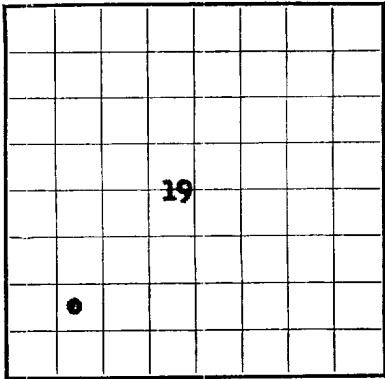


U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 078134
LEASE OR PERMIT TO PROSPECT YES



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Astec Oil & Gas Company Address Dart Building, Dallas 1, Texas
Lessor or Tract Crandell Field Blanco State New Mexico
Well No. 2 Sec. 19 T. 31N R. 10W Meridian N.M.P.M. County San Juan
Location 990 ft. N of S Line and 990 ft. E of W Line of Section 19 Elevation 5919 DF
(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

Date January 8, 1954 Title Vice-President

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

Commenced drilling November 18, 1953, 19..... Finished drilling December 22, 1953, 19.....

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 4178 to 4950 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—	
<u>10-3/4 7"</u>	<u>32.75</u> <u>20</u>		<u>155</u> <u>1.55</u>	<u>216'</u> <u>4817</u>					<u>Surface</u> <u>Production</u>
<u>2-3/4 1 1/2"</u>	<u>6.78</u>			<u>4970'</u> <u>4844-5062</u>					

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>10-3/4 7"</u>	<u>215</u> <u>4800</u>	<u>200</u> <u>300</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>Nitro Glycerine</u> <u>200</u>	<u>864</u>	<u>12/21/53</u>	<u>4844-5062</u>	<u>5070</u>
		<u>Tested 200 MCF natural</u>				

TOOLS USED

Rotary tools were used from 0 feet to 4800 feet, and from _____ feet to _____ feet
Cable tools were used from 4800 feet to 5070 feet, and from _____ feet to _____ feet

DATES

December 22, 1953, 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 2178 MCF/24 hr Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. 10450 - SI 192 hours

U.S. Land Office
Seward, Nebraska
LEADS OR PERMIT TO PROSPECT

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

1. STATEMENT OF WORK

The information given here is a complete and correct record of the well and all work done thereon
so far as the formation has all available records.

Well No. _____ and T.D. _____
Location _____
of _____
County _____ State _____

Company _____
Address _____
Field _____
State _____
County _____

(Print or type name of person)
Elevation _____

CONFIDENTIAL

OT OF SANDS AND NO MORE NO MORE

Date		Description		Amount	
1911	10/1	to	10/1	10/1	10/1
1911	10/1	to	10/1	10/1	10/1
1911	10/1	to	10/1	10/1	10/1

STANDARD TYPING SERVICE

.....offrom%	
.....offrom%	to%

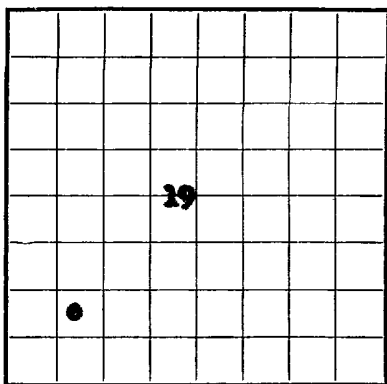
SECRET

[illegible]

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 or shots.

HISTORY OF OIL OR GAS WELL

[illegible]



LOCATE WELL CORRECTLY

U. S. LAND OFFICE **Santa Fe**
SERIAL NUMBER **078134**
LEASE OR PERMIT TO **EXPLORE**

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company **Astec Oil & Gas Company** Address **Burt Building, Dallas 1, Texas**
Lessor or Tract **Crandell** Field **Blanco** State **New Mexico**
Well No. **2** Sec. **19** T. **31N** R. **10W** Meridian **N.M.P.M.** County **San Juan**
Location **990** ft. **[N]** of **3** Line and **990** ft. **[E]** of **W** Line of **Section 19** Elevation **5919** **LF**
(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**Date **January 8, 1954**Title **Vice-President**

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

Commenced drilling **November 18, 1953**, 19----- Finished drilling **December 21, 1953**, 19-----

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from **4178** to **4950.0** 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—	
10-3/4 7"	32.75		155	216'					Surface Production
2-3/8	4.75		155	1817'					

HISTORY OF OIL OR GAS WELL

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10-3/4 7"	215	200			
	4800	300			

PLUGS AND ADAPTERS

Heaving plug—Material ----- Length ----- Depth set -----
Adapters—Material ----- Size -----

SHOOTING RECORD

FOLD MARK

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
		Nitre Glycerine	864 lb	12/21/53	4544-5062	5070
		200				
		Tested/200 MCF natural				

TOOLS USED

Rotary tools were used from 0 feet to 4800 feet, and from feet to feet

Cable tools were used from 4800 feet to 5070 feet, and from feet to feet

DATES

December 22, 1953, 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 2178 MCF/24Hr Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in. 1048 - SI 192 hours

EMPLOYEES

Fleeger-Riley Drilling Co. Driller Contractor on rotary
Southern Union Gas Company Driller Contractor on Drilling in.

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	390	390	Shale and shells
390	710	320	Shale
710	1070	360	Sand and shale
1070	2374	1304	Shale
2374	2895	521	Sand, shale and coal
2895	4139	1244	Shale
4139	4419	280	Shale and hard sand
4419	4510	91	Shale
4510	4690	180	Sand and shale
4690	4766	76	Sand
4766	4800	34	Sand and shale
4800	4950	150	Sand
4950	5070 TD	120	Sand and shale
Top Pictured Cliffs 2588			
Top Cliff House 4178			
Top Point Lookout 4846			
Top Mameos 4990			

100X

100

SOLYT LEND [OVER]

100X/100M

16-43094-3

FORMATION RECORD—COLUMN 5