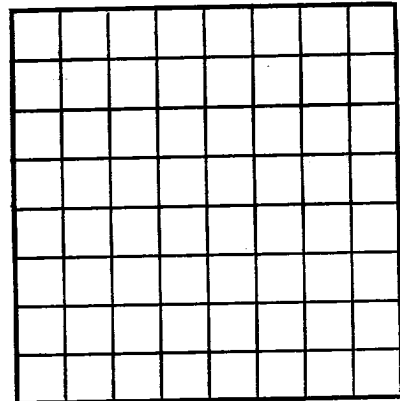




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LEASE OR PERMIT TO PROSPECT Keely C

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company General American Oil Co. of Texas Address Box 416, Loco Hills, New Mexico  
Lessor or Tract Keely C Field Grayburg-Jackson State New Mexico  
Well No. 33 Sec. 25 T. 17S R. 29E Meridian NMPM County Eddy  
Location 2615 ft. (N.) of S Line and 2615 ft. (W.) of E Line of Section 25 Elevation 3585'  
(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 N. W. Krouskop (Signature)  
Title Asst. Field Supt.

Date September 25, 1950

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

Commenced drilling July 25, 1950 Finished drilling September 7, 1950

OIL OR GAS SANDS OR ZONES  
(Denote gas by G)

No. 1, from 3076 to 3077 No. 4, from \_\_\_\_\_ to \_\_\_\_\_  
No. 2, from 3090 to 3093 (broken) No. 5, from \_\_\_\_\_ to \_\_\_\_\_  
No. 3, from 3122 to 3139 (broken) No. 6, from \_\_\_\_\_ to \_\_\_\_\_

IMPORTANT WATER SANDS

No. 1, from 282 to 287 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 |     | Purpose                  |
|----------------------------|-----------------|------------------|-------------|-------------|----------------------|---------------------|------------|-----|--------------------------|
|                            |                 |                  |             |             |                      |                     | From—      | To— |                          |
| <u>8-5/8"</u>              | <u>28#</u>      | <u>6</u>         | <u>Used</u> | <u>472</u>  | <u>Texas Pattern</u> | <u>_____</u>        |            |     | <u>Salt String</u>       |
| <u>7"</u>                  | <u>20#</u>      | <u>6</u>         | <u>Used</u> | <u>2987</u> | <u>Texas Pattern</u> | <u>_____</u>        |            |     | <u>Production String</u> |
| HISTORY OF OIL OR GAS WELL |                 |                  |             |             |                      |                     |            |     |                          |

MUDDING AND CEMENTING RECORD

| Size casing   | Where set    | Number sacks of cement | Method used        | Mud gravity  | Amount of mud used |
|---------------|--------------|------------------------|--------------------|--------------|--------------------|
| <u>8-5/8"</u> | <u>478'</u>  | <u>75</u>              | <u>Halliburton</u> | <u>Heavy</u> | <u>To Surface</u>  |
| <u>7"</u>     | <u>2987'</u> | <u>100</u>             | <u>"</u>           | <u>"</u>     | <u>"</u>           |

PLUGS AND ADAPTERS

Heaving plug—Material \_\_\_\_\_ Length \_\_\_\_\_ Depth set \_\_\_\_\_  
Adapters—Material \_\_\_\_\_ Size \_\_\_\_\_

ACIDIZING RECORD

| Size | Shell used | Chemical       | Quantity     | Date           | Depth shot        | Depth cleaned out |
|------|------------|----------------|--------------|----------------|-------------------|-------------------|
|      |            | <u>20% HCl</u> | <u>420 G</u> | <u>9-7-50</u>  | <u>Wash</u>       |                   |
|      |            | <u>20% HCl</u> | <u>1000</u>  | <u>9-7-50</u>  | <u>3006-3144'</u> |                   |
|      |            | <u>20% HCl</u> | <u>1000</u>  | <u>9-10-50</u> | <u>3106-3144'</u> |                   |
|      |            | <u>20% HCl</u> | <u>600</u>   | <u>9-12-50</u> | <u>2987-3144'</u> |                   |

TOOLS USED

Rotary tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet  
Cable tools were used from 0 feet to 3144 feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

DATES

September 25, 1950 Put to producing September 12, 1950

The production for the first 24 hours was 194 barrels of fluid of which 100 % was oil; \_\_\_\_\_ %

emulsions \_\_\_\_\_ % water and \_\_\_\_\_ % sediment. Gravity 77.6° API-37.0°

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

Rock pressure, lbs. per sq. in. \_\_\_\_\_

EMPLOYEES

Mr. Bryant, Driller  
Shear Burch, Driller  
Harlan Johnson, Driller  
L. W. Ledbetter, Driller  
Albert Williams, Driller

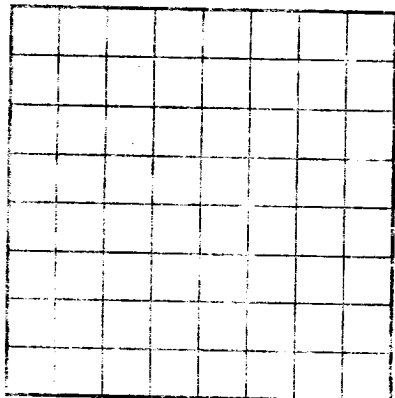
FORMATION RECORD

| FEET        | FORMATION      | TOTAL FEET  | FORMATION      |
|-------------|----------------|-------------|----------------|
| <u>3076</u> | <u>Red Bed</u> | <u>10</u>   | <u>Red Bed</u> |
| <u>3080</u> | <u>Red Bed</u> | <u>50</u>   | <u>Red Bed</u> |
| <u>3102</u> | <u>Red Bed</u> | <u>15</u>   | <u>Red Bed</u> |
| <u>3122</u> | <u>Red Bed</u> | <u>10</u>   | <u>Red Bed</u> |
| <u>3139</u> | <u>Red Bed</u> | <u>165</u>  | <u>Red Bed</u> |
| <u>3144</u> | <u>Red Bed</u> | <u>10</u>   | <u>Red Bed</u> |
| <u>3150</u> | <u>Red Bed</u> | <u>30</u>   | <u>Red Bed</u> |
| <u>3160</u> | <u>Red Bed</u> | <u>65</u>   | <u>Red Bed</u> |
| <u>3172</u> | <u>Red Bed</u> | <u>20</u>   | <u>Red Bed</u> |
| <u>3182</u> | <u>Red Bed</u> | <u>20</u>   | <u>Red Bed</u> |
| <u>3190</u> | <u>Red Bed</u> | <u>25</u>   | <u>Red Bed</u> |
| <u>3202</u> | <u>Red Bed</u> | <u>15</u>   | <u>Red Bed</u> |
| <u>3212</u> | <u>Red Bed</u> | <u>40</u>   | <u>Red Bed</u> |
| <u>3222</u> | <u>Red Bed</u> | <u>3</u>    | <u>Red Bed</u> |
| <u>3232</u> | <u>Red Bed</u> | <u>395</u>  | <u>Red Bed</u> |
| <u>3242</u> | <u>Red Bed</u> | <u>1670</u> | <u>Red Bed</u> |
| <u>3252</u> | <u>Red Bed</u> | <u>90</u>   | <u>Red Bed</u> |
| <u>3262</u> | <u>Red Bed</u> | <u>10</u>   | <u>Red Bed</u> |
| <u>3272</u> | <u>Red Bed</u> | <u>40</u>   | <u>Red Bed</u> |
| <u>3282</u> | <u>Red Bed</u> | <u>40</u>   | <u>Red Bed</u> |
| <u>3292</u> | <u>Red Bed</u> | <u>20</u>   | <u>Red Bed</u> |
| <u>3302</u> | <u>Red Bed</u> | <u>10</u>   | <u>Red Bed</u> |
| <u>3312</u> | <u>Red Bed</u> | <u>10</u>   | <u>Red Bed</u> |
| <u>3322</u> | <u>Red Bed</u> | <u>510</u>  | <u>Red Bed</u> |
| <u>3332</u> | <u>Red Bed</u> | <u>20</u>   | <u>Red Bed</u> |

FORMATION RECORD—Continued

LOG OF OIL OR GAS WELL

DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
UNITED STATES



LOCATE WELL CORRECTLY

Company, Address, City, State, and Country  
Lessor or Tract  
Well No.  
Location, Section, Township, Range, and Meridian  
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, \_\_\_\_\_  
Date, \_\_\_\_\_

The summary on this page is for the condition of the well at above date.  
Commenced drilling \_\_\_\_\_  
Finished drilling \_\_\_\_\_

OIL OR GAS SANDS OR ZONES

(Dates as by O)  
No. 1, from \_\_\_\_\_ to \_\_\_\_\_  
No. 2, from \_\_\_\_\_ to \_\_\_\_\_  
No. 3, from \_\_\_\_\_ to \_\_\_\_\_  
No. 4, from \_\_\_\_\_ to \_\_\_\_\_  
No. 5, from \_\_\_\_\_ to \_\_\_\_\_  
No. 6, from \_\_\_\_\_ to \_\_\_\_\_

IMPORTANT WATER SANDS

No. 1, from \_\_\_\_\_ to \_\_\_\_\_  
No. 2, from \_\_\_\_\_ to \_\_\_\_\_  
No. 3, from \_\_\_\_\_ to \_\_\_\_\_  
No. 4, from \_\_\_\_\_ to \_\_\_\_\_  
No. 5, from \_\_\_\_\_ to \_\_\_\_\_  
No. 6, from \_\_\_\_\_ to \_\_\_\_\_

CASING RECORD

| Casing | Size | Weight | Threads | Make | Amount | Kind of shoe | Cut and pulled from | Remarks |
|--------|------|--------|---------|------|--------|--------------|---------------------|---------|
|        |      |        |         |      |        |              |                     |         |
|        |      |        |         |      |        |              |                     |         |
|        |      |        |         |      |        |              |                     |         |
|        |      |        |         |      |        |              |                     |         |
|        |      |        |         |      |        |              |                     |         |
|        |      |        |         |      |        |              |                     |         |
|        |      |        |         |      |        |              |                     |         |
|        |      |        |         |      |        |              |                     |         |
|        |      |        |         |      |        |              |                     |         |

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 added or left in the well, give its size and location. If the well has been dynamited, give date, 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.

MUDDING AND CEMENTING RECORD

| Where set | Number sacks of cement | Method used | Kind of mud | Amount of mud used |
|-----------|------------------------|-------------|-------------|--------------------|
|           |                        |             |             |                    |
|           |                        |             |             |                    |
|           |                        |             |             |                    |
|           |                        |             |             |                    |
|           |                        |             |             |                    |
|           |                        |             |             |                    |
|           |                        |             |             |                    |
|           |                        |             |             |                    |
|           |                        |             |             |                    |

PLUGS AND ADAPTERS

Heavy plug—Material \_\_\_\_\_  
Adapters—Material \_\_\_\_\_  
Length \_\_\_\_\_  
Size \_\_\_\_\_  
Depth set \_\_\_\_\_

SHOOTING RECORD

| Size | Shell used | Explosive used | Quantity | Date | Depth shot | Depth cleaned out |
|------|------------|----------------|----------|------|------------|-------------------|
|      |            |                |          |      |            |                   |
|      |            |                |          |      |            |                   |
|      |            |                |          |      |            |                   |
|      |            |                |          |      |            |                   |
|      |            |                |          |      |            |                   |
|      |            |                |          |      |            |                   |
|      |            |                |          |      |            |                   |
|      |            |                |          |      |            |                   |
|      |            |                |          |      |            |                   |

TOOLS USED

Rotary tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet.  
Cable tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet.

DATES

But to producing \_\_\_\_\_  
The production for the first 24 hours was \_\_\_\_\_ barrels of fluid of which \_\_\_\_\_ % was oil, \_\_\_\_\_ % gas, and \_\_\_\_\_ % water and \_\_\_\_\_ % sediment.

FORMATION RECORD

| FORMATION      | FEET | FORMATION      | FEET | FORMATION      | FEET | FORMATION      | FEET | FORMATION      | FEET |
|----------------|------|----------------|------|----------------|------|----------------|------|----------------|------|
| Gray Limestone | 1790 | Gray Limestone | 1778 | Gray Limestone | 1765 | Gray Limestone | 1752 | Gray Limestone | 1739 |
| Gray Limestone | 1726 | Gray Limestone | 1713 | Gray Limestone | 1700 | Gray Limestone | 1687 | Gray Limestone | 1674 |
| Gray Limestone | 1661 | Gray Limestone | 1648 | Gray Limestone | 1635 | Gray Limestone | 1622 | Gray Limestone | 1609 |
| Gray Limestone | 1596 | Gray Limestone | 1583 | Gray Limestone | 1570 | Gray Limestone | 1557 | Gray Limestone | 1544 |
| Gray Limestone | 1531 | Gray Limestone | 1518 | Gray Limestone | 1505 | Gray Limestone | 1492 | Gray Limestone | 1479 |
| Gray Limestone | 1464 | Gray Limestone | 1451 | Gray Limestone | 1438 | Gray Limestone | 1425 | Gray Limestone | 1412 |
| Gray Limestone | 1395 | Gray Limestone | 1382 | Gray Limestone | 1369 | Gray Limestone | 1356 | Gray Limestone | 1343 |
| Gray Limestone | 1324 | Gray Limestone | 1311 | Gray Limestone | 1298 | Gray Limestone | 1285 | Gray Limestone | 1272 |
| Gray Limestone | 1251 | Gray Limestone | 1238 | Gray Limestone | 1225 | Gray Limestone | 1212 | Gray Limestone | 1199 |
| Gray Limestone | 1188 | Gray Limestone | 1175 | Gray Limestone | 1162 | Gray Limestone | 1149 | Gray Limestone | 1136 |
| Gray Limestone | 1123 | Gray Limestone | 1110 | Gray Limestone | 1097 | Gray Limestone | 1084 | Gray Limestone | 1071 |
| Gray Limestone | 1056 | Gray Limestone | 1043 | Gray Limestone | 1030 | Gray Limestone | 1017 | Gray Limestone | 1004 |
| Gray Limestone | 991  | Gray Limestone | 978  | Gray Limestone | 965  | Gray Limestone | 952  | Gray Limestone | 939  |
| Gray Limestone | 924  | Gray Limestone | 911  | Gray Limestone | 898  | Gray Limestone | 885  | Gray Limestone | 872  |
| Gray Limestone | 857  | Gray Limestone | 844  | Gray Limestone | 831  | Gray Limestone | 818  | Gray Limestone | 805  |
| Gray Limestone | 790  | Gray Limestone | 777  | Gray Limestone | 764  | Gray Limestone | 751  | Gray Limestone | 738  |
| Gray Limestone | 723  | Gray Limestone | 710  | Gray Limestone | 697  | Gray Limestone | 684  | Gray Limestone | 671  |
| Gray Limestone | 654  | Gray Limestone | 641  | Gray Limestone | 628  | Gray Limestone | 615  | Gray Limestone | 602  |
| Gray Limestone | 585  | Gray Limestone | 572  | Gray Limestone | 559  | Gray Limestone | 546  | Gray Limestone | 533  |
| Gray Limestone | 516  | Gray Limestone | 503  | Gray Limestone | 490  | Gray Limestone | 477  | Gray Limestone | 464  |
| Gray Limestone | 445  | Gray Limestone | 432  | Gray Limestone | 419  | Gray Limestone | 406  | Gray Limestone | 393  |
| Gray Limestone | 374  | Gray Limestone | 361  | Gray Limestone | 348  | Gray Limestone | 335  | Gray Limestone | 322  |
| Gray Limestone | 301  | Gray Limestone | 288  | Gray Limestone | 275  | Gray Limestone | 262  | Gray Limestone | 249  |
| Gray Limestone | 238  | Gray Limestone | 225  | Gray Limestone | 212  | Gray Limestone | 199  | Gray Limestone | 186  |
| Gray Limestone | 173  | Gray Limestone | 160  | Gray Limestone | 147  | Gray Limestone | 134  | Gray Limestone | 121  |
| Gray Limestone | 108  | Gray Limestone | 95   | Gray Limestone | 82   | Gray Limestone | 69   | Gray Limestone | 56   |
| Gray Limestone | 41   | Gray Limestone | 28   | Gray Limestone | 15   | Gray Limestone | 2    | Gray Limestone | 0    |
| Gray Limestone | 0    | Gray Limestone | 0    | Gray Limestone | 0    | Gray Limestone | 0    | Gray Limestone | 0    |

FORMATION RECORD—Continued