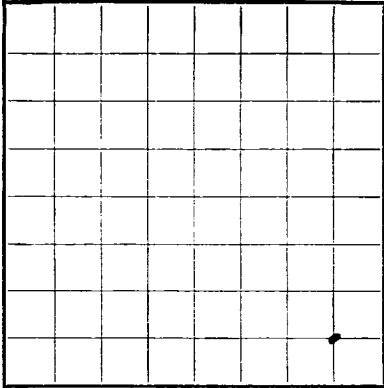


U. S. LAND OFFICE **Artesia, N. M.**
SERIAL NUMBER **N M 04393**
LEASE OR PERMIT TO PROSPECT



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company **Southwestern, Inc.** Address **Box 1116, Lovington, New Mexico**
Lessor or Tract **DeKalb Agr. Assoc.** Field **Square Lake** State **New Mexico**
Well No. **1** Sec. **31** T. **16S** R. **30E** Meridian **NMPL** County **Eddy**
Location **660** ft. **N** of **S** Line and **660** ft. **E** of **E** Line of **Section** Elevation **3703.6**
(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 *Southwestern, Inc. by W. E. Moore*

Date **May 5, 1958** Title **CRUDE OIL**

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

Commenced drilling **March 19**, 19**58** Finished drilling **April 23**, 19**58**

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from **2639'** to **2655'** No. 4, from _____ to _____
No. 2, from **2749'** to **2761'** No. 5, from _____ to _____
No. 3, from **2789'** to **2809'** No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from **415'** to **440'** No. 3, from _____ to _____
No. 2, from **2070'** to **2100'** 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—	
8 5/8	26	--	--	5 72	ShopMade	-			Surface String
7	17			2098	Larkin	2071.55			Water Shut off
5 1/2	14			2812	Larkin		2789	2809	Oil String
							2749	2761	
							2639	2655	

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8 5/8	572'	50	Halliburton	none	none
5 1/2	2832'	50	"	"	"

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 **0** feet to **2834'** feet, and from _____ feet to _____ feet

DATES

March 19, 19**58** Put to producing **May 5**, 19**58**

The production for the first 24 hours was **64** barrels of fluid of which **100%** was oil; **0%** emulsion; **0%** water; and **0%** 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

John O'Brien, Driller **Morris Tidmore**, Driller
M. F. Willis, Driller **D. E. Moore**, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	570	570	Red Bed, Br. Clay & Sand, Anhy 10% Water
571	1027	456	Salt
1027	1210	183	Anhy 80%; Br. Shale 15%; Gray Shale 5%
1211	1470	259	Br. Sheale 70%; Br. Sand 20%; Anhy 10% Yates
1470	1530	60	Anhy 60%; Br. Shale 40%
1530	1563	33	Br. Dolomite and Show of gas
1563	1720	157	Anhy 90%, Br. Shale 5%, Gray Shale 5%
1720	1820	100	Br. Dolomite 85%, Anhy 10%, Gray Shale 5%
1820	1875	55	Br. Sand 80%, Br. Shale 10%, Anhy 10%
1875	2070	195	Anhy 80%, Br. Shale 15%, Br. Sand 5%
2070	2100	30	Br. Sand 80%, Br. Shale 15%, Queens 5%
			Water in hole
2100	2340	240	Br. Dolomite 60%, Anhy 25%, Br. Shale 15%
2340	2350	10	White Lime 50%, Br. Dol. 25%, Br. Shale 25%
2350	2390	40	Br. Sand 10%, Gr. Sand 40%, Anhy 25%
			Br. Dolo 25%, Show of Oil 1 gal/hr.
2390	2430	40	Anhy 80%, Br. Sand 20%
2430	2500	70	Br. Dolo 50%, Br. Shale 30%, Anhy 20%
2500	2637	137	Dolo. 90%, Anhy 5%, Br. Shale 5% Grayburg
2637	2650	13	Gr. Sand 40%, Br. Sand 5%, Dolo. 55%
2650	2720	70	Dolo. 90%, Br. Sand 5%, anhy 5%
2720	2760	40	Br. Sand 50%, Dolo 50%
2760	2788	28	Br. Dolo. 50%, W. Lime 5%, Br. & Blk. Shale
			5%
2788	2818	30	Br. Sand 60%, Br. Shale 10%, Br. Dolo. 30%
2818	2834	16	Show of Free Oil 6 gal./hr. Br. Dolo.

FORMATION RECORD—Continued

[illegible]

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of reworking, 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 balling.

HISTORY OF OIL OR GAS WELL