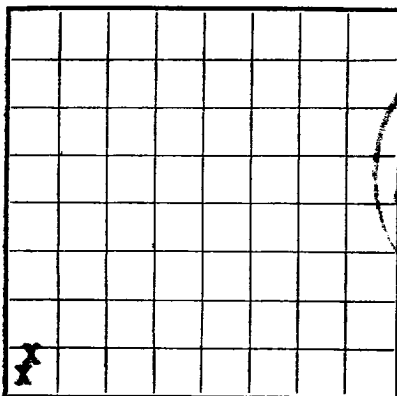


U. S. LAND OFFICE _____
SERIAL NUMBER _____
LEASE OR PERMIT TO PROSPECT _____UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Astec Oil & Gas Company Address Drawer # 570, Farmington, New Mex.
Lessor or Tract Sataguna Field Angel Peak Extension New Mex.
Well No. 2-D Sec. 21 T. 29N R. 11W Meridian N.M.P.M. County San Juan
Location 1085 ft. (N) of 8 Line and 795 ft. (E) of W Line of Section 21 Elevation 5412 G.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. SALMON Joe C. Salmon
Date October 4, 1960 Title District Superintendent

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

Commenced drilling 9/2/60, 19____ Finished drilling 9/17/60, 19____

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 6082 to 6052 (G) No. 4, from _____ to _____
No. 2, from 6112 to 6132 (G) 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>11.2</u>	<u>8</u>	<u>API</u>	<u>100</u>	<u>API</u>	<u>Surface</u>	<u>6082</u>	<u>6052</u>	<u>Oil</u>
<u>5 1/2</u>	<u>11.6</u>	<u>8</u>	<u>API</u>	<u>100</u>	<u>API</u>	<u>6052</u>	<u>6112</u>	<u>6132</u>	<u>Oil</u>
<u>4 1/2</u>	<u>9.7</u>	<u>8</u>	<u>API</u>	<u>100</u>	<u>API</u>	<u>6132</u>	<u>6150</u>	<u>6170</u>	<u>Oil</u>
<u>2 3/8</u>	<u>4.7</u>	<u>8</u>	<u>API</u>	<u>100</u>	<u>API</u>	<u>6170</u>	<u>6180</u>	<u>6190</u>	<u>Oil</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>316</u>	<u>275</u>	<u>displacement</u>		
<u>5 1/2</u>	<u>6238</u>	<u>400</u>	<u>two plug</u>		
<u>2 3/8</u>	<u>5959</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 80,000# sand and 1850 lbs. water. Breakdown pr. - 2900#</u>						
<u>Treating pressure - 2500#, I.R. - 42.3 bps - dropped 48 rubber ball sealers,</u>						
<u>5 - minutes shut-in pr. - 1150#</u>						

TOOLS USED

Rotary tools were used from 0 feet to 6240 feet, and from _____ feet to _____ feet
Cable tools were used from 0 feet to 6205 feet, and from _____ feet to _____ feet

DATES

9/22/60, 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 ACF - 6631 Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. 2016

EMPLOYEES

_____, Driller _____, Driller
_____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>0</u>	<u>256</u>	<u>256</u>	<u>Surface</u>
<u>256</u>	<u>339</u>	<u>83</u>	<u>Sand</u>
<u>339</u>	<u>626</u>	<u>287</u>	<u>Shale</u>
<u>626</u>	<u>1404</u>	<u>778</u>	<u>Sand and Shale</u>
<u>1404</u>	<u>2550</u>	<u>1146</u>	<u>Sand and Shale</u>
<u>2550</u>	<u>3036</u>	<u>486</u>	<u>Sand and Shale</u>
<u>3036</u>	<u>3575</u>	<u>539</u>	<u>Sand and Shale</u>
<u>3575</u>	<u>4210</u>	<u>635</u>	<u>Sand and Shale</u>
<u>4210</u>	<u>5074</u>	<u>864</u>	<u>Sand and Shale</u>
<u>5074</u>	<u>5512</u>	<u>438</u>	<u>Sand and Shale</u>
<u>5512</u>	<u>5880</u>	<u>368</u>	<u>Sand and Shale</u>
<u>5880</u>	<u>6054</u>	<u>174</u>	<u>Sand and Shale</u>
<u>6054</u>	<u>6085</u>	<u>31</u>	<u>Sand</u>
<u>6085</u>	<u>6235</u>	<u>150</u>	<u>Sand and Shale</u>

TOP OF PICTURED CLIFFS - 1540
TOP OF BAKOTA - 6080'

FORMATION RECORD—Continued

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

A blank sheet of graph paper with a grid pattern. The grid consists of 10 columns and 10 rows of squares. There are some faint marks and smudges on the left edge of the paper, possibly from a binding or handling. A small dark mark is visible in the bottom right corner.

RECEIVED
OCT 17 1960
MOD. COM. JIN
E 7217

The information given herewith is a complete and correct record of the well and all work done thereon as far as can be determined from all available records.

Signed _____
State Engineer

Location _____ ft. N. _____ ft. E. of _____ and _____ ft. W. _____ ft. S. of _____
Well No. _____ Sec. _____ T. _____ R. _____ Meridian
Lessor or Tract _____
Company _____

Address _____
Field _____ State _____ County _____
Elevation _____

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

Commenced drilling _____ 19____
Finished drilling _____ 19____

OIL OR GAS SANDS OR ZONES

No. 1, from _____ to _____	_____ (a)	No. 4, from _____ to _____
No. 2, from _____ to _____	_____ (a)	No. 5, from _____ to _____
No. 3, from _____ to _____	_____ (a)	No. 6, from _____ to _____

(Derole gas by G)

IMPORTANT WATER SANDS

No. 1 from _____ to _____ No. 3 from _____ to _____
 No. 2 from _____ to _____ No. 4 from _____ to _____

GRACE RECORD

[illegible]

PLUDDING AND CEMENTING RECORD

Best item to launch	Yearly sum	Best benefit	Numbered scale of customer	For 2017	2018 change
			15	15	15.0
			20	20	20.0
			25	25	25.0

PLUOS AND ADAPTERS

[illegible]

SHOOTING RECORD

Item	Quantity	Date	Depth	Depth	Depth
...	...	...	...	...	...

TOOLS USED

jeet	ot jeet	mont hne jeet	jeet	ot jeet	mont hne gwee jeet gwee
jeet	ot jeet	mont hne jeet	jeet	ot jeet	mont hne gwee jeet gwee

DATA

Oil gas well, cu. ft. per 24 hours		_____
Emulsion, % water; and % sediment		_____
Gravities, °Be.		_____
Gallons gasoline per 1,000 cu. ft. of gas		_____
Parts of fluid of which % was oil;		_____
Put to producing		_____ 19____

EMPLOYEES

Driller	_____	Driller	_____
Driller	_____	Driller	_____

FORMATION RECORD

[illegible]

FORMATION RECORD—Continued

FORM NO. 10-67