

U. S. LAND OFFICE New MexicoSERIAL NUMBER 03085

LEASE OR PERMIT TO PROSPECT

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Marathon Oil Company Address Box 2107, Hobbs, New Mexico
Lessor or Tract Lea Unit Field Lea Penn. State New Mexico
Well No. 3 Sec. 13 T 20-S R. 34-E Meridian County Lea
Location 1980 ft. N. of S Line and 1980 ft. E. of E Line of Sec. 13 Elevation 3652 GL
(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 5-8-63Title Superintendent

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

Commenced drilling 8-1-62, 19 Finished drilling 12-9-62, 19

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 14,380 to 14,388 (Oil) No. 4, from to
No. 2, from 12,902 to 12,918 (Gas) 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#	8R	Spang	867'	Guide				Surface
9 5/8	36#	8R	Spang	5498'	Guide				Intermediate
7"	26#	8R	Spang	14,090'	Diff.				Prod.
4 1/2"	14.98#		Hydril Liner	14,928' to 14,435'					Prod.

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13 3/8	867'	800	2-Plug	-	-
9 5/8	5498'	2970	2-Plug	-	-
7"	14,090'	1405	2-Plug	-	-
4 1/2"	14,435'	100			

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 0 feet to 14,435 feet, and from feet to feet

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

DATES

5-8-63, 19 Put to producing 1-9-63, 19

The production for the first 24 hours was 517 barrels of fluid of which 100% was oil; 0% emulsion; 0% water; and 0% sediment. Gravity, °Bé. 58.1°

If gas well, cu. ft. per 24 hours 2,444,000 CFG Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in.

EMPLOYEES

Drilling and Exploration Co., Driller

, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	2205	2205	Red bed, Anhydrite
2205	3256	1051	Salt
3256	3873	617	Lime, Anhydrite, Gyp.
3873	6180	2307	Lime
6180	8264	2084	Lime, Sand, Anhydrite
8264	9396	1132	Lime
9396	9939	543	Lime, Sand, Dolomite, Shale
9939	14,435	4496	Lime, Chert, Sand, Shale
TOTAL DEPTH 14,435'			ELECTRIC LOG TOPS: Bone Springs 8258' Middle Bone Springs 9505' Lower Bon Wolfcamp Strawn 12 Bend 12,3 Chester 1 Miss. Lim
Well completed dually in the Lea Penn and Lea Devonian.			

(OVER)

FORMATION

TOTAL FEET

—OL

—WOMEN

J. A. Arnes
 J. H. Tharner
 D. V. Tibbitts
 T. A. Steele
 J. R. Barber
 E. B. Kennedy
 Jake L. Hanson
 Sinclair
 Comm. of Public Lands

HISTORY OF OIL OR GAS WELL

It was of the greatest importance to have a complete history of the well. Please state in detail the dates of peddling, together with the reasons for the work and its results. If there were any changes made in the casting, state fully, and if any casting was "sketchmarked" 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.

DST #1 - 9790-9562, tool open w/good blow, air immediately decreasing to fair blow
 at end of test, no gas to surface, tool open 2 hrs., rec. 2000' gas, 501 oil cut drlg.
 mud, ISIP 155#/30 mins, ISIP 605#/60 mins, ISIP 65#, ISIP 95#, Temp. 180°, H₂O. in 1100',
 H₂O. out 4715'.
 DST #2 - 11,673-11,760' (Molecamp Lm), tool open 5 mins, w/no blow, tool open total
 11 hrs., rec. 1200' (23 bbls) of 60°F API at 60°F gtl and 360' (3 bbls) of Molecamp,
 ISIP 1764#/30 mins, ISIP 5060#/60 mins, ISIP 1027', ISIP 1323#, H₂O. in 7203#, H₂O.
 out 7183'.
 DST #3 - 12,766-12,805' (upper sand), tool open 3 mins, with no
 blow, tool open total 2 hrs., rec. 5' drilling mud with no water, ISIP 2355#/30,
 ISIP 2215#/60 mins, ISIP 2129#, H₂O. in 8111#, H₂O. out 8261'.
 DST #4 - 12,829-12,925', 3000' nitrogen, tool open 3 mins, strong blow to surface
 immediately, gas to surface 120 mins, seemed to hit to clean up for 60 mins.
 tool open 11 hrs. and 45 mins., rec. 300' (5 bbls) of condensate and 300' (5 bbls)
 H₂O. above nitrogen value. 600' (11 bbls) of condensate below nitrogen value.
 DST #5 - 12,993 - 13,040', 3000' nitrogen, pressure failed.
 DST #6 - 12,920-13,040', 3000' nitrogen, tool open 3 hrs., no blow for first 25
 mins., after 25 mins. started to blow increasing to very strong blow in one min.
 gas to surface 2 hrs. at rate of 18,000 GPM, rec. 230' (2.80 bbls) of 57.8° API
 60°F condensate and 1020' (1.45 bbls) heavily gas and condensate cut drlg. mud,
 ISIP 6784#/30 mins, ISIP 6769#/60 mins., ISIP 2083#, ISIP 2707', ISIP 8599',
 Temp. 381°.
 DST #7 - 13,120 - 13,235', 3000' nitrogen, tool open 2 hrs. with no blow, rec. 90'
 heavy gas cut drilling mud, ISIP 5840#/30 mins., ISIP 7256#/60 mins., ISIP 2076#.
 ISIP 2100', ISIP 8473#, ISIP 8854#, Temp. 172°.