

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

30-039-21534
5. LEASE DESIGNATION AND SERIAL NO.

NM 03553
6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Breech D

9. WELL NO.

346

10. FIELD AND POOL OR WILDCAT
Basin Dakota

11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA

Sec. 22 26N 6W

12. COUNTY OR PARISH 13. STATE

Rio Arriba New Mex.

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
Caulkins Oil Company

3. ADDRESS OF OPERATOR
Post Office Box 780, Farmington, New Mexico

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface
A 900' from the North and 900' from the East
At proposed prod. zone
Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
35 miles Southeast of Blanco, New Mexico

10. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
900

16. NO. OF ACRES IN LEASE
1920

17. NO. OF ACRES ASSIGNED TO THIS WELL
320 160

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
1000

19. PROPOSED DEPTH
7750

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
6689 Gr.

22. APPROX. DATE WORK WILL START*
March 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"	36#	300	Sufficient to circulate
7 7/8"	5 1/2"	15.5 & 17	7750	1700 sacks

Surface formation San Jose. No abnormal pressure or temperature anticipated. It is proposed to drill well to 7750 using 9# + Gel based mud. Float will be run in drill pipe at Bit. ES Ind., Density and Caliper logs will be run in open hole.

New 5 1/2" 15.5 and 17# pipe will be cemented at TD with sufficient cement to circulate to surface. Pipe will be cemented in 3 stages with stage collars set at base of Point Lookout and base of Pictured Cliffs. Casing will have rotating scratchers over Dakota, Mesa Verde, Chacra and Pictured Cliffs zones. Centralizers and cement baskets will also be used thru pay zones.

A Shaffer 10" Model LWP, 6000# test blowout preventor will be used at all times while drilling and cementing. Blowout preventor will be tested once each day.

If logs indicate possible commercial production from Chacra zone, well will be dual completed with packer set on tubing between zones.

Dakota and Chacra zones will be fractured to stimulate production.
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 preventor program, if any.

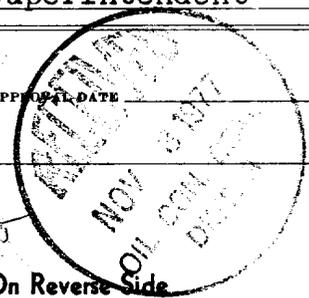
24. *Gas is identified*
SIGNED *Charles E. Casper* TITLE Superintendent DATE Oct. 26, 1977

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY *Okal* TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:



NEW MEXICO OIL CONSERVATION COMMISSION
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

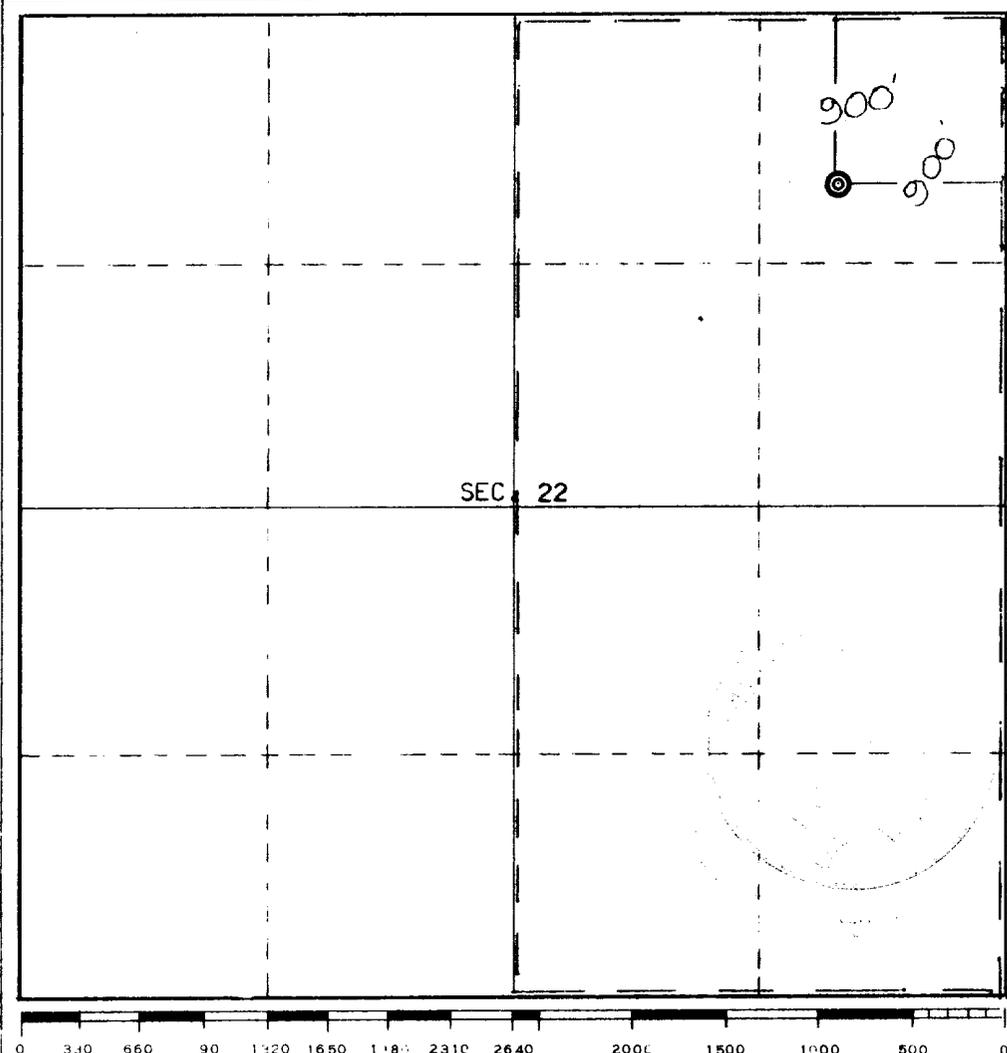
Lessor Caulkins Oil Company		Lease NM 03553		Well No. 346	
Section A	Township 22	Range 26 North	Meridian 6 West	County Rio Arriba	
Actual Point Location of Well:					
900 feet from the North line and		900 feet from the East line			
Or and Level Elev. 6689	Formation Dakota	Pool Basin Dakota	Dedicated acreage: 320 Acres		

- 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).
- 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.

Name
Michael E. E. E. E.
Position
Superintendent
Company
Caulkins Oil Company
Date
Oct. 26, 1977

REGISTERED LAND SURVEYOR
STATE OF NEW MEXICO
Reg. No. **3602**
ERNEST V. ECHOHAWK

Date Surveyed
October 18, 1977
Registered Professional Engineer and/or Land Surveyor
E. V. Echohawk
Certificate No. **3602**
E.V. Echohawk LS

CAULKINS OIL CO.

Post Office Box 780
Farmington, New Mexico 87401

Date Oct. 26, 1977

United States Dept. of the Interior
Geological Survey
Post Office Box 1809
Durango, Colorado 81301

Gentlemen:

Following is our multi-point development plan for surface use and restoration for our well No. 346, located in NE $\frac{1}{4}$ of Section 22, 26 North, 6 West, Rio Arriba County, New Mexico.

- (1) (3) Existing roads and wells in area shown on Topo Map.
- (2) 600' of New road will be required for this location. Road will be no wider than 20'. One water bar will be installed on slope.
- (4) A 210 bbl. stock tank and water, oil and gas separator will be set on location approx. 100' from well. Oil produced will be hauled as needed to pipeline delivery tank located in NW $\frac{1}{4}$ of Section 9, 26 North 6West, Rio Arriba County, New Mexico. Gas Company of New Mexico will purchase gas and furnish all facilities downstream of oil, water and gas separator. A pit 12' X 12' X 4' will be built next to sparator and tank, then fire-wall will be built around tank, pit and separator. Fence will be built outside of firewall. Note: Permission for unlined pit will be requested after well completed and daily water production determined.
- (5) Water will be hauled from Caulkins Oil Company water well No. 130, located in NW $\frac{1}{4}$ of Section 9 26N 6W, Rio Arriba County, New Mexico. Water well identified on topo map with red circle. Roads used to transport water also marked in red.
- (6)(8) No camp or construction materials needed for roads or location.
- (9) Layout plat for location and reserve pit attached. Location lays on 4% slope. A 4' cut on Southside of location will be required to build location. Reserve pit will be built from earth materials, banks will be packed by tractor. Reserve pit will not be lined.
- (10) All disturbed area will be cleaned up then reseeded with 2 1/2# Crested Wheatgrass, 2 1/2# Smooth Brome, 1/2# Fourwing Saltbrush (dewinged) and 1# Nomad Alfalfa per acre. Reseeded area will include all location and reserve pit area to within 5' of all facilities. Seeding shall be done between July 15 and October 15. All facilities maintained by Caulkins Oil Company shall be painted Green, number 34127.

(11) New location will be 600' from existing road. Vegetation on area to be disturbed for roads and location is sage brush and Blue Gamma

(12) Operator's representative:

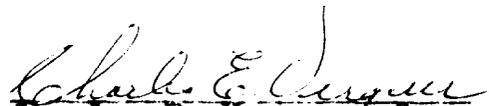
Charles E. Verquer, Supt.
Post Office Box 780
Farmington, New Mexico 87401

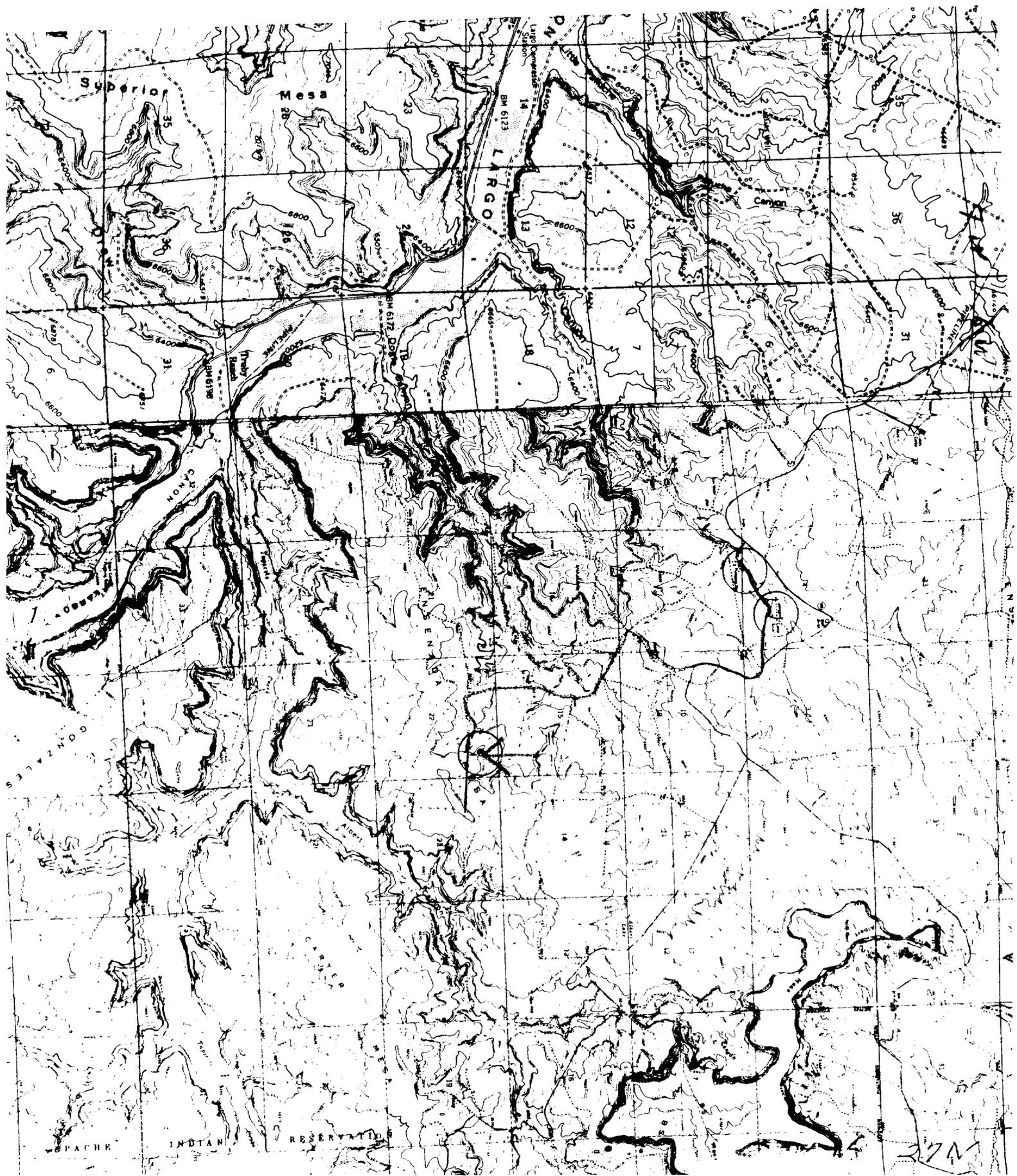
Phone: 325 0481

(13) Certification:

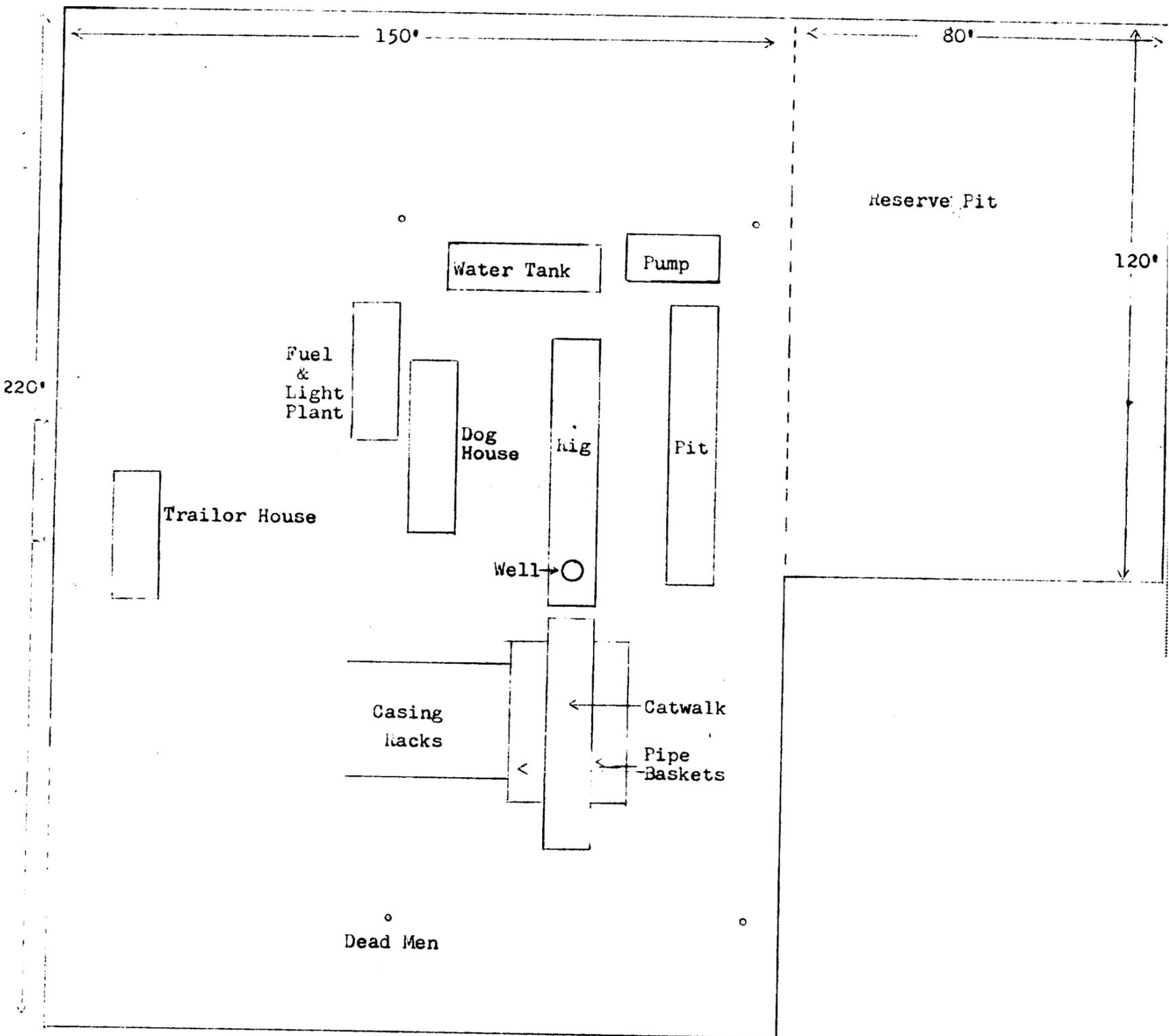
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed will be performed by CAULKINS OIL COMPANY and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

Oct. 26, 1977
Date


Charles E. Verquer, Supt.
Caulkins Oil Company



NORTH



Scale - 1 inch = 25'

Well Number 346

NE NE Section 22 26N 6W

Rio Arriba County, New Mexico