

U. S. LAND OFFICE **Las Cruces**
SERIAL NUMBER **089339 A**
LEASE OR PERMIT TO PROSPECT **J. M. Jackson "A"**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company **Mash, Windfohr & Brown** Address **1107 Continental Life Building
Fort Worth, Texas**
Lessor or Tract **J. M. Jackson "A"** Field **Grayburg Jackson** State **New Mexico**
Well No. **15 A** Sec. **12** T. **17S** R. **30E** Meridian **NBM** County **Elddy**
Location **1760** ft. **N** of **S** Line and **1980** ft. **W** of **R** Line of **Sec. 12** Elevation **3225**
(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 **A. R. DeGrazier**Date **10/18/57**Title **A. R. DeGrazier, Bookkeeper**

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

Commenced drilling **July 29**, 19**57** Finished drilling **September 27**, 19**57**

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from **1995** to **Show** No. 4, from **3212** to **3225** **Lovington**
No. 2, from **2360** to **2372** **Show** No. 5, from **3408** to **3450** **Upper Jackson**
No. 3, from **3468** to **3486** **Lower Jackson**
IMPORTANT WATER SANDS
No. 1, from **350** to **Show** No. 3, from **2380** to **2390**
No. 2, from **1995** to **2010** No. 4, from **3408** to **3450**

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"	24 1/2	8	Pittsburg	557'	Texas Pat		3212	3225	Lovington Pay
7"	20 1/2	8	Pittsburg	3397'	Texas Pat		3408	3450	Upper Jackson
							3468	3486	Lower Jackson

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Amount of mud used
8 5/8"	557'	50	Pump	
7"	3397'	125	Pump	

PLUGS AND ADAPTERS

Heaving plug—Material	3108	Length	100 ft	Depth set	100 ft
Adapters—Material	3108	Size	1/2 in		

SHOOTING RECORD

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

TOOLS USED

Rotary tools were used from **0** feet to **3212** feet, and from **3212** feet to **3225** feet.
Cable tools were used from **0** feet to **3212** feet, and from **3212** feet to **3225** feet.

DATES

Put to producing **10-18**, 19**57**

The production for the first 24 hours was **40** barrels of fluid of which **35** % was oil; **5** %
emulsion; **0** % water; and **0** % sediment. Gravity, **Be. 35**

If gas well, cu. ft. per 24 hours **0** Gallons gasoline per 1,000 cu. ft. of gasRock pressure, lbs. per sq. in. **0**

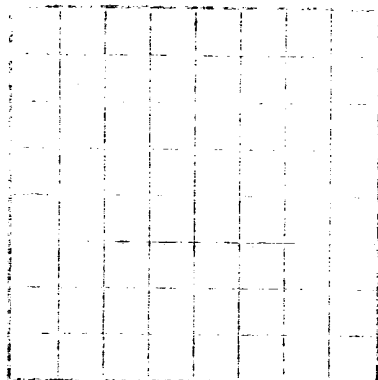
EMPLOYEES

Driller
Driller

FORMATION RECORD

FROM	TO	TOTAL FEET	FORMATION
0	65	65	Surface
65	125	60	Red Rock
125	205	80	Red Sand
205	270	65	Sand & Shale
270	320	50	Red Sand
320	455	135	Anhydrite - show water @ 350'
455	540	85	Anhydrite & red shale
540	543	3	Shale
543	557	14	Shale
557	765	208	Shale
765	780	15	Anhydrite
780	900	120	Shale
900	965	65	Salt & Anhydrite
965	1245	280	Salt
1245	1270	25	Anhydrite & Salt
1270	1315	45	Anhydrite
1315	1370	55	Anhydrite & red shale
1370	1455	85	Anhydrite
1455	1750	295	Anhydrite & Shale-gas odor at 1555-70
1750	1790	40	Shale
1790	1835	45	Anhydrite & sand
1835	1917	82	Anhydrite - odor gas 1815-35 w/little water
1917	1920	3	Red sand. Good show gas
1920	2010	90	Anhydrite - Show oil @ 1995', tested 5 gal. oil & 30 gas water in 1 1/4 hours

(OVER)



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Well completed this 10th day of

Address for logs

State

County

Section

Range

Township

Location of well

Direction of dip

Depth of well

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

LOCATE WELL CORRECTLY

Company

Location of well

Well No.

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

Direction of dip

FROM-	TO-	TOTAL FEET	FORMATION
2010	2020	10	Argillite
2020	2032	12	Argillite
2032	2052	20	Argillite
2052	2098	46	Argillite
2098	2107	9	Shale & argillite
2107	2121	14	Argillite
2121	2139	18	Argillite
2139	2149	10	Line - show gas 2127
2149	2165	16	Argillite
2165	2176	11	Line
2176	2188	12	Argillite & red shale
2188	2191	3	Argillite
2191	2205	14	Shale & line
2205	2230	25	Argillite
2230	2260	30	Shale & line
2260	2280	20	Argillite
2280	2300	20	Argillite
2300	2380	80	Argillite
2380	2390	10	Red sand
2390	2401	11	Line
2401	2413	12	Line & argillite
2413	2431	18	Argillite
2431	2437	6	Line
2437	2448	11	Line & argillite
2448	2459	11	Argillite
2459	2471	12	Line
2471	2486	15	Argillite
2486	2498	12	Line
2498	2507	9	Argillite
2507	2522	15	Argillite
2522	2539	17	Argillite
2539	2552	13	Argillite
2552	2564	12	Argillite & red rock
2564	2571	7	Argillite
2571	2581	10	Argillite & red sand
2581	2595	14	Argillite
2595	2617	22	Red sand
2617	2627	10	Argillite & sand
2627	2645	18	Argillite & shale
2645	2675	30	Argillite
2675	2715	40	Argillite
2715	2717	2	Line - Top of line 2715
2717	2775	58	Argillite
2775	2800	23	Line
2800	2807	7	Argillite
2807	2866	59	Line
2866	2876	10	Argillite
2876	2896	20	Line
2896	2930	34	Argillite
2930	2940	10	Line - 2 hour test 61 gallons water & 7 3/4 gallons oil
2940	3026	86	Line - 2 hour test 49 gallons water & 13 gallon oil. Slight increase in oil probably at 3015-21
3026	3048	22	Line
3048	3062	14	Sandy line
3062	3065	3	Sand
3065	3073	8	Shooting sand
3073	3080	7	Sand
3080	3103	23	Line
3103	3109	6	Line
3109	3125	16	Line
3125	3130	5	Sort dolomite - with porosity.
3130	3138	8	Sort dolomite
3138	3142	4	Gray line
3142	3150	8	White line
3150	3156	6	Line - tested 2 hours 15 minutes 47 gallon oil and 60 gallon water. Oil has increased in time 11 1/2 gallons per hour.

NASH, WINDFOHR & BROWN
OIL PRODUCERS
1107 CONTINENTAL LIFE BUILDING
FORT WORTH, TEXAS

Jackson 15 A

Drilled plug; tested dry and drilled to total depth of 3510. Set Lynes Packer at 3462-66; perforated 3408-3450 Upper Jackson and treated with 2,000 gallons 15% acid. Upper Jackson zone took 4.3 bbls. per minute at 2600#. Perforated 3468-3486 Lower Jackson and treated with 2,000 gallons acid. Lower zone took 3.4 bbls. acid per minute at 2600-2300# pressure. Lower zone pressure 1100# after 30 minutes. Upper zone zero pounds after one minute. Swabbed through Lynes Packer at rate of 62 gallons per hour 40% acid water. Preparing to frac.

Fraced Upper and Lower Jackson Zones (3408-3450 & 3468-3486) jointly with 7,800# 20/40 sand and 10,000 gallons oil. Average input volume 23 bbls. per minute. Treating range 2200-1900#. Swabbed 5 bbls. oil and 10 bbls. of water. No increase in oil & no water.

Set Lane Wells plug at 3245; perforated 3212-25 (Lovington) with 52 holes, 4 per foot. Recovered 4 gallons frac oil and slight amount of gas. Preparing to frac.

Fraced Lovington zone 3212-3225 with 15,000# sand and 473 bbls. of lease oil. Treating range 2200# to 3600#. Average input volume 17 bbls. per minute. Breakdown pressure 3000#. After recovering load oil, well flowed 61 bbls. in 24 hours.

SECRET