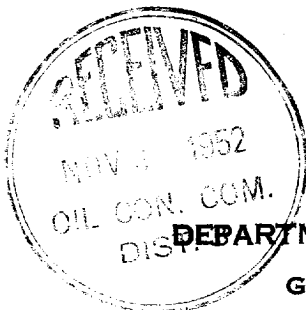
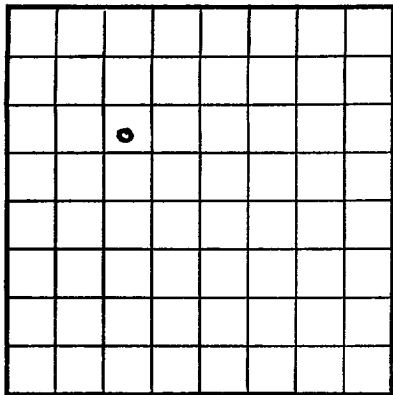
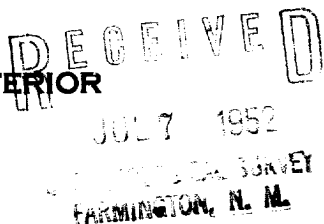


Form 9-880



U. S. LAND OFFICE Santa Fe  
SERIAL NUMBER 077651  
LEASE OR PERMIT TO PROSPECT \_\_\_\_\_

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY



LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company AZTEC OIL AND GAS COMPANY Address 1104 Burt Building, Dallas, Texas  
Lessor or Tract Richardson Field Blanco-LaPlata State New Mexico  
Well No. 4 Sec. 10 T. 31-NR.12-W Meridian N.M.P.M. County San Juan  
Location 1650ft. {XX} of N Line and 1650ft. {E} of W Line of Section 10 Elevation 6287.61  
(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 Van Thompson  
Title Manager - Exploration Dept.

Date July 1, 1952

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

Commenced drilling April 17, 1952. Finished drilling June 21, 1952.

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

No. 1, from 4390 to 4520 No. 4, from \_\_\_\_\_ to \_\_\_\_\_  
No. 2, from 5072 to 5205 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 |     | Purpose    |
|-------------|-----------------|------------------|------|--------|--------------|---------------------|------------|-----|------------|
|             |                 |                  |      |        |              |                     | From—      | To— |            |
| 10-3/4"     | 40.5#           |                  | H-40 | 138'   |              |                     |            |     | Surface    |
| 7"          | 17#             |                  | H-40 | 1530'  |              |                     |            |     | Production |
| 7"          | 20#             |                  | J-55 | 2830'  |              |                     |            |     | Production |
| 5-1/2"      | liner           |                  |      | 710'   |              |                     |            |     | Production |
| 2-3/8"      | tubing          |                  | J-55 | 5280'  |              |                     |            |     | Production |

MUDDING AND CEMENTING RECORD

| Size casing | Where set | Number sacks of cement | Method used | Mud gravity | Amount of mud used |
|-------------|-----------|------------------------|-------------|-------------|--------------------|
| 10-3/4"     | 137'      | 100 sacks              | Halliburton |             |                    |
| 7"          | 4340'     | 275 sacks              | Halliburton |             |                    |
| 5-1/2"      | 5005'     | 90 sacks               | Halliburton |             |                    |

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 |
|------|------------|-----------------|----------|------|------------|-------------------|
|      |            | Nitro Glycerine | 670 qts. | 6-21 | 5060-5359  | 5359'             |

TOOLS USED

Rotary tools were used from 0 feet to 4340 feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet  
Cable tools were used from 4340 feet to 5359 feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

DATES

June 21, 1952 Put to producing \_\_\_\_\_, 19\_\_\_\_

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 2930 MCF/6 hrs Gallons gasoline per 1,000 cu. ft. of gas \_\_\_\_\_

Rock pressure, lbs. per sq. in. 1062#/72 hrs.

EMPLOYEES

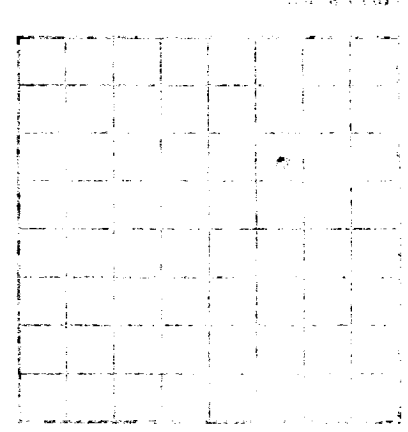
Denman Drilling Co. - Rotary, Driller \_\_\_\_\_, Driller  
M. B. Gromley, Driller H. H. McDonald, Driller

FORMATION RECORD

| FROM— | TO—  | TOTAL FEET | FORMATION            |
|-------|------|------------|----------------------|
| 0     | 217  | 217        | Surface              |
| 217   | 350  | 133        | Shale                |
| 350   | 2400 | 2050       | Sand & shale         |
| 2400  | 2570 | 170        | Shale                |
| 2570  | 2950 | 420        | Sand & shale         |
| 2950  | 3040 | 90         | Shale, shells & sand |
| 3040  | 3378 | 338        | Shale                |
| 3378  | 3556 | 178        | Shale & sand         |
| 3556  | 3870 | 314        | Shale                |
| 3870  | 416  | 29         | Sand & shale         |
| 416   | 4183 | 22         | Sand                 |
| 4183  | 4296 | 113        | Sand & shale         |
| 4296  | 4315 | 19         | Sand                 |
| 4315  | 4340 | 20         | Sand & shale         |
| 4340  | 4342 | 2          | Sand & shale         |
| 4342  | 4380 | 38         | Broken sand stone    |
| 4380  | 4455 | 75         | Sand                 |
| 4455  | 4490 | 35         | Sand & shale         |
| 4490  | 4560 | 70         | Sand                 |
| 4560  | 4565 | 5          | Sandstones           |
| 4565  | 4615 | 50         | Black shale & coal   |
| 4615  | 4638 | 20         | Shale                |
| 4638  |      | 10         | Black shale & coal   |

U. S. GEOLOGICAL SURVEY  
DEPARTMENT OF THE INTERIOR  
WASHINGTON, D. C.

LOG OF OIL OR GAS WELL



The information given herewith is a summary of the well log and all other data so far as can be obtained from the well log.

The summary of this page is for the condition of the well as above data.

| DEPTH     | FORMATION          | REMARKS |
|-----------|--------------------|---------|
| 0 to 10   | Black shale & coal |         |
| 10 to 20  | Sandstone          |         |
| 20 to 30  | Shale & coal       |         |
| 30 to 40  | Shale              |         |
| 40 to 50  | Sandstone          |         |
| 50 to 60  | Shale & sand       |         |
| 60 to 70  | Sandstone          |         |
| 70 to 80  | Shale              |         |
| 80 to 90  | Shale & sand       |         |
| 90 to 100 | Shale              |         |

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 "detracked" 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 pipes or bridges were put in to test for water, state kind of material used, position, and results of pumping or running.

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| FROM | TO    | TOTAL FEET | FORMATION          |
|------|-------|------------|--------------------|
| 4638 | 4645  | 7          | Black shale & coal |
| 4645 | 4655  | 10         | Sandstone          |
| 4655 | 4680  | 25         | Shale & coal       |
| 4680 | 4720  | 40         | Sandstone          |
| 4720 | 4730  | 10         | Shale              |
| 4730 | 4780  | 50         | Sandstone          |
| 4780 | 4800  | 20         | Shale & coal       |
| 4800 | 4815  | 15         | Shale              |
| 4815 | 4830  | 15         | Coal & shale       |
| 4830 | 4895  | 65         | Shale              |
| 4895 | 5048  | 153        | Sandstone          |
| 5048 | 5105  | 57         | Shale & sand       |
| 5105 | 5310  | 205        | Sandstone          |
| 5310 | 5370  | 60         | Sand & shale       |
| 5370 | 5470  | 100        | Shale              |
| 5470 | 5570  | 100        | Shale & sand       |
| 5570 | 5670  | 100        | Shale              |
| 5670 | 5770  | 100        | Shale & sand       |
| 5770 | 5870  | 100        | Shale              |
| 5870 | 5970  | 100        | Shale & sand       |
| 5970 | 6070  | 100        | Shale              |
| 6070 | 6170  | 100        | Shale & sand       |
| 6170 | 6270  | 100        | Shale              |
| 6270 | 6370  | 100        | Shale & sand       |
| 6370 | 6470  | 100        | Shale              |
| 6470 | 6570  | 100        | Shale & sand       |
| 6570 | 6670  | 100        | Shale              |
| 6670 | 6770  | 100        | Shale & sand       |
| 6770 | 6870  | 100        | Shale              |
| 6870 | 6970  | 100        | Shale & sand       |
| 6970 | 7070  | 100        | Shale              |
| 7070 | 7170  | 100        | Shale & sand       |
| 7170 | 7270  | 100        | Shale              |
| 7270 | 7370  | 100        | Shale & sand       |
| 7370 | 7470  | 100        | Shale              |
| 7470 | 7570  | 100        | Shale & sand       |
| 7570 | 7670  | 100        | Shale              |
| 7670 | 7770  | 100        | Shale & sand       |
| 7770 | 7870  | 100        | Shale              |
| 7870 | 7970  | 100        | Shale & sand       |
| 7970 | 8070  | 100        | Shale              |
| 8070 | 8170  | 100        | Shale & sand       |
| 8170 | 8270  | 100        | Shale              |
| 8270 | 8370  | 100        | Shale & sand       |
| 8370 | 8470  | 100        | Shale              |
| 8470 | 8570  | 100        | Shale & sand       |
| 8570 | 8670  | 100        | Shale              |
| 8670 | 8770  | 100        | Shale & sand       |
| 8770 | 8870  | 100        | Shale              |
| 8870 | 8970  | 100        | Shale & sand       |
| 8970 | 9070  | 100        | Shale              |
| 9070 | 9170  | 100        | Shale & sand       |
| 9170 | 9270  | 100        | Shale              |
| 9270 | 9370  | 100        | Shale & sand       |
| 9370 | 9470  | 100        | Shale              |
| 9470 | 9570  | 100        | Shale & sand       |
| 9570 | 9670  | 100        | Shale              |
| 9670 | 9770  | 100        | Shale & sand       |
| 9770 | 9870  | 100        | Shale              |
| 9870 | 9970  | 100        | Shale & sand       |
| 9970 | 10070 | 100        | Shale              |