

41534 - J.F. Black Lease  
Lea County, New Mexico

FORM C-105

N


AREA 640 ACRES  
LOCATE WELL CORRECTLY

NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

OCT 14 1938

HOBBS OFFICE

WELL RECORD

DUPLICATE

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 TRIPLICATE.

The Texas Company      Drawer "K"      Wink, Texas  
Company or Operator      Address  
J.F. Black      Well No. 3      in NW $\frac{1}{4}$ -NE $\frac{1}{4}$  of Sec. 21      T. 24S  
Lease      R. 37-E      N. M. P. M.      Mattix Area      Field,      Lea      County.  
Well is 660 feet south of the North line and 1980 feet west of the East line of Section 21  
If State land the oil and gas lease is No.      Assignment No.        
If patented land the owner is J.H. Black      Address      Jal, New Mexico  
If Government land the permittee is      Address        
The Lessee is The Texas Company      Address      Box 2332, Houston, Texas  
Drilling commenced April 11th 1938      Drilling was completed Sept. 17th 1938  
Name of drilling contractor Richmond Drilling Co.      Address      Big Springs, Texas  
Elevation above sea level at top of casing 3233 feet.      At Derrick Floor  
The information given is to be kept confidential until 19

OIL SANDS OR ZONES

No. 1, from 2825 to 2835	No. 4, from 3410 to 3495	Oil
No. 2, from 3366 to 3373	No. 5, from      to	Gas
No. 3, from 3399 to 3403	No. 6, from      to	Oil

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from      to	feet.
No. 2, from      to	feet.
No. 3, from      to	feet.
No. 4, from      to	feet.

SIZE	WEIGHT PER FOOT	THREADS PER INCH	MAKE	AMOUNT	KIND OF SHOE	CUT & FILLED FROM	PERFORATED		PURPOSE
							FROM	TO	
15 $\frac{1}{2}$ "	70#	8	L.W.	119'	Texas Pat.	Pulled			
13 $\frac{1}{2}$ "	40#	8	"	183'	BIW Pat.				
10-3/4"	32.75#	8	"	817'	Tex. Pat.	Pulled			
8-5/8"	32#	8	"	1391'	"	"			
7"	24#	10	Smls.	3353'	Packer Guide				
5-3/16"	17#	10	"	111'			3390	3495	Liner

SIZE OF HOLE	SIZE OF CASING	WHERE SET	NO. SACKS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED
	13"	192'	100	Halliburton		
	8-5/8"	1384'	150	"		
	7"	3338'	125'	"		

PLUGS AND ADAPTERS

Heaving plug—Material      Length      Depth Set        
Adapters—Material      Size     

SIZE	SHELL USED	EXPLOSIVE OR CHEMICAL USED	QUANTITY	DATE	DEPTH SHOT OR TREATED	DEPTH CLEANED OUT
4"	10	Nitroglycerin	210	8-9-38	3410-3495	to 3495'

Results of shooting or chemical treatment Before shooting the well flowed Approx. 40 Bbl. in 24 hours, after shooting & cleaning out, the well flowed 75 Bbls. oil in 24 hours.

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      feet to      feet, and from      feet to      feet  
Cable tools were used from 0 feet to 3600 feet, and from      feet to      feet

PRODUCTION

Put to producing Sept. 17th 1938  
The production of the first 24 hours was 75 barrels of fluid of which 100 % was oil;      % emulsion;      % water; and      % sediment. Gravity, Be 37.1  
If gas well, cu. ft. per 24 hours      Gallons gasoline per 1,000 cu. ft. of gas  
Rock pressure, lbs. per sq. in.      Gas Oil Ratio 1500'

EMPLOYEES

F.L. Tubbs	Driller	V.C. Surger	Driller
D.E. Vandervort	Driller	F.E. Polen	Driller

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 7th      Wink, Texas      Oct. 7th, 1938  
day of October      1938      Name        
Notary Public      Position      District Superintendent  
My Commission expires 5-31-39      Representing      The Texas Company  
Address      Drawer "K", Wink, Texas

## FORMATION RECORD

FROM	TO	THICKNESS IN FEET	FORMATION
0	95	95	Surface Soil & Sand
95	135	40	Sand & Gravel
135	205	70	Red Rock & Red Beds
205	360	155	Red Beds & Shale
360	450	90	Red Rock
450	755	305	Sand & Shale
755	1080	325	Red Rock & Red Beds
1080	1370	290	Anhydrite & Red Rock
1370	1415	45	Anhydrite
1415	2475	1060	Salt Anhydrite & Some Potash
2475	2720	245	Grey Lime
2720	2725	5	Sandy Shale
2725	2825	100	Lime
2825	2835	10	Medium Lime
2835	3366	531	Lime
3366	3373	7	Soft Lime
3373	3399	26	Hard Lime
3399	3403	4	Medium Lime
3403	3410	7	Hard Lime
3410	3495	85	Medium Brown Lime & Sand
3495	3560	65	Hard Grey Lime
3560	3600	40	Hard Grey Sandy Lime

Plugged back from 3600' to 3495' leaving  
a string of 5" tools in hole below 3500'

Deviation tests as follows;

500' - 0°	2000' - 1/2°
1000' - 2°	2460' - 1/2°
1500' - 1/2°	2985' - 0°

## WELL HISTORY

Gas tested 1,000,000 Cu. Ft. at 3438'. The well was drilled to a total depth of 3600', but was plugged back to 3495' leaving a string of tools in the hole below 3500'. On Aug. 9th, 1938 the well was shot with 210 quarts of nitroglycerin from 3410' to 3495'. It was necessary to run 111' of 5-3/16" liner with the lower 105' perforated before the hole could be cleaned out to 3495' and running 2" tubing with Exner-Dodge underset packer at 3390'. The well flowed 75 Bbls. oil in 24 hrs. with gas oil ratio of 1500. Before shooting, the production the production was approximately 40 Bbls. oil per day.