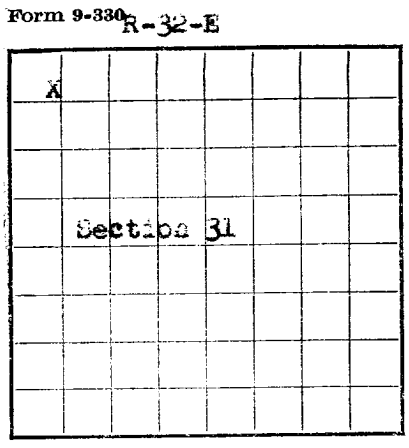
Budget Bureau No. 42-R-355.3.
Approval Expires 12-31-55.

Form 9-330 R-32-E

U. S. LAND OFFICE New Mexico
SERIAL NUMBER LC-064198
LEASE OR PERMIT TO PROSPECT



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Shell Oil Company Address P. O. Box 1858, Roswell, New Mexico 88201
Lessor or Tract Middleton-Federal "B" Field Lusk-Strawn State New Mexico
Well No. 1 Sec. 31 T. 19S R. 32E Meridian NMPM County Lea
Location 660 ft. {N. / S.} of N Line and 660 ft. {E. / W.} of W Line of Section 31 Elevation 3528
(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 R. A. Lowery Original Signed By R. A. LOWERY

Date September 3, 1963 Title District Exploitation Engineer

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

Commenced drilling April 8, 1963 Finished drilling June 30, 1963

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from ____ to ____ 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 From—	Perforated To—	Purpose
13 3/8"	48#	8rd	National	829'					Surface
8 5/8"	32#	8rd	Lonestar	3692'					Intermediate

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13 3/8"	845'	[illegible]	Pump & Plug	Cemented to surface	
8 5/8"	3705'	335	Pump & Plug	Cemented to surface	

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 12,976 feet, and from ____ feet to ____ feet
Cable tools were used from ____ feet to ____ feet, and from ____ feet to ____ feet

DATES

September 3, 1963 Put to producing Transferred to H. N. Sweeney - July 3, 1963

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 ____ Gallons gasoline per 1,000 cu. ft. of gas ____

Rock pressure, lbs. per sq. in. ____

EMPLOYEES

____, Driller ____, Driller
____, Driller ____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	827	827	Caliche & Red Beds
827	2645	1818	Salt & Anhydrite
2645	2914	269	Sand w/Anhydrite
2914	4190	1276	Dolomite
4190	7219	3029	Sand w/Dolomite & Shale
7219	10530	3311	Limestone & Sand
10530	11352	822	Limestone & Shale
11352	11584	232	Limestone w/Shale & Chert
11584	12976	1392	Shale, Limestone, & Sand

LOG TOPS:

Base Red Beds	827'	(+2701')
Yates	2645'	(+883')
Seven Rivers	2947'	(+581')
Bone Spring	7218'	(-3690')
Wolfcamp	10,530'	(-7002')
Des Moines	11,352'	(-7824')
Atoka	11,584'	(-8056')

(See Attachment for History of Well)

[OVER]

16—43094-8

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION

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

HISTORY OF OIL OR GAS WELL

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