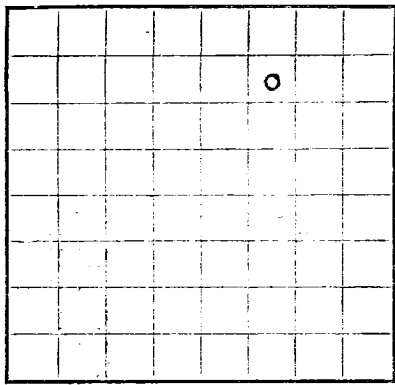


U. S. LAND OFFICE **Santa Fe**
SERIAL NUMBER **078421**
LEASE OR PERMIT TO PROSPECT



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company **Great Lakes Oil & Chem. Co.** Address **502 Michigan Nat. Bk. Bldg. Grand Rapids, Michigan**
Lessor or Tract **Graham** Field **Blanco** State **New Mexico**
Well No. **3** Sec. **3** T. **28N** R. **8W** Meridian **N.M.P.M.** County **San Juan**
Location **990** ft. **N** of **N** Line and **1650** ft. **E** of **E** Line of **Section 3** Elevation **5911** ft. **K**
(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 **E. J. Conroy**
Date **January 20, 1951** Title **Agent**

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

Commenced drilling **January 21**, 19**51** Finished drilling **February 11**, 19**51**

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

No. 1, from **2200** to **22700** No. 4, from to
No. 2, from **4450** to **4635 G** No. 5, from to
No. 3, from to No. 6, from to

IMPORTANT WATER SANDS

No. 1, from **200** to **3000** No. 3, from to
No. 2, from **1100** to **1400** 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—	
13 3/8" 60		8	New	114'	Laker				Surface
5 1/2" 17 1/2		8	Used	999'	Blower				Production
5 1/2" 17 1/2		8	New	3447'	Laker				Production

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13 3/8" 114'		150	Down pump	10.5	Amount to Surface
5 1/2" 4446'		3000	" "	9.84	Amount to 3400'

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
4"		Nitro-gel	510qts.	3-12-51	4478-4683	4635'

TOOLS USED

Rotary tools were used from **0** feet to **4446** feet, and from feet to feet
Cable tools were used from **4446** feet to **4635** feet, and from feet to feet

DATES

March 20, 19**51** Put to producing , 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 **650MCF** Gallons gasoline per 1,000 cu. ft. of gas
Rock pressure, lbs. per sq. in. **9800**

EMPLOYEES

, Driller , Driller
, Driller , Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	160		Elver sand and shale
	205		Soft grey shale
	320		Grey sand
	1360		Broken sand and grey soft shale
	1900		Grey-green soft sandy shale
	2200		Dark carbonaceous shale with coal beds thick at base
	2280		Firm fine tite SP sand-shaley toward base
	3770		Firm grey gritty shale
	3884		Dark carb shale, slightly sandy
	3905		Hard grey fine tite sand
	4420		Soft dark lignitic shale with coal seams throughout
	4450		Firm tite light SP sand
	4635		Firm fine tite-partly shaley sand
	4683		Grey dark shale-slightly sandy
	TD		
GEOLOGIC TOPS:			
	1310		ase Ojo Alamo
	2200		Top Pictured Cliffs
	2280		" Lewis Shale
	3884		" Mesa Verde-Cliffhouse
	3905		" " Mensfee
	4450		" " Point Loodout
	4650		Mancos