

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Budget Bureau No. 42-R1425.

30-005-60364

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☐GAS
WELL ☒OTHER ☐SINGLE
ZONE ☐MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

MARALO, INC. ✓

3. ADDRESS OF OPERATOR

P. O. Box 832, Midland, Texas 79701

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)

At surface

1980' FNL & 660' FWL, Section 12, T-15-S, R-28-E

At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

15 Miles East of Hagerman, New Mexico

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drlg. line, if any)

4620'

16. NO. OF ACRES IN LEASE

3840

17. NO. OF ACRES ASSIGNED

TO THIS WELL

320

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,

OR APPLIED FOR, ON THIS LEASE, FT.

2640'

19. PROPOSED DEPTH

9500'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

3681.9 GR

22. APPROX. DATE WORK WILL START*

October 24, 1975

23.

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#	440'	425 Sx. Circ.
11"	8-5/8"	24#	2150'	1000 Sx. Circ.
7-7/8"	5-1/2"	17#	9450'	710 Sx.

We plan to drill to the Morrow Formation, and plan to test all
 shows of oil or gas below 2000'. See attached for all other
 information.

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 OCT - 8 1975
 U.S. GEOLOGICAL SURVEY
 ARTESIA, NEW MEXICO

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 conditions and measured and true vertical depths. Give blowout preventer program, if any.

ARTESIA, OFFICE

24.

SIGNED

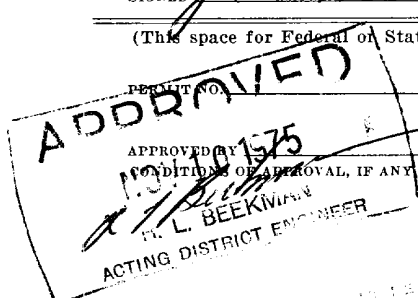
Marina Samu

TITLE Production Clerk

DATE October 3, 1975

(This space for Federal or State office use)

SUBJECT TO ATTACHED DEEP WELL CONTROL
 REQUIREMENTS DATED JUN 22 1973
 TITLE _____ DATE _____



THIS APPROVAL IS REVOKED IF OPERATIONS
 ARE NOT COMMENCED WITHIN 3 MONTHS
 EXPIRES FEB 10 1976
 See Instructions On Reverse Side

WELL LOCATION AND ACREAGE DEDICATION PLAT

Supersedes C-128
Effective 1-1-65

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

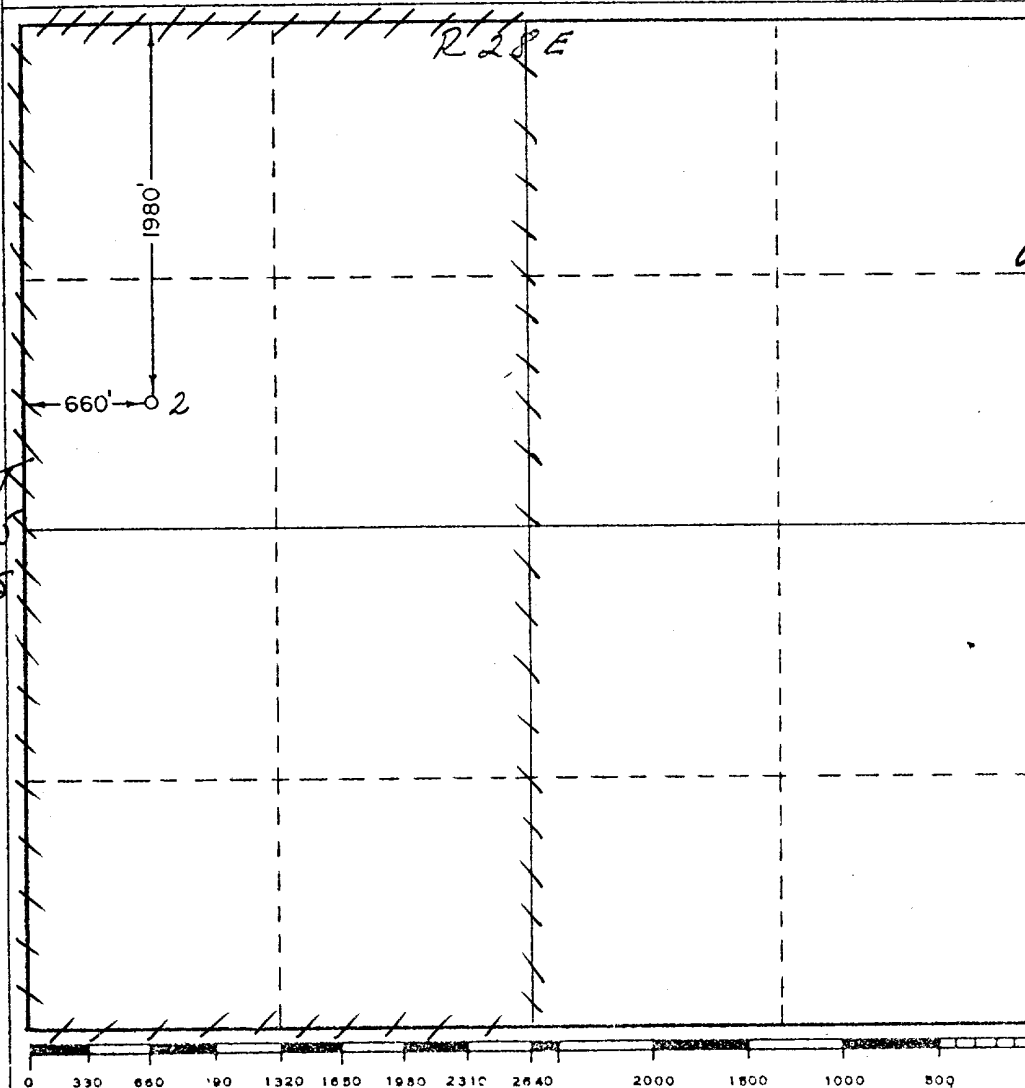
Operator Maralo, Incorporated			Lease Butler Springs Unit		Well No. 2
Unit Letter E	Section 12	Township 15 South	Range 28 East	County Chaves	
Actual Footage Location of Well: 1980 feet from the North line and 660 feet from the West line					
Ground Level Elev. 3681.9	Producing Formation Morrow		Pool Wildcat	Dedicated Acreage: 320 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. 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 Unitization

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 Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Juanima Hamm
Name

Juanima Hamm

Position

Production Clerk

Company

MARALO, INC.

Date

October 3, 1975

OCT - 7 1975

U.S. GEOLOGICAL SURVEY

ARTESIA, NEW MEXICO

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

October 2, 1975

Registered Professional Engineer and/or Land Surveyor

676

JOHN W. WEST

Certification

DEVELOPMENT PLAN FOR SURFACE USE

for the

MARALO, INC.

Butler Springs Unit No. 2

Chaves County, New Mexico

1. The attached map "Area Roads and Locations" shows the existing and proposed roads and locations in the area.
2. The attached drawing "Location Diagram" shows the location layout. The location is in grassland with gravelly soil.
3. Water will be supplied by truck.
4. All waste disposal except drilling fluids will be immediately buried. Drilling fluid wastes will be put into temporary pits which will be filled in later.
5. Mud pits will be stirred and allowed to dry. The pits and location will then be levelled.
6. If the well is a producer, a supplemental location diagram will be furnished showing surface production equipment.

DRILLING ORDERS

Maralo, Inc. #2 Butler Springs - Chaves County, New Mexico
1980 FNL 660 FWL Sec. 12
T-15-S R-28-E
9500' Morrow Test

Casing Program: 13 3/8" @ 440'
8 5/8" @ 2150'
5 1/2" @ 9450'

Mud Program: 0-400' fresh water w/Magcogel & lime type drilling fluid with a 40-60 sec/1000 cc Vis.
400-2150' fresh water using lime for PH control.
2150-7800 salt Gel. & oil, 9.4-10.0/gal. 36-38 sec/1000 cc, 6-8% oil.
7800-9500 oil & salt brine, wt. 9.4-10.0 lbs./gal. 40-50 vis. 10 cc or less water loss.

Drilling Time: One copy of 10' drilling time from surface to T.D.

Samples: 10' samples from 400' to T.D.

Drill Stem Tests: Test all shows from 2300' to T.D. Estimate 4 DST's.

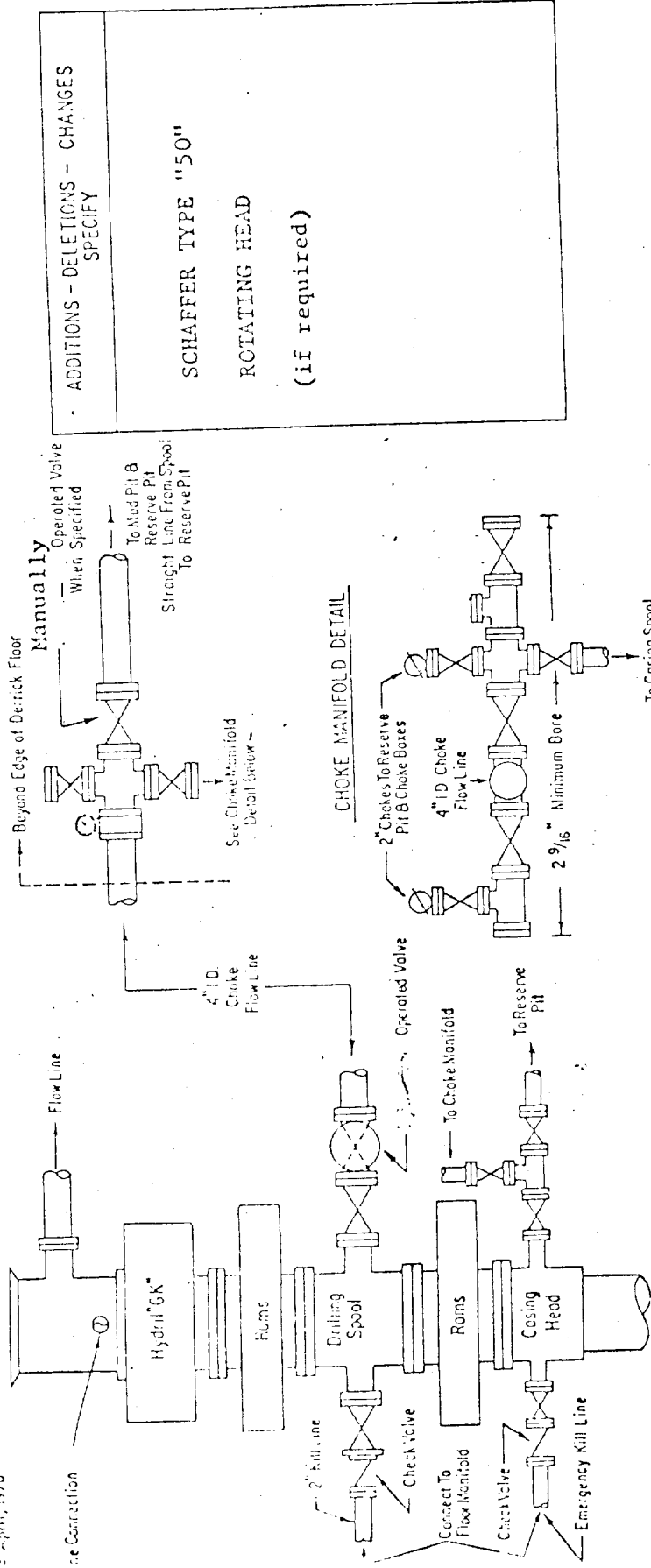
Cores: 3 cores in upper Penn. section from 7850' to 8000'.

Electric Logs: 400' to 2150', before setting intermediate, run compensated neutron-density, and dual laterolog. 2100' to T.D. Compensated neutron-density and dual laterolog micro laterolog. Calculate coriband over selected intervals.

Logging Trailer: Two man logging unit 2150' to T.D.

<u>Geological Supervision:</u>	Bill Thorsen	Home phone	683-5925	Office	684-7441
	Everett Sharp	"	1-713-461-4668	"	1-713-622-5420
	J.D. Swinea	"	694-7988	"	684-7441
	Cecil Evans	"	694-1166	"	684-7441

15 N.O. 3
2 April, 1970



3000 PSI WORKING PRESSURE BLOWOUT PREVENTER HOOK-UP

The blowout preventer assembly shall consist of one blind ram preventer and one pipe ram preventer, both hydraulically operated; a Hydril "GK" preventer; valves, chokes and connections as illustrated. If a tapered drill string is used, a ram preventer must be provided for each size of drill pipe. Casing and tubing rams to fit the preventers are to be available as needed. If correct in size, the flanged outlets of the ram preventer may be used for connecting to the 4-inch I. D. choke flow line and kill line, except when air or gas drilling. The substructure height shall be sufficient to install a rotating blowout preventer.

Minimum operating equipment for the preventers and hydraulically operated valves shall be as follows: (1) Multiple pumps, driven by a continuous source of power, capable of fluid charging the total accumulator volume from the nitrogen precharge pressure to its rated pressure within 30 minutes. Also, the pumps are to be connected to the hydraulic operating system which is to be a closed system. (2) Accumulators with a precharge of nitrogen of not less than 750 PSI and connected so as to receive the aforementioned fluid charge. With the charging pumps shut down, the pressurized fluid volume stored in the accumulators must be sufficient to close all the pressure-operated devices simultaneously within 30 seconds, after closure, the remaining accumulator pressure shall be not less than 1000 PSI with the remaining accumulator fluid volume of at least 50 percent of the original. (3) When required, an additional source of power, remote and equivalent, is to be available to operate the above pumps; or there shall be additional pumps operated by separate power and equal in performance capabilities.

The closing manifold and remote closing manifold shall have a separate control for each pressure-operated device. Controls are to be labeled, with control handles indicating open and closed positions. A pressure reducer and regulator must be provided for operating the Hydril preventer. When requested, a second pressure reducer shall be available to limit operating fluid pressures to ram preventers.

A pressure-reducer and regulator, on equivalent or better, is to be used as the fluid to operate the hydraulic equipment.

The choke manifold, choke flow line, and choke lines are to be supported by metal stands and adequately anchored. The choke flow line and choke lines shall be constructed as straight as possible and without sharp bends. Easy and safe access is to be maintained to the choke manifold. All valves are to be selected for operation in the presence of oil, gas, and drilling fluids. The choke flow line valves connected to the drilling spool and all ram type preventers must be equipped with stem extensions, universal joints if needed, and hand wheels which are to extend beyond the edge of the derrick substructure. All other valves are to be equipped with handles.

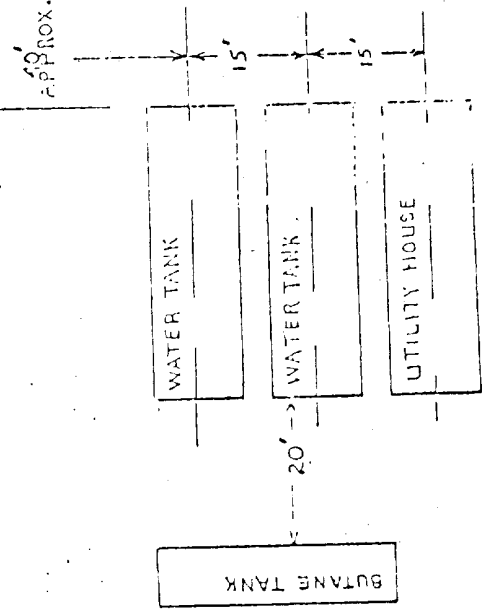
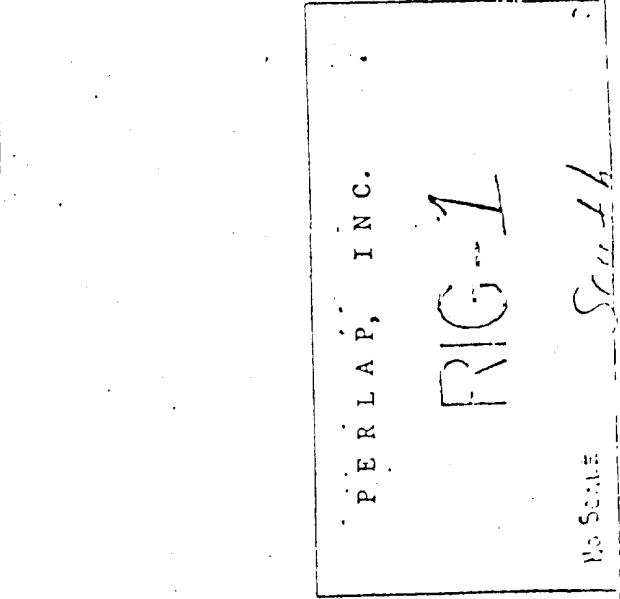
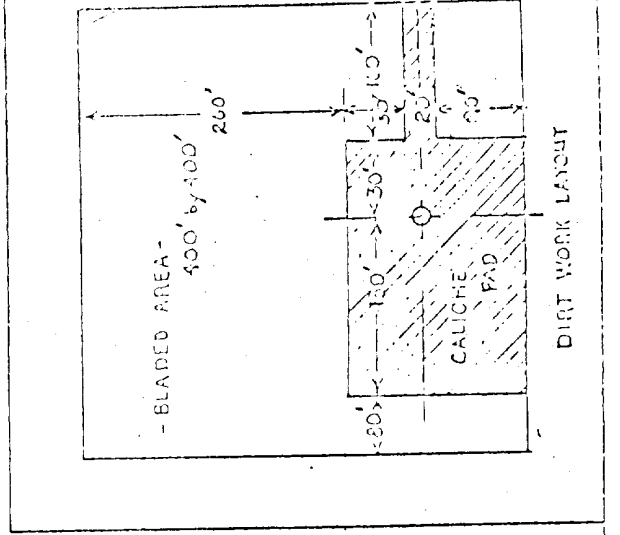
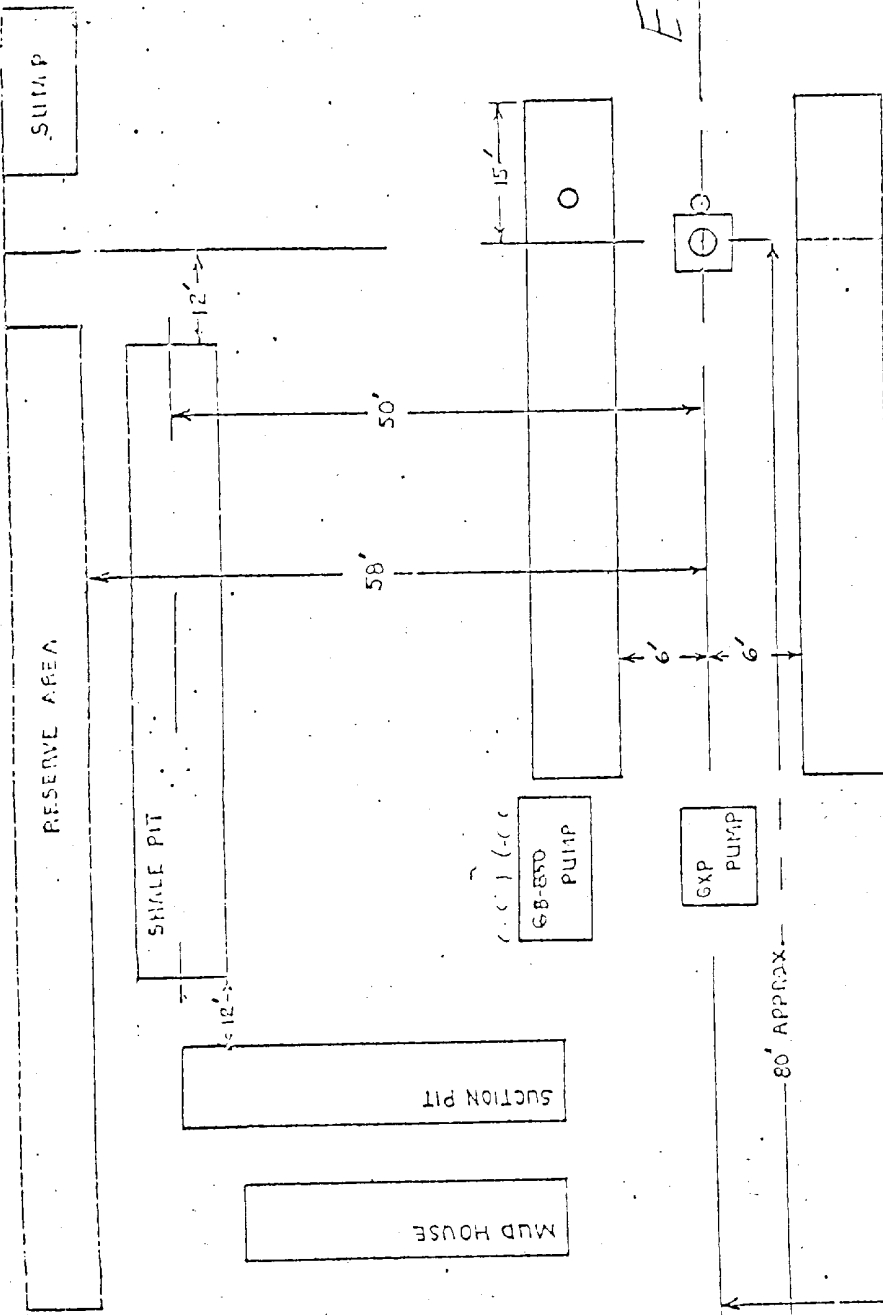
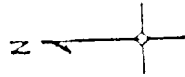
* To include derrick floor mounted controls.

ADDITIONS - DELETIONS - CHANGES
SPECIFY

SCHAFFER TYPE "50"
ROTATING HEAD
(if required)

North

SUBSTRUCTURE HEIGHT: 18'
 RATHOLE: 10' NORTH & 6' EAST
 26' DEEP - 1/2 BUBBLE
 MOUSE HOLE: 4 1/2' EAST & 0' SOUTH
 1/2 BUBBLE 19' DEEP



MARALO, INC.
 Butler Springs Unit - Well No. 2
 Chaves County, New Mexico

