

FOR RECORD—Continued

U.S. LAND OFFICE Santa FeSERIAL NUMBER 080536

LEASE OR PERMIT TO PROSPECT

UNITED STATES

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

JAN 28 1959

U.S. GEOLOGICAL SURVEY
SANTA FE, NEW MEXICO

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Alfred E. Malone Address Box 728 - Farmington, New Mexico
Lessor or Tract Hall Field So. Blanco P.C. Ext. State New Mexico
Well No. 4 Sec. 21 T. 25-N R. 3-W Meridian N.M.P.M. County Rio Arriba
Location 870 ft. N. of 8 Line and 1070 ft. E. of W Line of Sec. 21 Elevation 7,490
(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 January 24, 1959C. Beeson Neal, Agent in Farmington
Title

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

Commenced drilling Nov. 4, 1958, 19 Finished drilling Nov. 24, 1958, 19

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3,921 to 3,940 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</u>	<u>3</u>	<u>Halliburton</u>	<u>3,923</u>	<u>None</u>	<u>Surface</u>			<u>Surface</u>
<u>5-1/2"</u>	<u>18</u>	<u>3</u>	<u>Halliburton</u>	<u>3,943</u>	<u>Halliburton</u>	<u>3,943</u>			<u>Long String</u>
<u>1-1/4"</u>	<u>10</u>	<u>11.75</u>	<u>Halliburton</u>	<u>3,923</u>	<u>None</u>	<u>3,923</u>			<u>Promotion</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>103</u>	<u>70</u>	<u>Halliburton</u>	<u>Mostly water</u>	
<u>5-1/2"</u>	<u>3943</u>	<u>100</u>	<u>Halliburton</u>	<u>Mostly water</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
11/22/58	Dugan 200 gallons HCA. Treated with 25,000 gallons water and 30,000# sand. Flushed with 4,000 gallons water. Breakdown pressure 3000#. Treating pressure 1500-1700#. Average injection 61.3 bbl./hr.					

TOOLS USED

Rotary tools were used from 103 feet to 3,981 feet, and from 3,981 feet to 3,981 feet

Cable tools were used from Surface feet to 103 feet, and from 103 feet to 3,981 feet

Potential test taken

Shut in for potential test

January 19, 1959, 19.....Put to producing November 24, 1958, 19.....

The production for the first 24 hours wasbarrels of fluid of which% was oil;% emulsion;% water; and% sediment.

Gravity, °Bé.....

If gas well, cu. ft. per 24 hours 2,607 MCF/day

Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in. 1,007

EMPLOYEES

Company.....

Driller.....

Driller.....

Driller.....

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
Co. Surface	3,797	3,797	Surface sand and shale, Ojo Alamo, Kirtland and Fruitland Formations.
3,797	3,823	26	Coal
3,823	3,838	15	Shale
3,838	3,840	2	Coal
3,840	3,884	44	Shale
3,884	3,891	7	Coal
3,891	3,921	30	Shale
3,921	3,940	19	Sand (Top of Pictured Cliffs at 3,921')
3,940	3,981	41	Shale

FORMATION RECORD—Continued

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