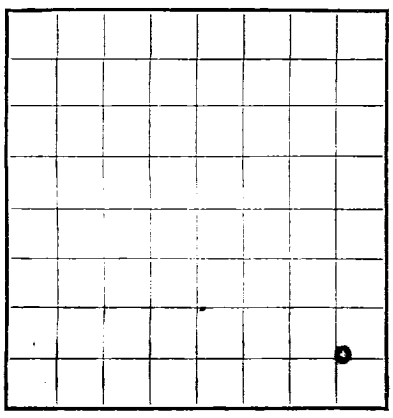
get Bureau No. 42-R355.4.
roval expires 12-31-60.

Form 9-330

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER NM 086
LEASE OR PERMIT TO PROSPECT



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Forster Drilling Company Address Box 588 - Odessa, Texas

Lessor or Tract Federal Field Wildcat State New Mexico

Well No. 1 Sec. 25 T. 19S R. 34E Meridian NMPM County Lea

Location 660 ft. {N. / S} of S Line and 660 ft. {E / W} of E Line of Sec. 25 Elevation 3746
(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 [signature]

Date November 10, 1958 Title Agent

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

Commenced drilling August 21, 19 58 Finished drilling September 20, 19 58

OIL OR GAS SANDS OR ZONES

(*Denote gas by G*)

No. 1, from 4090 to 4106 No. 4, from 4804 to 4810

No. 2, from 4130 to 4140 No. 5, from 4920 to 4925

No. 3, from 4790 to 4795 No. 6, from ____ to ____

IMPORTANT WATER SANDS

No. 1, from Unknown 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	24#	8 Rd.	J-55	318.4'	Larkin	None	None		
5-1/2"	15.5	8 Rd.	Natl	5143'	Baker	None	4918	4925	To test
			J-55				4681	4691	indicated
							4085	4098	pay zones

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8	328'	225	Pump	None	Cemented to surface
5-1/2	5105	300	Pump	40	3430' to surface outside of casing

FOLD | MARK

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
			"NONE"			

TOOLS USED

Rotary tools were used from 0' feet to 5105' feet, and from ____ feet to ____ feet

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

DATES

November 8th, 19 58 Put to producing November 8th, 19 58

The production for the first 24 hours was 70.4 barrels of fluid of which 74 % was oil; 23 % emulsion; 3 % water; and -0- % sediment.

Gravity, °Bé. 29.6

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

Rock pressure, lbs. per sq. in. ____

EMPLOYEES

W. C. Eubanks, Driller H. J. Welch, Driller

Harvie Collett, Driller ____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	1800	1800	Sand and Shale
1800	1930	130	Anhydrite
1930	3318	1388	Salt and Red Beds
3318	3494	176	Dolomite and Anhydrite
3494	3625	131	Sand and Dolomite
3625	3945	320	Anhydrite and Dolomite
3945	4140	195	Sand and Dolomite
4140	4665	525	Dolomite and Sand
4665	5080	415	Sand and Dolomite
5080	5105	25	Dolomite

ELECTRIC LOG TOPS

1800 = Top Anhydrite
3318 = Base of Salt
3494 = Top Yates
4665 = Top Queen
5080 = Top Grayburg

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" of 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.

Federal (NM 086) Well No. 1 spudded at 12:30 P.M. on 8/21/58; drilled 11" hole to 328 feet; set 8-5/8" casing at 328 feet and cemented with 225 sacks cement, cement circulated. 8-5/8" casing tested with 750# pressure and held for thirty minutes with no drop in pressure. Drilled 7-7/8" hole to 4476 feet; ran drill stem test from 4058 to 4153 feet, recovered 660 feet of gas cut mud, 30 feet of slightly oil and gas cut mud and trace of free oil. Continued drilling 7-7/8" hole to 4787 feet and cut 6-1/8" diamond core from 4787 to 4813 feet; reamed core hole and drilled to 4919 feet. Cut 6-1/8" diamond core from 4919 to 4970 feet, reamed core hole and continued drilling 7-7/8" hole to total depth of 5105 feet. Ran electric log and set 5-1/2" casing at 5105 feet, cemented with 200 sacks of 4% Gel cement plus 100 sakes regular cement. Ran Temperature survey and found top of cement at 3430 feet. Tested 5-1/2" casing with 1500# pressure for thirty minutes with no drop in pressure.

Perforated 5-1/2" casing from 4918 to 4925 feet with 4 holes per foot and fractured with 20,000 gallons oil and 30,000# sand. Test of this zone resulted in recovery of water.

Bridge plug set at 4850 feet with on sack Cal-Seal on top; perforated 5-1/2" casing from 4681 to 4691 feet and treated with 500 gallons acid and 5,000 gallons oil, and 7500# sand. Test of this zone resulted in recovery of water.

Ran Tracer Survey on perforations from ~~4681~~ 4681 to 4691 feet, no communications between zones.

Set bridge plug at 4250 to 4252 feet with 9 feet of Cal-Seal on top. Perforated 5-1/2" casing from 4085 to 4095 feet with 4 holes per foot. Treated with 500 gallons acid and swabbed only water. Fractures with 5,000 gallons oil and 7500# sand, test of this zone resulted in recovery of new oil.