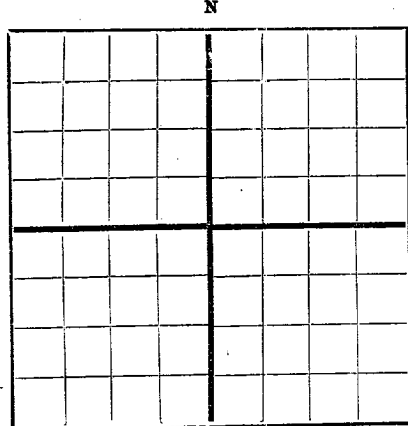


RECEIVED
MAR 27 1951
OIL CONSERVATION COMMISSION
HOBBS, TEXAS

NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

WELL RECORD



AREA 640 ACRES
LOCATE WELL CORRECTLY

Mail to Oil Conservation Commission, Santa Fe, New Mexico, or its proper agent not more than twenty days after completion of well. Follow instructions in the Rules and Regulations of the Commission. Indicate questionable data by following it with (?). SUBMIT IN TRIPPLICATE. FORM C-110 WILL NOT BE APPROVED UNTIL FORM C-105 IS PROPERLY FILLED OUT.

The Shamrock Oil and Gas Corporation, Box 631, Amarillo, Texas
Company or Operator Address
Lightcap Well No. 1 in NE/4 of Sec. 13, T. 8 S., R. 29 E., N. M. P. M., Unnamed Field, Chaves County.
Well is 660 feet south of the North line and 660 feet west of the East line of Section 13.
If State land the oil and gas lease is No. Assignment No.
If patented land the owner is Cecil O'Brien et al, Address Amarillo, Texas
If Government land the permittee is, Address
The Lessee is The Shamrock Oil and Gas Corporation, Address Amarillo, Texas
Drilling commenced November 5, 1950 Drilling was completed March 8, 1951
Name of drilling contractor Company Rig, Address Box 631, Amarillo, Texas
Elevation above sea level at top of casing 4,063' DF feet.
The information given is to be kept confidential until Release immediately 19

OIL SANDS OR ZONES

No. 1, from N to O No. 4, from to
No. 2, from to N No. 5, from to
No. 3, from to E No. 6, from to

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.
No. 1, from N to O feet.
No. 2, from to N feet.
No. 3, from to E feet.
No. 4, from to feet.

CASING RECORD

SIZE	WEIGHT PER FOOT	THREADS PER INCH	MAKE	AMOUNT	KIND OF SHOE	CUT & FILLED FROM	PERFORATED		PURPOSE
							FROM	TO	
13 3/8"	OD 54.0	8rd	S.H.	1,050'	Larkin				Surface Casing
(1) 8 5/8"	OD 36 &	32# 8rd	Young.	4,073'	Larkin				Intermediate String Casing

NOTE: (1) Consisted of 101 joints of 32# - J-55 and 40 joints of 36# Grade C.

MUDDING AND CEMENTING RECORD

SIZE OF HOLE	SIZE OF CASING	WHERE SET	NO. SACKS OF CEMENT	METHODS USED	MUD GRAVITY	AMOUNT OF MUD USED
17 1/2"	13 3/8" OD	1,050'	900 / 4 1/2 gal	Halliburton pump		
11"	8 5/8" OD	4,057'	1400 / 4 1/2 gal	Halliburton pump		

PLUGS AND ADAPTERS

Heaving plug—Material Cement Length 105' Depth Set 8946' - 8841'
Adapters — Material Cement Length 100' 4157' - 4057'
Material Cement Length 20' 20' - 0'

RECORD OF SHOOTING OR CHEMICAL TREATMENT

SIZE	SHELL USED	EXPLOSIVE OR CHEMICAL USED	QUANTITY	DATE	DEPTH SHOT OR TREATED	DEPTH CLEANED OUT

Results of shooting or chemical treatment

RECORD OF DRILL-STEM AND SPECIAL TESTS

If drill-stem or other special tests or deviation surveys were made, submit report on separate sheet and attach hereto.

TOOLS USED

Rotary tools were used from 0 feet to 8,946 feet, and from feet to feet
Cable tools were used from feet to feet, and from feet to feet

PRODUCTION

Put to producing, 1951 DRY AND ABANDONED
The production of the first 24 hours was barrels of fluid of which % was oil; % emulsion; % water; and % sediment. Gravity, Be.
If gas well, cu. ft. per 24 hours. Gallons gasoline per 1,000 cu. ft. of gas.
Rock pressure, lbs. per sq. in.

EMPLOYEES

L. A. Pinkham, Driller Cecil Moulware, Driller
Harry Hoyle, Driller E. Boyd, Toolpusher Rick

FORMATION RECORD ON OTHER SIDE

I hereby swear or affirm that the information given herewith is a complete and correct record of the well and all work done on it so far as can be determined from available records.

Subscribed and sworn to before me this 26th day of March, 1951, Amarillo, Texas, March 26, 1951

Notary Public
Potter County, Texas

Name: Dan P. Lush
Position: Superintendent of Production
Representing: The Shamrock Oil and Gas Corporation
Company or Operator
Address: Box 631, Amarillo, Texas

My Commission expires June 1, 1951

FORMATION RECORD

(Feet)	(Feet)	THICKNESS IN FEET	FORMATION
0'	200'	200	Caliche & Surface Sand & Gravel
200'	710'	510	Redish purple shale w/ limestone pebbles, some red sand near bottom of formation.
710'	963'	253	T/ Permian - 710'. Red sand & shale.
963'	1,233'	270	Gypsum & anhydrite interbedded with salt.
1,233'	1,730'	497	13 3/8" casing set at 1,050' w/ 400 sacks cement. T/ Yates - 1,233'. Anhydrite interbedded w/ dark brick red shale.
1,730'	2,425'	695	Clear halite w/ dark brick red shale.
2,425'	2,820'	395	T/ San Andres - 2,425'. Anhydrite w/ some dolomite.
2,820'	3,610'	790	Gray dolomite w/ some anhydrite, lime & traces of chert.
3,610'	3,965'	355	T/ Yaso - 3,610'. Salt interbedded with sand, shale, and dolomite.
3,965'	4,275'	310	Brown dolomite w/ dead oil stain interbedded with anhydrite.
4,275'	4,465'	190	8 5/8" OD casing set at 4,057' w/ 1400 sacks cement. Red sand with salt casts.
4,465'	5,350'	885	Brown dolomite with anhydrite.
5,350'	6,035'	685	Top Abe - 5,350'. Salt interbedded with anhydrite and dolomite.
6,035'	6,550'	515	Brown & green shale.
6,550'	6,870'	330	Gray to brown dolomite w/ brown & green shale & chert.
6,870'	7,655'	785	T/ Permo-Penn. - 6,870'. White limestone interbedded with brown & green shale.
7,655'	8,410'	755	Gray shale interbedded with conglomerate composed of sand, limestone pebbles, granite wash, and some brown & green shale.
8,410'	8,890'	480	T/ Mississippian - 8,410'. White to buff limestone interbedded with dolomite and shale with much chert.
8,890'	8,946'	56	T/ Devonian - 8,938'. Gray dolomitic shale and cream to white rhombic dolomite.

DRILL STEM TESTS

- DST No. 1 - 7,450' - 7,469' using Johnston tester with dual packer, 5/8" choke on bottom, 1" choke on top. Tool open 45 minutes. Recovered 200' mud out with salt water and 5,740' clear salt water. Flowing pressure 0# - 2,675#. Hydrostatic pressure 4,150#.
- DST No. 2 - 8,105' - 8,124'. Test failed.
- DST No. 3 - 8,096' - 8,124' using Johnston tester with dual packer. Top packer set at 8,096' and bottom packer at 8,103'. Tool open 1 hour, 5/8" choke on bottom, 1" choke on top. Slight intermittent blow for 15 minutes and died. Recovered 30' drilling mud, no shows. Flowing pressure 25#. Shut-in pressure 0# - 15 minutes. Hydrostatic pressure 4,300#.
- DST No. 4 - 8,918' - 8,946' using Johnston tester with dual packer. Top packer set at 8,918' and bottom packer at 8,925'. Tool open 1 1/2 hours, 5/8" choke on bottom and 1" choke on top. Had slight blow throughout period and recovered 445' of slightly muddy sulphur water. Flowing pressure 0# - 150#. Shut-in pressure 3,650# - 15 minutes. Hydrostatic pressure 4,925#.