

RECEIVED
DEC 29 1958
U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICOU. S. LAND OFFICE Las Cruces
SERIAL NUMBER 0 31844
LEASE OR PERMIT TO PROSPECTUNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYOLD WELL DRILLED DEEPER**LOG OF OIL OR GAS WELL**

LOCATE WELL CORRECTLY

Company FRAN OIL COMPANY Address 106-A Texas St., El Paso, Texas
Lessor or Tract Mar Friess Field Grayburg-Jackson State New Mexico
Well No. 4 Sec. 19 T. 17S. R. 31E Meridian N.M.P.M. County New Eddy
Location 1980 ft. N. of South Line and 660 ft. W. of East Line of section 19 Elevation 3609' G.L.
(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 December 22, 1958Title Partner

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

Commenced drilling deepening November 6, 19 53 Finished drilling December 3, 19 58**OIL OR GAS SANDS OR ZONES**
(Denote gas by G)No. 1, from 3020' to 3030' No. 4, from _____ to _____
No. 2, from 3095' to 3105' No. 5, from _____ to _____
No. 3, from 3128' to 3152' No. 6, from _____ to _____**IMPORTANT WATER SANDS**No. 1, from None 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--	
<u>5 1/2"</u>	<u>11 1/2"</u>	<u>8 thd.</u>	<u>C.F. 41</u>	<u>3178'</u>	<u>Float shoe</u>		<u>3020'</u>	<u>3030'</u>	<u>to fracture</u>
HISTORY OF OIL OR GAS WELL									

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>5 1/2"</u>	<u>3178'</u>	<u>85 sacks</u>	<u>Ballburton</u>		<u>none</u>

PLUGS AND ADAPTERSHeaving plug—Material _____ Length _____ Depth set _____
Adapters—Material _____ Size _____**SHOOTING RECORD**

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USEDRotary tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet
Cable tools were used from 2050' feet to 3181' feet, and from _____ feet to _____ feet**DATES**_____, 19 53 Put to producing _____, 19 58
December 13,The production for the first 24 hours was 600 barrels of fluid of which 100 % was oil; _____ %
emulsion; _____ % water; and _____ % sediment. Gravity, °Bé. 36.5 estimated

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 John Eskue
_____, Driller B. E. Northcutt
_____, Driller O. L. Anderson**FORMATION RECORD**

FROM—	TO—	TOTAL FEET	FORMATION
<u>2050</u>	<u>2060</u>	<u>10</u>	<u>Lime</u>
<u>2060</u>	<u>2070</u>	<u>10</u>	<u>Lime & anhydrite</u>
<u>2070</u>	<u>2115</u>	<u>45</u>	<u>Anhydrite & red rock</u>
<u>2115</u>	<u>2193</u>	<u>78</u>	<u>"</u>
<u>2193</u>	<u>2275</u>	<u>82</u>	<u>" & shale</u>
<u>2275</u>	<u>2331</u>	<u>56</u>	<u>"</u>
<u>2331</u>	<u>2340</u>	<u>9</u>	<u>Lime</u>
<u>2340</u>	<u>2351</u>	<u>11</u>	<u>Anhydrite & shale</u>
<u>2351</u>	<u>2425</u>	<u>74</u>	<u>"</u>
<u>2425</u>	<u>2435</u>	<u>10</u>	<u>" & lime</u>
<u>2435</u>	<u>2445</u>	<u>10</u>	<u>Lime - sandy</u>
<u>2445</u>	<u>2594</u>	<u>149</u>	<u>Anhydrite</u>
<u>2594</u>	<u>2611</u>	<u>17</u>	<u>" & red rock</u>
<u>2611</u>	<u>2641</u>	<u>30</u>	<u>" & brown lime</u>
<u>2641</u>	<u>2655</u>	<u>14</u>	<u>Lime</u>
<u>2655</u>	<u>2667</u>	<u>12</u>	<u>Anhydrite & shale</u>
<u>2667</u>	<u>2676</u>	<u>9</u>	<u>" & lime</u>
<u>2676</u>	<u>2682</u>	<u>13</u>	<u>Lime - gray - sandy</u>
<u>2682</u>	<u>2703</u>	<u>14</u>	<u>" " " & anhydrite</u>
<u>2703</u>	<u>2714</u>	<u>11</u>	<u>" " "</u>
<u>2714</u>	<u>2747</u>	<u>33</u>	<u>Lime - gray</u>
<u>2747</u>	<u>2762</u>	<u>15</u>	<u>Lime - gray - brown</u>
<u>2762</u>	<u>2945</u>	<u>183</u>	<u>Lime - gray</u>
<u>2945</u>	<u>2952</u>	<u>7</u>	<u>" " & white</u>
<u>2952</u>	<u>2999</u>	<u>47</u>	<u>" " "</u>
<u>2999</u>	<u>3014</u>	<u>15</u>	<u>" - gray & brown</u>

[OVER]

ARTIST: NEW MEXICO

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Y. ITOH ET AL.

[illegible]

and the following information is being furnished to you:

SECTION NO 20722 243 243 NO 100
(1000000000)

20142 REED V. CHAFFIN-III

1. $\text{CH}_3\text{COOH} + \text{H}_2\text{O} \rightleftharpoons \text{CH}_3\text{COO}^- + \text{H}^+$ $K_a = 1.8 \times 10^{-5}$	2. $\text{H}_2\text{PO}_4^- + \text{H}_2\text{O} \rightleftharpoons \text{HPO}_4^{2-} + \text{H}^+$ $K_a = 6.2 \times 10^{-8}$
3. $\text{H}_2\text{PO}_4^- + \text{H}_2\text{O} \rightleftharpoons \text{H}_3\text{PO}_4 + \text{OH}^-$ $K_b = 1.6 \times 10^{-7}$	4. $\text{HPO}_4^{2-} + \text{H}_2\text{O} \rightleftharpoons \text{PO}_4^{3-} + \text{H}^+$ $K_a = 4.8 \times 10^{-13}$

1. 2007年12月29日

[illegible]

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of re-drilling, together with the reasons for the work and its results. If there were any changes made in the casing, specify, 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

16-53094-2 U. S. GOVERNMENT PRINTING OFFICE

FROM-		TO-		TOTAL FEET		FORMATION	
3085	3085	3085	3085	11	11	Line - brown - oil show - 2 gals. p. hour	
3085	3085	3085	3085	17	17	Line - white - sandy	
3085	3085	3085	3085	6	6	Line - brown	
3085	3085	3085	3085	13	13	Line - gray & white	
3085	3085	3085	3085	19	19	Line - "	
3085	3085	3085	3085	8	8	Line - white & pink - oil - 20 gals. in 10	
3085	3085	3085	3085	16	16	Line - white - 18008 of oil	
3085	3085	3085	3085	26	26	Line - white - good oil stain - 18008 of oil	
3085	3085	3085	3085	31	31	Line - white	
3085	3085	3085	3085	3185	3185	Line - white	
		3185 I.D.					
				TOTAL FEET		FORMATION	
				11		Line - brown - oil show - 2 gals. p. hour	
				17		Line - white - sandy	
				6		Line - brown	
				13		Line - gray & white	
				19		Line - "	
				8		Line - white & pink - oil - 20 gals. in 10	
				16		Line - white - 18008 of oil	
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FORMATION RECORD—Continued