

U. S. LAND OFFICE

SERIAL NUMBER SF 079439

LEASE OR PERMIT TO PROSPECT

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company El Dorado Refining Co. Address 1020 Central Bldg., Wichita, Kansas
Lessor or Tract Horseshoe Canyon "A" Field Undesignated State New Mexico
Well No. 1 Sec. 4 T. 30N R. 16W Meridian NMPM County San Juan
Location 610 ft. N of N Line and 1050 ft. E of E Line of Sec. 4 Elevation 5808'
(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 Max S. Houston
Date July 29, 1957 Title Manager of Exploration

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

Commenced drilling June 6, 1957 Finished drilling June 14, 1957

OIL OR GAS SANDS OR ZONES

(Denote gas by G)
No. 1 from 1605' to 1645' No. 4 from 1605' to 1645'
No. 2 from 1733' to 1749' No. 5 from 1733' to 1749'
No. 3 from 1733' to 1749' No. 6 from 1733' to 1749'

IMPORTANT WATER SANDS

No. 1 from 1605' to 1645' No. 3 from 1605' to 1645'
No. 2 from 1733' to 1749' No. 4 from 1733' to 1749'
No. 5 from 1733' to 1749' No. 6 from 1733' to 1749'

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
8 5/8"		8	J-55	91'	(Baker)				Surface
5 1/2"									Production

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8 5/8"	91'	70	(Pumped &)		
5 1/2"	1807'	100	(Circulated)		

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 1810' feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

Put to producing July 20, 1957

The production for the first 24 hours was 123 barrels of fluid of which 100% was oil; _____%
emulsion; _____% water; and _____% sediment. Gravity, °BX API 41°

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

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

Benson-Montin-Greer Contractor _____, Driller
_____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0'	300'	300'	Sand and Shale
300'	1573'	1273'	Shale and Sand
1573'	1810'	237'	Sand, Shale and Lime
FORMATION TOPS (Induction Electrical Log)			
Pt. Lookout	Surface		
Mancos	300' (+5508')		
Gallup Zone	1573' (+4235')		
Upper Sand	1605' (+4203')		
Lower Sand	1733' (+4075')		
Sanastee	1762' (+4046')		

LOG OF OIL OR GAS WELL

GEOLOGICAL SURVEY
DEPARTMENT OF THE INTERIOR
UNITED STATES

A blank 10x10 grid for graphing, consisting of 10 columns and 10 rows of squares.

LOCATE WELL CORRECTLY

Completed.
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.
Pumping into storage tanks.
Signed _____
Max S. Houston
Title _____
Date _____
COR 215-17-01-100#
Pumping new oil at the rate of 123 BOPD (physical potential), plus 26.4 WCEGD,
The summary on this page is for the completion of the well at 2006 BOPD.
_____ June 6, 1957 _____ Finished drilling June 14, 1957
_____ Commented on _____
_____ Recovered _____
_____ June 6, 1957 _____
_____ Pumping _____
_____ Date _____
_____ COR 215-17-01-100# _____
_____ Pumping new oil at the rate of 123 BOPD (physical potential), plus 26.4 WCEGD,
The summary on this page is for the completion of the well at 2006 BOPD.
_____ Max S. Houston _____
Title _____
Date _____
_____ Signed _____
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.
Completed.
Location 610 ft. [S] of [W] Line and 1050 ft. [W] of [E] Line of _____ Sec. 4 _____ Elevation 5808' _____
Well No. 1 _____ Sec. 4 T. 30N R. 16W Meridian _____ NMPM _____ County _____ San Juan _____ State _____ New Mexico _____
Lessor or Tract _____ Horseshoe Canyon "A" _____ Field _____ Undesignated _____ State _____ New Mexico _____
Company _____ El Dorado Refining Co. _____ Address _____ 1050 Central Bldg., Wichita, Kansas _____

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 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 lifts or bridges were put in to test for water, state kind of material used, position, and results of pumping or forcing down.

Casing	Weight per foot	Thickness per inch	Make	Amount	Kind of shoe	Cut and pulled from	From To	Purposes
2 7/8"	[REDACTED]	8	1-25	91' (Baker)				Surface

Spudded on June 6, 1937. Cemented 8 5/8" 24# J-55 Casing @ 91' (RKB) with 70 sacks, circulated to surface. Drilled 1 7/8 hole to 1808' (RKB) rotary total recovered 70' of slightly oil and gas cut mud, IFF OH, FFF 160#, BHP 640# No 20 minutes.

Ran Schlumberger electrical log on brackish water sands cemented 5 1/2" 14# J-55 casing @ 1807' (RKB) with 100 sacks. No 3 from to

Ran Schlumberger electrical log on brackish water sands cemented 5 1/2" 14# J-55 casing @ 1807' (RKB) with 100 sacks. No 3 from to

Perforated the interval 1736-1745', babbled and cut off. Treated with 500 gallons of acid. Bailed 20 gallons of fluid in one hour with a slight show of oil. No 4 from to

Perforated the interval 1605'-47': Fractured with 40,000 gallons of oil, 40,000 lbs. of sand and 120 rubber balls. (Pumps are OK) OIL OR GAS SANDS OR ZONES

HISTORY OF OIL OR GAS WELL

MUDGING AND CEMENTING RECORD					
Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
5 7/8"	91'	70	(Pumped &)		
1 1/2"	1807'	100	(Circulated)		

PLUGS AND ADAPTERS

SHOOTING RECORD		Adapters—Material		Heaving plug—Material	
	Size				
	Length				
	Depth set				

SHOOTING RECORD

[illegible]

TOOLS USED

Rotary tools were used from	0	feet to	1810', feet, and from	feet to
Cable tools were used from		feet to	feet, and from	feet to

DATE

If gas well, cu. ft. per 24 hours emulsion; % water; and % sediment The production for the first 24 hours was 123	Put to producing Only 20
Gallons gasoline per 1,000 cu. ft. of gas Gravity, °BAH 41°	barrels of fluid of which 100% was oil; %

EMPLOYEES

Benson-Montin-Greer	Contractor	Driller
		Driller

FORMATION RECORD

FROM-	TO-	TOTAL FEET	FORMATION
1573'	1810'	237'	Sand, Shale and Lime
300'	1573'	1273'	Shale and Sand
0'	300'	300'	Sand and Shale

FORMATION TOPS (Induction Electrical Log)

Surface	Pt. Lookout
1762' (+4046')	Gastrop
1733' (+4075')	Lower Sand
1605' (+4203')	Upper Sand
1573' (+4235')	Gallup Zone
300' (+5508')	Mancos

FORMATION RECORD—Continued