

Exhibit 2(4)

Budget Bureau No. 42-R355.4.
Approval expires 12-31-60.

Form 9-380

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 028793-A
LEASE OR PERMIT TO PROSPECT Burch A

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Grayburg Oil Company of New Mex. Address Box 416, Loco Hills, New Mexico
Lessor or Tract Burch A Field Grayburg-Jackson State New Mexico
Well No. 24-A Sec. 19 T. 17S R. 30E Meridian NMPN County Eddy
Location 2310 ft. N of N Line and 2615 ft. W of E Line of S. 19 Elevation 3628'
(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 R. J. Heard
Title Vice President

Date June 22, 1949

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

Commenced drilling Jan. 23, 19 49 Finished drilling June 12, 19 49

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

No. 1, from 2984 to 3010 No. 4, from _____ to _____
No. 2, from 3060 to 3085 No. 5, from _____ to _____
No. 3, from 3130 to 3180 No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from 295 to 305 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>8-5/8"</u>	<u>24.4</u>	<u>8V</u>		<u>482</u>	<u>Ten-Patrn</u>				<u>Salt String</u>
<u>7"</u>	<u>25.14</u>			<u>100</u>					<u>Red String</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>8-5/8"</u>	<u>482</u>	<u>75</u>	<u>Halliburton</u>	<u>Heavy</u>	<u>to surface</u>
<u>7"</u>	<u>2514</u>	<u>100</u>			

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____
Adapters—Material _____ Size _____

ACIDIZING RECORD

Size	Shell used	Chemical used	Quantity	Date	Depth set	Depth cleaned out
		<u>20% HCl</u>	<u>850</u>	<u>3-9-49</u>	<u>2560-2600</u>	
			<u>1000</u>	<u>3-12-49</u>	<u>2622-2637</u>	
			<u>1000</u>	<u>3-19-49</u>	<u>3047-3100</u>	
			<u>1000</u>	<u>3-20-49</u>	<u>3047-3100</u>	
			<u>850</u>	<u>6-14-49</u>	<u>3104-3183</u>	

Rotary tools were used from _____ feet to _____ feet
Cable tools were used from 0 feet to 3183 feet, and from _____ feet to _____ feet

DATES

June 22, 1949, 19 _____ Put to producing June 17, 19 49
The production for the first 24 hours was 26 barrels of fluid of which 100% 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

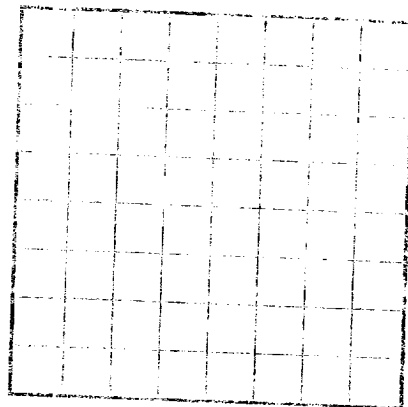
Oscar Burch, Driller C. A. Pyatt, Driller
Roll Johnson, Driller L. W. Ledbetter, Driller

FORMATION RECORD

FORMATION		TOTAL FEET	FORMATION	
FROM—	TO—		DESCRIPTION	FORMATION
5000	5150	150	Surface Sand and Caliche	5150
5150	5190	40	Sand and Red Mud	5190
5190	5200	10	Red Mud	5200
5200	5240	40	Red Shale	5240
5240	5275	35	Red Shale	5275
5275	5310	35	Red Shale	5310
5310	5350	40	Red Shale	5350
5350	5385	35	Red Shale	5385
5385	5420	35	Red Shale	5420
5420	5455	35	Red Shale	5455
5455	5490	35	Red Shale	5490
5490	5525	35	Red Shale	5525
5525	5560	35	Red Shale	5560
5560	5595	35	Red Shale	5595
5595	5630	35	Red Shale	5630
5630	5665	35	Red Shale	5665
5665	5700	35	Red Shale	5700
5700	5735	35	Red Shale	5735
5735	5770	35	Red Shale	5770
5770	5805	35	Red Shale	5805
5805	5840	35	Red Shale	5840
5840	5875	35	Red Shale	5875
5875	5910	35	Red Shale	5910
5910	5945	35	Red Shale	5945
5945	5980	35	Red Shale	5980
5980	6015	35	Red Shale	6015
6015	6050	35	Red Shale	6050
6050	6085	35	Red Shale	6085
6085	6120	35	Red Shale	6120
6120	6155	35	Red Shale	6155
6155	6190	35	Red Shale	6190
6190	6225	35	Red Shale	6225
6225	6260	35	Red Shale	6260
6260	6295	35	Red Shale	6295
6295	6330	35	Red Shale	6330
6330	6365	35	Red Shale	6365
6365	6400	35	Red Shale	6400
6400	6435	35	Red Shale	6435
6435	6470	35	Red Shale	6470
6470	6505	35	Red Shale	6505
6505	6540	35	Red Shale	6540
6540	6575	35	Red Shale	6575
6575	6610	35	Red Shale	6610
6610	6645	35	Red Shale	6645
6645	6680	35	Red Shale	6680
6680	6715	35	Red Shale	6715
6715	6750	35	Red Shale	6750
6750	6785	35	Red Shale	6785
6785	6820	35	Red Shale	6820
6820	6855	35	Red Shale	6855
6855	6890	35	Red Shale	6890
6890	6925	35	Red Shale	6925
6925	6960	35	Red Shale	6960
6960	6995	35	Red Shale	6995
6995	7030	35	Red Shale	7030
7030	7065	35	Red Shale	7065
7065	7100	35	Red Shale	7100
7100	7135	35	Red Shale	7135
7135	7170	35	Red Shale	7170
7170	7205	35	Red Shale	7205
7205	7240	35	Red Shale	7240
7240	7275	35	Red Shale	7275
7275	7310	35	Red Shale	7310
7310	7345	35	Red Shale	7345
7345	7380	35	Red Shale	7380
7380	7415	35	Red Shale	7415
7415	7450	35	Red Shale	7450
7450	7485	35	Red Shale	7485
7485	7520	35	Red Shale	7520
7520	7555	35	Red Shale	7555
7555	7590	35	Red Shale	7590
7590	7625	35	Red Shale	7625
7625	7660	35	Red Shale	7660
7660	7695	35	Red Shale	7695
7695	7730	35	Red Shale	7730
7730	7765	35	Red Shale	7765
7765	7800	35	Red Shale	7800
7800	7835	35	Red Shale	7835
7835	7870	35	Red Shale	7870
7870	7905	35	Red Shale	7905
7905	7940	35	Red Shale	7940
7940	7975	35	Red Shale	7975
7975	8010	35	Red Shale	8010
8010	8045	35	Red Shale	8045
8045	8080	35	Red Shale	8080
8080	8115	35	Red Shale	8115
8115	8150	35	Red Shale	8150
8150	8185	35	Red Shale	8185
8185	8220	35	Red Shale	8220
8220	8255	35	Red Shale	8255
8255	8290	35	Red Shale	8290
8290	8325	35	Red Shale	8325
8325	8360	35	Red Shale	8360
8360	8395	35	Red Shale	8395
8395	8430	35	Red Shale	8430
8430	8465	35	Red Shale	8465
8465	8500	35	Red Shale	8500
8500	8535	35	Red Shale	8535
8535	8570	35	Red Shale	8570
8570	8605	35	Red Shale	8605
8605	8640	35	Red Shale	8640
8640	8675	35	Red Shale	8675
8675	8710	35	Red Shale	8710
8710	8745	35	Red Shale	8745
8745	8780	35	Red Shale	8780
8780	8815	35	Red Shale	8815
8815	8850	35	Red Shale	8850
8850	8885	35	Red Shale	8885
8885	8920	35	Red Shale	8920
8920	8955	35	Red Shale	8955
8955	8990	35	Red Shale	8990
8990	9025	35	Red Shale	9025
9025	9060	35	Red Shale	9060
9060	9095	35	Red Shale	9095
9095	9130	35	Red Shale	9130
9130	9165	35	Red Shale	9165
9165	9200	35	Red Shale	9200
9200	9235	35	Red Shale	9235
9235	9270	35	Red Shale	9270
9270	9305	35	Red Shale	9305
9305	9340	35	Red Shale	9340
9340	9375	35	Red Shale	9375
9375	9410	35	Red Shale	9410
9410	9445	35	Red Shale	9445
9445	9480	35	Red Shale	9480
9480	9515	35	Red Shale	9515
9515	9550	35	Red Shale	9550
9550	9585	35	Red Shale	9585
9585	9620	35	Red Shale	9620
9620	9655	35	Red Shale	9655
9655	9690	35	Red Shale	9690
9690	9725	35	Red Shale	9725
9725	9760	35	Red Shale	9760
9760	9795	35	Red Shale	9795
9795	9830	35	Red Shale	9830
9830	9865	35	Red Shale	9865
9865	9900	35	Red Shale	9900
9900	9935	35	Red Shale	9935
9935	9970	35	Red Shale	9970
9970	10005	35	Red Shale	10005
10005	10040	35	Red Shale	10040
10040	10075	35	Red Shale	10075
10075	10110	35	Red Shale	10110
10110	10145	35	Red Shale	10145
10145	10180	35	Red Shale	10180
10180	10215	35	Red Shale	10215
10215	10250	35	Red Shale	10250
10250	10285	35	Red Shale	10285
10285	10320	35	Red Shale	10320
10320	10355	35	Red Shale	10355
10355	10390	35	Red Shale	10390
10390	10425	35	Red Shale	10425
10425	10460	35	Red Shale	10460
10460	10495	35	Red Shale	10495
10495	10530	35	Red Shale	10530
10530	10565	35	Red Shale	10565
10565	10600	35	Red Shale	10600
10600	10635	35	Red Shale	10635
10635	10670	35	Red Shale	10670
10670	10705	35	Red Shale	10705
10705	10740	35	Red Shale	10740
10740	10775	35	Red Shale	10775
10775	10810	35	Red Shale	10810
10810	10845	35	Red Shale	10845
10845	10880	35	Red Shale	10880
10880	10915	35	Red Shale	10915
10915	10950	35	Red Shale	10950
10950	10985	35	Red Shale	10985
10985	11020	35	Red Shale	11020
11020	11055	35	Red Shale	11055

LOG OF OIL OR GAS WELL

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



LOCATE WELL CORRECTLY

Company _____
Location _____
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 _____

The statement on this page is for the condition of the well at above date.
Completed drilling _____
Oil or gas sands or zones _____
No. 1 from _____
No. 2 from _____
No. 3 from _____
No. 4 from _____
No. 5 from _____
No. 6 from _____
No. 7 from _____
No. 8 from _____
No. 9 from _____
No. 10 from _____

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

MUDLOGGING AND CEMENTING RECORD

PLUGS AND ADAPTERS

SHOOTING RECORD

TOOLS USED

FORMATION

1954
1953
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