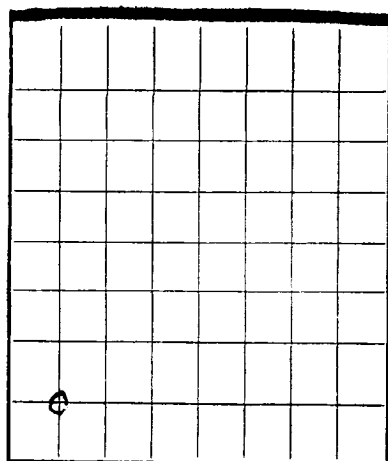


Hobbs, New Mexico

U. S. LAND OFFICE

SERIAL NUMBER NW 058677-A
LEASE OR PERMIT TO PROSPECT

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Lone Star Producing Company Address Box 4815, Midland, Texas 79702
Lessor or Tract _____ Field Undesignated State New Mexico
Well No. "B" 1 Sec. 21 T. 8-S R. 36-E Meridian NMPM County Roosevelt
Location 660 ft. [N.] of S Line and 660 ft. [E.] of W Line of Section 21 Elevation 4,115' Gr.
(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 March 25, 1964Title Dist. Prod. Supt.

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

Commenced drilling December 7, 1963 Finished drilling February 10, 1964

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 12,053' to 12,087' G 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—	
13-3/8"	48#	8rd	J & L	423'	Larkin	--			
9-5/8"	32-2,364#	8rd	I.S.	4,332'	Larkin	--			
7" O.D.	23 & 28#	8rd	J & L	9,769'	Larkin	--	9,693'	9,713'	Perf. squeezed
3 1/2" Liner	9.3#	8rd	I.S.	2,824'	Brown W.S.	--	12,057'	12,082'	
2-3/8"	4.7#	8rd	J & L	9,177'					
2-3/8"	4.7#	A-95 Hydril	J & L	2,796'	Pkr.				

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13-3/8"	423'	400	Pump Plug (Circulated)		
9-5/8"	4,332'	2,043	Pump Plug (Circulated)		
7" O.D.	9,769'	500	Top of cement behind 7" O.D. at 7,780'.		
3 1/2" Liner	12,300'	450	Pump Plug		

PLUGS AND ADAPTERS

Heaving plug—Material Cement Length 150' Depth set 13,100' to 12,950'
Adapters—Material _____ Size _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from 0 feet to 9,769 feet, and from 9,769 feet to 13,139 feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

_____, 19____ Put to producing February 17, 1964

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 1,420 Gallons gasoline per 1,000 cu. ft. of gas 18.981

Rock pressure, lbs. per sq. in. 4090#

EMPLOYEES

B. R. Tipton, Driller Cecil Boggs, Driller
D. L. Price, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
9,769'	9,825'	56'	Lime
9,825'	10,567'	742'	Shale & Lime
10,567'	10,605'	38'	Sand, Chert & Shale
10,605'	10,643'	38'	Shale, Lime, Chert & Sand
10,643'	10,673'	30'	Lime & Shale
10,673'	10,680'	7'	Chert & Sand
10,680'	10,700'	20'	Shale & Sand
10,700'	10,727'	27'	Shale, Lime & Chert
10,727'	10,730'	3'	Chert
10,730'	10,757'	27'	Shale & Lime
10,757'	10,775'	18'	Shale, Lime & Chert (Sdy)
10,775'	10,830'	55'	Shale, Lime, Chert & Sand
10,830'	10,984'	154'	Shale & Lime
10,984'	11,133'	149'	Shale, Lime & Chert
11,133'	11,649'	516'	Shale & Lime
11,649'	11,982'	333'	Lime, Sand & Shale
11,982'	12,053'	71'	Shale, Lime & Sand
12,053'	12,087'	34'	Sand
12,087'	12,135'	48'	Sand, Lime & Chert
12,135'	12,290'	155'	Shale, Lime & Sand
12,290'	12,318'	28'	Chert, Lime & Sand
12,318'	12,374'	56'	Lime, Sand & Shale
12,374'	12,394'	20'	Chert, Lime, Sand & Shale
12,394'	12,420'	26'	

The diagram shows a 2D hexagonal lattice of atoms. A central atom is highlighted with a larger, thicker border. A dashed line connects this central atom to one of its six nearest neighbors. The lattice is arranged in a regular, repeating pattern of hexagons.

LETTER FROM THE DIRECTOR

2,020	anyardite
2,800	ates
5,033	San Andres
5,190	Gloster
6,926	Thpps
7,762	Apo
8,961	Helicamp
9,436	3 Brothers
9,618	Bough "A"
9,650	Bough "B"
9,680	Bough "C"
12,450	Mines adaption
12,954	Woodford
13,120	Devonian

TOPS:

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of re-drilling, 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.

HISTORY OF OIL OR GAS WELL

U. S. GOVERNMENT PRINTING OFFICE

Item	Quantity	Unit Price	Total
Lime, Shale & Chert	57	12.870	733.79
Lime, Shale & Chert	125	12.870	1,608.75
Lime, Shale & Chert	86	12.870	1,106.82
Sand, Shale & Lime	50	13.131	656.55
Lime & Dolomite	8	13.131	105.05
Total			4,151.96