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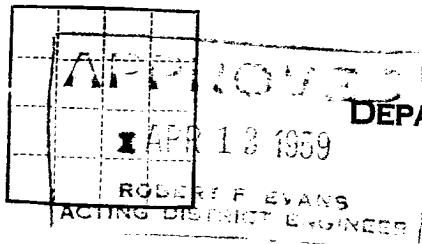
Budget Bureau 42-R358.3.
Approval expires 12-31-55.

(SUBMIT IN TRIPLICATE)

Land Office **Artesia**

Lease No. **Las Cruces 060323**

Unit **3**



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	☒	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Square Lake Deep Unit

April 9, 19**59**

Well No. **1** is located **1900** ft. from **N** line and **1830** ft. from **E** line of sec. **33**

24 - 33 (1/4 Sec. and Sec. No.) **16-S** (Twp.) **30-E** (Range) **18N** (Meridian)
Wilcox (Field) **Doña** (County or Subdivision) **New Mexico** (State or Territory)

The elevation of the derrick floor above sea level is **3737** ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

See attached program and plots.

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APR 13 1959
U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company **Tennessee Gas Transmission**

Address **Box 307**

Doña, New Mexico

By **D. W. Coffey**

Title **Dist. Prod. Supt.**

**MISSISSIPPI GAS TRANSMISSION COMPANY
PROGNOSIS TO DRILL AND COMPLETE**

Lease: Square Lake Deep Unit

Well No.: 1

Field: Wildcat

Location: 1980' FEL, 1830' FEL, Section 33, T-16-S, R-30-E,
Hidy County, New Mexico

Projected Formation: Devonian

Estimated Top of Pay: 12,010'

Estimated Elevation: 3725' GL

Estimated Total Depth: 13,000'

Drilling, Casing & Cement:

1. Drill 17 1/4" hole to approximately 300'.
2. Cement 13 3/8" casing @ 300' w/390 sx.
3. WOC 12 hours. Release pressure after 8 hours and install BOP.
Pressure test casing to 600 psi for 30 minutes after WOC 12 hours.
4. Drill 12 1/4" hole to approximately 3100' or 400' below Square Lake
PAY.
5. Cement 9 5/8" casing @ 3100' w/400 sx.
6. WOC 24 hours. Release pressure and install BOP after 12 hours.
Pressure test casing w/1000 psi for 30 minutes after WOC 18 hours.
7. Drill 8 3/4" hole to approximately 13,000'. Exact total depth will
be determined by wellsite geologist.
8. Cement 7" casing at total depth w/sufficient volume to protect all
zones of possible oil production.
9. WOC 48 hours. Release pressure after 12 hours and nipple up.

Drilling Mud:

1. Drill w/fresh water native mud to 300'.
2. Drill w/salt saturated native mud from 900' to 3100', adding salt
gal for viscosity to obtain good samples.
3. Drill w/low solids fresh water mud from 3100' to total depth.
Maintain viscosity to obtain good samples from 3100' to total depth.
From 4000' to total depth, filter cake and water loss properties
will be maintained conducive to drill stem testing.

Drill Stem Tests:

1. Glorietta - Two DST's between 4800' and 4900'.
2. Fullerton - One DST between 5600' and 5800'.
3. Wolfcamp - Three DST's between 8900' and 9400'.
4. Pennsylvanian - Three DST's between 9900' and 10,500'.
5. Morrow - Two DST's between 10,800' and 11,100'.
6. Devonian - Three DST's between 12,000' and 12,200'.
7. Any or all shows of oil and gas will be tested at the discretion
of the wellsite geologist.

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Billings Coaling & Cement Co.

1. Drill 1 1/2" hole to approximately 300'.
2. Cement 13 3/8" casing @ 300' w/250 ex.
3. WOC 12 hours. Release pressure after 6 hours and install BOP.
4. Pressure test casing to 600 psi for 30 minutes after WOC 12 hours.
5. Drill 1 1/2" hole to approximately 3100' or 400' below surface lake.
6. Cement 9 5/8" casing @ 3100' w/400 ex.
7. WOC 24 hours. Release pressure and install BOP after 12 hours.
8. Pressure test casing w/1000 psi for 30 minutes after WOC 12 hours.
9. Drill 8 3/4" hole to approximately 13,000'. Exact total depth will be determined by wellsite geologist.
10. Cement 7" casing at total depth w/sufficient volume to protect all zones of possible oil production.
11. WOC 48 hours. Release pressure after 12 hours and slightly up.

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1. Drill/w/ fresh water down to 500'
2. Drill/w/ salt saturated native mud from 500' to 5100', adding sea
3. Drill/w/ low solids fresh water down from 5100' to total depth.

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7. Any or all shows of oil and gas will be leased in the discretion of the wellsite geologist.