

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

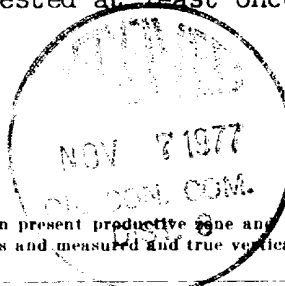
1. TYPE OF WORK DRILL <input type="checkbox"/> DEEPEN <input checked="" type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. N M 03552
2. NAME OF OPERATOR Caulkins Oil Company		6. IF INDIAN, ALLOTTEE OR TRIBAL NAME
3. ADDRESS OF OPERATOR P.O. Box 340, Bloomfield, New Mexico		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 880 990 from the North and 990 from the East West		8. FARM OR LEASE NAME Reuter
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 33 miles Southeast of Blanco, New Mexico		9. WELL NO. 343
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drg. unit line, if any) 990		10. FIELD AND POOL, OR SUBSTRAT South Blanco Pictured Cliffs
16. NO. OF ACRES IN LEASE 320		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 22 26N 6W
17. NO. OF ACRES ASSIGNED TO THIS WELL 160		12. COUNTY OR PARISH Chaves
18. DISTANCE FROM PROPOSED* LOCATION TO NEAREST WELL, DRILLING COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 1000		13. STATE N.M.
19. PROPOSED DEPTH 4020		20. ROTARY OR CABLE TOOLS Rotary
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 6655 Gr.		22. APPROX. DATE WORK WILL START* 5-1-78

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
6 1/8"	4 1/2"	10.5	4020	Sufficient to tie in liner to 7" by caliper survey

Present Condition:

TD- 3105'. 7" 20# H-40 casing cemented at 2975' with 200 sacks. Well now producing to pipeline from Pictured Cliffs zone at average daily rate 100 MCFPD. It is proposed to deepen well to Chacra zone at approx 4020. Then run 4 1/2" liner from 2800' to TD and cement TD to liner hanger. Perforate and frac both zones to stimulate production. It is proposed to commingle production from Chacra and Pictured Cliffs in wellbore subject to approval by New Mexico Oil Conservation Commission. 1" Nu 10rd thd V-55 tubing will be run to Chacra perforations. A shaffer 8" model LWP, 6000# test, 3000# wp Blowout preventor will be in use at all times while drilling below 2975'. Blowout preventor will be tested at least once during each day.



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** *Charles E. Dwyer* **TITLE** Superintendent **DATE** 10-28-77
(This space for Federal or State office use)

PERMIT NO. **APPROVAL DATE**

APPROVED BY **TITLE** **DATE**
CONDITIONS OF APPROVAL, IF ANY:

OK

*See Instructions On Reverse Side

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. 343, located in NW $\frac{1}{4}$ of Section 22, North, West, Rio Arriba County, New Mexico.

(1) (3) Existing roads and wells in area shown on Topo Map.

(2) No new roads. (Deepen old well)

(4) No tank battery or production facilities required. Note: Gas Company of New Mexico as purchaser of Gas will apply for permit for pipelines and production equipment.

(5) Water will be hauled from Caulkins Oil Company well No. 130, located in NW $\frac{1}{4}$ of Section 9, 26 North, 6 West, Rio Arriba County, New Mexico. Water well identified on Topo Map with red Circle. Roads used to transport water also marked in red.

(6) No construction materials needed for roads or location.

(7) All cuttings, trash, garbage and etc. will be confined to reserve pit and small fenced pit on location. After rig is moved out, area will be cleaned up, small pit covered and reserve pit fenced until fluid in pit evaporates. Reserve pit will be covered as soon as it dries sufficiently to proceed without damage to outside surface area.

(8) No Camp required.

(9) Layout plat for location and reserve pit attached. Location lays on No slope. A No cut on side 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 BLM recommended seeding program, 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 Oct. 15. All facilities maintained by Caulkins Oil Company shall be painted Grey, Number 36357.

(11) New location will be on ~~from~~ existing road. Vegetation on area to be disturbed for roads and location is

None

(12) Operator's representative:

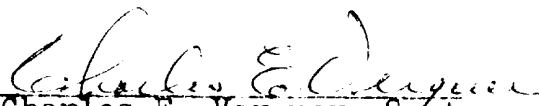
Charles E. Verquer, Supt.
Post Office Box 780
Farmington, New Mexico 87401

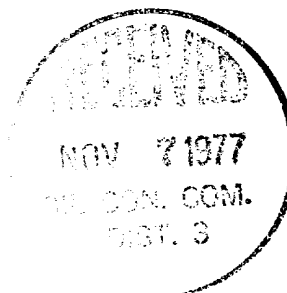
Phone: 325 0481

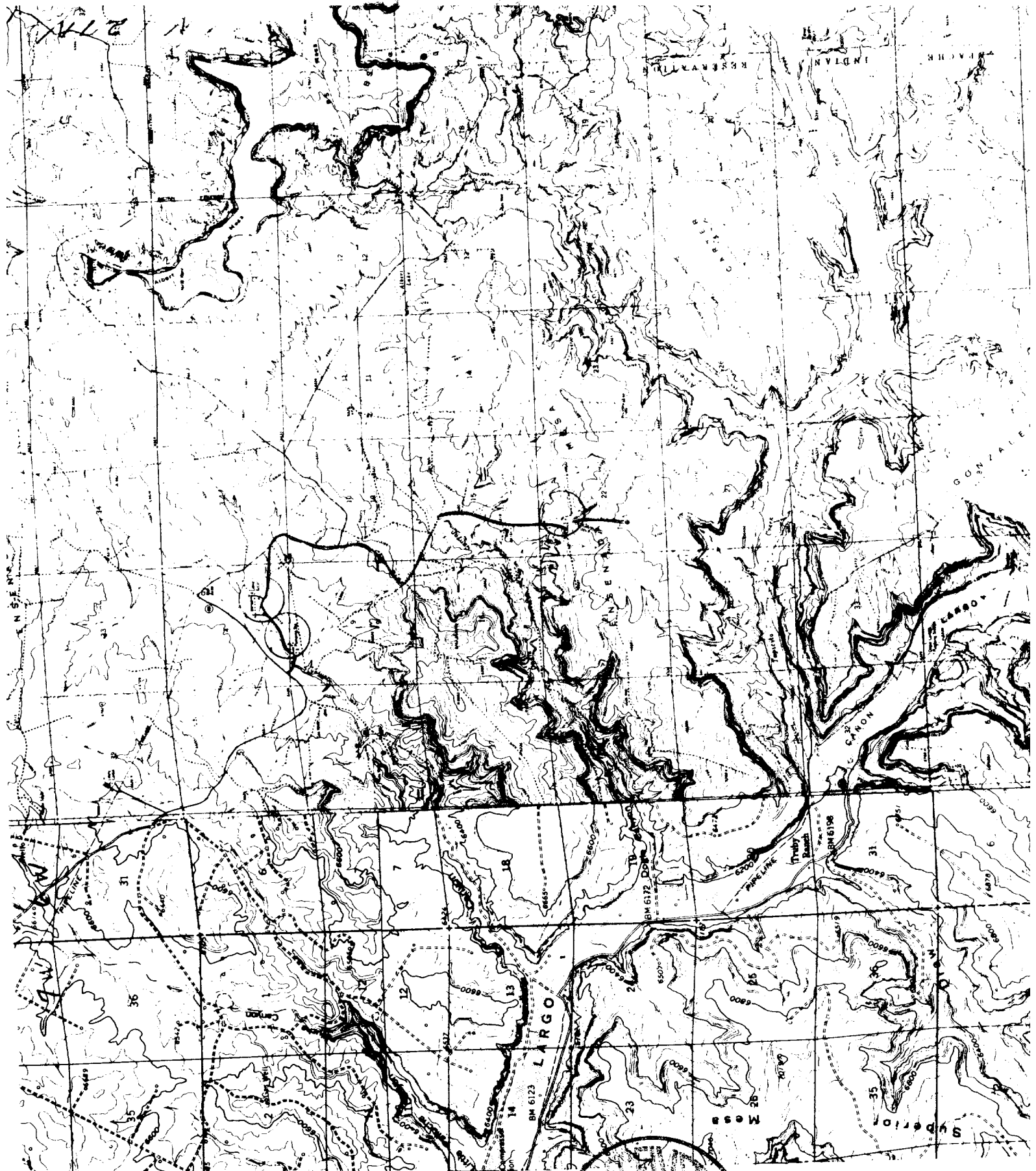
(13) Certification:

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

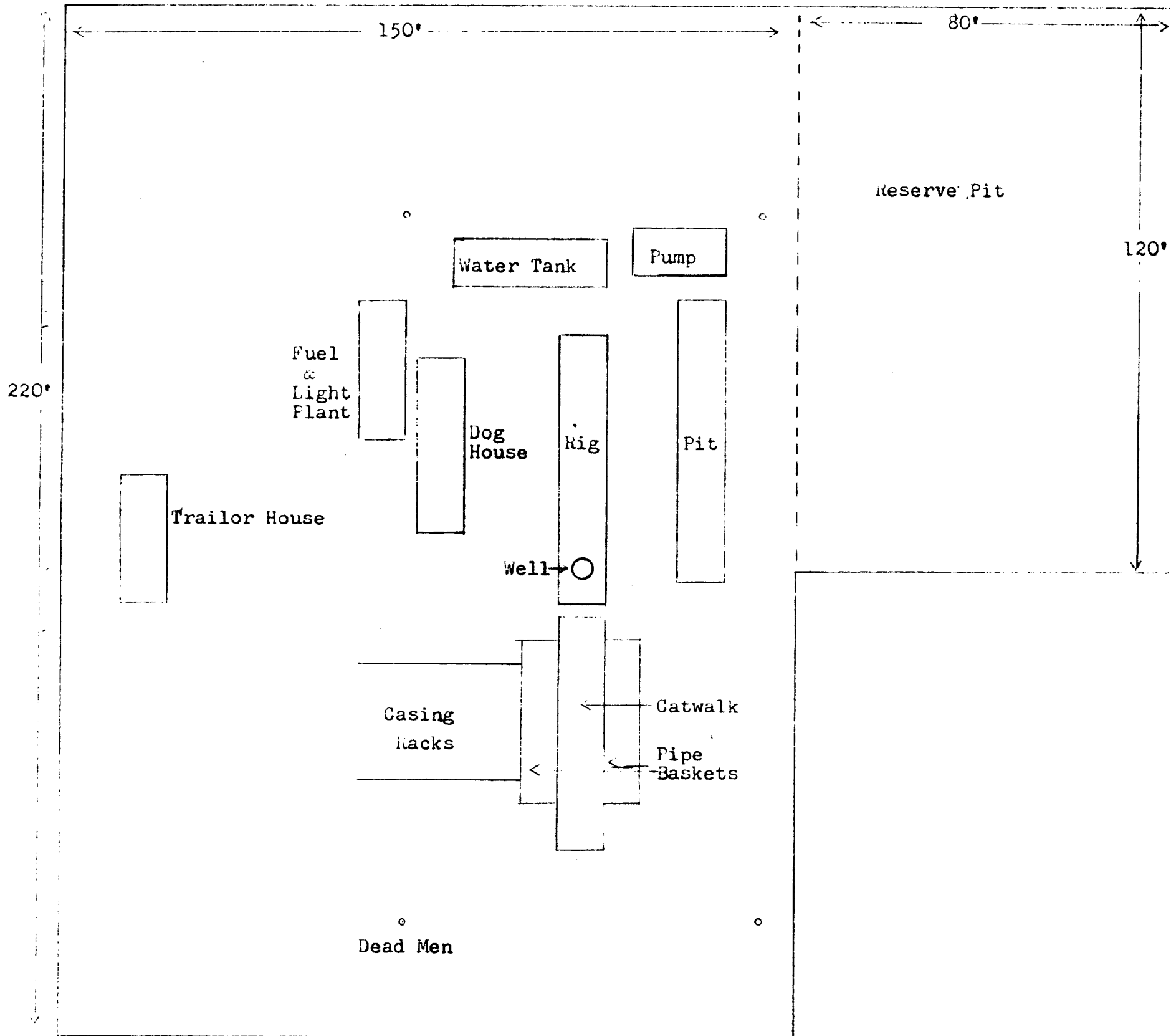
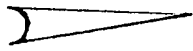

Charles E. Verquer, Supt.
Caulkins Oil Company





NOV 2 1977
FALCON, CALIF.
00003

NORTH



Scale - 1 inch = 25'

Well Number 343

NE NW Section 22 26N 6W

Rio Arriba County, New Mexico

