

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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
American Petrofina Company of Texas

3. ADDRESS OF OPERATOR
Box 1311 Big Spring, Texas 79720

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
At surface SE/4, SE/4, (Unit P) Sec. 29, T-32-N, R-9-W,
San Juan, New Mexico
At proposed prod. zone
Same as

5. LEASE DESIGNATION AND SERIAL NO.
30-045-23256
21-078509-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Tank Mountain

9. WELL NO.
1

10. FIELD AND POOL, OR WILDCAT
Blanco Mesaverde

11. SEC., T., R., M., OR BLK.
AND SURVEY OR AREA
29- T32N, R9W

12. COUNTY OR PARISH
San Juan

13. STATE
New Mexico

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
5 miles East of Cedar Hill

15. DISTANCE FROM PROPOSED*
LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. line, if any) 990' FEL 990" FSL

16. NO. OF ACRES IN LEASE
320

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.
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19. PROPOSED DEPTH
6224

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
+6807 (GR)

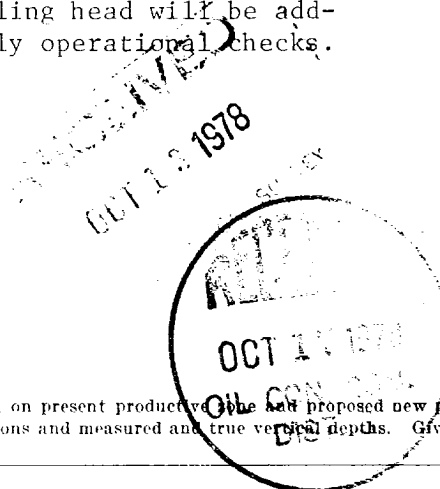
22. APPROX. DATE WORK WILL START*
December 1, 1978

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
13 3/4	9 5/8	32.0	200	180 sacks
8 3/4	7	20	3990	260 sacks (364 cu. ft.)
6 1/4	4 1/2	10.5	6224	270 sacks

Double ram hydraulic BOP, with 3000 PSI working pressure, will be used below surface. Below intermediate casing- a drilling head will be added. Tests will be made at casing points with daily operational checks.

gas is dedicated



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 J.C. Chapman J.C. Chapman TITLE Asst. Dist. Mgr. of Prod. DATE 10-10-78

(This space for Federal or State office use)

PERMIT NO. APPROVAL DATE

APPROVED BY TITLE DATE

CONDITIONS OF APPROVAL, IF ANY:

ok Frank

*See Instructions On Reverse Side

NMacc

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

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

All distances must be from the outer boundaries of the Section

Owner American Petrofina Company of Texas			Lease Tank Mountain		Well No. 1
Unit Letter P	Section 29	Township T-32-N	Range R-9-W	County San Juan	
Actual Footage Location of Well: 990 feet from E 990 feet from S					
Ground Level Elev. + 6807	Point Lookout Point Lookout	Blanco Mesaverde		Section Acres 320	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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 _____

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.

J. C. Chapman

Name

Asst. Dist. Mgr. of Prod.

Address

American Petrofina Co. of
Texas

10-10-78

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.

Name (Surveyor)

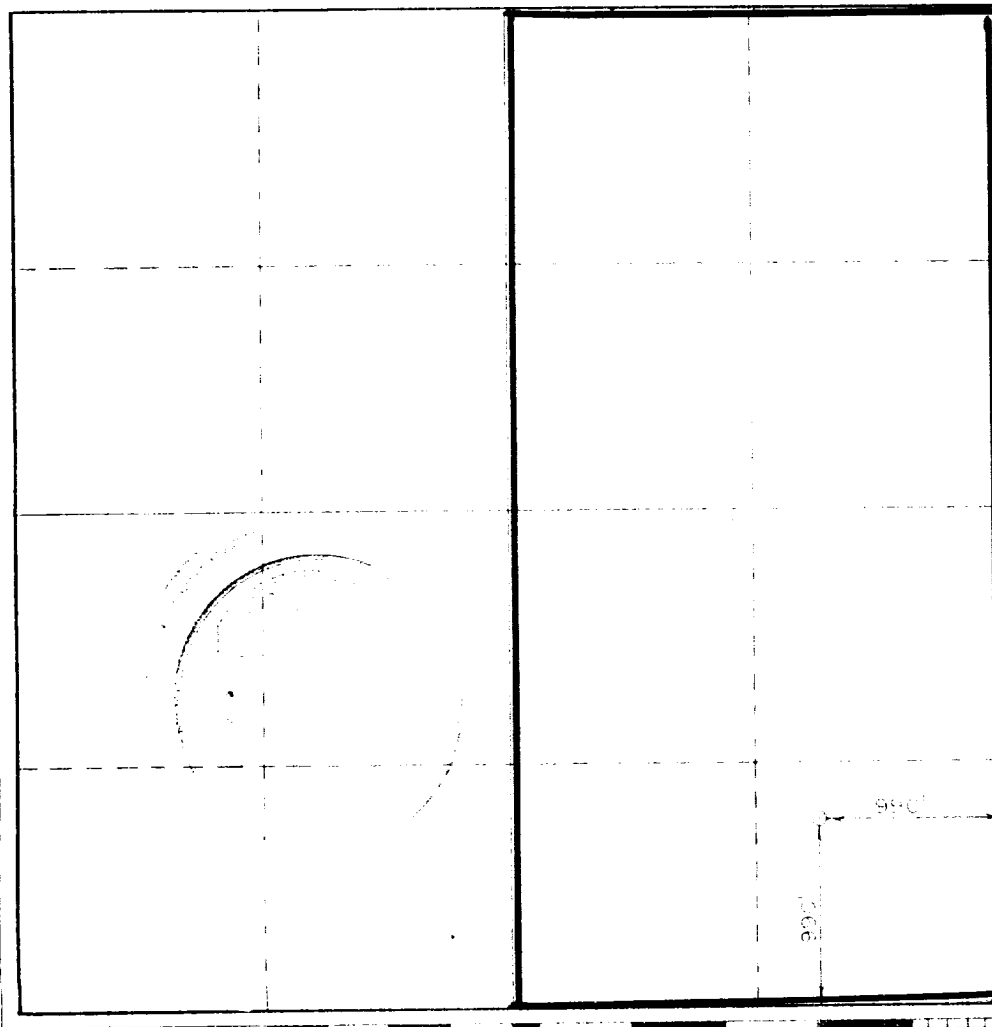
San Juan Engineering Co.

Registered Professional Engineer
and Licensed Surveyor

Michael Kelly

Date (this day)

5997



330 660 990 1320 1650 1980 2310 2640 2970 3300



AMERICAN PETROFINA COMPANY OF TEXAS

POST OFFICE BOX 13111 • BIG SPRING, TEXAS

October 10, 1978

915 ~~263~~ - 263-1391

American Petrofina Company of Texas
Multi-Point Surface Use Plan
Tank Mountain No. 1
29-T32N-R9W

1. Existing Road

Please refer to Map No. 1 which shows the existing roads. New roads which will be required have been marked on this map. All existing and new roads will be properly maintained during the duration of this project.

2. Planned Access Roads

Please refer to Map No. 1. The grade of the access roads will be consistent with that of the local terrain. The road surface will not exceed twenty feet (20') in width. Upon completion of the project, the access road will be adequately drained to control soil erosion. Drainage facilities may include ditches, water bars, culverts or any other measure deemed necessary by trained Company personnel to insure proper drainage. Gates and/or cattleguards will be installed if necessary.

3. Location of Existing Wells - Please refer to Map No. 2.

4. Location of Tank Batteries, Production Facilities, and Production Gathering and Service Lines

Please refer to Map No. 2. Map No. 2 shows proposed production facilities and gas gathering lines. Fences will be provided to protect livestock and wildlife.

5. Location and Type of Water Supply

Water for the proposed project will be obtained from an approved water well or will be hauled by truck from the nearest approved water supply.

6. Source of Construction Materials

No additional materials will be required to build either the access road or the proposed location.

7. Methods of Handling Waste Materials

All garbage and trash material will be put into a burn pit shown on the attached Location Plat No. 1. When clean-up operations are begun on the proposed project, the burn pit with its refuse will be buried to a depth of at least three feet (3'). A latrine, the location of which is also shown on Plat No. 1 will be provided for human waste. If large amounts of liquids are left in the reserve pit after completion of the project, the pit will be fenced until the liquids have had adequate time to dry. The location clean-up will not take place until such time as the reserve pit can be properly covered over to prevent run-off from carrying any of these materials into the watershed. No earthen pit will be located on natural drainages; all earthen pits will be so constructed as to prevent leakage from occurring.

8. Ancillary Facilities

No camps or airstrips will be associated with this project.

9. Wellsite Layout

Please refer to the attached Plat No. 1.

10. Plans for Restoration of the Surface

After completion of the proposed project, the location will be cleaned and leveled. The location will be left in such a condition that will enable reseeding operations to be carried out. Seed mixture as designated by the responsible government agency will be used. The reseeding operation will be performed during the time period set forth by the regulatory body. The location production equipment will be painted as designated by the responsible government agency.

11. Other Information

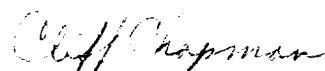
The terrain is rolling hills with cedar growing. No other surface use known.

12. Operator's Representative

Lonnie Cunningham, 103 N. Main, Aztec, New Mexico 87410

13. Cerfitication

I hereby certify that I, or persons under my 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 American Petrofina Company of Texas and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.



Cliff Chapman
Assistant District Manager of Production

Operations Plan
Tank Mountain No. 1

- I. Location: 990' FSL and 990' FEL, Sec. 29, T-32-N, R-9-W, San Juan County, New Mexico.
Field: Blanco Mesa Verda
Elevation: +6807

II. Geology

A. Formation Tops:

Ojo Alamo	2400	(+4407)
Fruitland	3257	(+3550)
Picture Cliffs	3684	(+3123)
Cliff House	5620	(+1187)
Menofee	5682	(+1125)
Point Lookout	5987	(+ 820)
Moncos	6114	(+ 693)
T. D.	6224	(+ 583)

- B. Logging Program: GR-Induction, GR-Density

- C. Coring Program: None

- D. Testing: Natural gauges at 5620, 5980, and any noticeable increase in gas. All gauges to be recorded in daily drilling report.

III. Drilling

- A. Mud Program: Mud from surface to 3900 \pm and gas or air to total depth.

IV. Materials

A. Casing Program:

Hole Size	Depth	Casing Size	Wt. and Grade
13 3/4	200	9 5/8	32.0 lb H-40
8 3/4	3990	7"	20.0 lb K-55
6 1/4	3850-6224	4 1/2	10.5 lb K-55

B. Casing Equipment:

- 9 5/8" surface casing - Halliburton Type "M" guide shoe.
- 7" intermediate casing - Halliburton insert float valve, regular guide shoe, and two Model S-3 centralizers.
- 4 1/2" liner - Liner hanger using two plugs and double valve guide shoe.

C. Tubing:

- 6000 ft. 2 1/16", 3.25 lb., J-55, 1J, tubing.

D. Wellhead Equipment:

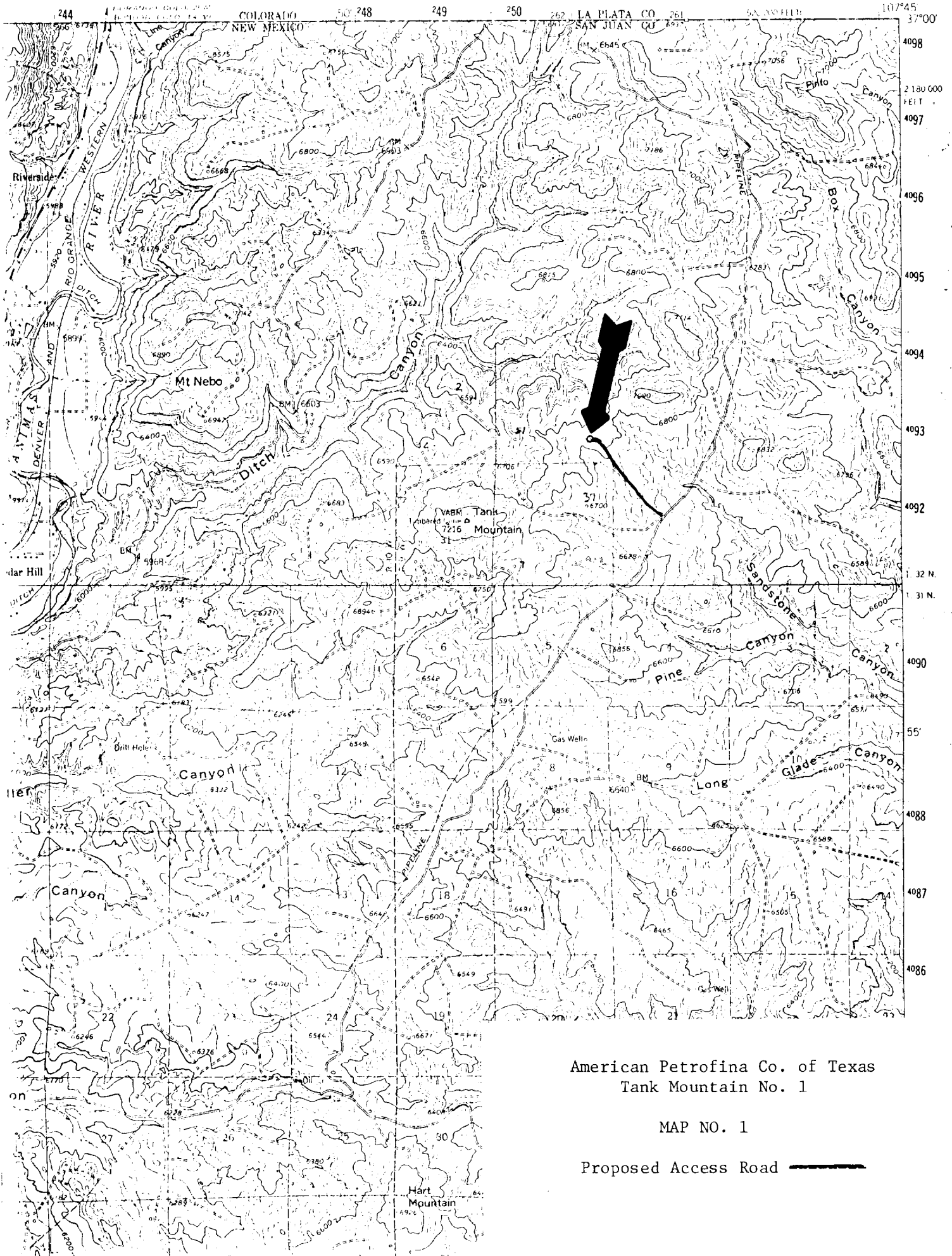
- 10" 900 x 9 5/8" casing head.
- 6" 900 x 10" 900 tubing head.

V. Cementing

9 5/8" surface casing - 180 sacks of Class "B" cement w/ 1/4" Flocele per sack, 2% CaC/2 (210 cu. ft. slurry or 100% excess annular volume). WOC 12 hours. Test casing to 600 PSI for 30 minutes.


7" intermediate casing - 160 sacks of Halliburton "Light" cement followed with 100 sx Class "B" plus 2% CaC/2 (total slurry 364 cubic feet - annular volume plus 50% excess to cover Ojo Alamo). Temperature survey to be run in eight hours. WOC 12 hours. Test casing to 1200 PSI/30 minutes.

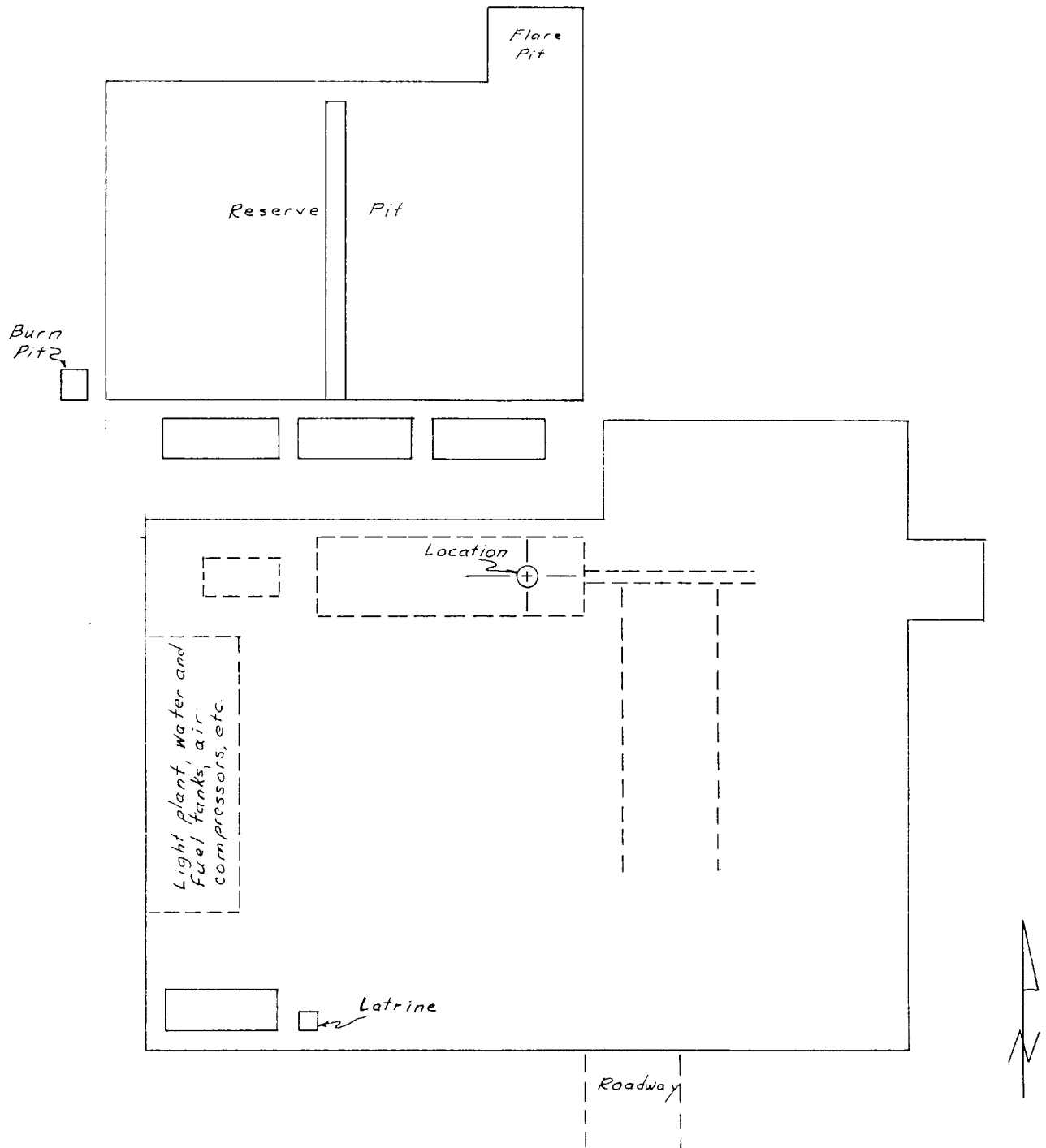
4 1/2" liner - 275 sacks of 50:50 Class "B" Pozmix cement, 2% gel., 15% Halad-9, 5# gilsonite per sack (345 cubic feet of slurry - 50% excess of annular volume) WOC 24 hours.



American Petrofina Co. of Texas
Tank Mountain No. 1

MAP NO. 1

Proposed Access Road 



Dimensions and layout may vary slightly - depending on rig available.

Plat No 1