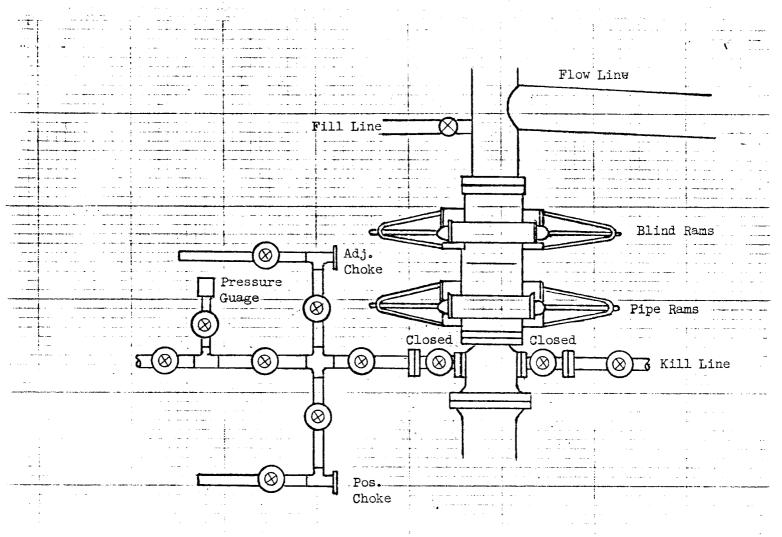
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		ther DF, RT, GR, etc.)		·		···· ·	1	22. APPROL. DATE WORK WILL START			
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23,		. P	ROPOSED CASI	NG AND	CEMENTING	PROGRA	.M				
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$\frac{12-17}{7-77}$		8-5/8" 5-1/2"	24# 15.5#		+ 500 +4000		Suff.	to circulate to surface. to circulate back up into			
					=			ce casing.			
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	lates 7 Rivers				+ 2635 + 2875			oil or gas producer			
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F	Penrose		~~************************************	19/11 J	+ 3510	ું 0i	l and d	as			
4. F	Run 8-5/8" 15 5# V-5	OD, K-55 new c	asing to $\frac{+1}{2}$	500' a	and circu	late co	ement 1	to surface. Run 5½" OD,			
2	surface ca	sing in two sta	ges. Casi	nu cei nahead	ment with 1 will be	a Sur	ricieni 900 se	t amount to circulate up into eries w/a 3000 psi rating.			
5. E	31owout pr	eventors: Hydr	aulic, doul	ble ra	am, 10".	One se	et of r	rams will be provided for			
6	each size	drill pipe in t	he hole. (One se	et of bli	nd rams	s at al	ll times. Fill line will be			
·	e install	ed. tested and	cnoke rei in working	nrde)	ne Will c before	De Z" \ drilli:	with va	ariable choke. BOP's will ow surface casing and shall			
t	oe maintai	ned ready for u	se until di	rilli	ng operat	ions a	re comp	pleted. BOP's; drills, and			
t	tests will	be recorded in	the drill	ers lo	. apc						
6. V	10.0 lb. p	e, spud mud – o er gallon)	- <u>+</u> 500 . (8	.5 - :	9.0 lb. p	er gai	ioni i	Bring gel = 500'-TD. (9.0 -			
7. <u>F</u>	Auxiliary	Equipment									
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	. Mud mon	g valve to fit itoring will be	uriii pipe visual, ne	wııı o abno	oe prese ormal o re	ssures	are ar	nticipated in this ares.			
C	1. Floats	at bits.					,	·			
6	e. Drill s	tring safety v floor while dr	alve (s) to	o fit	all pipe	in the	e drill	l string will be maintained			
8. 1	This well	will be pump te	sted after	reco	very of a	ny load	ass. doil d	or water. No cores will be			
t	taken. DL	L-GR, CNL-FDC-G	R caliper,	and I	BHC Sonic	logs v	will be	e taken. Anv other evalua-			
9. N	tion that In abnorma	may be necessar	y during tl	he dr	illing of	this w	well wi	ill be conducted as needed. bint #5 for blowout			
		equipment.	cemper a cur	5	e ancicip	aceu.	see po	Jille #5 for blowout			
10. 1	The drilli	ng of this well	will take	appro	oximately	eight	days.	The gas is not dedicated			
		chaser as of th		\ wil'	l ha nati	find o	f couda	ding in sufficient time to			
11. ·	vitness ce	menting operati	ons. Immed	diate	notice w	ill be	given	on blowouts, fires, spills,			
a	and accide	nts involving l	ife-threat	ening	injuries	or los	ss of 1	life. Prior approval will			
		before appreci						mencing plugging operations,			
Ņ	iud back w	ork, casing rep	all Work O	COLL	eccive co	inen c m	ig oper	4 CTOHS:			
one. If preventer p	SPACE DESCRIBE proposal is to d program, if any	rill or deepen directional	roposal is to deep ly, give pertinent	en or pl	og back, give d i subsurface lo	ata on pre- ations and	esent produ Lineasured	uctive zone and proposed new productive I and true vertical depths. Give blowout			
4.	11 10	Massa		.		+		APR 14 197-			
AIGNED	_ N.M.	LIVVEN		rx _D1,	v. Produc	CION M		APPROVED			
(Ta.)	space for Feder	al or SMte office use)					7	AS AMENDED			
PERMIT	но				APPROVAL DATE			JUN 9 1977			
ATTROV	ED HY							BERNARD MOROZ			
CONDIT	IONS OF APPRICA	PROVAL:TO FLARE GRA	NTED TIT				AC	TING DISTRICT ENGINEER			
	WH.	ILE DRILLING AND TEST	II. Cle.				L				



All valves 2"

All BOPs, flanges, spools, valves, & lines must be series 900 or 3000 psi working press.

Choke manifold must be at ground level and extended out from under substructure.

TENNECO OIL COMPANY

REQUIRED MINIMUM BLOWOUT PREVENTOR

HOOKUP

Denver, Colorado

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JUN 1 .: 1977

1.03es, H. M.

Form C-102 Supersedes C-128 Effective 1-1-65

All distances must be from the outer boundaries of the Section

perator TENNEC	O OIL COMPANY		Leonard B	Well No.				
Unit Letter	Section 13	Township 26 South	Romge 37 East	County				
Actual Footage Loc 1980	ation of Well:	north line and	660 tee	t from the east	line			
Ground Level Elev. 3000.9	Producing For		Leonard Queen	Dedi	cated Acreage;			
	 		*************************************	<u>.</u>	76.153			
 Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 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?								
Yes No 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-								
sion.	6 ,	·						
	i			, CE	RTIFICATION			
	; ; ; ;		0861	tained herein i	v that the information con- s true and complete to the wledge and belief.			
	1			Name Position Production	& Droke			
	İ		1	- 660' Company Tenneco O				
	' 			Äpril 12,				
	+		676 TE	shown on this notes of actua under my super	fy that the well location plat was plotted from field il surveys made by me or rvision, and that the same orrect to the best of my belief.			
	1 1 1		MEXICO	Date Surveyed April 5 Registered Profe	ssional Engineer			
			N.V.	and/or Land Surv	W West			
1 7 7	-1	80 231C 2640 20C	00 1500 1000	500	676			

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CH COMSTIMATION COMM.

SURFACE USE PLAN

1. Existing Roads

a. See surveyor's plat for actual staking.

- b. This well site is located approximately 3 miles SE and 3 miles E of Jal, N.M. Drive SE on 18 for 3 miles and turn 4 mile after mile marker #5 onto Lease Road. Follow map on Exhibit B from there.
- c. See exhibit "B" for access roads.

d. This is not an exploratory well.

e. See Exhibit "B" for one mile radius road map.

f. An existing trail of 2500' will be reconstructed for wells 3 & 6. See section 2 below.

Planned Access Roads

a&b. See Exhibit "B". We plan to reconstruct 2500' 12' wide road. We will construct water bars where necessary. This area is nearly level.

c. There will be no turnouts.

d&e. Water bars will be constructed where required to prevent erosion. New road will have a 6" drop from center line on each side. Road will be cut into any arroyos and sloped across bottom to maintain normal drainage. Cuts and fills will be kept to a minimum.

f. We will use six inches of caliche, bladed, watered, and compacted on the road surface.

g. No gates, cattleguards, or fences will be needed.

h. Proposed road has been center line flagged.

3. Location of Existing Wells

a-i. See Exhibits "B" and "C" for locations of existing wells.

Location of Existing and or Proposed Facilities.

a&b. See Exhibit "D".

c. Rehabilitation will commence immediately following removal of drilling and completion equipment from location. Pits will be backfilled and leveled as soon as practical to to original condition. (See section 10 below)

d. We are hereby applying for construction of all necessary lines to the tank battery as

shown on Exhibit "D".

Location and Type of Water Supply a&b. Water will be hauled from Jal, New Mexico over existing roads.

c. No water well will be drilled.

6. Source of Construction Materials

a-d. Caliche for surfacing new road and location will be hauled over existing roads from Sec.23, 14, & 15 T26S, R37E. Caliche will be bought from the pits located in Federal Gov't. No new access roads across federal or Indian lands will be needed.

7. Methods for Handling Waste Disposal

a. Cuttings will be disposed of in the reserve pit.

b&c. Drilling fluids and produced water will be collected in the reserve pit and hauled away to an approved disposal system or a separate disposal application will be submitted. Any produced oil will be run to the tank.

d&e. All detrimental debris will be hauled away or burned or buried with a minimum cover of 36" of dirt. Barrel trash containers will be placed around location during

drilling and completion operations.

f. See section 4:c above and section 10 below for clean up operations.

Ancilliary Facilities

a. No camps or airstrips will be needed.

Well Site Lay out

- a-c. See Exhibit "A"
 - d. Pits will be lined with plastic and covered with a fine mesh netting if necessary for the protection of wildlife if fluids are found to be toxic.

10. Plans for Restoration of Surface

- a. See section 4:c and section 7:a-f.
- b. Location will be reseeded as per BLM specifications if well is productive. If unproductive, roads and location will be ripped and reseeded as per BLM specifications.

c. Prior to rig release, pits will be fenced and so maintained until cleanup.

- d. If any oil is on the pit, it will be removed or flagged.
- e. See section 4:c for time table.

11. Other Information

- a. Site is located in low rolling sand hills as can be seen on Exhibit "B". The soil is very sandy with sparse vegetation. The vegetation consists of grass, wood, shinnery and other semi desert plants.
- b. The surface is used for grazing.
- c. There are no ponds or streams within $\frac{1}{2}$ mile of location. No buildings residences or water wells are within $\frac{1}{2}$ mile of location.
- d. A sign identifying and locating well will be maintained at the drill site with the spudding of this well.
- e. There were no archeological resources observed at this site.
- f. All open pits will be fenced.

12. Operator's Representative.

a. Field personnel who can be contacted concerning compliance of this Surface Use Plan are as follows: Darrell Brown, 1860 Lincoln, Suite 1200, Denver, Colorado 80295 Office = 303/292-9920 ext. 254 Home = 303/771-8297

13. Certification

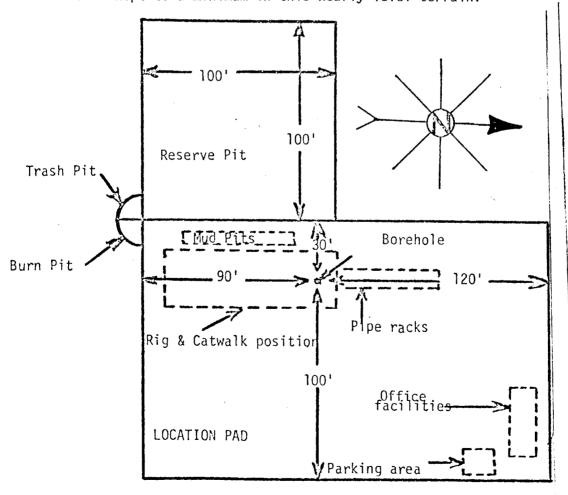
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions as they actually exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the proposed work performed by Tenneco Oil Company and its contractors and sub-contractors will conform to this plan.

<u> 199 (4 1977</u> Date

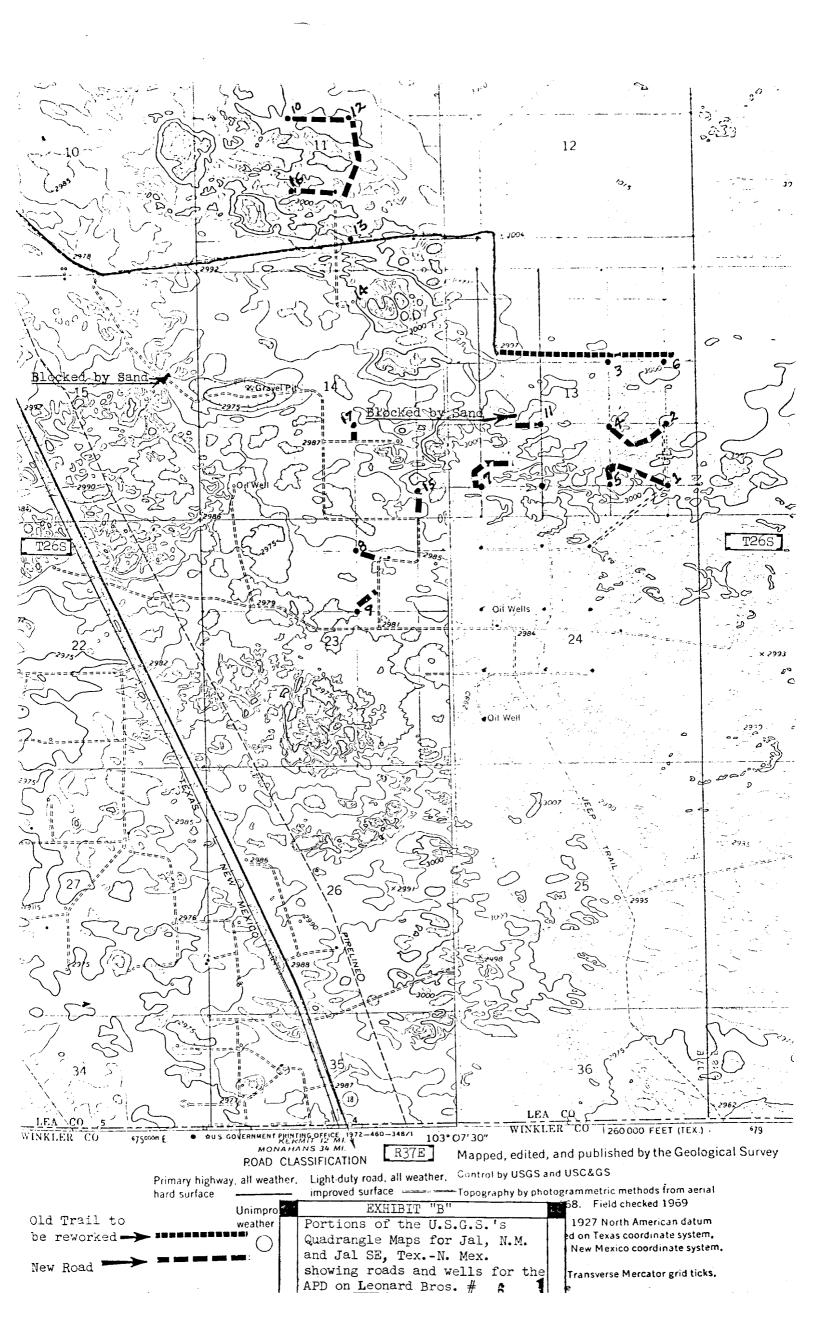
DE Brown

Division Drilling Engineer

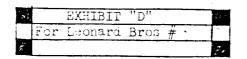
Due to shifting sand dunes, some sand may have to be pushed off location but major cuts or fills will be kept to a minimum in this nearly level terrain.



Existing trail to be Reconstructed



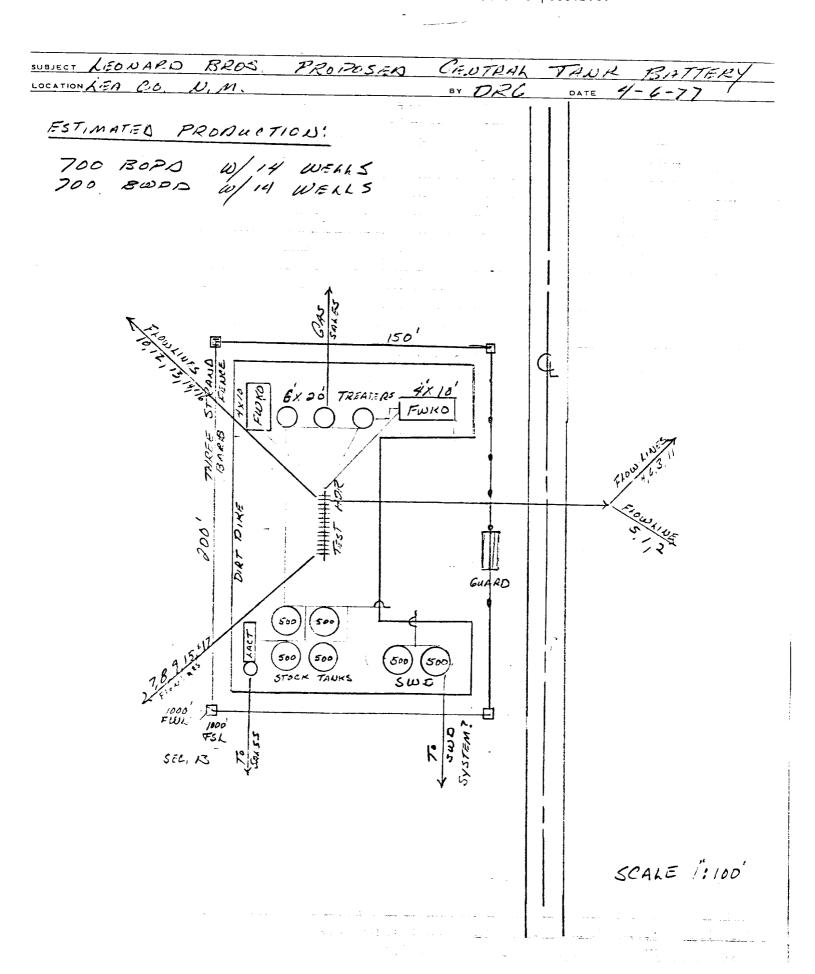
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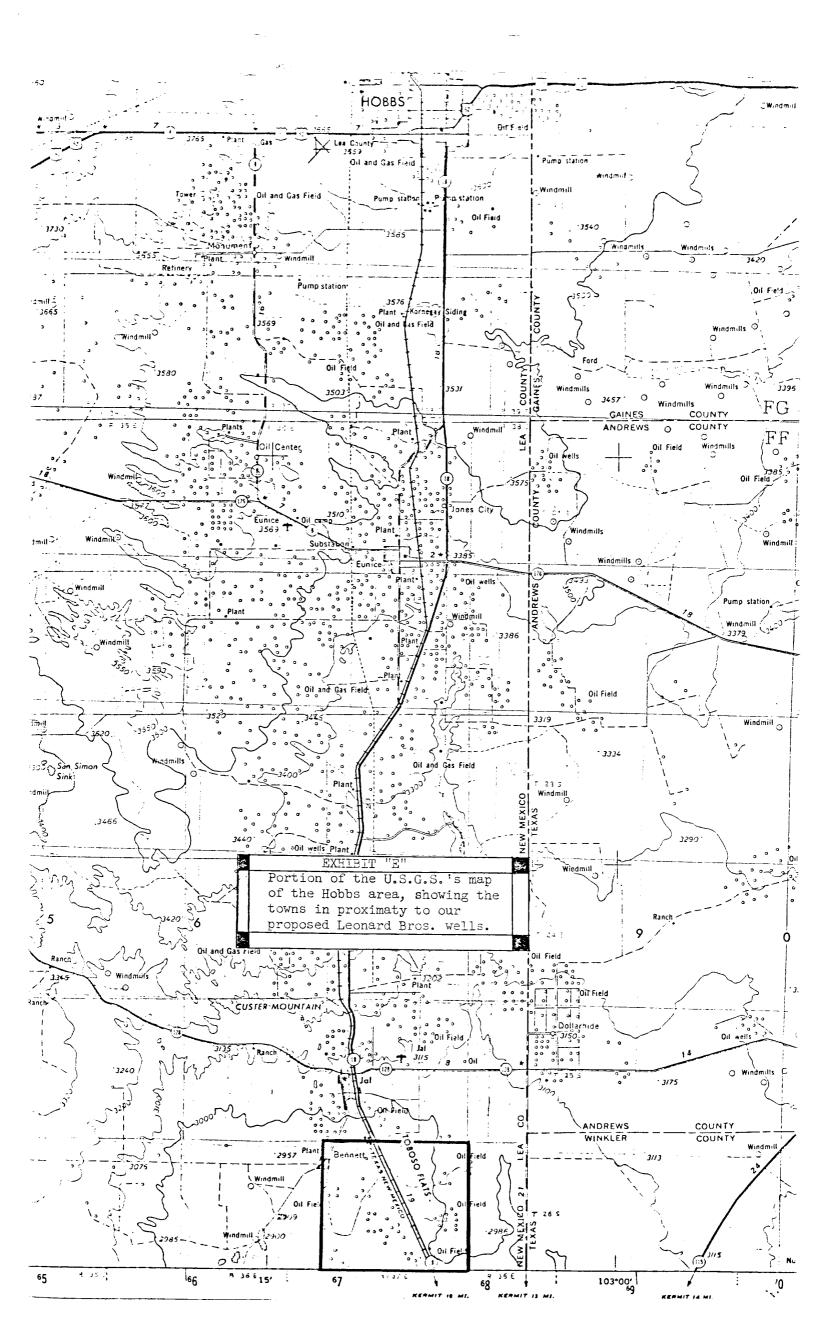


Tank Battery and Flow Lines

If production is encountered, a central tank will be located approximately from 1000'-1150' FWL and 1000'-1200'FSL of Sec.13, T26S, R37E in Lea County, New Mexico. A 3' high dirt dike will enclose and contain possible spills. The entire location will be enclosed with a 3' strand barb wire fence to exclude domestic animals and wildlife from entering. A cattle guard will be built on the east side to facilitate entering. Approximately 20 feet of road will be built connecting the cattleguard and an existing road. Road and entrance will be surfaced with caliche as explained in the Surface Use Plan.

All flowlines will be run to the tank battery test header paralleling each other as closely as possible to create the least amount of surface disturbance that is possible.

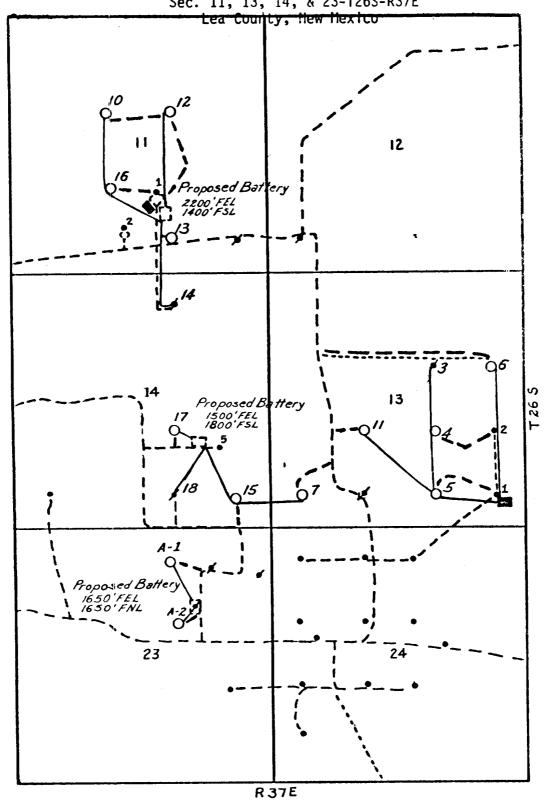




TENNECO OIL COMPANY EXHIBIT D-1

Leonard Bros. Development - Leonard Queen South Pool

Sec. 11, 13, 14, & 23-T26S-R37E



- · Existing Locations or Wells
- O Proposed Locations
- Existing Battery
- Is Proposed Battery

- - Existing Roads
- -- Existing Trails
- Proposed Roads
- Flow Lines on Surface

HOBBS DISTRICT

Tenneco OIL Company No. 6 Leonard Bros. SE¼NE¼ sec. 13-26S-37E 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. All pits found to contain toxic liquids will be fenced and covered with a fine mesh netting for the protection of wildlife as directed by the responsible BLM representative.
- 7. In the event the oil or gas test results in a dry hole, the drill pad and access road will be ripped in accordance with "BLM Roswell Districts' Ripping Recommendations for Caliche or Compacted Drill Pads and Access Roads" (3109).
- 8. All structures and pipelines above ground, not subject to applicable conservation and safety requirements, should be painted a non-glare, non-reflective, non-chalking color that simulates the natural colors of the site. The Federal Standard Number to be used is Fed. Stand. 595, Color 30318.

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