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AREA 640 ACRES  
LOCATE WELL CORRECTLY

N. M. O. C. COPY  
NEW MEXICO OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico

RECEIVED

MAR 11 1960  
U. S. GEOLOGICAL SURVEY  
ARTESIA, NEW MEXICO

WELL RECORD

INDEX OFFICE  
N-190816799  
MAR 11 1960 AM 9:54

Mail to District Office, Oil Conservation Commission, to which Form C-101 was sent not later than twenty days after completion of well. Follow instructions in Rules and Regulations of the Commission. Submit in QUINTUPLICATE. If State Land submit 6 Copies

Santiago Oil & Gas Company  
(Company or Operator)

Atlantic Federal  
(Lease)

Well No. 2, in SE 1/4 of NE 1/4, of Sec 4, T. 17 N., R. 32 E., NMPM.

Roberts

Pool,

Lea

County.

Well is 1980 feet from North line and 660 feet from East line of Section 4. If State Land the Oil and Gas Lease No. is Federal Lease No. N-190816799

Drilling Commenced 2-24-60, 19. Drilling was Completed 3-10-60, 19.

Name of Drilling Contractor Great Western Drilling Company

Address P. O. Box 1659, Midland, Texas

Elevation above sea level at Top of Tubing Head 4217.7. The information given is to be kept confidential until not confidential, 19.

OIL SANDS OR ZONES

No. 1, from 4005 to 4011 No. 4, from 4087 to 4089  
No. 2, from 4058 to 4061 No. 5, from 4093 to 4097  
No. 3, from 4077 to 4083 No. 6, from 4120 to 4123

IMPORTANT WATER SANDS

4126 4129  
4176 4181  
4183 4190  
Include data on rate of water inflow and elevation to which water rose in hole.  
No. 1, from to feet.  
No. 2, from to feet.  
No. 3, from to feet.  
No. 4, from to feet.

CASING RECORD

| SIZE   | WEIGHT PER FOOT | NEW OR USED | AMOUNT | KIND OF SHOE | CUT AND PULLED FROM | PERFORATIONS | PURPOSE    |
|--------|-----------------|-------------|--------|--------------|---------------------|--------------|------------|
| 8 5/8" | 24              | N           | 313    | Halliburton  |                     |              | surface    |
| 5 1/2" | 14              | N           | 4398   |              |                     |              | oil string |

MUDDING AND CEMENTING RECORD

| SIZE OF HOLE | SIZE OF CASING | WHERE SET | NO. SACKS OF CEMENT | METHOD USED   | MUD GRAVITY | AMOUNT OF MUD USED |
|--------------|----------------|-----------|---------------------|---------------|-------------|--------------------|
| 12 1/4"      | 8 5/8"         | 323       | 250                 | Pump and plug |             |                    |
| 7 7/8"       | 5 1/2"         | 4407      | 300                 |               |             |                    |

RECORD OF PRODUCTION AND STIMULATION

(Record the Process used, No. of Qts. or Gals. used, interval treated or shot.)

Frac using 4,000 gal. acid, 35,000 gal. refined oil, 75,000 lb. sand

Result of Production Stimulation flowing

Depth Cleaned Out

RECORD OF DRILL-STEM AND SPECIAL TESTS

If drill-stem or other special tests or deviation surveys were made, submit report on separate sheet and attach hereto

TOOLS USED

Rotary tools were used from 0 feet to 10 feet, and from feet to feet.  
Cable tools were used from feet to feet, and from feet to feet.

PRODUCTION

Put to Producing 3-15-60, 19.  
OIL WELL: The production during the first 24 hours was 43 barrels of liquid of which 100% was  
was oil; 0% was emulsion; 0% water; and 0% was sediment. A.P.I.  
Gravity 35.5  
GAS WELL: The production during the first 24 hours was 0 M.C.F. plus 0 barrels of  
liquid Hydrocarbon. Shut in Pressure 0 lbs.  
Length of Time Shut in none

PLEASE INDICATE BELOW FORMATION TOPS (IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE):

| Southeastern New Mexico |            |  | Northwestern New Mexico |  |                       |
|-------------------------|------------|--|-------------------------|--|-----------------------|
| T. Anhy.                | 1151       |  | T. Devonian             |  | T. Ojo Alamo          |
| T. Salt.                | 1287       |  | T. Silurian             |  | T. Kirtland-Fruitland |
| B. Salt.                | 2457       |  | T. Montoya              |  | T. Farmington         |
| T. Yates.               | 2457       |  | T. Simpson              |  | T. Pictured Cliffs    |
| T. 7 Rivers.            | Not picked |  | T. McKee                |  | T. Menefee            |
| T. Queen.               | 3400       |  | T. Ellenburger          |  | T. Point Lookout      |
| T. Grayburg.            | 4060       |  | T. Gr. Wash.            |  | T. Mancos             |
| T. San Andres.          | 4166       |  | T. Granite              |  | T. Dakota             |
| T. Glorieta             |            |  | T.                      |  | T. Morrison           |
| T. Drinkard             |            |  | T.                      |  | T. Penn.              |
| T. Tubbs                |            |  | T.                      |  | T.                    |
| T. Abo                  |            |  | T.                      |  | T.                    |
| T. Penn.                |            |  | T.                      |  | T.                    |
| T. Miss.                |            |  | T.                      |  | T.                    |

FORMATION RECORD

| From | To   | Thickness<br>in Feet | Formation       | From | To | Thickness<br>in Feet | Formation |
|------|------|----------------------|-----------------|------|----|----------------------|-----------|
| 0    | 230  | 230                  | Sand and gravel |      |    |                      |           |
| 230  | 1151 | 901                  | Red shale       |      |    |                      |           |
| 1151 | 1287 | 136                  | Anhydrite       |      |    |                      |           |
| 1287 | 2457 | 1170                 | Salt            |      |    |                      |           |
| 2457 | 3400 | 943                  | Shale           |      |    |                      |           |
| 3400 | 4060 | 660                  | Sand and shale  |      |    |                      |           |
| 4060 | 4166 | 350                  | Belomite        |      |    |                      |           |
|      | TD   |                      |                 |      |    |                      |           |

ATTACH SEPARATE SHEET IF ADDITIONAL SPACE IS NEEDED

I hereby swear or affirm that the information given herewith is a complete and correct record of the well and all work done on it so far as can be determined from available records.

March 16, 1960

Company or Operator SANTIAGO OIL & GAS COMPANY  
Name Dick Cousin

Address P. O. Box 1663, Midland, Texas  
Position or Title Secretary-Treasurer