Budget Bureau No. 42-R358.
Approval expires 11-30-46.

Form 9-331a
(March 1942)

RECEIVED AUG 3 - 1945

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Artesia, N. M.
Lease No. Co. #35956-7
Unit LC-062384
Federal Leonard Oil Company

# 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 REDRILLING 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 | X | | |

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

Midland, Texas, August 1, 1945

Well No. 2 is located 1980 ft. from {N/S} line and 1980 ft. from {E/W} line of sec. 13

Center of SW/4 of NE/4 of Sec. 13 (¼ Sec. and Sec. No.) | 26-S (Twp.) | 37-E (Range) | (Meridian)

Dublin-Ellenburger (Field) | Lea (County or Subdivision) | New Mexico (State or Territory)

The elevation of the derrick floor above sea level is 3015 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)

This well was drilled to depth of 9661' at which point geological information indicated that further drilling was not desirable. Our method of abandonment of this well will be as follows: Cement plug will be placed from 9661-9450'; heavy mud from 9450-7000'; cement plug from 7000-6500'; heavy mud from 6500-5600'; cement plug from 5600-5100'; heavy mud from 5100-4200'. 200' cement will be placed in bottom of 9-5/8" casing at 4000'. 50' cement plug will be placed in top of hole and suitable marker will be placed in accordance with plugging requirements.

No attempt will be made to recover 9-5/8" casing.

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

Company Humble Oil & Refining Company

Address Box 1600

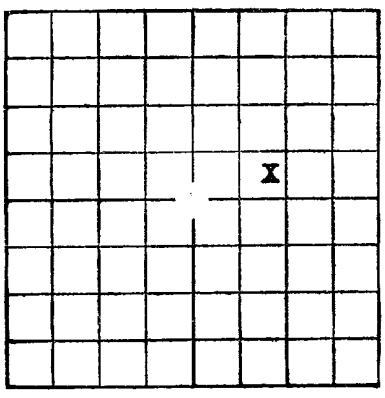
Midland, Texas

By [signature]

Title Division Superintendent

U. S. GOVERNMENT PRINTING OFFICE 16—84137-2

Form 9-330



LOCATE WELL CORRECTLY

U. S. Land Office _____
Serial Number _____
Lease or Permit to Prospect _____

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

# LOG OF OIL OR GAS WELL

Company Humble Oil & Refg. Co. Address Box 1600 Midland, Texas.
Lessor or Tract Federal Leonard Field Dublin-Ellenburger State New Mexico
Well No. 2 Sec. 13 T. 26 R. 37 Meridian _____ County Lea, New Mexico
Location 1980 ft. {N. / S.} of xx Line and 1980 ft. {E. / W.} of xx Line of Sec. 13 Elevation 3014
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed _____
Title Division Superintendent

Date August 30, 1945

The summary on this page is for the condition of the well at above date.

Commenced drilling 12-6-44, 19____ Finished drilling 7-30-45, 19____

## OIL OR GAS SANDS OR ZONES

*(Denote gas by G)*

No. 1, from Anhydrite to 880
No. 2, from Salt to 1985
No. 3, from Yates to 2610
No. 4, from Permian to 8080
No. 5, from Mississipian to 9200
No. 6, from Devonian to 9795

## IMPORTANT WATER SANDS

No. 1, from _____ to _____
No. 2, from _____ to _____
No. 3, from _____ to _____
No. 4, from _____ to _____

## CASING RECORD

| Size casing | Weight per foot | Threads per inch | Make | Amount | Kind of shoe | Cut and pulled from | Perforated From | Perforated To | Purpose |
|---|---|---|---|---|---|---|---|---|---|
| 13 3/8 | 18# | 8-R | Nat. | 395.10 | Hall | | | | |
| 9 5/8 | 36# | 8-R | Nat. | 4184.38 | Hall. | | None | | |

## MUDDING AND CEMENTING RECORD

| Size casing | Where set | Number sacks of cement | Method used | Mud gravity | Amount of mud used |
|---|---|---|---|---|---|
| 13 3/8 | 408.10 | 400 | Hall. | | |
| 9 5/8 | 4199.09 | 4000 | Hall | | |

## PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____
Adapters—Material _____ Size _____ (Perm. plugs no casing)

## SHOOTING RECORD

| Size | Shell used | Explosive used | Quantity | Date | Depth shot | Depth cleaned out |
|---|---|---|---|---|---|---|
| | | None | | | | |

## TOOLS USED

Rotary tools were used from 0 feet to 9361 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

## DATES

_____, 19____ Put to producing Dry hole, 19____

The production for the first 24 hours was _____ barrels of fluid of which _____ % was oil; _____ % emulsion; _____ % water; and _____ % sediment.

If gas well, cu. ft. per 24 hours _____ Gravity, °Bé. _____

Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. _____

## EMPLOYEES

_____, Driller J. F. Hall
F. A. Marts, Driller
J. V. Dooley, Driller
_____, Driller

## FORMATION RECORD

| FROM | TO | TOTAL FEET | FORMATION |
|---|---|---|---|
| 0 | 174 | | Sand |
| 174 | 240 | | Surface Sand & Shells |
| 240 | 370 | | Red Bed & Shells |
| 370 | 530 | | Red Bed |
| 530 | 669 | | Red Bed & Shells |
| 669 | 819 | | Red Bed |
| 819 | 929 | | Red Bed & Shells |
| 929 | 996 | | Anhydrite |
| 996 | 1040 | | Anhydrite & Potash |
| 1040 | 1190 | | Salt |
| 1190 | 1285 | | Red Shells |
| 1285 | 1315 | | Anhydrite |
| 1315 | 1465 | | Anhydrite |
| 1465 | 1568 | | Red Bed & Potash |
| 1568 | 1790 | | Anhydrite |
| 1790 | 1780 | | Salt & Anhydrite |
| 1780 | 1740 | | Red Bed |
| 1740 | 1850 | | Anhydrite |
| 1850 | 1900 | | Anhydrite |
| 1900 | 2018 | | Anhydrite & Salt |
| 2018 | 2078 | | Anhydrite & Salt |
| 2078 | 2142 | | Anhydrite |
| 2142 | 2221 | | Anhydrite Salt |
| 2221 | 2483 | | Anhydrite |
| 2483 | 2639 | | Lime |

(OVER)

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## FORMATION RECORD—Continued

| FROM | TO | TOTAL FEET | FORMATION |
|---|---|---|---|
| 2639 | 2668 | | Lime & Anhydrite |
| 2668 | 2700 | | Lime & Anhydrite |
| 2700 | 2850 | | Anhydrite Shale stks. |
| 2850 | 2879 | | Anhydrite & Gyp |
| 2879 | 2921 | | Anhydrite |
| 2921 | 2966 | | Lime & Anhydrite |
| 2966 | 2979 | | Lime & Hard Anhydrite |
| 2979 | 3093 | | Lime |
| 3093 | 3102 | | Anhydrite |
| 3102 | 3383 | | Lime |
| 3383 | 3390 | | Lime & Gyp |
| 3390 | 3423 | | Lime & Sand |
| 3423 | 3445 | | Lime & Gyp |
| 3445 | 3487 | | Lime |
| 3487 | 3510 | | Anhydrite |
| 3510 | 3530 | | Sand Carrying Oil |
| 3530 | 3539 | | Hard Lime |
| 3539 | 4480 | | Lime |
| 4480 | 4550 | | Lime Anhydrite |
| 4550 | 4757 | | Lime |
| 4757 | 4775 | | Lime & Shells Strk. |
| 4775 | 4855 | | Lime |
| 4855 | 4874 | | Lime & Sand |
| 4874 | 8098 | | Lime |
| 8098 | 8105 | | Lime & Chert & Shale |
| 8105 | 8111 | | Lime & Chert |
| 8111 | 8140 | | Lime |
| 8140 | 8152 | | Lime & Shale |
| 8152 | 8227 | | Lime |
| 8227 | 8522 | | Lime & Shale |
| 8522 | 8539 | | Shale |
| 8539 | 8655 | | Lime & Shale |
| 8655 | 8662 | | Lime |
| 8662 | 8710 | | Lime & Shale |
| 8710 | 8917 | | Lime |
| 8917 | 8920 | | Shale |
| 8920 | 8938 | | Lime |
| 8938 | 8948 | | Lime Shale |
| 8948 | 8959 | | Lime |
| 8959 | 8966 | | Lime & Shale |
| 8966 | 8980 | | Lime |
| 8980 | 9001 | | Lime & Shale |
| 9001 | 9043 | | Lime |
| 9043 | 9082 | | Lime & Shale |
| 8082 | 9086 | | Lime |
| 9086 | 9098 | | Lime & Shale |
| 9098 | 9102 | | Lime |
| 9102 | 9113 | | Lime & Shale |
| 9113 | 9117 | | Lime |
| 9117 | 9129 | | Lime& Shale |
| 9129 | 9136 | | Lime |
| 9136 | 9138 | | Lime & Shale |
| 9138 | 9146 | | Lime |
| 9146 | 9165 | | Lime & Shale |
| 9166 | 9179 | | Lime |
| 9179 | 9184 | | Lime & Shale |
| 9184 | 9188 | | Lime |
| 9188 | 9211 | | Lime & Shale |
| 9211 | 9226 | | Lime |
| 9226 | 9246 | | Lime& Shale |
| 9246 | 9258 | | Lime |
| 9258 | 9282 | | Lime & Shale |

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## HISTORY OF OIL OR GAS WELL

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "sidetracked" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

This well was drilled to depth of 9861' at which point geological information indicated that further drilling was not desirable. ell was plugged from 9861' to 9650' with 90 sacks cement; from 5600' to 5100' with 195 sacks cement; from 7000' to 6500' with 200 sacks cement; from 5600' to 5100' with 195 sacks cement; from 4200' to 4000' with 100 sacks with 50 sacks cement and installed regulation oil marker. Three copies of all electric and temperature logs have already been furnished your department.