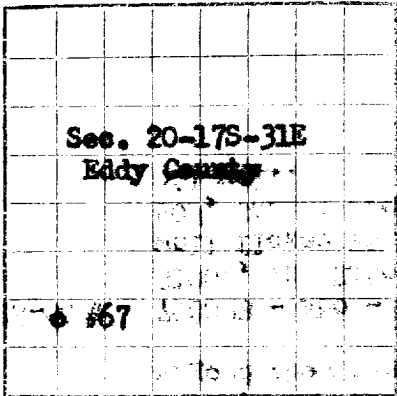


U. S. LAND OFFICE **Las Cruces**

SERIAL NUMBER **029295 (b)**

LEASE OR PERMIT TO PROSPECT



RECORDED UNITED STATES

AUG 21 1960 DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company **Sinclair Oil & Gas Company** Address **520 E Broadway, Hobbs, New Mexico**

Lesser or Tract **Turner "B" SP** Field **Empire Abo** State **New Mexico**

Well No. **67** Sec. **20** T. **17S** R. **31E** Meridian **NMPM** County **Eddy**

Location **1650** ft. **N** of **S** Line and **660** ft. **NE** of **W** Line of **Sec. 20** Elevation **3625**
(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

Date **August 16, 1960**

Title **District Superintendent**

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

Commenced drilling **June 25**, 19**60** Finished drilling **July 19**, 19**60**

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from _____ to _____ No. 4, from _____ to _____

No. 2, from _____ to _____ No. 5, from _____ to _____

No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from **7046** to **7080** 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	
13-3/8	48	SW - SJ	Arco	470					Surface
8-5/8	24.32	8R	J-55	3800					Intermediate
4-1/2	9.54	8R	J-55	3524			7048	7054	Liner
2-3/8	4.7	8R	J-55	7057					Tubing

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13-3/8	470	525	Halliburton		
8-5/8	3800	900	Halliburton		
4-1/2	7221	760	Halliburton		

(NOTE: 4-1/2" liner set from 3697 to 7221 depth of 7221)

PLUGS AND ADAPTERS

Heaving plug—Material **None** Length _____ Depth set _____

Adapters—Material **None** Size _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
None						

TOOLS USED

Rotary tools were used from **Surface** feet to **7223** feet, and from _____ feet to _____ feet

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

DATES

_____, 19____ Put to producing _____ July 25, 19**60**

The production for the first 24 hours was **192** barrels of fluid of which **100**% was oil; **0**% emulsion; **0**% water; and **0**% sediment. Gravity, °Bé. **42.2**

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

W.S. Tadlock

D.W. Harrison

B.J. Green

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	1386	1386	Anhydrite
1386	1717	331	Anhydrite & Salt
1717	1717 3044	331 1327	Anhydrite & Lime
3044	7223	4179	Lime
7223 - Total Depth			

GEOLOGICAL TOPS:

Yates	1405	2220
Seven Rivers	1743	1882
Queen	2365	1260
Grappburg	2740	885
San Andres	3143	482
Abo Reef	7046	3421

Core #1 Abo 7015-66 - Full recovery of 51' (11' shale, 17' dense dolomite, no show, 23' fractured slightly vugular dolomite w/fair porosity bleeding oil & gas.)
Core #2 Abo 7066-7117 - Full recovery of 51' (8' shale, 18' dense dolomite, 25' fractured slightly vugular porous dolomite w/slightly bleeding oil & gas)
Core #3 Abo 7117-7153 - Full recovery 36' (10' shale, 26' fractured vuggy, fair porosity dolomite, slightly bleeding oil & gas)
Core #4 Abo 7153-7188 - Full recovery 35' (1 1/2' shale, 15-1/2' dense dolomite, no show, 19' fractured vuggy, fair porosity dolomite, slightly bleeding oil & gas)

DEVIATION SURVEYS

3/4	170
1	1501
1	2104
2-1/4	2556
2	2858
1-1/4	3364
1	3894
1	4320
3/4	4915
2-1/2	5401
2-1/4	6003
1-3/4	6553
2-1/4	6992

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 "checked" 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 pipe or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

7223 Abo (Total Depth)

- 7-13-60 Set 4-1/2" OD casing liner 1/3697 to 7221 w/760 lbs cement-cement circulated.
- 7-16-60 7186-7188 - Ran Gamma Ray-Neutron logs & jet perforated 4-1/2" liner from mud acid - Max Press 3400, Min Press 2600, Inj rate 1 BPM, swabbed dry. 7100-7125 w/50 1/2" holes. Ran tubing & washdown acidized w/500 gals Resolidized w/2000 gals 15% IST acid, Max Press 3200, Min Press 2800, Inj rate 2 BPM, swabbed 440 bbl formation water in 16 hrs.
- 7-18-60 Set CI Retainer at 7050 & squeezed parts 7100-7125 w/13 sks at 5200#. For 30 mins - no decrease in pressure. Jet perforated 4-1/2" liner from 7099-7106 w/14 1/2" holes.
- 7-21-60 Drilled cement & retainer to 7186 & tested squeezed parts. w/1000 lbs pp for 30 mins - no decrease in pressure. Jet perforated 4-1/2" liner from 7099-7106 w/14 1/2" holes.
- 7-22-60 Ran tubing & packer & mud acidized parts 7099-7106 w/500 gals. Max Press: 4500#, Min Press 3300#, Inj rate 1/3 BPM. Swabbed 10 bbl formation water per hour, no oil or gas.
- 7-23-60 7080-7188 - set CI retainer at 7080 and squeezed parts 7099-7106 w/14 sks cement at 5000#. Tested w/2000# pump pressure for 30 mins - no decrease in pressure.
- 7-24-60 Jet perforated 7048-7054 w/12 1/2" holes + ran 2" tubing & packer, attempted to mud acid wash w/250 gals at 6000#, pulled tubing and packer.
- 7-25-60 Repacked 7048-54 w/12 1/2" holes, mud acid washed w/250 gals, Max Press 3400#, Min Press 3200#, Inj rate 1/4 BPM, 10 min SIP-on vacuum, swabbed dry w/good show gas.
- 7-26-60 7080-7188 - Abo - Acidized w/1000 gals 15% IST acid, Max Press 3800#, Min Press 3100#, Inj rate 3.1 BPM. Swabbed & cleaned up. ON 12 HOUR POTENTIAL TEST - well flowed 96 bbls new 1/2" gravity oil through 1/2" choke. tubing press: 50#, casing Press: Packer, GOR 1810 to 1. FINAL REPORT - completed as an oil well.