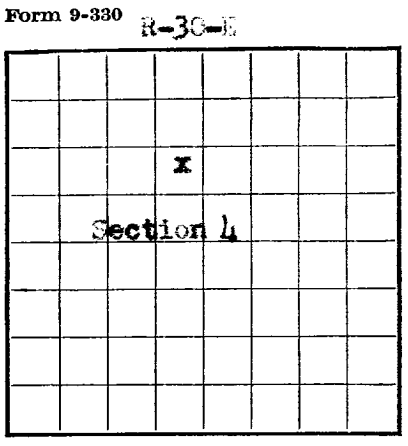
Form 9-330 R-30-E

Budget Bureau No. 42-R355.4.
Approval expires 12-31-60.

U. S. LAND OFFICE New Mexico
SERIAL NUMBER LC-060298
LEASE OR PERMIT TO PROSPECT



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

RECEIVED
FEB 10 1958

LOG OF OIL OR GAS WELL

Company Shell Oil Company Address Box 845, Roswell, New Mexico

Lessor or Tract Spencer Federal A Field W. Henshaw-Grayburg State New Mexico

Well No. 4 Sec. 4 T-16-S R-30-E Meridian NMPM County Eddy

Location 2970 ft. {N.} of S Line and 2310 ft. {E.} of W Line of Section 4 Elevation 3850
{S} {W} (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 Rex C. Cabaniss Original Signed By Rex C. Cabaniss

Date February 6, 1958 Title District Exploitation Engineer

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

Commenced drilling January 3, 1958 Finished drilling January 29, 1958

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 2790 to 2800 No. 4, from to

No. 2, from 2806 to 2812 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
8 5/8"	32#	8rd	Youngstown	499'					Surface String
5 1/2"	15.5#	8rd	Youngstown	2860'	Larkin		2790'	2800'	Oil String
							2806'	2812'	

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8 5/8"	509'	250	Pump & Plug	Cemented to surface	
5 1/2"	2860'	600	Pump & Plug		

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 2860 feet, and from feet to feet

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

DATES

February 6, 1958 Put to producing February 4, 1958

The production for the first 24 hours was 268 barrels of fluid of which 99.8% was oil; 0.2% emulsion; %water; and %sediment. Gravity, °Bé. 37 deg. API

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	25	25	Sand & Caliche
25	509	484	Red Beds
509	532	23	Red Beds & Salt
532	1092	560	Salt
1092	1538	446	Salt & Anhydrite
1538	2015	477	Anhydrite & Gyp
2015	2217	202	Anhydrite & Dolomite
2217	2465	248	Dolomite & Anhydrite
2465	2785	320	Sand & Dolomite
2785	2860	75	Dolomite

LOG TOPS:

Yates	1298'	(+2552')
Queen	2079'	(+1771')
Grayburg	2469'	(+1381')
Premier	2784'	(+1066')
San Andres	2815'	(+1035')

[OVER]

16—43094-4

FOLD MARK

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.

Spudded w/Cable tool spudder January 3, 1958. Ran surface casing @ 490' on January 12. Moved off spudder. Moved in rotary & resumed drilling January 18. Surface casing tested OK w/750 psi for 30 minutes. After drilling plug formation tested OK w/200 psi pressure, held 100 psi. Drilled ahead w/ 7 7/8" hole. Reached TD 2860' on January 29. Ran Gamma Ray, Laterolog & MicroLaterolog surveys. Ran 5 1/2" casing. Released rig. Rigged up pulling unit. Displaced hole w/oil. Ran GR/CCL log. Perforated 2790' - 2800' & 2806' - 2812' w/4 JSPF. Washed w/MCA & broke into formation. Swabbed load & swabbed dry. Treated w/20,000 gallons lease crude containing 1#/gallon sand & 0.1#/gallon Adomite in two stages w/50 rubber balls between stages. Recovered load.

On OPT flowed 268 BOPD, cut 0.2% BS&W, thru 20/64" choke. FTP 70 psi. CP 600 psi. Gravity 37 deg. API.