

Form 9-330

HOBBS

U. S. LAND OFFICE
SERIAL NUMBER LC 060946
LEASE OR PERMIT TO PROSPECT

UNITED STATES

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company The Atlantic Refining Company Address Box 1038 Denver City, Texas
Lessor or Tract Carlson (Federal) Undesignated (Drinkard & Fusselman) New Mexico
Well No. 1 (Dual) Sec. 25 T. 25-S R. 37-E Meridian NMPM County Lea
Location 2310 ft. N of So. Line and 2309 ft. E of W. Line of Sec. 25 Elevation 3074
(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 N.A. CarrDate January 16, 1959 Title District Superintendent

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

Commenced drilling December 4, 19 58 Finished drilling January 9, 19 59OIL OR GAS SANDS OR ZONES From Samples
(Denote gas by G)

No. 1, from Florista to 4632 No. 4, from Fusselman to 6766
No. 2, from Drinkard to 5850 No. 5, from _____ to _____
No. 3, from Blinebry to 4967 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	8	Republic	415.65	Larkin				Surface
9-5/8	36	8	Nat'l.	3209.26	HOMCO				Intermediate
7	20	8	Nat'l.	6912.02	Baker		5873	5919	Oil String
							6923	6955	" "
2"	4.7	Type CS Hyd.	Nat'l.	6875.88					(Fusselman)
2"	4.7	" " "	Nat'l.	5870.38					(Drinkard)

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13-3/8	633.90	585	Pump		
9-5/8	334.8	1600	Pump		
7	694.7	300	Pump		

PLUGS AND ADAPTERS

Heaving plug—Material A Length 6960 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 0 feet to 6960 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

Put to producing January 15, 19 59

* The production for the first 24 hours was 443.04 barrels of fluid of which 99.8% was oil; .2% emulsion; _____% water; and _____% sediment. Gravity, °Bé. _____

If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

G.G. Martin _____, Driller D.K. Randolph _____, Driller
E.F. Ridens _____, Driller _____, Driller

*Drinkard Produced 444.96 BF (96.5% oil & 3.5% Emulsion) in 24 hrs.

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	80	80	Surface
80	220	140	Sand & Red Rock
220	329	109	Anhy & Red Rock
329	476	147	Red Rock
476	560	84	Shale
560	626	66	Red Bed & Anhy.
626	1078	452	Anhy & Sand
1078	2110	1032	Anhy & Salt
2110	2783	673	Anhy
2783	2847	64	Anhy & Gyp
2847	3222	375	Anhy & Lime
3222	3348	126	Lime & Sand
3348	3429	81	Lime
3429	3531	102	Sand & Lime
3531	3772	241	Lime
3772	3952	180	Sand & Lime
3952	4128	176	Lime
4128	4216	88	Sand & Lime
4216	4337	121	Lime
4337	4438	99	Sand & Lime
4438	4553	117	Lime
4553	4637	84	Sand & Lime Strks.
4637	4753	116	Lime
4753	4921	168	Sand & Lime
4921	5009	88	Lime

See Reverse Side

[OVER]

16-43094-3

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
5009	5123	114	Lime & Sand
5123	5200	77	Lime
5200	5230	30	Lime & Sand Strks.
5230	5271	41	Lime & Sand Strks.
5271	5355	84	Lime & Sand Strks.
5355	5397	42	Lime
5397	5472	75	Sand & Lime
5472	5558	86	Lime
5558	5620	62	Lime & Sand Strks.
5620	5681	61	Lime
5681	5689	8	Lime & Sand
5689	5682	7	Lime
5682	5692	10	Lime & Shale Strks
5692	5693	1	Lime, Chert & Dolo
5693	5697	4	Lime & Chert
5697	5658	39	Lime
5658	5660	2	Lime & Chert
5009	5123	114	FORMATION

Size	Explosive Used	Depth (feet)	Notes
1/2 lb.			
1 lb.			
2 lb.			
3 lb.			
4 lb.			
5 lb.			
6 lb.			
7 lb.			
8 lb.			
9 lb.			
10 lb.			
11 lb.			
12 lb.			
13 lb.			
14 lb.			
15 lb.			
16 lb.			
17 lb.			
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93 lb.			
94 lb.			
95 lb.			
96 lb.			
97 lb.			
98 lb.			
99 lb.			
100 lb.			

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 the 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

16-43094-2 U. S. GOVERNMENT PRINTING OFFICE

Perforated 6923-55 (Fusselman) & 5873-5919 w/4-jet shots per foot.

Western Co. Acidized Drinkard Zone 5873-5919 w/1000 gal. of 15% MCA Acid.

Western Co. Acidized Fusselman part. 6923-55 w/1000 gal. 15% MCA. MP 2800#

Inf. rate 2.21 BPM. Resulted in potential test of new zone.

Oil or Gas Sands or Zones

Completed drilling

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

Date

The information given here is a complete and correct record of the well and all work done thereon

Location

Person or Firm

Address

State

County

Section

Range

Township

Latitude

Longitude

LOG OF OIL OR GAS WELL

UNITED STATES

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

HOBBES

COPY TO C.C.C.

DRILL STEM TESTS

"Carlson (Federal) #1"

1959 MAR 17 AM 10:19

December 29, 1958

Drill Stem Test #1 Testing Blinbry from 5120' to 5230'. Ran 2-7 $\frac{1}{2}$ " Johnston Pkrs. w/5/8" BC, 1" TC, no WC. Tool open @ 11:15 A.M. 12-26-58 for 1 hr w/strong blow. Gas to surf. in 4 min. Flowed gas @ rate of 1000 MCF GPD (est.) Flowing surface pressure 50#. SI 30 min. Rec. 900' fluid (360' gas cut mud, 540' heavily oil & gas cut mud.) TFP 375#, FFP 390#, SIP 2150#. Hydrostatic 2675#.

Drill Stem Test #2 Testing Blinbry from 5230-5330'. Ran 2-7 $\frac{1}{2}$ " Johnston pkrs. w/1" to 1/2" TC, 5/8" BC, no WC. Tool open @ 9:45 A.M. 12-27-58 for 1 $\frac{1}{2}$ hrs w/weak blow of air. Gas to surface in 10 min. Last 15 min. on 1/4" choke w/10# surface press. @ 30 MCF GPD. SI for 30 min. Rec. 1350' fluid (690' of 58-50 mud & oil; 270' free oil; 390' heavily oil & gas cut mud.) Gravity 37°. TFP 200#, FFP 325#, SIP 2010#, Hydrostatic 2675#. JC @ 3 P.M. 12-27-58.

Drill Stem Test #3 Testing Blinbry from 5330-5441'. Ran 2-7 $\frac{1}{2}$ " Johnston pkrs. w/1" to 1/4" TC, 5/8" BC, no WC. Tool open @ 9:40 A.M. 12-28-58 for 1 hr w/good blow of air. Gas to surface in 8 min. Steady blow of gas throughout test. SI for 30 min. Rec. 1000' free oil, 500' heavily oil & gas cut mud. TFP 110#, FFP 335#, SIP 2095#, Hydrostatic in 2830#, out 2810#, temp. 124°. JC @ 3 P.M. 12-28-58.

Drill Stem Test #4 Testing Drinkard from 5879-5930'. Ran 2-7 $\frac{1}{2}$ " Johnston pkrs w/5/8" to 1" TC, 5/8" BC, no WC. Tool open @ 7:42 A.M. 1-1-59 for 2 $\frac{1}{2}$ hrs w/strong blow of air. Gas to surface in 4 min. oil in 1 hr. 10 min. Flowed to pit for 20 min. put on 5/8" choke and in 1 hr flowed to test tank @ 80, 35 gravity, surface press. 35#. SI for 30 min. Reversed out 4.4 BC. Total rec. 12.4 BC. Rec. 90' of free oil, no wtr, below the SI tool. TFP 395#, FFP 575#, no SIP (Could not get tool closed.) Hydrostatic 3115#.

Drill Stem Test #5 Testing Fusselman from 6917-47. Ran 2-7 $\frac{1}{2}$ " Pkrs w/5/8" TC, 5/8 BC, no WC. Took 20 min. ISIP. Tool open w/strong blow through. Tool open @ 5:30 A.M. 1-9-59 for 1 hr. Gas to surface in 6 min. Oil to surface in 70 min. while taking 30 min SIP. Reversed out 3 $\frac{1}{2}$ " DP test string full of oil & gas. ISIP 2940#, TFP 108#, FFP 1320#, 30 min. SIP 2325# Hydrostatic 3725#. Rec. 30' oil below shut in tool, no wtr.