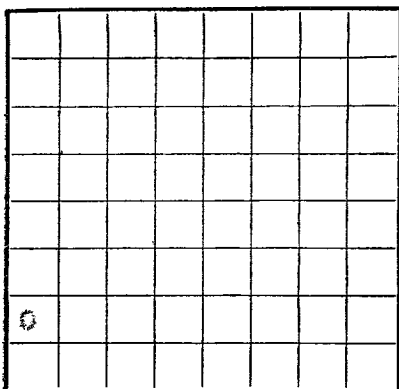
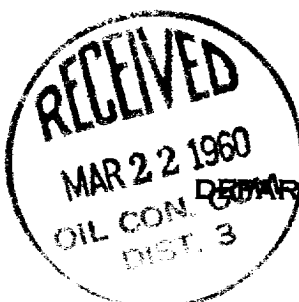


U. S. LAND OFFICE Santa FeSERIAL NUMBER SF 078198LEASE OR PERMIT TO PROSPECT Lease

LOCATE WELL CORRECTLY

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYRECEIVED  
MAR 11 1960U. S. GEOLOGICAL SURVEY  
WASHINGTON, D. C. 20540

## LOG OF OIL OR GAS WELL

Company Astec Oil & Gas Company Address Box # 706, Farmington, New Mexico  
Lessor or Tract None Field Astec, Pictured Cliffs New Mexico  
Well No. 6 Sec. 12 T. 30N R. 11W Meridian N.M.P.M. County San Juan  
Location 1550ft. [N.] of S. Line and 1190ft. [E.] of W. Line of Section 12 Elevation 5925 O.L.  
(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 ORIGINAL SIGNED BY JOE C. SALMONDate March 16, 1960Title Joe C. Salmon  
District Superintendent

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

Commenced drilling 2/23/60, 1960 Finished drilling 2/27/60, 1960

## OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 2436 to 2481 (G) 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 |     | Purpose |
|---------------------------|-----------------|------------------|------|--------|--------------|---------------------|------------|-----|---------|
|                           |                 |                  |      |        |              |                     | From—      | To— |         |
| 7 5/8                     | 11.3            | 10               | 10   | 100    | 10           | 10                  | 10         | 10  | 10      |
| 2 7/8                     | 8.3             | 10               | 10   | 75     | 10           | 10                  | 10         | 10  | 10      |
| HISTORY OF CUT OR CVD MET |                 |                  |      |        |              |                     |            |     |         |

## MUDDING AND CEMENTING RECORD

| Size casing | Where set | Number sacks of cement | Method used  | Mud gravity | Amount of mud used |
|-------------|-----------|------------------------|--------------|-------------|--------------------|
| 7 5/8       | 103       | 100                    | displacement |             |                    |
| 2 7/8       | 2499      | 75                     | two-plug     |             |                    |

## 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 |
|------|------------|----------------|----------|------|------------|-------------------|
|------|------------|----------------|----------|------|------------|-------------------|

Sand-water fraced with 40,000 sand and 830 bbls. water and 15 gal. G-2  
Breakdown pressure 4000 psi back to 1500 psi, Maximum treating pressure - 1850 psi, Minimum 1500 psi  
I.R. - 24 bps, initial shut-in pressure - 200 psi

## TOOLS USED

Rotary tools were used from \_\_\_\_\_ feet to 2525 feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet  
Cable tools were used from \_\_\_\_\_ feet to 2480 feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

## DATES

\_\_\_\_\_, 19\_\_\_\_ 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 \_\_\_\_\_ Gallons gasoline per 1,000 cu. ft. of gas \_\_\_\_\_

Rock pressure, lbs. per sq. in. 569

## EMPLOYEES

\_\_\_\_\_, Driller \_\_\_\_\_, Driller  
\_\_\_\_\_, Driller \_\_\_\_\_, Driller

## FORMATION RECORD

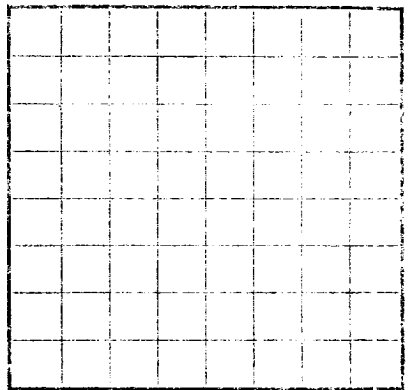
| FROM— | TO—  | TOTAL FEET | FORMATION    |
|-------|------|------------|--------------|
| 0     | 107  | 107        | Surface      |
| 107   | 1111 | 1004       | Sand & Shale |
| 1111  | 1731 | 620        | Sand & Shale |
| 1731  | 2419 | 688        | Sand & Shale |
| 2419  | 2510 | 91         | Sand         |
| 2510  | 2525 | 15         | Sand & Shale |

FORMATION RECORD—Continued

16-48024-4

Top of the Pictured Cliffs - 2432'

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY



LOCATE WELL CORRECTLY

\_\_\_\_\_

|       |    |           |       |    |           |
|-------|----|-----------|-------|----|-----------|
| ..... | to | from 1.0% | ..... | to | from 1.0% |
| ..... | to | from 5.0% | ..... | to | from 5.0% |
| ..... | to | from 8.0% | ..... | to | from 8.0% |

|    |      |      |    |      |      |
|----|------|------|----|------|------|
| of | 1000 | 0.01 | of | 1000 | 0.01 |
| of | 1000 | 0.01 | of | 1000 | 0.01 |

[illegible]

## HISTORY OF OIL OR GAS WELL

| Best time to demand | Y-axis label | Best benefit | Impact of relative demand | Best $\alpha$ | Best $\beta$ |
|---------------------|--------------|--------------|---------------------------|---------------|--------------|
|---------------------|--------------|--------------|---------------------------|---------------|--------------|

|  |       |          |
|--|-------|----------|
|  | Date  | Page No. |
|  | <hr/> | <hr/>    |

|    |      |    |      |
|----|------|----|------|
| to | from | to | from |
| to | from | to | from |

[illegible]

|                      |             |             |             |
|----------------------|-------------|-------------|-------------|
| ..... 341° (divided) | includes 37 | includes 37 | includes 37 |
|----------------------|-------------|-------------|-------------|

|        |        |
|--------|--------|
| Driver | Driver |
| Driver | Driver |

|           |       |    |      |
|-----------|-------|----|------|
| FORM 1041 | TOTAL | TO | FROM |
|-----------|-------|----|------|

TEMP JATOT

—OT

.. 20.03.2002

LEFT TEND

## —OI

## NOTES

**FORMATION RECORD—Continued**