

Form 9-330

SECTION 21

U. S. LAND OFFICE Santa Fe

SERIAL NUMBER 77352

LEASE OR PERMIT TO PROSPECT

UNITED STATES

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

RECEIVED

JUL 3 1958

U. S. GEOLOGICAL SURVEY
FARMINGTON, NEW MEXICO

ILLEGIBLE

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Hermann Address P. O. Box 2100, Hobbs, New Mexico
Lessor or Tract Section 21 Field Cliffs State N.M.
Well No. 1 Sec. 21 T. 24 R. 1 Meridian N. 100 County Lea
Location 1650 ft. N. of Line and ft. E. of Line of Sec. 21 Elevation 7237
(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.

Date June 25, 1958 Signed [Signature] Title District Engineer

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

Commenced drilling October 7, 1957 Finished drilling November 17, 1957

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 341 to 300 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		Purpose
							From—	To—	
8 5/8"	29	8	used	300'					Surface
5 1/2"	24	8	used	300'					Production

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8 5/8"	300	100 S.A.	ump & lug		
5 1/2"	175	175 S.A.	ump & lug		

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 6 feet to 300 feet, and from feet to feet
Cable tools were used from feet to feet, and from feet to feet

DATES

June 25, 1958 Put to producing Potential

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 154,100 Gallons gasoline per 1,000 cu. ft. of gas 0

Rock pressure, lbs. per sq. in. 783 24 hrs.

EMPLOYEES

 , Driller , Driller
 , Driller , Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
2850	2910	60	Clay shale
2910	3017	107	Hardened sandstone
3017	3066	49	Hardened Cliffs
3066	3123	57	Sand

Formations: 3041-3052, 3055-3066 w/ 6' oil

Potential Test

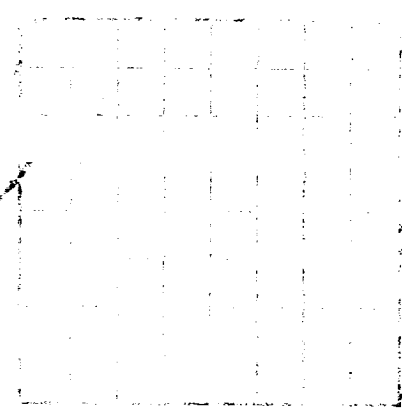
After 7 days shut-in - 117# - 290#, G-783# Flowed 3 hrs. on 3/4" ch. gas with water vapor - no plugs - 117# - 290#, Potential flowed 154,100 24 hrs. Calculated absolute open flow 1769 MCF 24 hrs. Potential completed June 25, 1958.

Date	Description
10-30-57	Drilled
10-31-57	Set 300' of 8 5/8" cas. cemented w/ 200 lbs., circulated
11-1-57	Tested 8 5/8" cas. w/ 500' hold OK
11-13-57	Core #1 (2917-2977) rec. 50' sand & coal all show gas odor
11-14-57	Core #2 (2977-3000) rec. 15' sand & coal
11-15-57	Core #3 (3000-3066) rec. 24' sand & coal, 47' sand w/ all gas odor, 1' clay
11-17-57	Core #4 (3066-3123) rec. 1 1/2' shale 7 1/2' sand & s.s. 32' sand & s.s.

- 11-17-57 Schlumberger ran Elec. logs
11-17-57 Drilled to Total Depth 3123'
11-23-57 Set 3123' of 5 1/2" cas. on bottom, cemented with 175 lbs.
11-20-57 Tested 5 1/2" cas. with 1000' hold OK
11-21-57 Washed out cement to 3081' PSTD
11-21-57 B. J. ran radio-active logs
11-22-57 B. J. perforated in Cliffs zone 3041-3052, 3055-3066 with 600#
11-22-57 Dowell Inc. sand utr. frac perf's 3041-3052, 3055-3066 with 22,000 gals water & 22,000# sand broke formation 1500# STP 3000#, 5 min. SIP 200# Used 120 balls injection rate 60 BPM for 15 minutes.
11-22-57 Ran 2" tubing to 3077'
11-23-57 Moved in snubbing unit, swab 300 BLM in 36 hrs. show of gas with sub 1700 PSI G-1900
12-1-57 Swabbed 160 B.L.M. in 60 hrs. flowed 1 hr. and died. G-40# 50' PSI all show gas
12-2-57 Suspended operations due to weather
6-9-58 Moved in workover unit
6-11-58 Dowell Inc. sand water frac perf's 3041-52, 3055-3066 with 66,000 gals water & 33,000# sand - 1050' treat 1600# flush 1755# injection rate 60 BPM - 24 min. for 5 min. SIP 200# - 30 minute STP 50# - 3 1/2 hrs. opened 0' SI w/c. Completed 6-11-58
6-12-58 Swab water 150 BLM in 16 hrs. - no gas - 1060' PSI 2" tubing set to 3065' seating nipple - 3034' - 1704 BLM to reg. released workover unit 6-12-58
6-23-58 After 7 days shut-in period 117# - 290#, G-783#. Flow 3 hrs. on 3/4" ch. gas with water vapor - no plugs - 117# - 290# Potential flowed 154,100 24 hrs. Calculated absolute open flow 1769 MCF. Potential test completed 6-23-58.

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
WASHINGTON, D. C. 20250

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.

HISTORY OF OIL OR GAS WELL

FROM			
TO			
TOTAL FEET			
FORMATION			
PLUGS AND BRIDGES			
SHOOTING RECORD			

FORMATION RECORD—Continued

17-15-11 1st 2nd, 3rd, 4th, 5th, 6th, 7th, 8th, 9th, 10th, 11th, 12th, 13th, 14th, 15th, 16th, 17th, 18th, 19th, 20th, 21st, 22nd, 23rd, 24th, 25th, 26th, 27th, 28th, 29th, 30th, 31st, 32nd, 33rd, 34th, 35th, 36th, 37th, 38th, 39th, 40th, 41st, 42nd, 43rd, 44th, 45th, 46th, 47th, 48th, 49th, 50th, 51st, 52nd, 53rd, 54th, 55th, 56th, 57th, 58th, 59th, 60th, 61st, 62nd, 63rd, 64th, 65th, 66th, 67th, 68th, 69th, 70th, 71st, 72nd, 73rd, 74th, 75th, 76th, 77th, 78th, 79th, 80th, 81st, 82nd, 83rd, 84th, 85th, 86th, 87th, 88th, 89th, 90th, 91st, 92nd, 93rd, 94th, 95th, 96th, 97th, 98th, 99th, 100th, 101st, 102nd, 103rd, 104th, 105th, 106th, 107th, 108th, 109th, 110th, 111th, 112th, 113th, 114th, 115th, 116th, 117th, 118th, 119th, 120th, 121st, 122nd, 123rd, 124th, 125th, 126th, 127th, 128th, 129th, 130th, 131st, 132nd, 133rd, 134th, 135th, 136th, 137th, 138th, 139th, 140th, 141st, 142nd, 143rd, 144th, 145th, 146th, 147th, 148th, 149th, 150th, 151st, 152nd, 153rd, 154th, 155th, 156th, 157th, 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