. Blowout prevention equipment is to be installed, tested, and in working order before drilling below the surface casing and shall be maintained ready for use until drilling operations are completed.
- 6. Operations must be in complaince with the provisions of the landowner agreement concerning surface disturbance and surface restoration.
- 7. Casing protectors will be run on drill pipe while drilling through the 9-5/8" casing. Protectors will be of sufficient number and of sufficient outside diameter to protect the casing.
- 8. After setting the 7" casing string and before drilling into the Pennsylvanian formation, the blowout preventers and related control equipment shall be pressure tested to rated working pressures by an independent service company. Any equipment failing to test satisfactorily shall be repaired or replaced. This office should be notified in sufficient time for a representative to witness the tests and shall be furnished a copy of the pressure test report.

Mud system monitoring equipment, with derrick floow indicators and visual and audio alarms, shall be installed and operating before drilling into the Pennsylvanian formation and used until production casing is run and cemented. Monitoring equipment shall consist of the following:

- (1) A recording pit level indicator to determine pit volume gains and losses.
- (2) A mud volume measuring device for accurately determining mud volume necessary to fill the hole on trips.
- (3) A flow sensor on the flow-line to warn of any abnormal mud returns from the well.