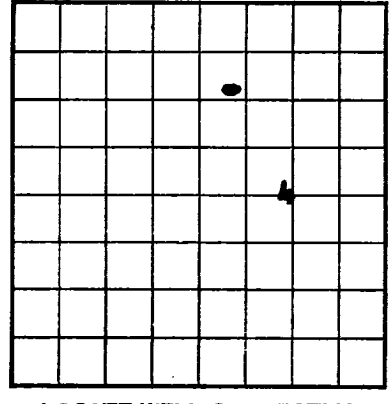


U. S. LAND OFFICE **Santa Fe**
 SERIAL NUMBER **NM 0119**
 LEASE OR PERMIT TO PROSPECT



UNITED STATES
 DEPARTMENT OF THE INTERIOR
 GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company George D. Riggs Address Box 30, Carlsbad, N. M.
 Lessor or Tract Welch et al Field Adcat Hills (E.S.) State New Mexico
 Well No. 4 Sec. 4 T. 21S R. 27E Meridian NMPM County Eddy
 Location 5610 ft. ^[N.] of S. Line and 990 ft. ^[E.] of W. Line of Sec. 4 Elevation 3198 L-S
(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 Geo. D. Riggs
 Title Operator

Date April 3, 1953

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

Commenced drilling July 2, 1952 Finished drilling Oct. 11, 1952

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from _____ 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 362 to 370 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>11.7</u>	<u>11.75</u>	<u>SW</u>	<u>117</u>	<u>Reg.</u>	<u>all pulled</u>			<u>Surface</u>
<u>6-5/8</u>	<u>11.3</u>	<u>11.3</u>	<u>SW</u>	<u>423</u>	<u>RWG.</u>	<u>105 pulled</u>			<u>Str. String</u>

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used

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 _____ feet to _____ feet, and from _____ feet to _____ feet
 Cable tools were used from Surface feet to 886 feet, and from _____ feet to _____ feet

DATES

Put to producing D & A Dec. 16, 1952

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

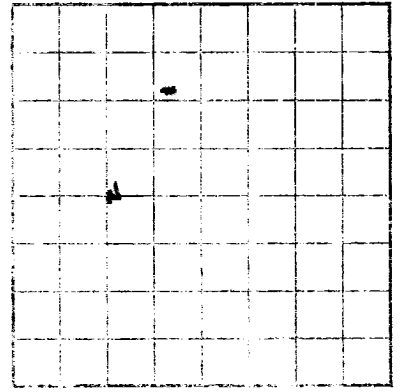
J. T. Goad, Driller _____, Driller _____
 _____, Driller _____, Driller _____

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
Surface	10	10	Surface sand and Caliche
10	25	15	sand, lite, medium grain
25	30	5	red bed, small gyp veins
30	71	41	red sand, very fine, seep of wtr @ 48'
71	74	3	blue clay
74	85	11	fine red sand
85	92	7	gyp and blue clay
92	94	2	blue clay
94	107	13	red bed, some selinite
107	113	6	blue clay
113	117	4	gyp, hard and gray
117	123	6	red clay and gyp
123	155	32	Gyp and red clay
155	167	12	red clay
167	230	63	gyp and red clay
230	236	6	blue and red clay and gyp
236	245	9	gyp and red clay
245	253	8	gyp and red clay
253	268	15	brown and blue clay and gyp
268	270	2	red bed
270	295	25	gyp and anhydrite
295	338	43	brown and gray sandy shale
338	354	16	red and gray sandy shale
354	416	62	dolomite, lite hard
416	425	9	dolomite, brown
425	436	11	sand and gyp

FOLD | MARK

U.S. Geological Survey
Geological Survey
Department of the Interior
United States



LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

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Date: 1933
The summary on this page is for the condition of the well at above date.

Oil or Gas Sands or Zones
No. 1 from ... to ...
No. 2 from ... to ...
No. 3 from ... to ...

Important Water Sands
No. 1 from ... to ...
No. 2 from ... to ...

Casing Record
No. 1 from ... to ...
No. 2 from ... to ...

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.

HISTORY OF OIL OR GAS WELL

Table with columns: FROM, TO, TOTAL FEET, and Formation description. Includes entries for sandstone, shale, and limestone.