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NEW MEXICO OIL CONSERVATION COMMISSION

Form C-101
Revised 1-1-65

SA. Indicate Type of Lease

STATE

FCC

5. State Oil & Gas Lease No.

R-1216

7. Unit Agreement Name

SWING

8. Form of Lease Name

SWING

9. Well No.

246

10. Field and Pool, or WLLC#

El Capitan Field

12. County

SOCORRO

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work

b. Type of Well DRILL DEEPEN PLUG BACK

OIL WELL GAS WELL OTHER

SINGLE ZONE

MULTIPLE ZONE

11. Name of Operator

TEXAS CO. OIL COMPANY

13. Address of Operator

PO BOX 1041, MEXICO CITY, TEXAS

14. Location of Well

UNIT LETTER

N LOCATED 400 FEET FROM THE 300 FT LINE

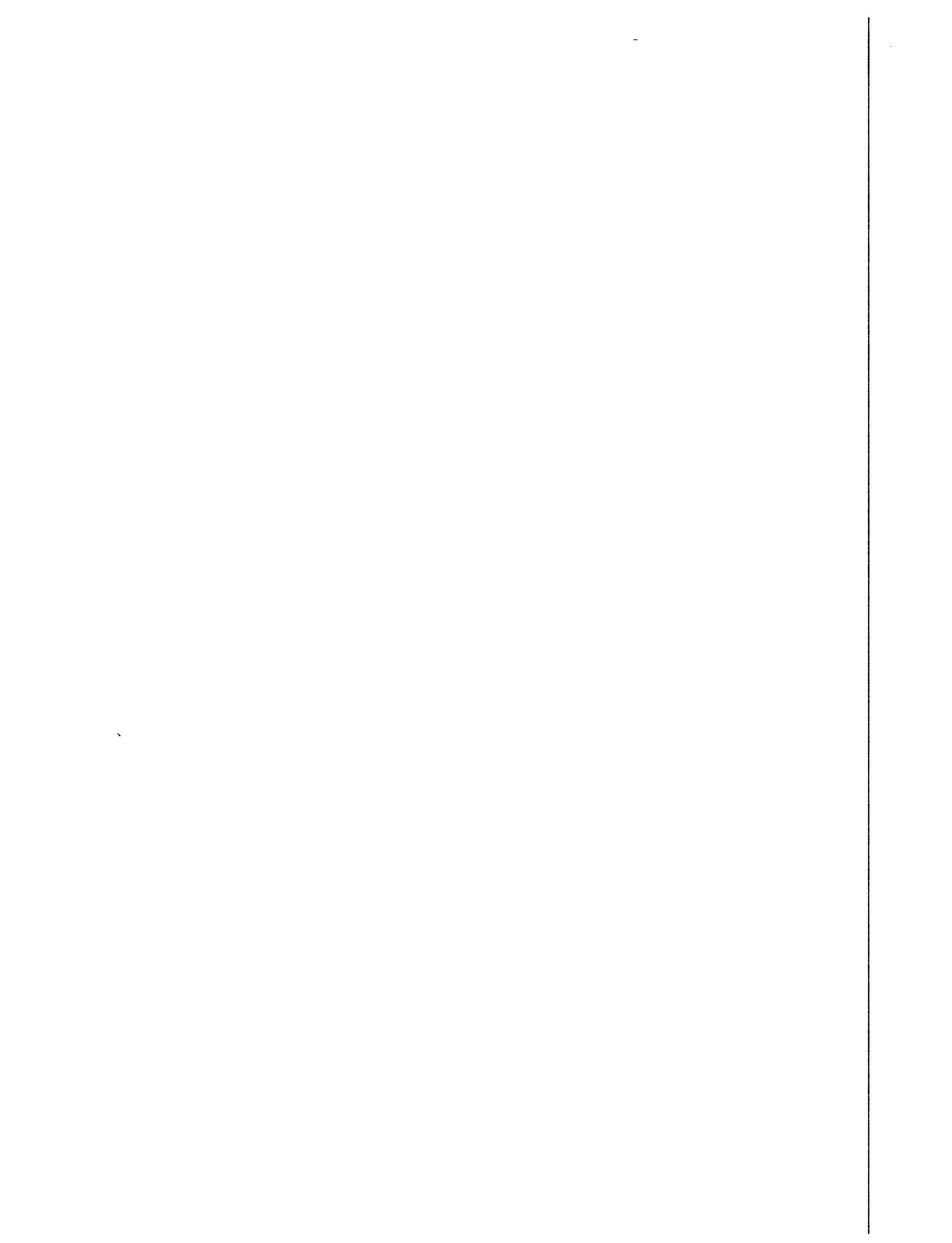
FEET FROM THE 300 FT LINE

FEET FROM THE 300 FT LINE OF SEC. 31

LIN. OF SEC. 31

TWP. 17S RSE. 31W

15. Proposed Depth 2700 3000 3300 3600 3900 4200 4500 4800 5100 5400 5700 6000 6300 6600 6900 7200 7500 7800 8100 8400 8700 9000 9300 9600 9900 10200 10500 10800 11100 11400 11700 12000 12300 12600 12900 13200 13500 13800 14100 14400 14700 15000 15300 15600 15900 16200 16500 16800 17100 17400 17700 18000 18300 18600 18900 19200 19500 19800 20100 20400 20700 21000 21300 21600 21900 22200 22500 22800 23100 23400 23700 24000 24300 24600 24900 25200 25500 25800 26100 26400 26700 27000 27300 27600 27900 28200 28500 28800 29100 29400 29700 30000 30300 30600 30900 31200 31500 31800 32100 32400 32700 33000 33300 33600 33900 34200 34500 34800 35100 35400 35700 36000 36300 36600 36900 37200 37500 37800 38100 38400 38700 39000 39300 39600 39900 40200 40500 40800 41100 41400 41700 42000 42300 42600 42900 43200 43500 43800 44100 44400 44700 45000 45300 45600 45900 46200 46500 46800 47100 47400 47700 48000 48300 48600 48900 49200 49500 49800 50100 50400 50700 51000 51300 51600 51900 52200 52500 52800 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231300 231600 231900 232200 232500 232800 23



**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.

Operator TENNECO OIL COMPANY			Lease STATE "I"	Well No. 24
Unit Letter N	Section 21	Township 17 SOUTH	Range 29 EAST	County EDDY
Actual Footage Location of Well: 460 feet from the SOUTH line and 1980 feet from the WEST line				
Ground Level Elev: 5A	Producing Formation	Pool <i>Elmer Jackson</i>	Dedicated Acreage: 40	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 communization, unitization, force-pooling, etc?

R E C E I V E D

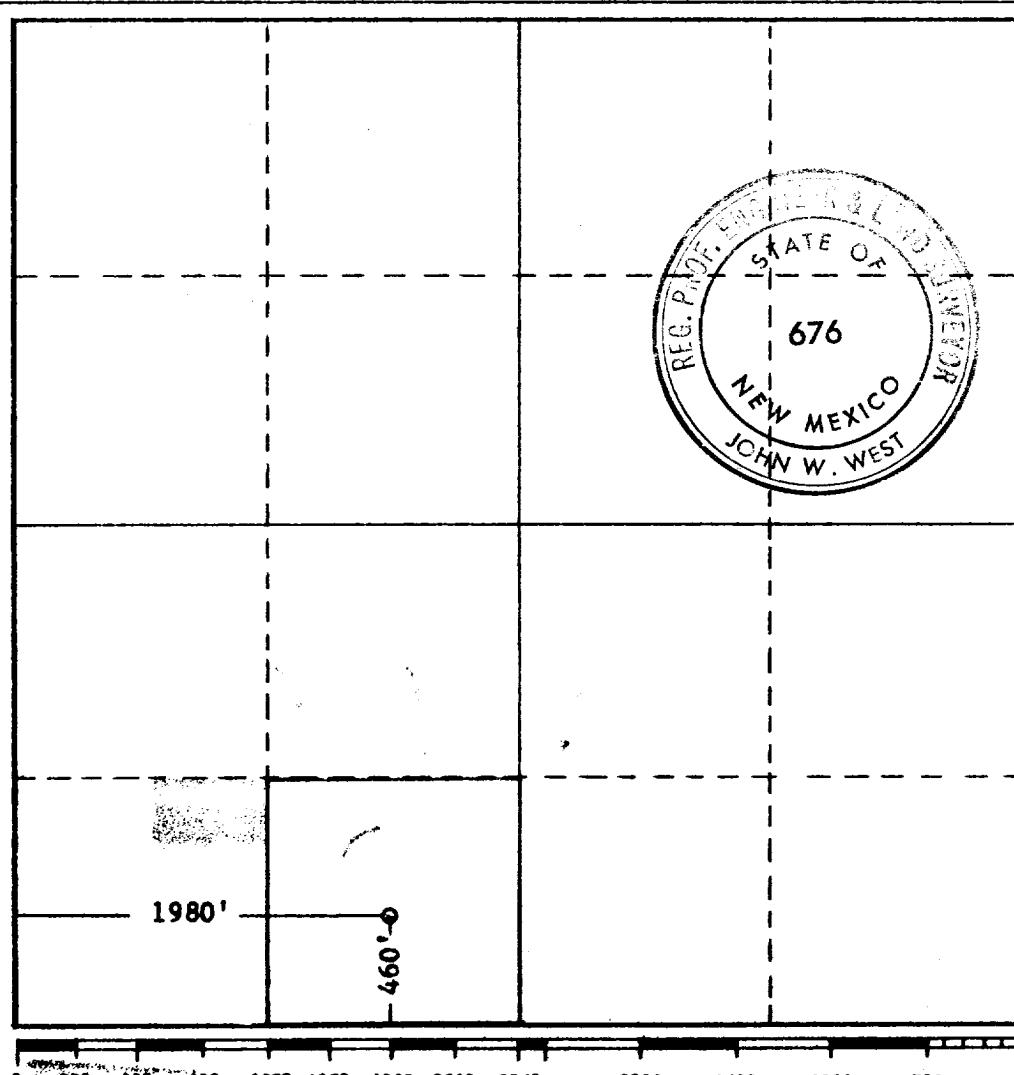
MAY 20 1966

O. C. C.

ARTESIA OFFICE

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 communization, 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.

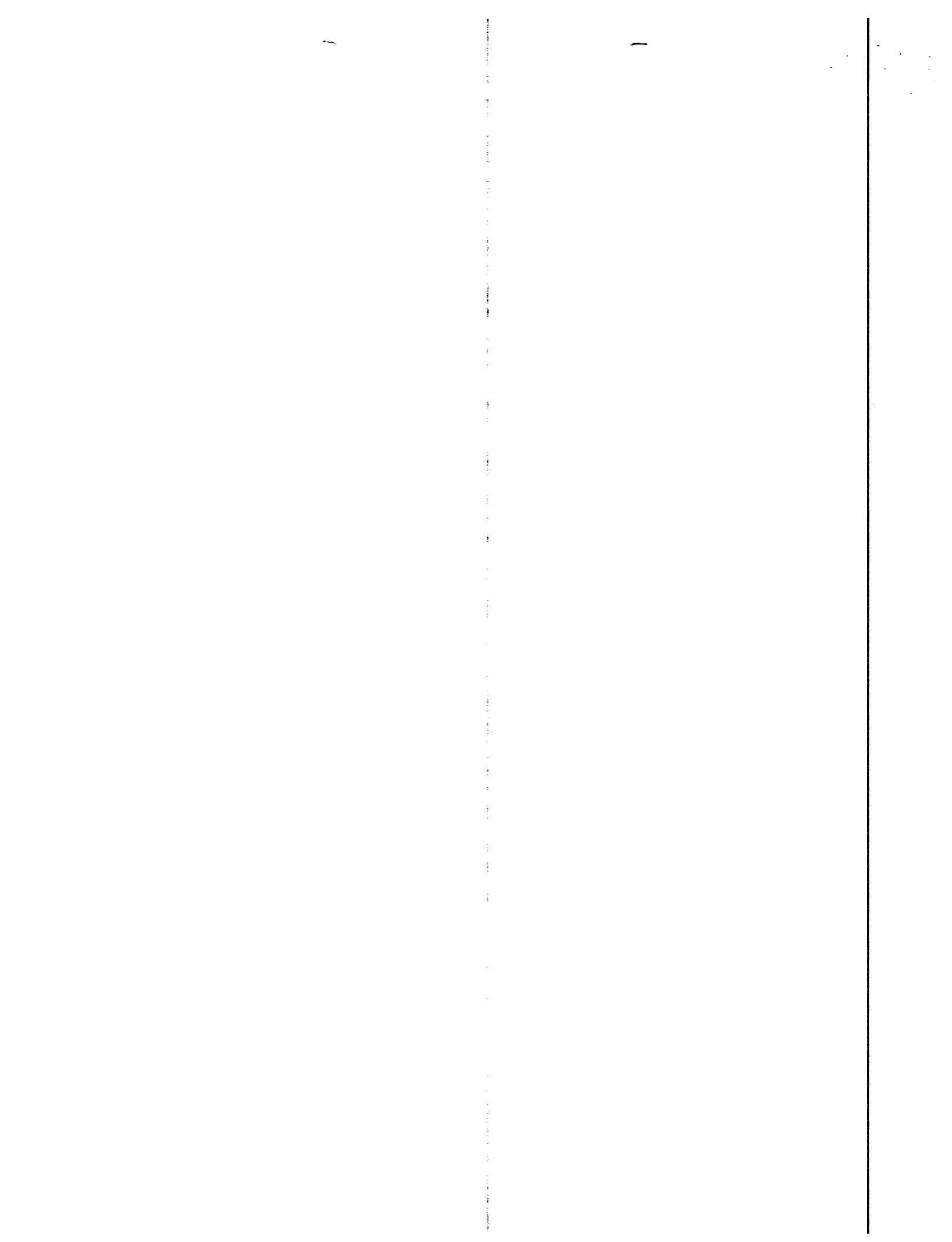
Name *A. W. Lang* *A. W. LANG*
Position *Dist. Prod. Sup't*
Company *Tenneco Oil Co.*
Date *May 18, 1966*

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 **MAY 14, 1966**

Registered Professional Engineer
and/or Land Surveyor

John W. West
Certificate No. **N.M.P.E. & L.S. 676**



TENNECO OIL COMPANY

DRILLING PROCEDURE

MIDLAND DISTRICT

LEASE: State "I"

FIELD: Grayburg-Jackson

LOCATION: 460' FSL & 1980' FWL, Section 21,
T-17-S, R-29-E, Eddy County, New Mexico

PROJECTED TD: 2900'

TYPE OF WELL: Oil, Pumping

SOUTHWESTERN DIVISION

WELL: No. 24

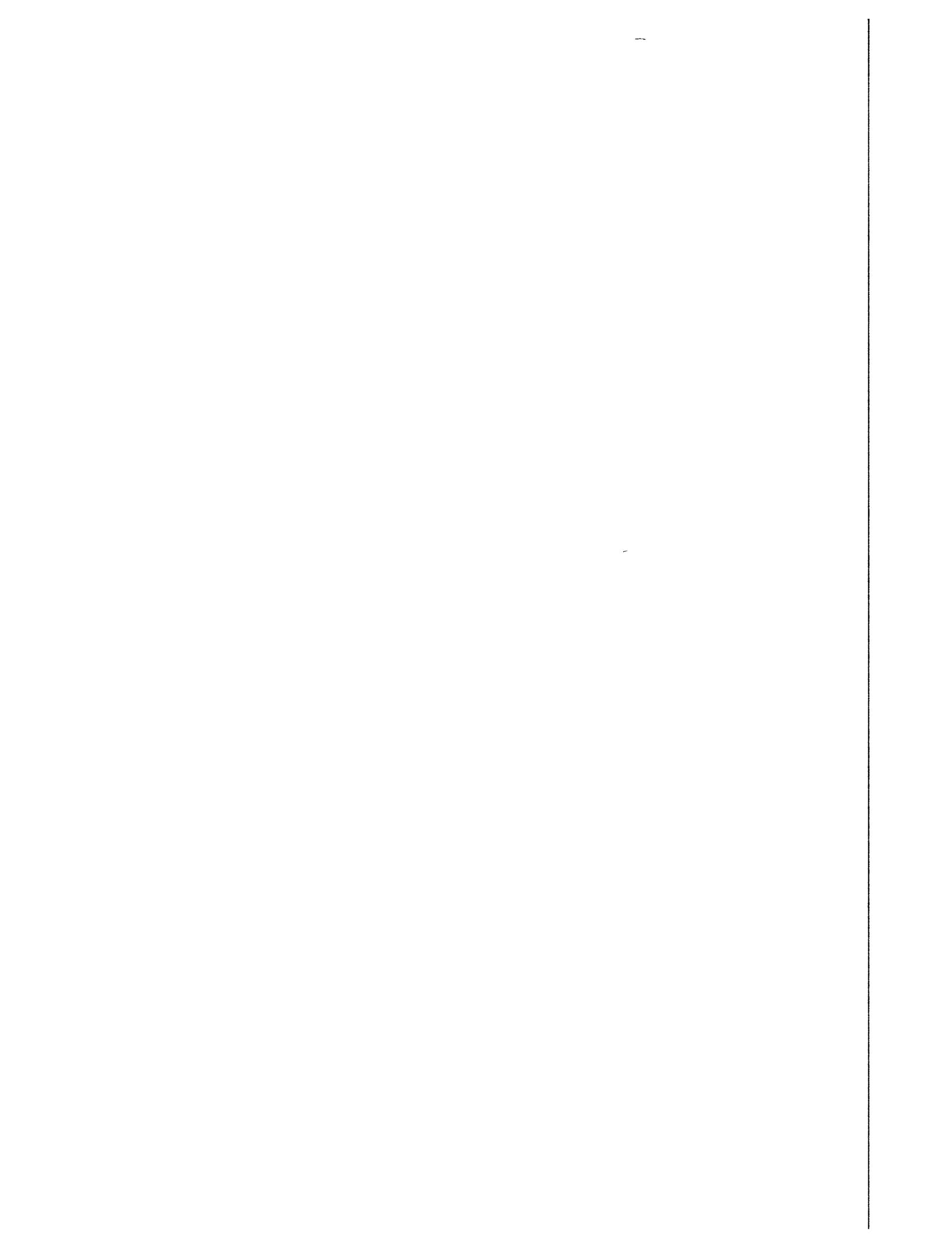
STATE: New Mexico

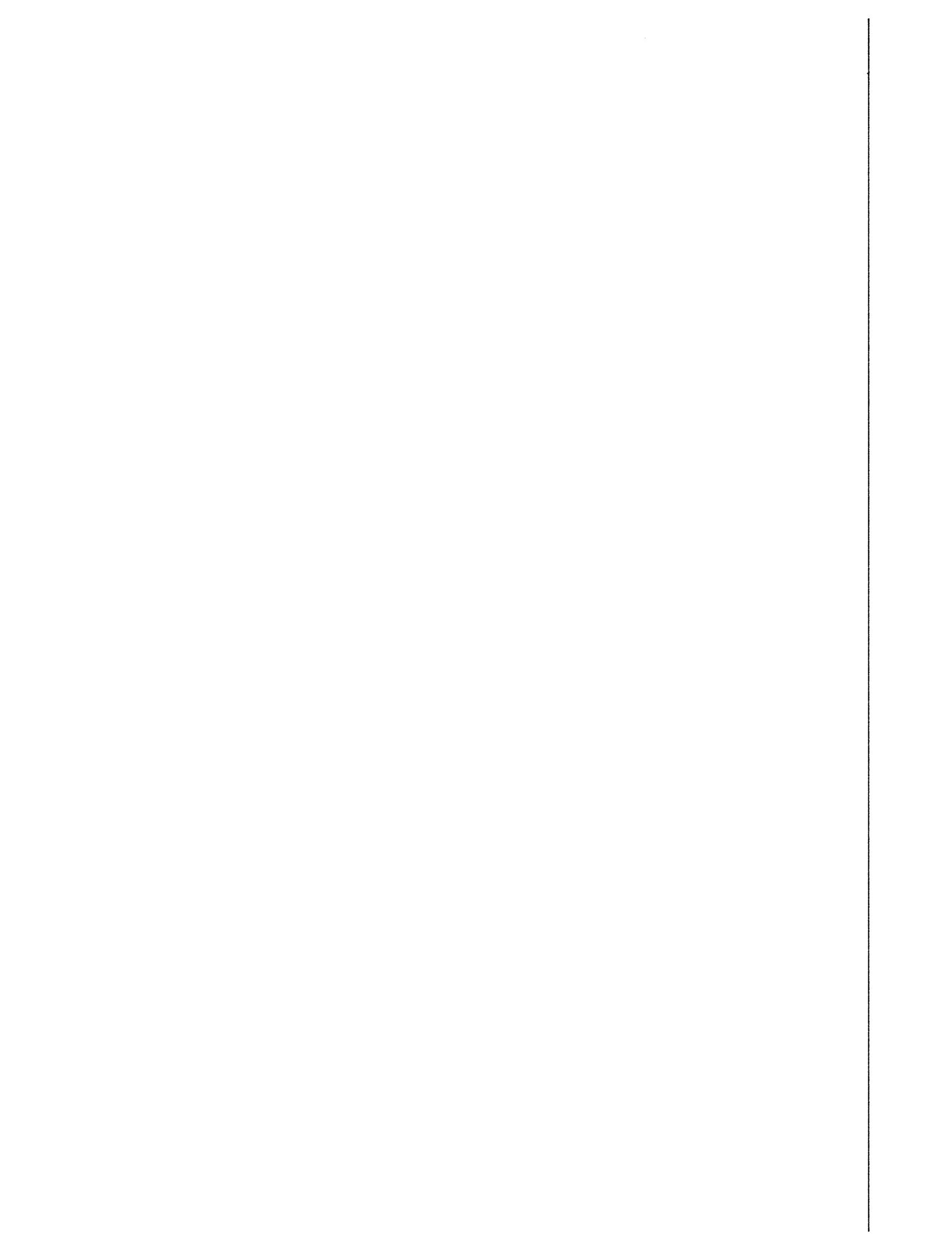
EST. ELEV.: 3550 GL

DRILLING, CASING AND CEMENTING PROGRAM

1. Drill 11" hole to 360' with OSC or equivalent.
2. Run and cement 8-5/8", 24#/ft., H-40, ST&C casing to T.D. Cement with class A saturated salt cement. If surface hole is dry drilled because of lost circulation, run a cement basket above the lost circulation zone and fill from the top. Run bar centralizers on guide shoe and bottom two joints. Use guide shoe and insert float.
3. If float holds, release pressure immediately. Center 8-5/8" casing, nipple up and install rotating head and BOP. After 12 hrs. from plug down, go in hole with drill pipe and bit, test casing to 800 psi for 30 min. Drill float collar and cement with water to guide shoe. Blow hole dry with air and drill with air and/or mist to T.D.
4. Drill 6-3/4" hole to T.D. Use W7R-2 or equivalent for first two bits, then run RG7AJ's or equivalents to T.D. Run insert-type reamer at 30' above bit to T.D. Complete drilling program to be furnished to rig.
5. Hole may become wet below 1700'. Be prepared to mist at this depth.
6. Run 4-1/2", 10.5# casing to T.D. Use guide shoe and float collar. Use centralizers through productive zone.
7. Cement with sufficient class C with 16% gel and 3% salt to reach 2000' (no excess) and tail in with latex-class C to reach 100' above top productive zone (consult Geologist).
8. If float holds, release pressure, set slips & release rig. Run temperature survey after 8 hrs.

R E C E I V E D





C-360 Spud mud of bentonite, lime for viscosity as needed. If circulation is lost dry drill to casing point.

360-T.D. Air and/or mist as needed.

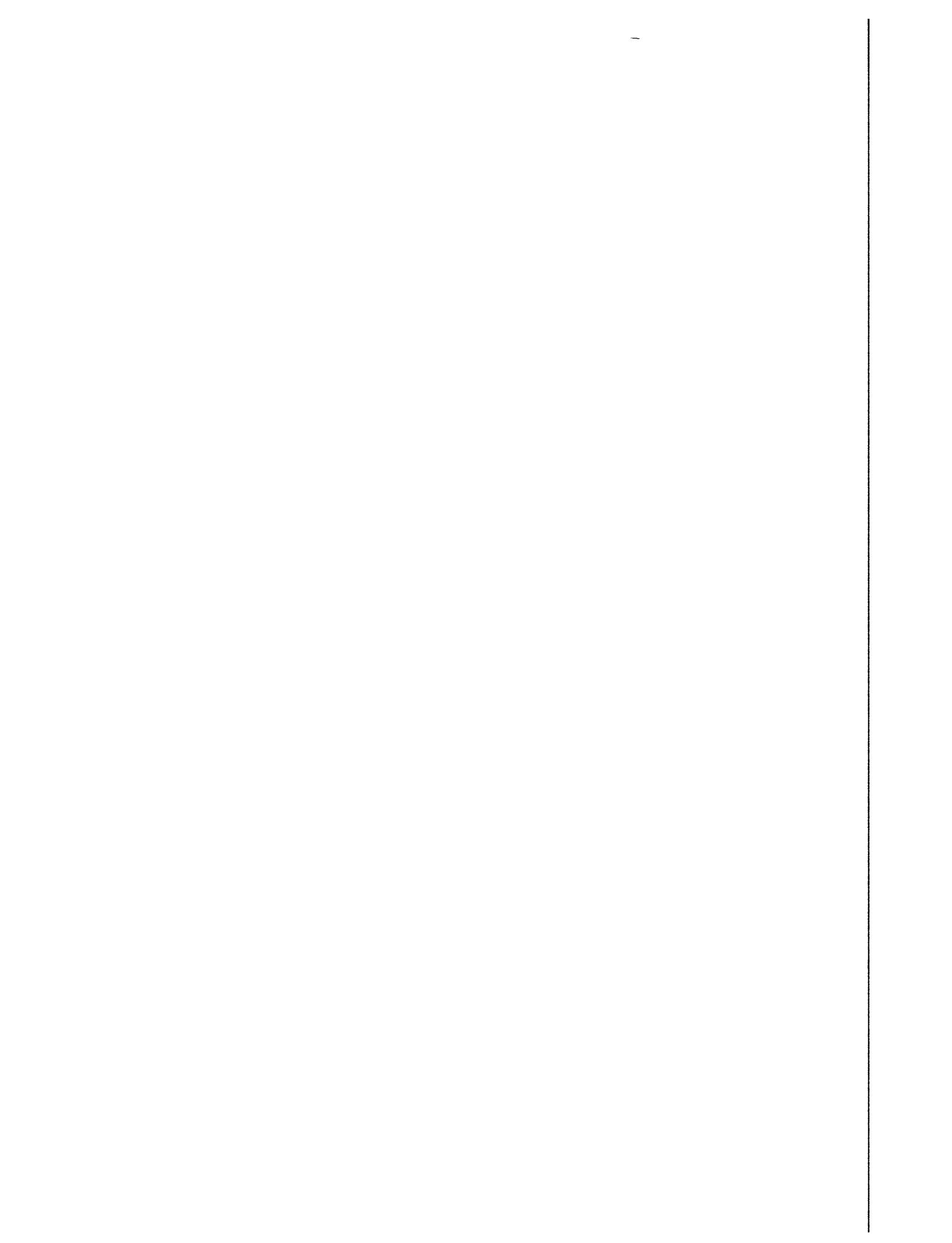
- Notes: 1) In the event that hole conditions necessitate going to fluid - brine will be used.
 2) Several air or CO₂ blows may occur in the salt section and to a depth of 1400'.
 3) Water may occur at 1700' $\frac{1}{2}$ and misting may be necessary below this depth.
 4) Gas may be encountered in Metex sand at 2280' $\frac{1}{2}$.

BLLOWOUT PREVENTERS

1. Use Series 900 blowout preventers as per Company specification.
2. When tripping up, test blowout preventer and manifold to full working pressure with cold water, or as specified by Company representative.
3. Operate blowout preventers at least once each day, or as Company representative may require.
4. An extra set of drill pipe rams will be required on location at all times while drilling or completing.
5. All choke manifolds, lines and valves will be located at the side of and away from substructure.

PIPE LENGTH MEASUREMENTS

1. Drill pipe will be tallied at all coring, testing, logging and casing points.



DRILL SURVEYS

- Deviation surveys shall be taken on every trip or every 500', whichever is first. All straight hole surveys will accompany AACBC tour sheet reports.
- Deviation should not change more than $1\frac{1}{2}^{\circ}$ in any 100'. If deviation exceeds 2° per 100', hole shall be plugged back and straightened.
- Maximum deviation shall be allowed as follows:

0 - 500	$\frac{1}{2}^{\circ}$	4000 - 6000	$\frac{4}{5}^{\circ}$
500 - 1000	1°	6000 - 8000	$\frac{5}{6}^{\circ}$
1000 - 2000	2°	8000 - 10000	6°
2000 - 4000	3°	12000 - 14000	8°

DRILLING TIME

- A recorder with torque, hook load, and rate of penetration will be used.
- Record 1' drilling time on recorder from 0 to T.D..
- Record 10' drilling time from 1800 to T.D. on Company forms.
Mail each sheet as soon as recorded with Daily Drilling Reports.

NOTES

- Sonic or density T.D. to surface.

SAMPLES

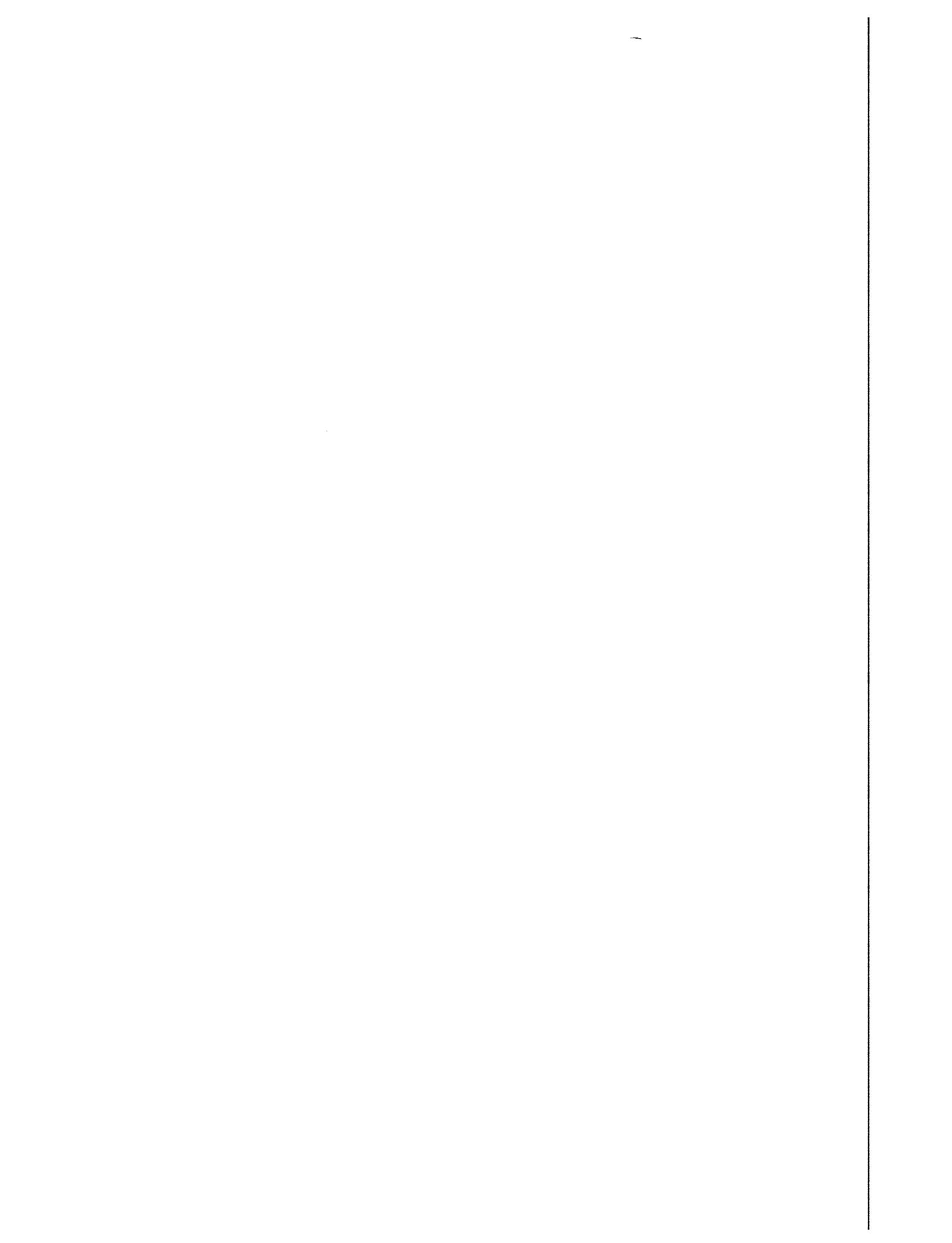
As directed by geologist

CORES

None

DIGITAL STEM SIZES

None



Salt Top	266	Premier Sand	2420
Salt Base	638	San Andres	2443
Yates	688	Colitic	2618
Queen	1758		
Metex	2280		

ROUTINE DRILLING
INFORMATION

2. The AMCO Daily Drilling Report will be filled out completely and neatly each 8-hour tour. One clear and legible copy will be mailed daily to Tennessee Oil Company. Mail Company drilling sheets as soon as each sheet is finished with Daily Drilling Report.
2. A daily report sheet and a cost sheet will be furnished by the operator for the well. The contractor's tool pusher will keep these forms current and complete. The daily cost, total cumulative cost and cumulative mud cost will be given daily along with the Pennoco morning report. At the conclusion of the well, the cost forms will be mailed to Tennessee Oil Company, P. O. Box 1031, Midland, Texas.
3. The morning report shall be called to Pennoco's Midland office as soon after 8:00 C.S.T. each weekday morning as practical. Phone number is KJ 3-4621, area code 915.
4. For notifications at other than office hours, call:

ACCIDENTS:EMERGENCIES:

James Eaton OX 4-7668

A. R. Gibson MU 4-7545

B. E. Desadier MU 4-5390

A. W. Lang MU 2-3010

PREPARED BY:APPROVED BY:A. R. GibsonA. R. GibsonA. R. GibsonA. R. GibsonB. E. DesadierB. E. DesadierA. W. LangA. W. LangJ. F. CarnesJ. F. Carnes

