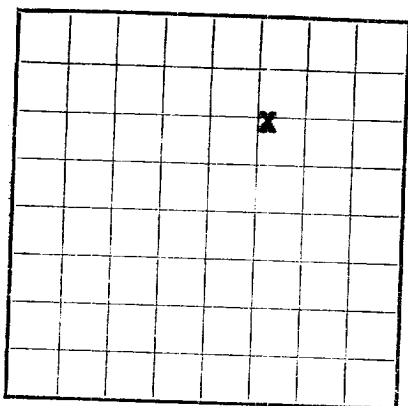


U. S. LAND OFFICE **Santa Fe**SERIAL NUMBER **076477**

LEASE OR PERMIT TO PROSPECT



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company **Western Natural Gas Company** Address **823 Midland Tower, Midland, Texas**
Lessor or Tract **Nordhaus - Federal** Field **Undesignated** State **New Mexico**
Well No. **3** Sec. **17** T. **29N** R. **7W** Meridian **NMPM** County **Rio Arriba**
Location **1700** ft. **N** of **N** Line and **1650** ft. **E** of **E** Line of **Sec. 17** Elevation **6398.63**
(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

Date **February 14, 1957**Title **Office Manager**

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

Commenced drilling **11-30-56**, 19____ Finished drilling **12-8-56**, 19____

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

No. 1, from **2144** to **2156** No. 4, from _____ to _____
No. 2, from **2192** to **2218** 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
8 5/8	24	8		198				
5 1/2	145	8		2352	Baker		2144 to 2218	production

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8 5/8	131	80	Pump & Plug	8.8	
5 1/2	2260	150	Pump & Plug	9.8	

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 **2260** feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

* See below

DATES

March 28, 19**57** Put to producing _____, 19____

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

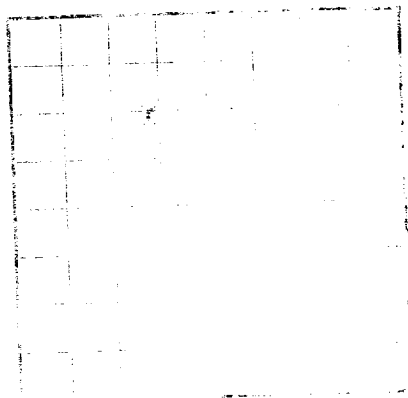
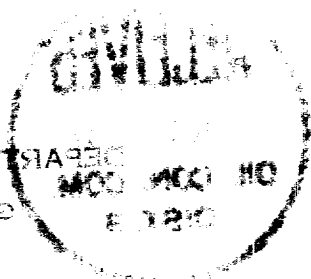
FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	1610	1610	Sand with shale breaks
1610	2000	390	Shale with sand stringers
2000	2139	139	Sand, Shale, & Coal, broken
2139	2260	121	Sand with thin shale breaks (Picture Cliff)

Top Pictured Cliffs: 2139

* No potential obtained due to production of undesirable water. Presently jetting water to atmosphere 30 min/24 hours in order to obtain potential if water production can be exhausted. Will report potential test as soon as possible.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



100-443889-100

1. The first part of the document is a letter from the President of the United States to the Congress, dated January 1, 1862. It is a very long letter, and it contains a great deal of information about the state of the country at that time. It is a very important document, and it is one of the most interesting documents in the collection.

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Case No.	Case Name	Case Type	Case Status	Case Date	Case Location	Case Description	Case Action	Case Result	Case Comment
10001	John Doe	Case 1	Open	2023-01-01	New York	Case 1 Description	Case 1 Action	Case 1 Result	Case 1 Comment
10002	Jane Smith	Case 2	Open	2023-01-02	California	Case 2 Description	Case 2 Action	Case 2 Result	Case 2 Comment
10003	Bob Johnson	Case 3	Open	2023-01-03	Texas	Case 3 Description	Case 3 Action	Case 3 Result	Case 3 Comment
10004	Alice Brown	Case 4	Open	2023-01-04	Florida	Case 4 Description	Case 4 Action	Case 4 Result	Case 4 Comment
10005	Charlie Davis	Case 5	Open	2023-01-05	Illinois	Case 5 Description	Case 5 Action	Case 5 Result	Case 5 Comment
10006	Diana White	Case 6	Open	2023-01-06	Ohio	Case 6 Description	Case 6 Action	Case 6 Result	Case 6 Comment
10007	Frank Green	Case 7	Open	2023-01-07	Georgia	Case 7 Description	Case 7 Action	Case 7 Result	Case 7 Comment
10008	Grace Black	Case 8	Open	2023-01-08	Arizona	Case 8 Description	Case 8 Action	Case 8 Result	Case 8 Comment
10009	Henry Gold	Case 9	Open	2023-01-09	Colorado	Case 9 Description	Case 9 Action	Case 9 Result	Case 9 Comment
10010	Ivy Silver	Case 10	Open	2023-01-10	Connecticut	Case 10 Description	Case 10 Action	Case 10 Result	Case 10 Comment
10011	Jack Bronze	Case 11	Open	2023-01-11	Delaware	Case 11 Description	Case 11 Action	Case 11 Result	Case 11 Comment
10012	Karen Copper	Case 12	Open	2023-01-12	District of Columbia	Case 12 Description	Case 12 Action	Case 12 Result	Case 12 Comment
10013	Leo Nickel	Case 13	Open	2023-01-13	Hawaii	Case 13 Description	Case 13 Action	Case 13 Result	Case 13 Comment
10014	Mia Platinum	Case 14	Open	2023-01-14	Idaho	Case 14 Description	Case 14 Action	Case 14 Result	Case 14 Comment
10015	Noah Silver	Case 15	Open	2023-01-15	Indiana	Case 15 Description	Case 15 Action	Case 15 Result	Case 15 Comment
10016	Olivia Gold	Case 16	Open	2023-01-16	Iowa	Case 16 Description	Case 16 Action	Case 16 Result	Case 16 Comment
10017	Peter Bronze	Case 17	Open	2023-01-17	Kansas	Case 17 Description	Case 17 Action	Case 17 Result	Case 17 Comment
10018	Quinn Copper	Case 18	Open	2023-01-18	Kentucky	Case 18 Description	Case 18 Action	Case 18 Result	Case 18 Comment
10019	Rachel Nickel	Case 19	Open	2023-01-19	Louisiana	Case 19 Description	Case 19 Action	Case 19 Result	Case 19 Comment
10020	Sam Silver	Case 20	Open	2023-01-20	Maine	Case 20 Description	Case 20 Action	Case 20 Result	Case 20 Comment
10021	Tina Gold	Case 21	Open	2023-01-21	Maryland	Case 21 Description	Case 21 Action	Case 21 Result	Case 21 Comment
10022	Uma Bronze	Case 22	Open	2023-01-22	Massachusetts	Case 22 Description	Case 22 Action	Case 22 Result	Case 22 Comment
10023	Victor Copper	Case 23	Open	2023-01-23	Michigan	Case 23 Description	Case 23 Action	Case 23 Result	Case 23 Comment
10024	Wendy Nickel	Case 24	Open	2023-01-24	Minnesota	Case 24 Description	Case 24 Action	Case 24 Result	Case 24 Comment
10025	Xavier Silver	Case 25	Open	2023-01-25	Mississippi	Case 25 Description	Case 25 Action	Case 25 Result	Case 25 Comment
10026	Yara Gold	Case 26	Open	2023-01-26	Missouri	Case 26 Description	Case 26 Action	Case 26 Result	Case 26 Comment
10027	Zoe Bronze	Case 27	Open	2023-01-27	Montana	Case 27 Description	Case 27 Action	Case 27 Result	Case 27 Comment
10028	Adam Copper	Case 28	Open	2023-01-28	Nebraska	Case 28 Description	Case 28 Action	Case 28 Result	Case 28 Comment
10029	Bella Nickel	Case 29	Open	2023-01-29	Nevada	Case 29 Description	Case 29 Action	Case 29 Result	Case 29 Comment
10030	Carl Silver	Case 30	Open	2023-01-30	New Hampshire	Case 30 Description	Case 30 Action	Case 30 Result	Case 30 Comment
10031	Dora Gold	Case 31	Open	2023-01-31	New Jersey	Case 31 Description	Case 31 Action	Case 31 Result	Case 31 Comment
10032	Ethan Bronze	Case 32	Open	2023-02-01	New Mexico	Case 32 Description	Case 32 Action	Case 32 Result	Case 32 Comment
10033	Fiona Copper	Case 33	Open	2023-02-02	New York	Case 33 Description	Case 33 Action	Case 33 Result	Case 33 Comment
10034	Gavin Nickel	Case 34	Open	2023-02-03	North Carolina	Case 34 Description	Case 34 Action	Case 34 Result	Case 34 Comment
10035	Helen Silver	Case 35	Open	2023-02-04	North Dakota	Case 35 Description	Case 35 Action	Case 35 Result	Case 35 Comment
10036	Ian Gold	Case 36	Open	2023-02-05	Ohio	Case 36 Description	Case 36 Action	Case 36 Result	Case 36 Comment
10037	Jane Bronze	Case 37	Open	2023-02-06					

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. The 5 1/2 casing was perforated with four jet shots per foot at 2144-2156 & 2163-2218 feet. Good formation with 47,100 gallons water and 63,800 lbs. of sand. Breaks down with 250 gals. of sand at 1500 feet tested at 1200 feet with 20,000 gallons. Introduced 110 balls, formation broke off resistance to 2900 feet. Continued treatment and after releasing balls with 21,100 gallons at 1650 feet. Over all infection rate was 36.2 barrels per min. 4 1/2 lbs. sand per gallon of water. Well gauged 1150 MCF after 54 hours opened. Run 104 lbs. of 1" bit. 12mm pipe for siphon line set at 2198.53 feet. Well down 100 ft. WATER 2-7-1913

HISTORY OF OIL OR GAS WELL

16-43084-2 U. S. GOVERNMENT PRINTING OFFICE

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