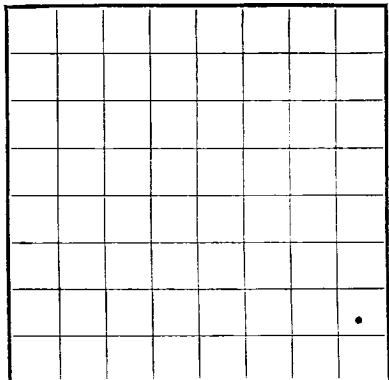


U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 04393
LEASE OR PERMIT TO PROSPECT _____



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Southwestern, Inc. Address Box 1116, Lovington, N. M.
Lessor or Tract DeKalb Agric. Assoc. Field Square Lake State N. M.
Well No. 4 Sec. 31 T. 16S R. 20E Meridian NMPM County Eddy
Location 1980ft. [N.] of S. Line and 660ft. [W.] of E. Line of Sec. 31 Elevation 3698
(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 T. J. Halliburton Title President

Date October 21, 1958

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

Commenced drilling Sept. 4, 1958 Finished drilling Oct. 9, 1958

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

No. 1, from 2624 to 2638 No. 4, from _____ to _____
No. 2, from 2740 to 2751 No. 5, from _____ to _____
No. 3, from 2788 to 2803 No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from 355 to 378 No. 3, from _____ to _____
No. 2, from 2053 to 2082 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 32</u>	<u>8</u>	<u>8</u>	<u>50</u>	<u>Tex. Pac.</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>Shut off Water</u>
<u>7 23</u>	<u>8</u>	<u>8</u>	<u>2070</u>	<u>Tex. Pac.</u>	<u>2070</u>	<u>2624</u>	<u>2624</u>	<u>2638</u>	<u>"</u>
<u>5 1/2 14</u>	<u>8</u>	<u>8</u>	<u>2832</u>	<u>Halliburton</u>	<u>2832</u>	<u>2740</u>	<u>2740</u>	<u>2751</u>	<u>Production</u>
						<u>2788</u>	<u>2788</u>	<u>2803</u>	<u>"</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 32</u>	<u>50'</u>	<u>50</u>	<u>Water</u>	<u>Water</u>	<u>1000 lbs.</u>
<u>7 23</u>	<u>2070'</u>	<u>0</u>	<u>none</u>	<u>none</u>	<u>none</u>
<u>5 1/2 14</u>	<u>2832</u>	<u>150</u>	<u>Halliburton</u>	<u>none</u>	<u>none</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

TOOLS USED

Rotary tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

0' Put to producing _____, 19____
2832

Sept production for the first 24 hours was _____ barrels of fluid of which 11% was oil; 5%
emulsion; _____% water; and _____% sediment. 56 Gravity, °Bé. 100

If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

_____, Driller _____, Driller
J. P. Baker, Driller W. H. High, Driller

Aud Hopper

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>0</u>	<u>285</u>	<u>285</u>	<u>Red beds</u>
<u>285</u>	<u>565</u>	<u>230</u>	<u>Anhy 80% Shale 20%</u>
<u>565</u>	<u>1013</u>	<u>448</u>	<u>Sand</u>
<u>1013</u>	<u>1535</u>	<u>522</u>	<u>Anhy 70% Shale 30%</u>
<u>1535</u>	<u>1870</u>	<u>335</u>	<u>Brown Dolo. 70% Anhy 30%</u>
<u>1570</u>	<u>1760</u>	<u>190</u>	<u>Gray Dolo 30% Anhy 70%</u>
<u>1760</u>	<u>2045</u>	<u>285</u>	<u>Red Shale 40% Anhy 60%</u>
<u>2045</u>	<u>2060</u>	<u>15</u>	<u>Brown Shale and Sand 70%</u>
<u>2060</u>	<u>2337</u>	<u>277</u>	<u>Brown Dolo. 40% Anhy 10%</u>
<u>2337</u>	<u>2355</u>	<u>18</u>	<u>Gray Dolo. 20% Brown Sand 80%</u>
<u>2355</u>	<u>2470</u>	<u>115</u>	<u>Brown Shale 20% Anhy 50%</u>
<u>2470</u>	<u>2550</u>	<u>80</u>	<u>Dolo. 100%</u>
<u>2550</u>	<u>2580</u>	<u>30</u>	<u>Sand 30% Dolo. 70%</u>
<u>2580</u>	<u>2631</u>	<u>51</u>	<u>Dolo. 100%</u>
<u>2631</u>	<u>2641</u>	<u>10</u>	<u>Sand 50% Dolo. 50%</u>
<u>2641</u>	<u>2743</u>	<u>102</u>	<u>Dolo. 100%</u>
<u>2743</u>	<u>2752</u>	<u>9</u>	<u>Sand 60% Dolo. 40%</u>
<u>2752</u>	<u>2791</u>	<u>39</u>	<u>Dolo. 100%</u>
<u>2791</u>	<u>2820</u>	<u>29</u>	<u>Sand stone 30 Dolo. 20%</u>
<u>2820</u>	<u>2831</u>	<u>11</u>	<u>Lime 100%</u>

