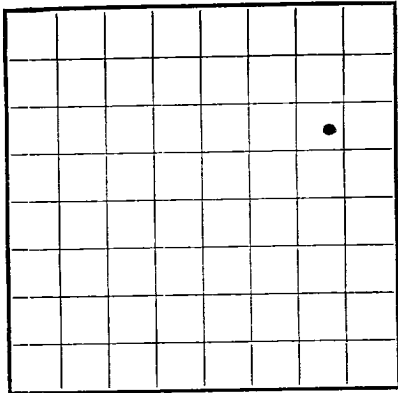


U. S. LAND OFFICE **Roswell**
SERIAL NUMBER **IC 063622**
LEASE OR PERMIT TO PROSPECT



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 **CEM FEDERAL** Field **N. HACKBERRY** State **NEW MEXICO**
Well No. **3** Sec. **29** T. **19S** R. **31E** Meridian **Eddy** County
Location **1630** ft. **[N]** of **N** Line and **990** ft. **[W]** of **E** Line of **Sec 29** Elevation **3481** G.L.
(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 **Frank C. Beard**

Date **February 5th, 1964** Title **SECRETARY**

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

Commenced drilling **December 7**, 19 **63** Finished drilling **December 31**, 19 **63**

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

No. 1, from **2152** to **2180** No. 4, from _____
No. 2, from _____ to _____ No. 5, from _____ to _____
No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from **675** to **680** 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—	
8 5/8	28		Sals	706	Rotary		2167	2179	
4 1/2	9.5		Sals	2320	Halliburton				
					Float & Guide				

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8 5/8	706	150	Halliburton	10.5	20 sax
4 1/2	2320	150	"	10.5	30 sax

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 **2322** feet, and from _____ feet to _____ feet

DATES

_____, 19____ Put to producing **February 4**, 19 **64**

The production for the first 24 hours was **33** barrels of fluid of which **90** % was oil; _____ % emulsion; **10** % 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

R. B. McCarrell, Sr., Driller **L. W. Gray**, Driller
R. M. Jones, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	706	706	Red Bed & Anhydrite
706	1978	1272	Salt = Rustler Anhydrite 448, Top of Salt 688
1978	2158	180	Anhydrite & Loam = Base of Salt 1979 Top of Yates 2150
2158	2200	42	Sand & Dolomite
2200	2315	115	Dolomite & Lime
2315	2322	7	Dolomite & Reef-Water = Top of 7 Rivers 2316

FORMATION RECORD—Continued

[illegible]

HISTORY OF OIL OR GAS WELL

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. 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 bailing.

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JAN 15 1964
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WASHINGTON, D.C.