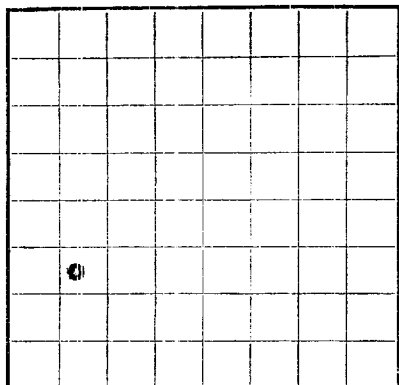


U. S. LAND OFFICE Santa Fe  
SERIAL NUMBER W-01772-1  
LEASE OR PERMIT TO PROSPECT \_\_\_\_\_



LOCATE WELL CORRECTLY

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Astec Oil & Gas Company Address Box 736, Farmington, New Mexico  
Lessor or Tract Raid Field Astec Extension State New Mexico  
Well No. 10 Sec. 17 T. 28 R. 9 Meridian N.T.P.M. County San Juan  
Location 1720 ft. N. of S. Line and 1050 ft. E. of W. Line of Sec. 17 Elevation 5828  
(Derriek 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 \_\_\_\_\_

Date October 1, 1956 Title Drilling Superintendent

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

Commenced drilling June 12, 1956 Finished drilling June 27, 1956

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

No. 1, from 2050 to 2112 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—	
<u>8 5/8</u>	<u>24 1/2</u>	<u>8rd</u>		<u>179'</u>					
<u>5 1/2</u>	<u>21 1/2</u>	<u>8rd</u>		<u>2112'</u>	<u>HWCO</u>		<u>2062</u>	<u>2112</u>	
<u>1"</u>	<u>16 7/8</u>	<u>10rd</u>		<u>2063'</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>139</u>	<u>110</u>			
<u>5 1/2</u>	<u>2119</u>	<u>150</u>			
<u>1"</u>	<u>2093</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 free from 2062-2112 with 13,500 gallons water, 50,000 lbs. sand, Flushed with 11,000 gallons water. Breakdown Pressure 2100 lbs., Treating Pressure 1100 lbs. Final 750 lbs., Injection Rate 33.7 barrels per minute.</u>						

TOOLS USED

Rotary tools were used from 0 feet to 2119 feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet  
Cable tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

DATES

July 6, 1956 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 NOT LOGGED Gallons gasoline per 1,000 cu. ft. of gas \_\_\_\_\_

Rock pressure, lbs. per sq. in. 638 Volcan through 3/4" choke 1005 NOT

EMPLOYEES

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

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>0</u>	<u>28</u>	<u>28</u>	<u>Sand</u>
<u>28</u>	<u>60</u>	<u>32</u>	<u>Sandstone</u>
<u>60</u>	<u>90</u>	<u>30</u>	<u>Sandstone</u>
<u>90</u>	<u>92</u>	<u>2</u>	<u>Sandstone</u>
<u>92</u>	<u>95</u>	<u>3</u>	<u>Sandstone</u>
<u>95</u>	<u>118</u>	<u>23</u>	<u>Water and Sand</u>
<u>118</u>	<u>158</u>	<u>40</u>	<u>Sandstone</u>
<u>158</u>	<u>136</u>	<u>28</u>	<u>Shale</u>
<u>136</u>	<u>198</u>	<u>12</u>	<u>Blue Shale</u>
<u>198</u>	<u>991</u>	<u>793</u>	<u>Sand and Shale</u>
<u>991</u>	<u>1274</u>	<u>283</u>	<u>Sand and Shale</u>
<u>1274</u>	<u>1502</u>	<u>228</u>	<u>Sand and Shale</u>
<u>1502</u>	<u>2090</u>	<u>588</u>	<u>Sand and Shale</u>
<u>2090</u>	<u>2119</u> TD	<u>29</u>	<u>Sand and Shale</u>
			<u>Schlumberger Top:</u>
			<u>Pictured Cliffs 2050</u>

**FORMATION RECORD—Continued**[illegible]

### 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 "sidetracked" 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 plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

16-42004-2 U. S. GOVERNMENT PRINTING OFFICE

# THE LIFE OF CHAS. WATSON

7000 11 5 68

## SYNOPSIS

DATE: 01-10-1983

67 FEBRUARY 1972

DEPARTMENT OF THE ARMY

\* 2002 DANCE

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