Exhibit 2(a)

Before Examiner Utz
Oil Conservation Commission
Exhibit Case No. 130

Form 9-330

MAIN OFFICE OCC
1957 JUL 24 PM 1:22

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

U. S. Land Office Las Cruces
Serial Number 028793-A
Lease or Permit to Prospect Burch A

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

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 NMPM County Eddy

Location 2310 ft. {N./S.} of N Line and 2615 ft. {E./W.} of E Line of S. c. 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

Date June 22, 1949 Title Vice President

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 From—	Perforated To—	Purpose
8-5/8"	24#	8V		482	Tex-Patrn				Salt String
7"	20#	8rd		2514	Float				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8"	482	75	Halliburton	Heavy	To surface
7"	2514	100	"	"	" "

FOLD

MARK

PLUGS AND ADAPTERS

Heaving plug—Material ____ Length ____ Depth set ____

Adapters—Material ____ Size ____

ACIDIZING / SHOOTING RECORD

Size	Shell used	Explosive used / Chemical Treated	Quantity	Date	Depth shot	Depth cleaned out
		20% HCl	850	3-9-49	2560-2688	
		" "	1000	3-12-49	2952-3037	
		" "	4000	3-13-49	2952-3037	
		" "	1000	3-19-49	3047-3106	
		" "	1000	3-20-49	3047-3106	
		" "	850	6-14-49	3104-3183	

TOOLS USED

Rotary tools were used from ____ feet to ____ feet, and 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

Rell Johnson, Driller L. W. Ledbetter, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	50	50	Surface Sand and Caliche
50	130	80	Sand and Red Mud
130	200	70	Red Mud
200	250	50	Red Shale
250	255	5	Anhy
255	275	20	Sandy Shale
275	310	35	Sand
310	350	40	Red Bed
350	355	5	Anhy
355	430	75	Red Bed
430	447	17	Anhy and Potash
447	905	458	Salt
~~895~~ 905	940	35	Anhy
~~960~~ 940	960	20	Red Sandy Shale
960	1090	130	Anhy
1090	1195	105	Anhy and Red Shale
1195	1255	60	Anhy
1255	1280	25	Gray Lime
1280	1695	415	Anhy
1695	1730	35	Anhy and Red Shale
1730	1770	40	Anhy
1770	1810	40	Anhy and Red Shale
1810	1954	144	Anhy

[OVER]

FROM—	TO—	TOTAL FEET	FORMATION
1954	1957	3	SLM
1957	1985	28	Anhy
1985	2015	30	Red Sand
2015	2135	120	Anhy
2135	2155	20	Gray Lime
2155	2179	24	Red Rock and Lime
2179	2192	13	Anhy and Lime
2192	2205	13	Anhy
2205	2234	29	Anhy and Lime
2234	2261	27	Anhy and Red Rock
2261	2290	29	Red Sandy Shale and Red Rock
2290	2320	30	Anhy and Red Shale
2320	2342	22	Brown Lime and Shale
2342	2366	24	Brown Sandy Lime and Red Rock
2366	2451	85	Gray Lime
2451	2468	17	Gray Sandy Lime
2468	2504	36	Gray Lime
2504	2510	6	White Lime
2510	2514	4	SLM
2514	2555	41	Gray Lime
2555	2559	4	SLM
2559	2666	107	Gray Lime
2666	2700	34	White Lime
2700	2728	28	Gray Lime
2728	2854	126	White Lime
2854	2849	-5	SLM
2849	2858	9	Gray Lime
2858	2867	9	White Lime
2867	2880	13	Gray Lime
2880	2970	90	White Lime
2970	3109	139	Gray Lime
3109	3106	-3	SLM
3106	3183	77	Gray Lime

16—43094-2 U. S. GOVERNMENT PRINTING OFFICE

HISTORY OF OIL OR GAS WELL

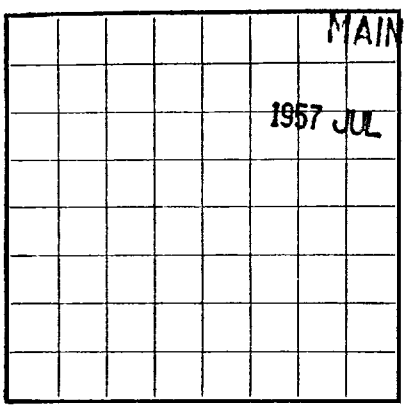
It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "sidetracked" or left in the well, give its 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.

Exhibit 2(b)

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

Form 9-330

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



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Grayburg Oil Co. of N. M. Address Artesia, New Mexico
Lessor or Tract Burch A Field Grayburg-Jackson State New Mexico
Well No. 14-A Sec. 18 T. 17 R. 30 Meridian NMPM County Eddy
Location 660 ft. {N./S.} of S Line and 1980 ft. {E./W.} of E Line of Sec. 18 Elevation 3650
(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 7, 1943 Title Vice-President

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

Commenced drilling Sept. 14, 1943 Finished drilling November 29th, 1943

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3121 to 3129 No. 4, from to
No. 2, from 3135 to 3152 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 From—	Perforated To—	Purpose
8¼" Casing				509 ft	50 Sacks Cement and Mud				
7" Casing				2900 ft	100 Sacks Cement and Mud				

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8¼"	509 ft	50 sacks	International		Mud
7"	2900 ft	100 sacks	International		Mud

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
Acidized well with 1500 gals acid from 3185 ft to 3150 ft. (No Results)						
Shot well with 200 qts of Nitro-Glycerin using 5½" Shells from 3116 ft to 3158ft.						

TOOLS USED

Rotary tools were used from feet to feet, and from feet to feet
Cable tools were used from 0- feet to 3185 feet, and from feet to feet

DATES

, 19 Put to producing November 30th, 1943

The production for the first 24 hours was 20 barrels of fluid of which 100 % was oil; % emulsion; % water; and % sediment. Gravity, °Bé. 38°

If gas well, cu. ft. per 24 hours Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in.

EMPLOYEES

J. T. Henry, Driller O. T. Mays, Driller
Leonard Kilburn, Driller , Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	5		Sand
5	15		Gyp
15	60		Sand
60	135		REd Rock and Sand
135	245		Red Rock
245	328		Anhydrite
328	370		Red Rocks
370	430		Anhydrite
430	450		Red Beds
450	460		Anhydrite
460	465		Red Rock
465	550		Salt
550	615		Salt and Potash
615	670		Salt Shells
670	740		Salt and Anhydrite
740	900		Salt and Anhydrite Shells
900	910		Salt
910	1110		Anhydrite
1110	1200		Anhydrite and Red Rock
1200	1735		Anhydrite
1735	1840		Anhydrite and Red Rock
1840	2145		Anhydrite
2145	2160		Gray Lime
2160	2190		Anhydrite
2190	2225		Anhydrite Broken

FOLD MARK

16—43094-4

FROM—	TO—	TOTAL FEET	FORMATION
2225	2250		Anhydrite and Shells
2250	2340		Anhydrite
2340	2383		Lime
2383	2400		Gray Lime
2400	2413		Lime
2413	2648		Gray Lime
2648	2662		Sandy Light Gray Lime
2662	2672		White Lime
2672	2690		Gray Lime
2690	2708		White and Pink Lime
2708	2713		Gray Lime
2713	2729		Lime
2729	2744		Light Gray Lime
2744	2759		White Lime
2759	2761		Gray Lime
2761	2770		Lime
2770	2820		Gray Lime
2820	2826		Lime
2826	2851		Dark Gray Lime and Slate
2851	2861		Lime
2861	2881		Gray Lime
2881	2972		White Lime
2972	2981		Gray Lime
2981	3000		Lime
3000	3046		Gray Lime
3046	3053		Gray Lime Sandy
3053	3185		Gray Lime
3185			TOTAL DEPTH

16—43094-2 U. S. GOVERNMENT PRINTING OFFICE

HISTORY OF OIL OR GAS WELL

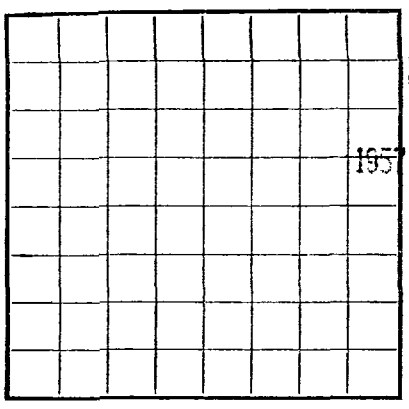
It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "sidetracked" or left in the well, give its 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.

2(c)

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

Form 9-330

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



LOCATE WELL CORRECTLY

MAIN OFFICE OCC
1957 JUL 2 PM 1:22

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Grayburg Oil Company of N. M. Address Artesia, New Mexico
Lessor or Tract Burch Field Grayburg State New Mexico
Well No. 9 Sec. 19 T. 17 R. 30 Meridian N.M.P.M. County Eddy
Location 990 ft. [N.] of N Line and 990 ft. [E.] of W Line of Sec. 19 Elevation
(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 Dec. 18, 1937 Title Secretary

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

Commenced drilling Sept. 21, 1937 Finished drilling Dec. 6, 1937

OIL OR GAS SANDS OR ZONES

(*Denote gas by G*)

No. 1, from 1475 to 1480 G. S.
No. 2, from 1540 to 1546 G. S. / 2510 to 2515 O. S.
No. 3, from 2660 to 2665 O. S.
No. 4, from 3001 to 3010 O. S.
No. 5, from 3034 to 3040 O. S.
No. 6, from 3109 to 3105 OL S.

IMPORTANT WATER SANDS

No. 1, from to
No. 2, from to
No. 3, 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 From—	Perforated To—	Purpose
10"				325'		325'			
8¼"	30#	8	Nat'l.	430'	Regular				
7"OD	24#	8	Youngston	2784'	Float				

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8¼"	430'	50	Halliburton	Heavy	Top to Bottom
7"OD	2784'	100	Halliburton	Heavy	Top to Bottom

FOLD | MARK

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
		Acid	1000	11-29	3000-30	3030
		"	2000	12-8	3000-3157	3157

TOOLS USED

Rotary tools were used from feet to feet, and from feet to feet
Cable tools were used from 0 feet to 3157 feet, and from feet to feet

DATES

, 19 Put to producing Dec. 10, 1937

The production for the first 24 hours was 25 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

Harold Hancox, Driller , Driller
L. E. Neely, Driller C. C. Connor, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	30	30	Sand & Gyp
30	50	20	Gyp & Red Shale
50	260	210	Red Sandy Shale
260	265	5	Red Sand Set 10" pipe @ 325'
265	325	60	Red Bed
325	350	25	Red Bed
350	360	10	Gyp
360	375	15	Red Bed
375	425	50	Red Bed and gyp
425	842	417	Salt Set 8" pipe, pulled 10", 430'.
842	862	10	Anhydrite
862	867	5	Red Shale
867	898	31	Anhydrite
898	938	40	Anhydrite, Brown Shale, & Salt
938	1018	80	Anhydrite
1018	1058	40	Anhydrite, Blue & Brown Shale
1058	1098	40	Brown Shale & Anhydrite
1098	1648	547	Anhydrite - Gas show 1475, and 1540-45
1645	1670	25	Anhydrite & Shale
1670	1800	130	Anhydrite & Brown Shale
1800	1935	135	Anhydrite
1935	1965	30	Anhydrite and Red Sand
1965	2005	40	Anhydrite
2005	2025	20	Anhydrite and Red Shale
2025	2325	300	Anhydrite

[OVER]

FROM—	TO—	TOTAL FEET	FORMATION
2325	2340	15	Gray Lime
2340	2370	30	Lime
2370	2445	75	Gray Lime
2445	2460	15	Lime
2460	2490	30	Gray Lime
2490	2505	15	Gray and Brown Lime O. S. 2510-15
2505	2589	84	Gray Lime
2589	2616	27	White Lime
2616	2624	8	Light Gray Lime
2624	2632	8	White Lime
2632	2640	8	Hard White Lime
2640	2660	20	Dark Sandy Lime
2660	2670	10	Light Lime O. S. 2660 to 65
2670	2775	105	White Lime
2775	2784	9	Brown Lime
2784	2793	9	Brown Sandy Lime Set 7" pipe 2784'
2793	2801	8	Dark Gray Lime
2801	2828	27	Gray Lime
2828	2835	7	Gray Lime and Bentonite
2835	2842	7	Gray Lime
2842	2962	120	White Lime
2962	3001	39	Gray Lime
3001	3034	33	Gray Lime - OLS. 3001-3010
3034	3040	6	Brown Lime O. S. 3034-40
3040	3110	70	Gray Lime O. & G.S. 3102-05
3110	3122	12	Brown Lime
3122	3134	12	Gray Lime
3134	3140	6	Borwn Lime
3140	3157	17	Gray Lime

16—43094-2 U. S. GOVERNMENT PRINTING OFFICE

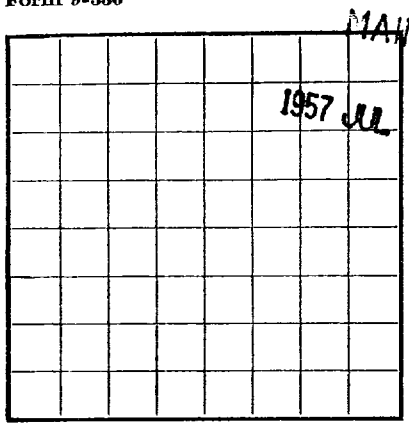
HISTORY OF OIL OR GAS WELL

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.

Exhibit 2(d)

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

Form 9-330



LOCATE WELL CORRECTLY

MAIN OFFICE OCC
1957 JUL 24 PM 1:23

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Grayburg Oil Co. Of New Mex. Address Artesia, New Mexico

Lessor or Tract Burch Field Grayburg State New Mexico

Well No. 8 Sec. 19 T. 17 R. 30 Meridian NMPM County Eddy

Location 990 ft. {N.} of N Line and 2310 ft. {E.} of W Line of Sec. 19 Elevation
(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 November 8, 1937 Title Secretary

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

Commenced drilling August 20, 19 37 Finished drilling October 30, 19 37

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 1440 1500 to 1445 1505 O.&G.S. No. 4, from 2815 to 2825 O. S.

No. 2, from 2440 2560 to 2445 2562 O.S. No. 5, from 2965 to 2970 O. S.

No. 3, from 2763 to 2767 O.S. No. 6, from 3130 to 3135 O.S. & G.S.

IMPORTANT WATER SANDS

No. 1, from 315 to 320 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 From—	Perforated To—	Purpose
8¼"	32#	8	Nat'l	445	Regular				
7"OD	20#	8	Youngston	2825	Float				

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8¼"	445	50	Halliburton	Heavy	Top to Bottom
7"OD	2825	100	Halliburton	Heavy	Top to Bottom

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
		Acid	2,000	11/2	3130-3225	3225

TOOLS USED

Rotary tools were used from feet to feet, and from feet to feet

Cable tools were used from 0 feet to 3225 feet, and from feet to feet

DATES

, 19 Put to producing Nov. 4, 19 37

The production for the first 24 hours was 20 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

H. G. Rideout, Driller , Driller

Oscar Burch, Driller S. W. McCool, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	15	15	Sand
15	85	70	Sand and Red Bed
85	110	25	Red Rock
110	135	25	Red Bed
135	205	80	Red Bed and Sand
205	305	100	Sand, Red Rock, & Gyp
305	315	10	Gyp
315	320	5	Sand & Gravel - Water
320	330	10	Red Bed
330	390	60	Red Rock & Gyp
390	440	50	Red Rock
440	445	5	Red Bed
445	900	455	Salt Set 8¼" Casing 445 feet
900	940	40	Anhydrite & Red Rock
940	945	5	Blue Shale
945	965	20	Anhydrite & Brown shale
965	970	5	Salt
970	1080	110	Anhydrite
1080	1090	10	Anhydrite & Brown shale
1090	1140	40	Anhydrite, Red Rock & Gyp
1140	1150	10	Red Rock & Anhydrite
1150	1160	10	Red Rock
1160	1170	10	Anhydrite
1170	1180	10	Anhydrite & Red Rock
1180	1210	30	Anhydrite
1210	1255	45	Anhydrite, Gyp & Red Rock

FOLD | MARK

[OVER]

FROM—	TO—	TOTAL FEET	FORMATION
1255	1279	24	Anhydrite
1279	2315	36	Anhydrite, Gyp & Red Rock
1315	1685	370	Anhydrite - Light Show Oil 1440 to 45 " Gas Show 1500-1505
1685	1695	10	Conglomeration, Sharp
1695	1720	25	Anhydrite
1720	1795	75	Red Rock & Anhydrite
1795	1825	30	Anhydrite
1825	1860	35	Anhydrite & Shale Breaks
1860	1885	25	Anhydrite & Red Rock
1885	1905	20	Anhydrite and Borwn Shale
1905	1915	10	Gray Lime
1915	1950	35	Anhydrite
1950	1955	5	conglomeration
1955	1960	5	Blue Shale & "nhydrite
1960	1985	25	Anhydrite & Red Sand
1985	1995	10	Red Sand
1995	2020	25	Anhydrite
2020	2025	5	Gray Lime
2025	2030	5	Gray Lime & Anhydrite
2030	2055	25	Anhydrite & Brown Shale
2055	2130	75	Anhydrite
2130	2140	10	Lime
2140	2155	15	Anhydrite & Shale
2155	2180	25	Anhydrite & Red Rock
2180	2205	25	Anhydrite and Borwn Shale
2205	2240	35	Gyp, Shale & Lime Shells
2240	2250	10	Red Rock & "nhydrite
2250	2255	5	Red Sand
2255	2280	25	Red Sand & Anhydrite
2280	2315	35	Gyp & Shale Breaks
2315	2325	10	Gray Lime
2325	2330	5	Red Rock & Gray Lime
2330	2350	20	Gray and Borwn Lime
2330	2408	78	Gray Lime
2408	2420	12	Hard Lime
2420	2429	9	Gray Lime
2429	2441	12	Gray & Brown Lime
2441	2490	49	Gray Lime
2490	2503	13	White & Gray Lime
2503	2605	102	Gray Lime - Oil Show 2440-45 and from 2560-2562
2605	2613	8	Borwn Lime
2613	2624	11	Gray Lime
2624	2635	11	White Lime
2635	2646	11	Gray Lime
2646	2686	40	White Lime
2686	2694	8	Gray Lime
2694	2701	7	Brown Lime
2701	2721	20	White Lime
2721	2728	7	Gray Lime
2728	2774	46	White Lime - Oil Show 2763-2767
2774	2781	7	Gray Lime
2781	2797	16	Pink Lime
2797	2806	9	White Lime
2806	2815	9	Gray Lime
2815	2825	10	Gray Sandy Lime - Oil Show 2815-25 Set 7" OD Casing 2825
2825	2834	9	White Lime
2834	2859	25	Gray Lime
2859	2863	4	Gray Lime & Bentonite
2863	2881	18	Gray Lime
2881	2898	17	Gray Lime & Bentonite

16—43094-2 U. S. GOVERNMENT PRINTING OFFICE

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.

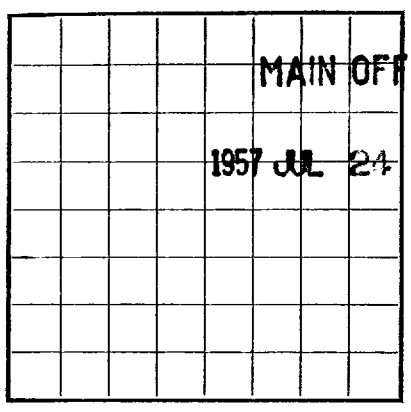
2898	2903	5	Gray Lime
2903	2960	57	White Lime
2960	3166	206	Gray Lime Oil Show 2965-2970, 3070, 3130-3135
3166	3173	7	Borwn Lime
3173	3198	5	Gray Lime
3198	3225	27	BrownLime T.D.

2(e)

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

Form 9-330

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



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Grayburg Oil Co. of New Mexico Address Box 416, Loco Hills, New Mexico
Lessor or Tract Burch "A" Field Gray.-Jack. State New Mexico
Well No. 23 Sec. 19 T. 17S R30E Meridian N.M.P.M. County Eddy
Location 2565 ft. {N./S.} of N. Line and 955 ft. {E./W.} of W. Line of Sec. 19 Elevation 3627
(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
Date June 10, 149 Title Vice-President

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

Commenced drilling March 31, 19 49 Finished drilling June 4, 19 49

OIL OR GAS SANDS OR ZONES

(*Denote gas by G*)

Oil & GAs Pays

No. 1, from 2978' to 2995' No. 4, from ____ to ____
No. 2, from 3060' to 3074' No. 5, from ____ to ____
No. 3, from 3115' to 3144' No. 6, from ____ to ____

IMPORTANT WATER SANDS

No. 1, from 293' to 303' No. 3, from ____ to ____
No. 2, from 359' to 364' No. 4, from ____ to ____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
8-5/8"	24#	8V	New	451	Guide				Salt String
7"	20#	10V2	"	2492	Float				Oil String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8"	455	75	Halliburton	Heavy	To Surface
7"	2497	100	"	"	" "

FOLD | MARK

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
See below for Acidizing Record.						

TOOLS USED

Rotary tools were used from ____ feet to ____ feet, and from ____ feet to ____ feet
Cable tools were used from 0 feet to 3150 feet, and from ____ feet to ____ feet

DATES

June 10, 19 49 Put to producing June 8, 19 49

The production for the first 24 hours was 42 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 Albert Williams, Driller
R. 11 Johnson, Driller H. L. Bryant, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
ACIDIZING RECORD			
DATE	NO. GALS.	INTERVAL TREATED	
5/15&16/49	500	2497' - 3014' (Wash)	
5/17/49	1000	2509' - 63' (1 Stage)	
5/19&20/49	2630	2814' - 3014' (2 Stages)	
5/27&28/49	5000	3023' - 88' (Wash & 2 stages)	
6/1&2/49	1000	2497' - 3140' (Wash while fishing)	
6/6/49	1000	3105' - 49' (1 Stage)	

(OVER FOR LOG)

16—43094-4

FROM—	TO—	TOTAL FEET	FORMATION
0	15	15	Glaiche
15	215	200	Red Beds & Red Sand
215	300	85	Gyp. Water 290'-300'
300	355	55	Red Bed
355	370	15	Gyp Water 355'-60'
370	405	35	Red Bed
405	420	15	Pogash & Gyp.
420	430	10	Red Shale
430	450	20	Salt
450	455	5	SLM
455	875	420	Salt
875	1065	190	Anhydrite
1065	1210	145	Anhydrite and Red Shale
1210	1595	385	Anhydrite SG 1481'-91' Inc G 1555'-67'
1595	1610	15	Gray Lime
1610	1888	278	Anhydrite
1888	1906	18	SLM
1906	1970	64	Anhydrite
1970	1995	25	Red Sand
1995	2012	17	Anhydrite
2012	2020	8	Gray Lime
2020	2034	14	Anhydrite
2034	2045	11	Gray Lime
2045	2063	18	Anhydrite
2063	2070	7	Gray Lime
2070	2110	40	Anhydrite
2110	2135	25	Gray lime
2135	2155	20	Anhydrite
2155	2215	60	Anhydrite & Lime
2215	2295	80	Anhydrite & Red Shale SSO 2246'-57'
2295'	2300	5	Anhydrite
2300	2310	10	Lime
2310	2320	10	Anhydrite & Red Rock
2320	2340	20	Lime & Red Rock
2340	2444	104	Gray Lime
2444	2452	8	SLM
2452	2484	32	Gray Lime
2484	2499	15	Brown Lime
2499	2497	-2	SLM
2497	2517	20	Gray Lime
2517	2531	14	Gray & Brown Lime SO&G 2525'-31'
2531	2610	79	Gray Lime
2610	2610	--	SLM
2610	2650	40	Gray Lime
2650	2662	12	White Lime
2662	2686	24	Gray Lime
2686	2709	23	White Lime
2709	2749	40	White & Brown Lime SO&G 2716'-23'
2749	2795	46	Gray Lime
2795	2798	3	Gray Sand
2798	2811	13	Gray Sandy Lime
2811	2841	30	Gray Lime
2841	2903	62	White Lime
2903	2960	57	Gray Lime
2960	2964	4	SLM
2964	3013	49	Gray Lime OIL PAY 2978'-95'

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3013	3014	1	SLM
3014	3095	81	Gray Lime OIL PAY 3060'-74'
3095	3088	-7	SLM
3088	3150	62	Gray Lime OIL PAY 3115'-44'
3150	3149	-1	SLM - TOTAL DEPTH