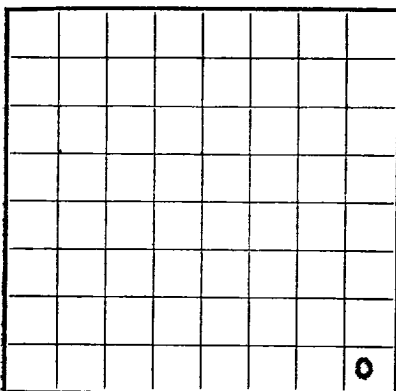
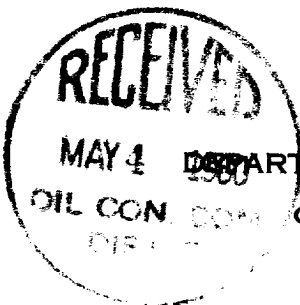
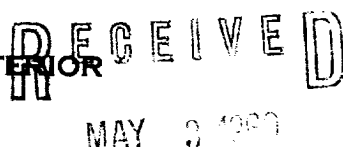




LOCATE WELL CORRECTLY

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYU. S. GEOLOGICAL SURVEY  
FARMINGTON, NEW MEXICO

## LOG OF OIL OR GAS WELL

Company Astec Oil & Gas Company Address Box # 706, Farmington, New Mexico  
Lessor or Tract Hagood Field Undesignated Dakota State New Mexico  
Well No. 5 Sec. 29 T. 29N R. 13W Meridian N.M.P.M. County San Juan  
Location 790 ft. N. of S. Line and 790 ft. W. of E. Line of Section 29 Elevation 5830 C.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 April 27, 1960Title Joe C. Salmon  
District Superintendent

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

Commenced drilling 3/21/60, 19\_\_\_\_ Finished drilling 4/2/60, 19\_\_\_\_

## OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 6316 to 6332 No. 4, from \_\_\_\_\_ to \_\_\_\_\_  
No. 2, from 6124 to 6150 (G) No. 5, from \_\_\_\_\_ to \_\_\_\_\_  
No. 3, from 6214 to 6226 (G) 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— |         |
| <u>8 5/8</u> | <u>23.4</u>     | <u>8</u>         | <u>J-55</u> | <u>1210</u> | <u>Oil OK</u> | <u>CVE MERT</u>     |            |     |         |
| <u>4 1/2</u> | <u>9.5</u>      | <u>8</u>         | <u>J-55</u> | <u>5746</u> |               |                     |            |     |         |
| <u>2 3/8</u> | <u>4.7</u>      | <u>8</u>         | <u>J-55</u> | <u>1210</u> |               |                     |            |     |         |

## 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>334</u>  | <u>225</u>             | <u>displacement</u> |             |                    |
| <u>4 1/2</u> | <u>6350</u> | <u>125</u>             | <u>two plug</u>     |             |                    |
| <u>2 3/8</u> | <u>6051</u> | <u>---</u>             |                     |             |                    |

## 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 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------|----------|------|------------|-------------------|
| <u>Sand-water fraced with 1270 Bolls. water and 50,000# sand Breakdown pressure - 3000#</u><br><u>Treating pressure - 2325#, Shut in pressure - 500, I.R. - 44.8 bps</u> |            |                |          |      |            |                   |

## TOOLS USED

Rotary tools were used from 0 feet to 6350 feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet  
Cable tools were used from 0 feet to 6342 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 AGF - 1644 Gallons gasoline per 1,000 cu. ft. of gas \_\_\_\_\_Rock pressure, lbs. per sq. in. 2032

## EMPLOYEES

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

## FORMATION RECORD

| FROM—       | TO—         | TOTAL FEET  | FORMATION               |
|-------------|-------------|-------------|-------------------------|
| <u>0</u>    | <u>238</u>  | <u>238</u>  | <u>Surface</u>          |
| <u>238</u>  | <u>335</u>  | <u>97</u>   | <u>Sand</u>             |
| <u>335</u>  | <u>1552</u> | <u>1217</u> | <u>Sand &amp; Shale</u> |
| <u>1552</u> | <u>2006</u> | <u>454</u>  | <u>Shale</u>            |
| <u>2006</u> | <u>2608</u> | <u>602</u>  | <u>Sand &amp; Shale</u> |
| <u>2608</u> | <u>3220</u> | <u>612</u>  | <u>Sand &amp; Shale</u> |
| <u>3220</u> | <u>3695</u> | <u>475</u>  | <u>Sand &amp; Shale</u> |
| <u>3695</u> | <u>4308</u> | <u>613</u>  | <u>Sand &amp; Shale</u> |
| <u>4308</u> | <u>4421</u> | <u>113</u>  | <u>Shale</u>            |
| <u>4421</u> | <u>4707</u> | <u>286</u>  | <u>Sand &amp; Shale</u> |
| <u>4707</u> | <u>4861</u> | <u>154</u>  | <u>Shale</u>            |
| <u>4861</u> | <u>5155</u> | <u>294</u>  | <u>Sand &amp; Shale</u> |
| <u>5155</u> | <u>5248</u> | <u>93</u>   | <u>Shale</u>            |
| <u>5248</u> | <u>5517</u> | <u>269</u>  | <u>Sand &amp; Shale</u> |
| <u>5517</u> | <u>5590</u> | <u>73</u>   | <u>Shale</u>            |
| <u>5590</u> | <u>5808</u> | <u>218</u>  | <u>Sand &amp; Shale</u> |
| <u>5808</u> | <u>5820</u> | <u>12</u>   | <u>Shale</u>            |
| <u>5820</u> | <u>5875</u> | <u>55</u>   | <u>Sand &amp; Shale</u> |
| <u>5875</u> | <u>5923</u> | <u>48</u>   | <u>Shale</u>            |
| <u>5923</u> | <u>6180</u> | <u>257</u>  | <u>Sand &amp; Shale</u> |
| <u>6180</u> | <u>6204</u> | <u>24</u>   | <u>Sand</u>             |
| <u>6204</u> | <u>6297</u> | <u>93</u>   | <u>Sand</u>             |
| <u>6297</u> | <u>6350</u> | <u>53</u>   | <u>Sand</u>             |

FORMATION RECORD—Continued

16—48094-4

Tops of formations:

Top of Pictured Cliffs - 1549'

Top of Dakota - 6110'

[illegible]

The sum of \$\_\_\_\_\_ on this page is for the condition of the well at above date.

THIS PAGE IS TO BE SIGNED BY THE LANDLORD

Signed \_\_\_\_\_

RECEIVED BY THE TENANT

RECEIVED BY THE TENANT

. . . . . 19 . . . . . finished drillingoil or gas sands or zones

(C) no one does

|            |    |            |    |
|------------|----|------------|----|
| No. 1 from | to | No. 4 from | to |
| No. 2 from | to | No. 5 from | to |
| No. 3 from | to | No. 6 from | to |

|                      |                      |
|----------------------|----------------------|
| ..... Cl ..... mol % | ..... Cl ..... mol % |
| ..... Cl ..... mol % | ..... Cl ..... mol % |

## 4?190717 041242

## HISTORY OF OIL OR GAS WELL

[illegible]

.....

C90025 ONTIO-CTF

[illegible]
'1901 ..... of 1901 ..... and from ..... to ..... were made from .....

## EST ESTAD

## EMPLOYEES

. Driller
20