Form 9-330

Budget Bureau No. 42-R355.4.
Approval expires 12-31-60.

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 079718
Co. LEASE ~~Producers Receipt~~ #216951

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOCATE WELL CORRECTLY

# LOG OF OIL OR GAS WELL

Company Humble Oil & Refining Company Address Box 2180, Houston 1, Texas ~~Box 2268, Farmington, New Mexico~~

Lessor or Tract Tanner Unit Field Tanner Unit W/C State New Mexico

Well No. 3 Sec. 5 T. 23N R. 12W Meridian - County San Juan

Location 660 ft. {N/S} of N Line and 660 ft. {E/W} of E Line of Section 5 Elevation 5994 (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 Russell M. Lilly
Russell M. Lilly

Date January 10, 1958 Title Dist. Supt.

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

Commenced drilling 9-25, 1957 Finished drilling TD 9-14, 1957

## OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 2556 to 2564 No. 4, from ____ to ____

No. 2, from ____ to ____ No. 5, from ____ to ____

No. 3, from ____ to ____ No. 6, from ____ to ____

## IMPORTANT WATER SANDS

No. 1, from ____ to ____ No. 3, from ____ to ____

No. 2, 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 |
|---|---|---|---|---|---|---|---|---|---|
| 9-5/8" | 32 | 8R | CFI | 300 | Baker | | | | |
| 5-1/2" | 14 | 8R | CFI | 2638 | Halliburton | | 2556 | 2564 | Prod'n. Test |

## MUDDING AND CEMENTING RECORD

| Size casing | Where set | Number sacks of cement | Method used | Mud gravity | Amount of mud used |
|---|---|---|---|---|---|
| 9-5/8" | 312 | 300 | Pumped | | |
| 5-1/2" | 2650 | 150 | Pumped | | |

## PLUGS AND ADAPTERS

Heaving plug—Material ____ Length ____ Depth set ____

Adapters—Material ____ Size ____

## 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 4942 TD feet, and from ____ feet to ____ feet

Cable tools were used from ____ feet to ____ feet, and from ____ feet to ____ feet

## DATES

December 23, 1957 Put to producing Converted to water well, turned over to rancher, 19xx

The production for the first 24 hours was ____ barrels of fluid of which ____% was oil; ____% emulsion; ____% water; and ____% sediment. Gravity, °Bé. ____

If gas well, cu. ft. per 24 hours ____ Gallons gasoline per 1,000 cu. ft. of gas ____

Rock pressure, lbs. per sq. in. ____

## EMPLOYEES

Aaron Holmes, Driller E. J. Dyer, Driller

T. M. Hairston, Driller ____, Driller

## FORMATION RECORD

| FROM— | TO— | TOTAL FEET | FORMATION |
|---|---|---|---|
| 0 | 4731 | 4731 | Sand and shale |
| 4731 | 4930 | 199 | Sand, shale and chert |
| 4930 | 4942 TD | 12 | Sand and shale |

Formation Tops

| | |
|---|---|
| MesaVerde | 626 |
| Point Lookout | 2555 |
| Mancos | 2746 |
| Skelley Zone | 3622 |
| Lower Gallup | 3881 |
| Sanostee | 4188 |
| Greenhorn | 4484 |
| Graneros | 4539 |
| Dakota | 4678 |
| Morrison | 4896 |

FOLD MARK



16—43094-4

## FORMATION RECORD—Continued

| FROM— | TO— | TOTAL FEET | FORMATION |
|---|---|---|---|

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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.

The well was drilled to a total depth of 4942'.
Set 300' of 9-5/8" csg at 312' w/300 sax 3% calcium chloride cement.

### CORE RECORD

| CORE NO. | INTERVAL | CUT FT. | REC. FT. | CHARACTERISTICS |
|---|---|---|---|---|
| 1 | 2584-2610 | 26 | 26 | Light grey, fine grained sandstone w/thin shale streaks, coal, black shale. |
| 2 | 3680-3730 | 50 | 47 | Light grey, medium grained sandstone, fair stain and odor. |
| 3 | 3730-3781 | 51 | 51 | Light grey, medium to coarse grained sandstone, w/dark grey shale streaks. |
| 4 | 3781-3832 | 51 | 51 | Light grey, fine to medium grained sandstone, thin grey shale streaks. |
| 5 | 3832-3883 | 51 | 51 | Light grey, fine grained shaley sandstone, bleeding oil in spots. |
| 6 | 4630-4680 | 50 | 50 | Black sandy shale, light grey, fine grained sandstone, black shale. |
| 7 | 4680-4731 | 51 | 51 | Light grey, fine to medium grained sandstone, black sandy shale, black shale, NS. |

### DST RECORD

| DST # | INTERVAL | TOP CHK | BOT. CHK | TO MINS. | FLO PR. MIN | FLO PR. MAX | RECOVERY Mud | RECOVERY Water | RECOVERY Oil | TEST Sat? | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2505-2584 | 1" | 3/4" | 90 | 200 | 350 | 405 | 330 | | Yes | Oil cut mud |
| 2 | 2880-3630 | 1" | 5/8" | 60 | 75 | 500 | 200 | 600 | | Yes | |
| 3 | 3630-3730 | 1" | 5/8" | 60 | 225 | 1108 | | 2730 | | Yes | Salt water |
| 4 | 3756-3882 | 1" | 5/8" | 60 | 115 | 1195 | | 2553 | | Yes | Salt Water |
| 5 | 4569-4630 | 3/4" | 5/8" | 60 | 800 | 2000 | | 4529 | | Yes | Salt water |
| 6 | 4680-4942 | 1" | 3/4" | 78 | 750 | 2150 | | Flowed | | Yes | Mud to surf. - 56 min. |

Spotted cmt plugs as follows:
From 4942-4840 w/35 sax neat, from 4750-4550 w/72 sax neat, from 3750-3650 w/35 sax neat, from 2750-2610 w/53 sax neat.cmt.

Set 2638' of 5-1/2" csg at 2650 w/150 sax neat cmt. Perf'd 5-1/2" csg from 2556-2564 w/4 bullet shots per foot. Swabbed well dry. Sand-oil fraced thru perfs w/16,800 gals diesel oil and 20,000# sand. Avg. inj. rate 32.2 bbls/min at 1700#. Well flowed back 155 bbls load oil, then started flowing 100% fresh water. 265 bbls load oil lost.

Installed swage and valve on wellhead, turned well over to rancher as a water well.