

LEASE OR PERMIT TO PROSPECT

1968 FEB 24 AM 9:47
UNCLASSIFIED

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Southwestern Hydrocarbon Company Address P. O. Box 578, Roswell, New Mexico
 Lessor or Tract Sinclair-Federal Field Undesignated State New Mexico
 Well No. 1-D Sec. 4 T. 10S R. 38E Meridian N.M.P.M. County Lea
 Location 660 ft. XX of N Line and 660 ft. XX of W Line of Section 4 Elevation 3931' KB

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.

Date February 19, 1960 Title Geological Consultant

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

Commenced drilling January 25, 1960 Finished drilling February 5, 1960

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 1935 to 1991 No. 4, from 1935 to 1991
No. 2, from 1935 to 1991 No. 5, from 1935 to 1991

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

CASING RECORD

[illegible]

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8	374	215	Circulated		
4-1/2	1991	200	Circulated - two stages		

PLUGS AND ADAPTERS

Heaving plug—Material ----- Length ----- Depth set -----

Adapters—Material	Size
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SHOOTING RECORD

[illegible]

TOOLS USED

Rotary tools were used from surface feet to 4991 feet, and from _____ feet to _____ feet.

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

February 19 19 60

DATES Completed swabbing new oil at
Put to producing February 16 19 60

The production for the first 24 hours was 156 barrels of fluid of which 30 % was oil; - % emulsion; 70 % salt water; and - % sediment. Gravity, xx Be. 30° 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

EMPLOYEES	
Verna Drilling Company	Driller

_____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	20	20	Caliche and wind blown sand
20	2300	2280	Alternating sands and red & green shales
2300	2920	620	Anhydrite, gypsum, salt and red shale stringers (T. Rustler @ 2300').
2920	4207	1287	Anhydrite, red shale and red sand section of the Yates-Queen-Grayburg formations. (T. Yates Sd @ 2920'. T. Queen Sd @ 3664').
4207	4991	784	Anhydrite and dolomite (San Andres) 4935-4991'. Smp's bleeding oil, good cut stn. & flor.

HISTORY OF OIL OR GAS WELL

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

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 well on 1-25-60 with Verna Drig. Co. rotary tools. Ran 8-5/8" OD, J-55, 21# surface pipe to 374' and cemented w/215 sacks of cement circulated to surface. Cement set for 24 hrs. before drilling ahead. Drd w 7-7/8" hole to total depth of 4991 feet. Ran electric logs. Ran 4990 feet of 4 1/2" OD, J-55, 9.5#/ft. oil string with 1 foot float shoe to TD of 4991. Located DV tool in oil string at 3197 feet. Cemented with 200 sx of 50-50 pozmix cement two stages. First stage: Pumped to bottom and circulated 125 sx of 2 1/2" gel leaving 34 in bottom of pipe. Pump water & wire line behind 1st stage to float collar located 34 feet off bottom. Pumped second stage of 1 1/2" gel down through DV tool @ 3197' and circulated up across Yates sd. Pumped water & wire line down to DV tool and let set for 30 minutes. Let cement set for 24 hrs. Drd. out DV tool and bottom plug to 4978 feet. Perforated w/4 shots per foot (Walex jets) from 4935-40 and 4941-54 feet. Ran 2 inch upset, J-55, tubing to 4935' with Halliburton R-3 packer and set packer in tension at 4863 feet. Swabbed tubing dry. Acidized w/7500 gals. of Dowell M28 regular acid and flushed tubing w/19.2 bbls. of fresh water. Swabbed back acid water & flush water and began making new oil w/trace of gas on 2-15-60. On 10 hr. swab test from 2-15-60 to 2-16-60 swabbed 6.5 bbls. fluid per hour, being 30% oil (gty 300 API) and 70% salt water. Completed well for an oil well on 2-16-60 for a calculated potential of 47 bbls. oil per day and 109 bbls. salt water per day on the swab. GOR: TSTM, Temporarily shut in on 2-17-60, installing pump jack and tank battery installation.