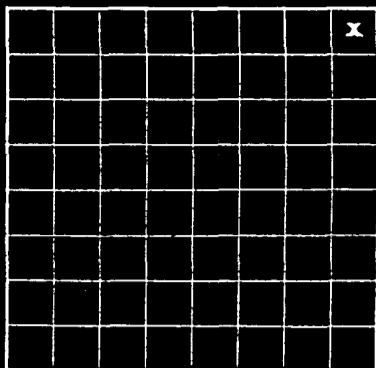


U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 032096 (a)
LEASE OR PERMIT TO PROSPECT Lease

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Continental Oil Company Address Box CC, Hobbs, New Mexico
Lessor or Tract A. M. Lockhart A-17 Field Drinkard State New Mexico
Well No. 4 Sec. 17 T. 21S R. 37E Meridian N.M.P.M. County Lea
Location 660 ft. (S.) of N. Line and 660 ft. (W.) of E. Line of Sec. 17-21S-37E Elevation 3495' DF
(Denote gas by G)

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 December 31, 1949 Title District Superintendent

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

Commenced drilling October 4, 1949 Finished drilling November 6, 1949

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 6611 to 6669 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 _____ to _____ 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—	
<u>13-3/8</u>	<u>48</u>	<u>8 R</u>	<u>H-40</u>	<u>218'7"</u>	<u>T.P.</u>				
<u>9-5/8</u>	<u>36</u>	<u>8 R</u>	<u>J-55</u>	<u>1918'10"</u>	<u>Guide</u>				
<u>9-5/8</u>	<u>40</u>	<u>8 R</u>	<u>H-80</u>	<u>63'5"</u>					
<u>9-5/8</u>	<u>40</u>	<u>8 R</u>	<u>J-55</u>	<u>847'6"</u>					
<u>7</u>	<u>23</u>	<u>8 R</u>	<u>H-80</u>	<u>947'1"</u>	<u>Guide</u>				
<u>7</u>	<u>23</u>	<u>8 R</u>	<u>J-55</u>	<u>5899'9"</u>					

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>13-3/8</u>	<u>228</u>	<u>250</u>	<u>HMC Co.</u>		
<u>9-5/8</u>	<u>2319</u>	<u>750</u>	<u>HMC Co.</u>		
<u>7</u>	<u>6769</u>	<u>650</u>	<u>HMC Co.</u>		

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 6770 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

December 1, 1949 Put to producing December 1, 1949
The production for the first 24 hours was 706 barrels of fluid of which _____ % was oil; _____ %
emulsion; _____ % water; and _____ % sediment. Gravity, 100 °Bé. 40 degrees
If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____
Back pressure, lbs. per sq. in. _____

Gesch

Driller

Fred J. Morgan

Driller

Carle Porter

Driller

Driller

FORMATION RECORD

FROM-	TO-	TOTAL FEET	FORMATION
0	40	40	Sand and shells
40	720	680	Redbed
720	1140	420	Redbed and shells
1140	1320	180	Redbed and anhydrite
1320	1693	373	Anhydrite and salt
1693	1868	175	Salt
1868	2362	494	Anhydrite and salt
2362	2808	446	Anhydrite
2808	2820	12	Brown lime
2820	3197 3199	379	Lime
3197 3199	3257	58	Lime and anhydrite
3257	3411	154	Lime
3411	3734	323	Lime and anhydrite
3734	6770	3036	Lime

FORMATION RECORD-Continued

FROM	TO	TOTAL FEET	FORMATION
Well was drilled to total depth of 6770' in line.			
Well was not shot.			
Well was acidized with 2,500 gallons, including attempted treatment with 500 gallons which failed.			
Casing was perforated 6677' to 6683' with 24 shots, 6691' to 6697' with 24 shots, 6701' to 6719' with 72 shots, 6724' to 6743' with 96 shots, 6611' to 6644' with 132 shots, 6651' to 6669' with 72 shots.			
Completed for initial potential of 706 barrels oil, no water in 24 hours, flowing through 1" choke on 2-1/2" tubing, with 1155.7 MCF gas, gas-oil ratio 1637, casing pressure 580#, tubing pressure 320#.			
Ray: Brinkard from 6611' to 6669'.			
Gravity of oil: 40 degrees			
Pipe Line Connection: Magnolia Pipe Line Co.			
Derrick floor: 10' above ground			
Date total depth reached: 12-1-49.			
Date completion test: 12-1-49			

[illegible]