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4. 100A	urface	teport location clearly L and 1980'FW	and in necordance with	h any Sti	ite requirements.*).		Leonard Queen, South		
Αtμ	roposed prod. zo		2, 01110 K			377	Sec 11 5, T26S, R37E		
		b of Surface	MERCEST TOWN OR FUST	r oreick*			12. COUNTY OF PARISH 13. STATE		
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18. 1013	TANCE PROM PRO	g. unit line, if any)			.2520		DET OR CAPLE TOOLS		
TO NEAREST WELL, DESLETE, COMPLETED, OR APPLIED FOR, ON THIS LEADE, FT.  21. EDIVATIONS (Show whether DF, NT, GR, etc.)				<u>+</u>	4000		tary		
	3001.7'G						22. AFFROX, DATE WORK WILL START		
23.			PROPOSED CASIN	G AND	CEMENTING PROGR	A.M			
	ze ог но:х 1/4 <sup>п</sup>	8-5/8"	24#	07	+ 500 <sup>1</sup>	Suff	QUANTITY OF CEMENT		
	7/8"	5-1/2"	15.5#		<u>+</u> 4000'	Suff.	to circulate to surface. to circulate back up into		
•		1	<b>.</b>	i i		surfac	ce casing.		
1.				rmatio	on is the Ogal	lala L	ime (Miocene).		
2&3.		Tops (Estima	ted)	·—	- 1160 ' Sa	1 t			
	Salado Yates		resident distance a con-	1 1	_		oil or gas producer		
	7 Rivers	. 🔿	SEE ATTAC	Calcal 🕽	2830 Po	ssible	oil or gas producer		
	Queen	<b>4</b>	UNUITONS O	-		l and			
4.	Penrose Run 8-5/8'	' OD. K-55 nev	v casing to ±5		- 3510 ' Oi id circulate c		yas to surface. Run 5½°OD,		
• •	15.5#, K-	55 new casing	to T. D. $\setminus \overline{a}$ n	d ceme	ent with a suf	ficien	t amount to circulate up into		
	surface ca	asing in two	stages. Casin	ghead	will be a 10"	900 se	eries w/a 3000 psi rating.		
5.							rams will be provided for line will be		
							ariable choke. BOP's will		
	be instal	led, tested a	nd in working	order	before drilli	ng belo	ow surface casing and shall		
			r use until dr in the drille			re com	pleted. BOP's; drills, and		
6.						lor) I	Bring gel = 500'-TD. (9.0 -		
	10.0 lb.	oer gallon)							
7.	Auxiliary		in use at all	timas			·		
			it drill pipe			floor a	at all times.		
	c. Mud moi	nitoring will					nticipated in this ares.		
	d. Floats		valva (s) to	fit:	all ning in th	o deil	l string will be maintained		
			drilling oper				s string with be maintained		
8.	This well	will be pump	tested after	recove	ery of any loa	doild	or water. No cores will be		
							e taken. Any other evalua- ill be conducted as needed.		
9.							oint #5 for blowout		
	prevention	n equipment.	·		•	·			
10.		ing of this w rchaser as of		approx	kimately eight	days.	The gas is not dedicated		
11.				will	be notified o	f spude	ding in sufficient time to		
	witness co	ementing opera	ations. Immed	iate r	notice will be	given	on blowouts, fires, spills,		
	and accide	ents involvín d before anno	g Ilte-threate eciably changi	ning na dri	Injuries or lo Illing program	ss of	life. Prior approval will mencing plugging operations,		
	plug back	work, casing	repair work or	corre	ective cementi	ng oper	rations.		

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

24.

APPROVAL TO FLARE GRANTED
WHILE DRILLING AND TESTING."

APPROVAL DATE.

APPROVAL DATE.

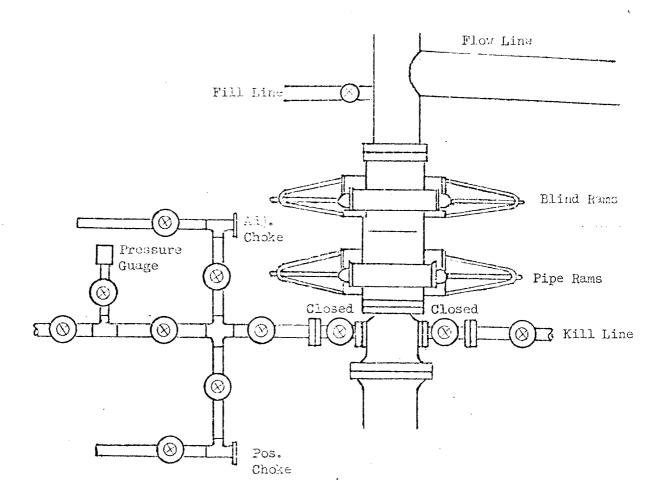
DATE.

DATE.

DATE.

DATE.

CONDITIONS OF AFFEOVAL, IF ANY :



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

# RECEIVED

· (- ) / · JUN 1 . 1977.

CAL CORNE ....... COMM.

# NE EXICO OIL CONSERVATION COMMISSIC WELL LOCATION AND ACREAGE DEDICATION PLAT

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

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

		1.			<del></del>				
-/, perator		. 1		Well No.					
TENN	ECO OIL COMPA	NY	Leonard E	Brothers	16				
Unit Letter				County					
ĸ	K 11 26 South		37 East	Lea					
Actual Footage Loc	ation of Well:								
1980 feet from the south line and 1980 feet from the West line									
Ground Level Elev.	Producing For	mation P	∞1		Dedicated Acreage:				
3001.7 GL	Queen	-Penrose	Leonard Quee	n South	40				
1 0 11 A	Jadiaa	and an about the continue	. h., a - l - a - d - a : 1 -		Acres				
I. Quiline in	e acreage dedica	ted to the subject well	by colored pencil o	r nachure marks on th	e plat below.				
<ol> <li>If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).</li> <li>If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consoli-</li> </ol>									
dated 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									
		owners and tract descri	ptions which have ac	ctually been consolida	ated. (Use reverse side of				
	f necessary.)	1 1 11 11 11 11	, .						
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 Commission.									
Ì	1				CERTIFICATION				
	1		İ						
1			1	f hereby o	ertify that the information con-				
	ł		1	tained her	rein is true and complete to the				
	l .		1	best of my	knowledge and belief.				
	1		1						
	· - +			Name	Q Araka				
1	1		1	Position	1 No Court				
					ion Analyst				
			1	Tenneco	Oil Company				
	l ,		1	Date	1077				
	I		i I	April 12	2, 19//				
-19	8C -		676	shown on notes of under my is true a	certify that the well location this plat was plotted from field actual surveys made by me or supervision, and that the same and correct to the best of my eand belief.				
	-		N. R.		<u> </u>				
	1 00 1 07		1	Date Survey					
	<u> </u>		1	1	7, 1977				
	1		!	Registered F cand/or Loand	Professional Engineer Surveyor				
1	1		1	and or Edna	7				
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				Certificate	676				
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10% 1 21977. C2 C-182 12. 11.

#### SURFACE USE PLAN

Existing Roads

a. See surveyor's plat for actual staking.

- b. This well site is located approximately 3 miles SE and  $1\frac{1}{2}$  miles E of Jal, N.M. Drive SE on 18 for 3 miles and turn on Lease Rd.  $\frac{1}{2}$  mile past mile marker #5. 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. No improvements or maintenance is anticipated for existing roads.

Planned Access Roads a&b. See Exhibit "B". We plan to construct 1000' of 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 pits located in Sec.23, 14, & 15 T26S, R37E. Caliche will be bought from the Federal Gov't. No new access roads across federal or Indian lands will be needed.

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.

(continued on next page)

#### 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.

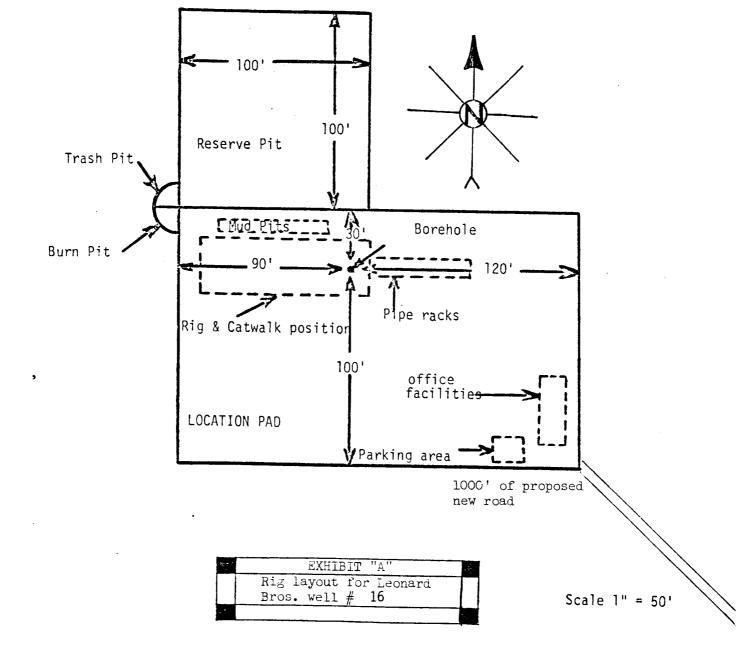
APR 14 1977

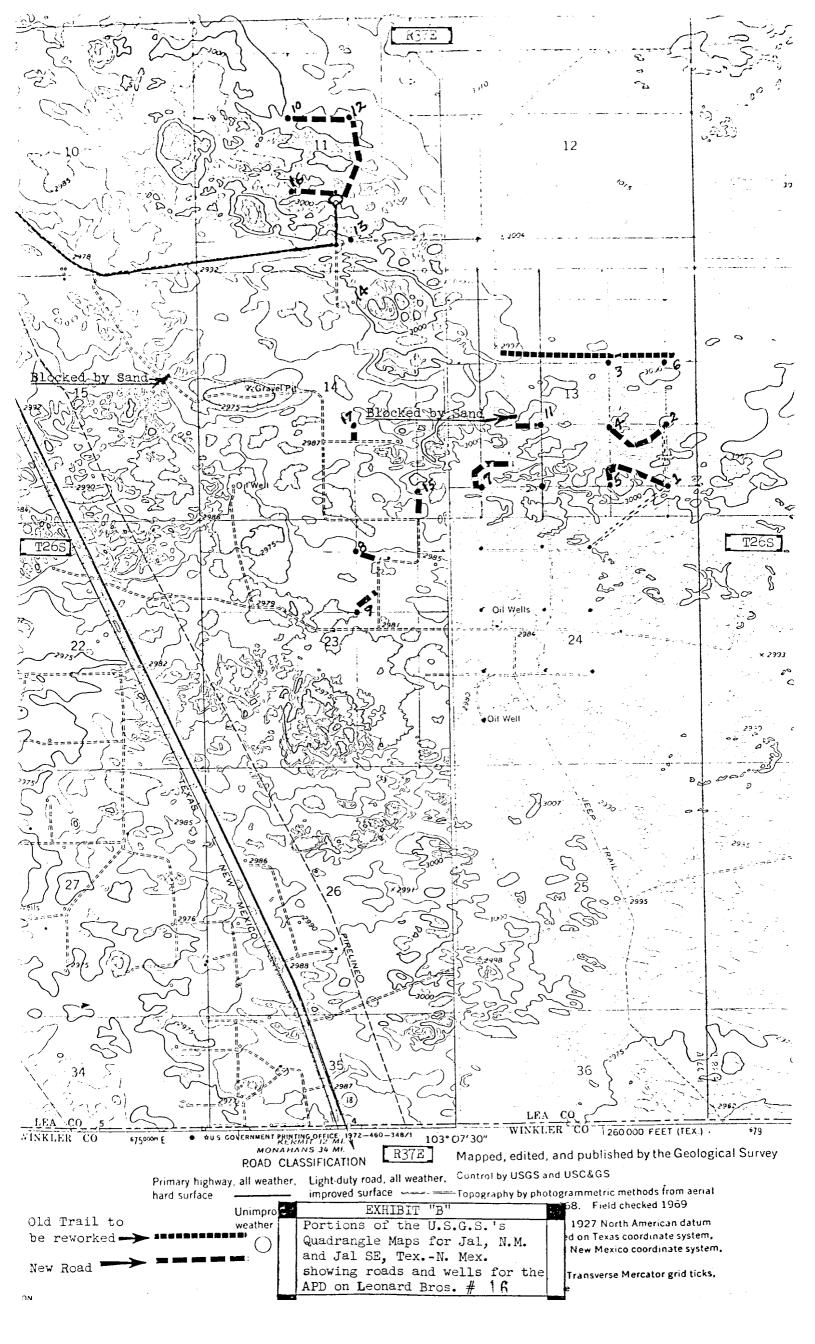
Date

D.E. Brown

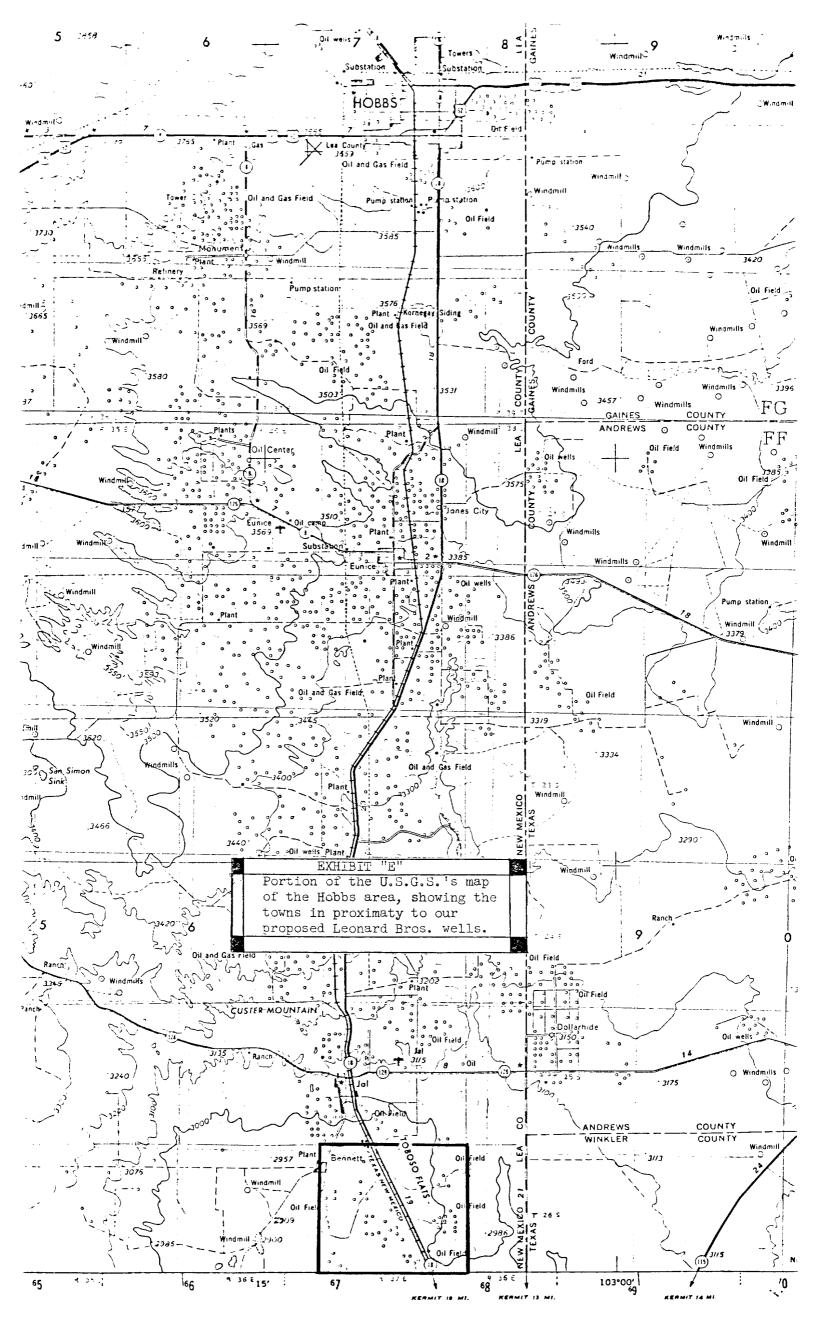
Division Drilling Engineer

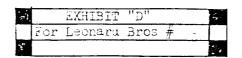
Due to shifting sand dunes, some sand may have to be pushed off location but major cuts or fills will be kept to a minimum in this nearly level terrain.





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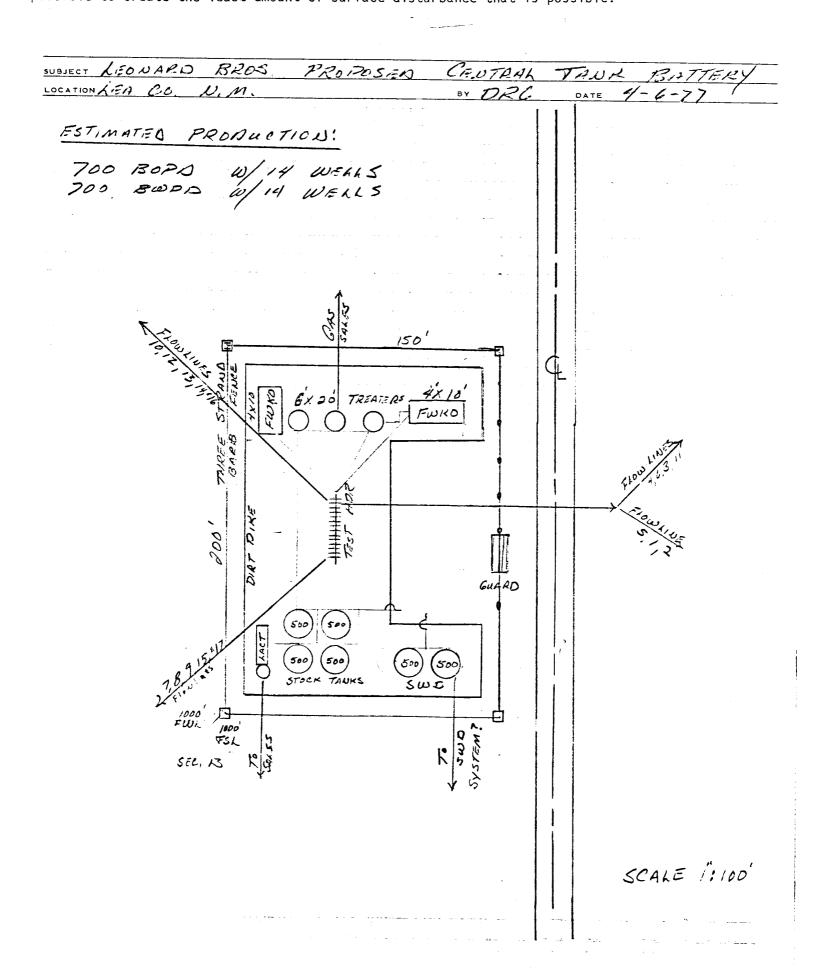
Tank Battery and Flow Lines

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

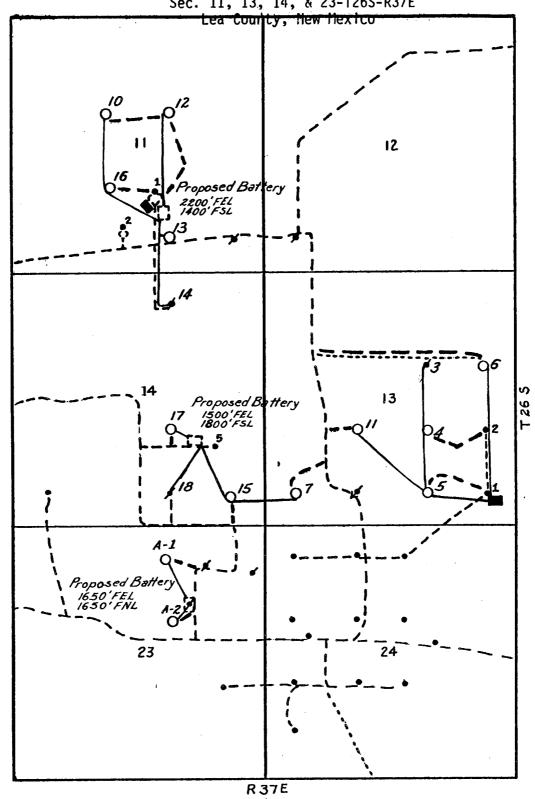
in the Surface Use Plan.

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

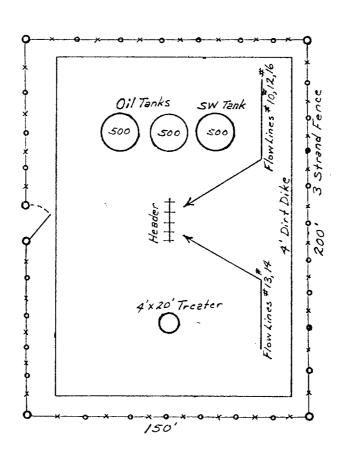


- Existing Locations or Wells
- O Proposed Locations
- Existing Battery
- 13 Proposed Battery

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

TENNECO OIL COMPANY
Exhibit D-2
Leonard Brothers #10, 12, 13, 14, & 16
Sec. 11-T26S-R37E
Lea County, New Mexico





### U. S. Geological Survey

#### HOBBS DISTRICT

Tenneco Oil Co. No. 16 Leonard Bros. NE¼SW¼ sec. 11-26S-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.