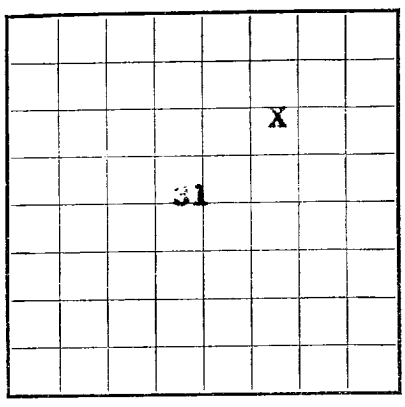
Form 9-330

Budget Bureau No. 42-R355.4.
Approval expires 12-31-60.

U. S. LAND OFFICE Santa Fe, N.Mex.
SERIAL NUMBER NM-015016
LEASE OR PERMIT TO PROSPECT Rease, dtd. 8/1/54



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Mountain States Petroleum Corp. Address P. O. Box 1362, Tulsa, Oklahoma

Lessor or Tract United States of America Field Gavilan, P.C. State New Mexico

Well No. 31-G-1 Sec. 31 T. 25N R. 1W Meridian NMPM County Rio Arriba

Location 1826 ft. [N.] of N Line and 1724 ft. [E.] of E Line of Sec. 31 Elevation 7450
(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

Date September 30, 1959 Title

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

Commenced drilling May 13, 1959 Finished drilling May 19, 1959

OIL OR GAS SANDS OR ZONES

(*Denote gas by G*)

No. 1, from 3582 to 3604 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 From—	Perforated To—	Purpose
8-5/8	24	8		90	--				
5-1/2	14	8	SS	3657	Halliburton				

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8	100'	50	Halliburton		
5-1/2	3667'	100	2-plug Halliburton		

FOLD MARK

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

TOOLS USED

Rotary tools were used from 0 feet to 3670 feet, and from feet to feet

Cable tools were used from for completion feet to 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 772 MCF Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in. 915

EMPLOYEES

, Driller , Driller

, Driller , Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	100	100	Shale and sand.
100	220	120	Shale
220	690	470	Sand & Shale
690	870	180	Shale
870	900	30	Sand
900	950	50	Shale
950	960	10	Sand
960	1040	80	Shale
1040	1070	30	Sand
1070	1220	150	Shale
1220	1620	400	Sand and shale
1620	1700	80	Shale
1700	1820	120	Sand
1820	2050	230	Shale

AT THE END OF COMPLETE DRILLER'S LOG, ADD GEOLOGIC TOPS. STATE WHETHER FROM EL OR SAMPLES.

16—43094-4

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
2050	2550	550	Sand and shale
2550	2620	70	Shale
2620	2750	130	Sand
2750	2800	50	Shale
2800	2860	60	Sand
2860	3140	280	Shale and Sand
3140	3330	190	Sand and shale
3330	3495	165	Sand
3495	3582	87	Shale and Coal
3582	3604	22	Sand
3604	3647	43	Shale
3647	3661	14	Sand
3661	3670	9	Shale

Electric Log Tops:
Ojo Alamo - 3330 (+ 4120)
Kirtland - 3495 (+ 3955)
Pictured Cliffs- 3582 (+ 3868)

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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.