

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input checked="" type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. NM 12412
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR Sun Oil Company		7. UNIT AGREEMENT NAME
3. ADDRESS OF OPERATOR P. O. Box 1861 Midland, TX 79702		8. FARM OR LEASE NAME Sloan Federal
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 660' FNL & 660' FWL Sec. 22, Ut. Ltr. "D" At proposed prod. zone		9. WELL NO. 1
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 14 1/2 miles South from Maljamar, NM		10. FIELD AND POOL, OR WILDCAT Lusk Yates NE
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 660'		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 22, T-19-S, R-32-E
16. NO. OF ACRES IN LEASE 2320		12. COUNTY OR PARISH Lea
17. NO. OF ACRES ASSIGNED TO THIS WELL 160		13. STATE NM
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. One Well Lse. PBD 3700'		20. ROTARY OR CABLE TOOLS Rotary
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 3612' GR		22. APPROX. DATE WORK WILL START* Sept. 22, 1980

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8"	48#	350'	400 SX
12 1/4"	9 5/8"	36#	4400'	2700 SX
8 3/4"	7" Liner	23, 26, & 29#	T - 3790 B - 10,915	2000 SX

BOP - Series 900 or 1500 Double Gate.

Request plug back approval from Bone Spring to Yates

RECEIVED  
SEP 22 1980U. S. GEOLOGICAL SURVEY  
HOBBS, NEW MEXICO

NOTE: No additional surface disturbance will be required.

\* Our Lease expires 10/31/80. We would appreciate prompt approval.

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 depths. Give blowout preventer program, if any.

24. SIGNED Louis Williams TITLE Sr. Accounting Assistant DATE 9-19-80  
(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

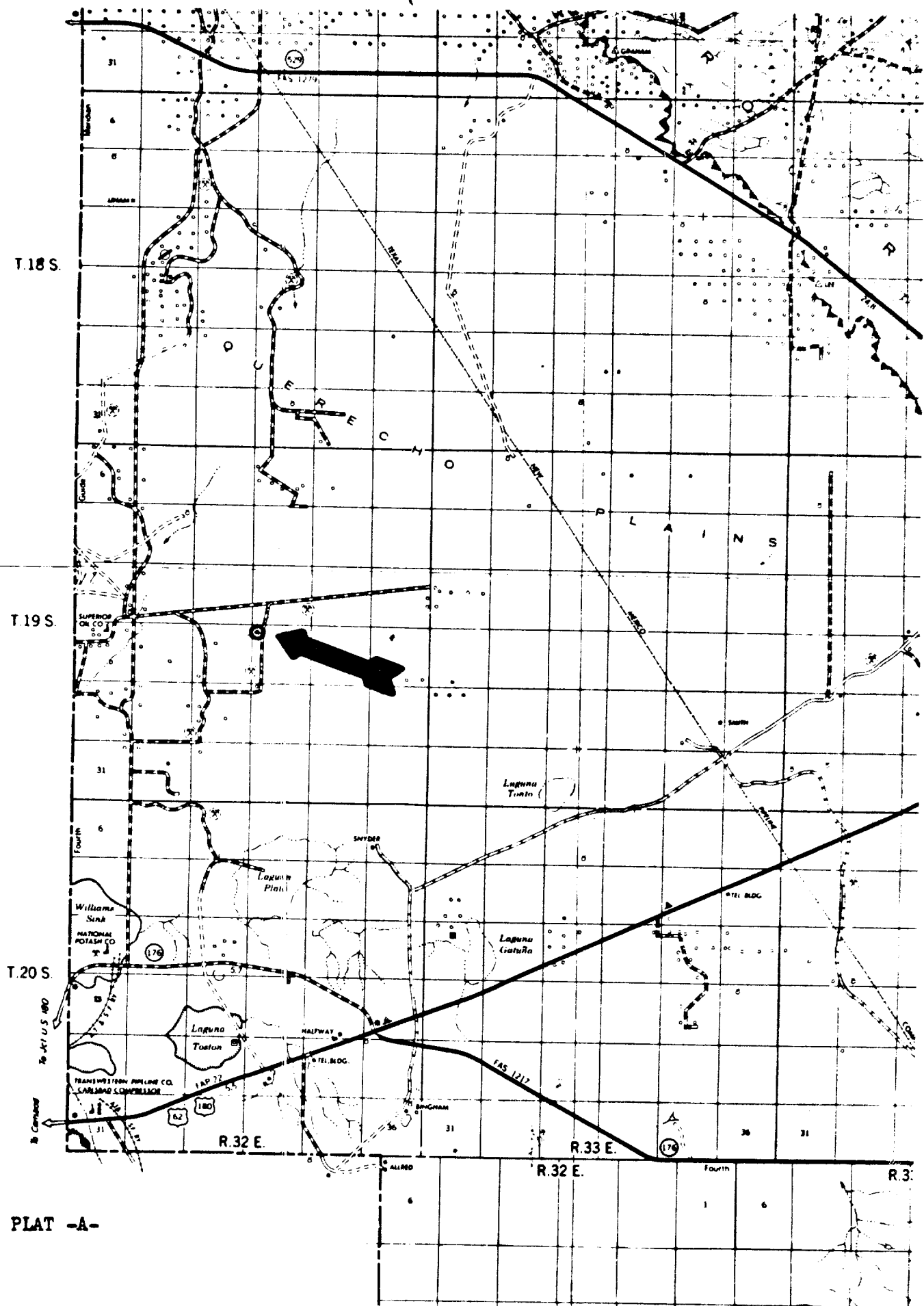
APPROVED BY (Orig. Sgd.) PETER W. CHESTER TITLE ACTING DISTRICT ENGINEER DATE SEP 26 1980  
CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

----- 12 POINT ECOLOGICAL PLAN -----

- (1). Existing Roads : See plats A & C
- (2). Planned Access Roads : See plats A & B
- (3). Location of Wells : 660' FNL & FWL Sec. 22, T19S, R32E
- (4). Lateral Roads to Wells Location : See plats A & B
- (5). Location of Tank Batteries and Flowlines : See plat B
- (6). Locations and Types of Water Supply : Fresh - Purchased from L. Squires  
Brine - Purchased From Steve Carter & Son
- (7). Methods for Handling Water Disposal : I/W Inc. will transport for disposal  
TRASH AND JUNK SHOULD BE  
BURIED IN A SEPARATE TRASH PIT  
AND COVERED WITH 24" OF SOIL
- (8). Location of Camps : None
- (9). Location of Airstrips : None
- (10). Location Layout to Include Position of  
the Rig, Mud Tanks, Reserve Pits, Burn  
Pits, Pipe Racks, etc : See Plat B
- (11). Plans for Restoration of the Surface : Clean location. Level and cover all  
pits.
- (12). Any Other Information Which the Approving  
Official Considers Essential to His  
Assessment of the Impact on the  
Environment : Vegetation - Mesquite & shinrey  
Terrain - Sandy

C  
O  
  
E  
D  
D  
Y

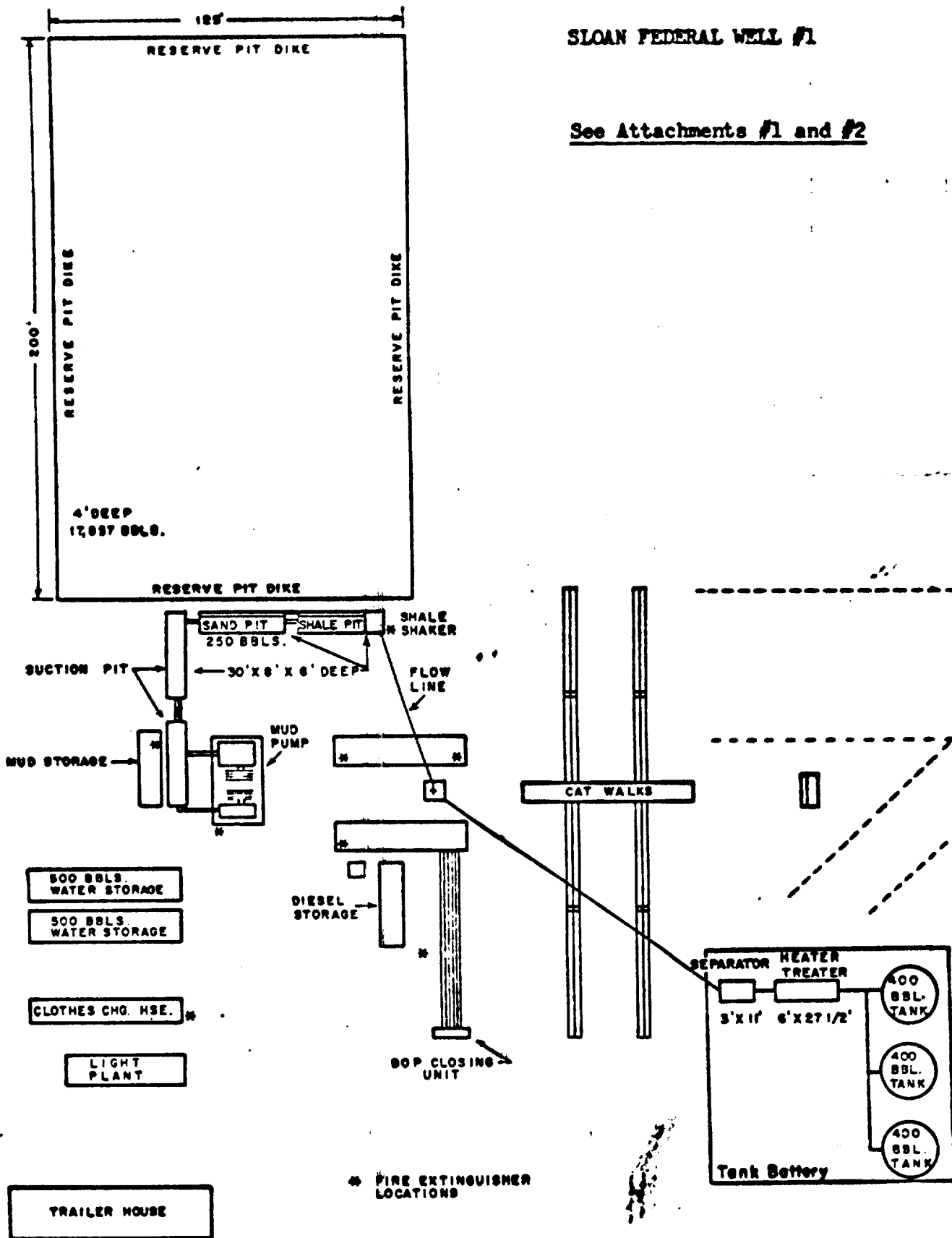


PLAT -A-

# LOCATION LAYOUT - RIG AND BATTERY

SLOAN FEDERAL WELL #1

See Attachments #1 and #2



**MARCUM DRILLING COMPANY**

P. O. BOX 5094

AC 915 393-1888

MIDLAND, TEXAS 79701

The following is an inventory of the major equipment that makes up MARCUM DRILLING COMPANY'S Rotary Rig No. 6.

Drawworks	Brewster N-95, rated to 15,000 feet, with 4-1/2" grade "E" drill pipe. With Automatic Feed Control with 60" Parkerburg brake.
Engines	Two (2) Caterpillar D-379TA, Series B, Diesel, rated at 575 HP each.
Derrick	Lee C. Moore 133 foot, 750,000 pound capacity.
Sub structure	Lee C. Moore 18 foot, 750,000 pound capacity.
Mud pumps	One (1) Emsco F-1000 Triplex, 6-1/4" x 10" One (1) Emsco DA700, 6-1/2" x 16"
Blowout preventer	One (1) Hydril One (1) Cameron Double 10", Type "F" One (1) Cameron QRC 10" One (1) 4" Choke Manifold, 1500 Series, Hydraulic operated
Mud pits	Five (5) steel fabricated with prime mover
Water storage	Two (2) horizontal, skid mounted, 500 barrels each.
Drill pipe	4-1/2" Grade "E"
Drill collars	3 - 9"; 15 - 8"; 30 - 6-1/2"
Lighting system	Conforms to Occupational Safety and Health Act of 1970.
Shale Shaker	Vibrating type
Mud house	8' x 8' x 30' steel