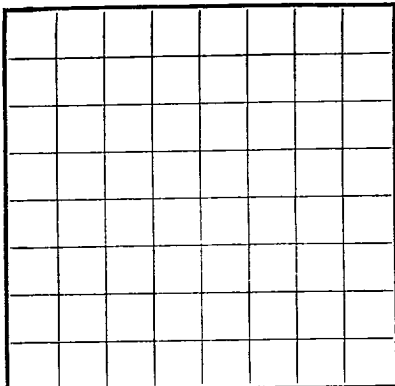


U. S. LAND OFFICE

SERIAL NUMBER

14-007258 (1956)

LEASE OR PERMIT TO PROSPECT



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Republic Natural Gas Company Address Box 195 Midland, Texas
Lessor or Tract Federal Field Wildcat State New Mexico
Well No. 1-F Sec. 12 T. 23S R. 35E Meridian - County Lea
Location 1900 ft. N of N Line and 1900 ft. E of W Line of Section 12 Elevation 3444'
(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

R.M. AlbersDate July 1, 1958Title District Engineer

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

Commenced drilling 6-5, 19 58 Finished drilling 7-2, 19 58

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from None Productive to _____ 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 Surface to 300' (Small Fresh) No. 3, from _____ to _____
No. 2, from 1139' (Brackish) to 1400' (Santa Rosa) 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</u>	<u>32</u>	<u>8rd</u>	<u>Igat.</u>	<u>319'</u>	<u>Regular</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>Surface Pipe</u>
<u>7 5/8</u>	<u>26.4</u>	<u>8rd</u>	<u>Igat.</u>	<u>3904'</u>	<u>Flank</u>	<u>3300'</u>	<u>-</u>	<u>-</u>	<u>Protection Pipe</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</u>	<u>319'</u>	<u>160 sz. 4 1/2 Gal</u> <u>1:1 Stratocrete #6</u>	<u>Pump - Plug</u>	<u>10 1/2/Gal.</u>	<u>Circulated Cement</u>
<u>7 5/8</u>	<u>3904'</u>	<u>75 sz. 4 1/2 Gal</u> <u>1:1 Stratocrete #6</u>	<u>Pump - Plug</u>	<u>10.9 1/2/Gal.</u>	<u>Top at 3375' (Cement)</u>

PLUGS AND ADAPTERS

Heaving plug—Material None Length _____ Depth set _____
Adapters—Material None Size _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
		<u>None - Jet Cutters Used To Cut Off 7 5/8" at 3300'</u>				

TOOLS USED

Rotary tools were used from Surface feet to 6510' feet, and from _____ feet to _____ feet
Cable tools were used from None feet to _____ feet, and from _____ feet to _____ feet

DATES

_____, 19____ Put to producing Dry Hole, 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 _____ Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

Raymond Shannon, Driller Coy G. Bell, Driller
Aaron Holmes, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>Surface</u>	<u>300'</u>	<u>300'</u>	<u>Sand, gravel and clay (fresh water)</u>
<u>300'</u>	<u>1139'</u>	<u>839'</u>	<u>Shale with sand streaks</u>
<u>1139'</u>	<u>1400'</u>	<u>261'</u>	<u>Sand red (possible brackish water)</u>
<u>1400'</u>	<u>2020'</u>	<u>620'</u>	<u>Shale with sand and anhydrite stringers</u>
<u>2020'</u>	<u>2630'</u>	<u>610'</u>	<u>Anhydrite</u>
<u>2630'</u>	<u>2980'</u>	<u>350'</u>	<u>Salt</u>
<u>2980'</u>	<u>3050'</u>	<u>70'</u>	<u>Anhydrite</u>
<u>3050'</u>	<u>3220'</u>	<u>170'</u>	<u>Salt</u>
<u>3220'</u>	<u>3360'</u>	<u>140'</u>	<u>Anhydrite</u>
<u>3360'</u>	<u>3440'</u>	<u>80'</u>	<u>Salt</u>
<u>3440'</u>	<u>3480'</u>	<u>40'</u>	<u>Anhydrite</u>
<u>3480'</u>	<u>3575'</u>	<u>95'</u>	<u>Salt</u>
<u>3575'</u>	<u>3620'</u>	<u>45'</u>	<u>Anhydrite</u>
<u>3620'</u>	<u>3783'</u>	<u>163'</u>	<u>Limestone (Top Yates 3783')</u>
<u>3783'</u>	<u>4165'</u>	<u>382'</u>	<u>Sandstone with Limestone Stringers</u> <u>(Capitan Reef 4165')</u>
<u>4165'</u>	<u>5776'</u>	<u>1611'</u>	<u>Reef Limestone good porosity</u> <u>(Top Delaware Sand 5776')</u>
<u>5776'</u>	<u>6510'</u>	<u>734'</u>	<u>Sand Saltwater bearing</u>

