

A blank 10x10 grid for graphing, consisting of 10 columns and 10 rows of squares. The grid is used for plotting the graph of the function $y = \frac{1}{2}x^2$.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 030167-A
LEASE OR PERMIT TO PROSPECT McCallister

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Continental Oil Company Address Box 60, obbs, L.L.
 Lessor or Tract McCallister A-24 Field Jal State New Mexico
 Well No. 3 Sec. 24 T. 26 R. 36 Meridian N.M.P.M. County Lea
 Location 660 ft. N. of S Line and 660 ft. E. of E. Line of Sec. 24 Elevation 2941
(Elevation 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.

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Signed _____ /s/ R. L. Johnston
Date Sept. 3, 1936 Title Dist. Supt.

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

Commenced drilling 7-27-36, 1936 Finished drilling 9-1-36, 1936

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3215 to 3245 No. 4, from _____ to _____
 No. 2, from _____ to _____ No. 5, from _____ to _____
 No. 3, from _____ to _____ No. 6, from _____ to _____

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		Purpose
							From—	To—	
13"	50	8	SH LW	449'2"	TP				
9 5/8"	36	10	Sols	281'8"	Cement guide shoe				
7"	24	10	Sols	3143'11"	Cement guide shoe & float collar				
2 1/2"	6.50	New	Sols	3249'1"	Set at 3240'				

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13"	462	200	Halliburton		
9 5/8"	2802	900	Do.		
7"	3133	400	Do.		

PLUGS AND ADAPTERS

Heaving plug—Material ----- Length ----- Depth set ----- *mm*²
Adapters—Material ----- Size -----

SHOOTING RECORD

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

TOOLS USED

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

Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet.

DATES

Sept. 3, 1936, 19 Put to producing Sept. 15, 1936, 19

The production for the first 24 hours was 330 barrels of fluid of which -----% was oil; -----% emulsion; -----% water; and -----% sediment.

Gravity, °Bé. -----

If gas well, cu. ft. per 24 hours 250,000 Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. -----

EMPLOYEES

_____, Driller **Gilbert** _____ **Cross**, Driller
_____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
0	20	40	Cellar
20	40	125	Surface sand
40	125	125	Sand & shells
125	336	336	Shale & shells
336	351	351	Sand & shells
351	437	437	Hard sand & shells
437	455	455	Sand
455	465	465	Shale
465	640	640	Redbeds sand & shale
640	774	774	Redbed, sand & shells
774	865	865	Redbed, redrock
865	911	911	Sand, shells & redrock
911	983	983	Redrock & redbed
983	1164	1164	Redbed
1164	1196	1196	Anhydrite & redbed broken
1196	1111	1111	Anhydrite
1111	1672	1672	Anhydrite & gypsum
1672	1680	1680	Anhydrite
1680	1775	1775	Anhydrite & salt
1775	1792	1792	Salt
1792	1870	1870	Anhydrite
1870	1835	1835	Anhydrite
1835	2045	2045	Anhydrite, salt & potash
2045	2120	2120	Salt
2120	2142	2142	Anhydrite
2142	2170	2170	Salt
2170	2188	2188	Anhydrite
2188	2220	2220	Salt
2220	2225	2225	Anhydrite
2225	2260	2260	Salt
2260	2367	2367	Anhydrite, salt & potash
2367	2445	2445	Salt & anhydrite shells
2445	2460	2460	Anhydrite & gypsum
2460	2504	2504	Salt & anhydrite shells
2504	2528	2528	Anhydrite & gypsum
2528	2556	2556	Salt
2556	2576	2576	Anhydrite & gypsum
2576	2587	2587	Salt
2587	2600	2600	Anhydrite
2600	2650	2650	Salt
2650	2680	2680	Anhydrite
2680	2768	2768	Anhydrite & salt
2768	2773	2773	Red shale
2773	2779	2779	Anhydrite & salt
2779	2783	2783	Anhydrite
2783	2785	2785	Broken anhydrite & salt
2785	2820	2820	Hard anhydrite
2820	2835	2835	Anhydrite & grey lime
2835	2852	2852	Brown lime
2852	2910	2910	Grey lime
2910	3245	3245	Lime, total depth

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, 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

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Drill stem test from 3100 to 3135 open to 1000 ft. showed no gas or oil, 12' drilling mud. 7" OD casing was set at 3135' and cemented with 400 sacks. Tested at 3205', no oil, small show of gas. Tested at 3245', showed 132 MCF gas & small show of oil. Tested at 3220, 132 MCF gas & 48 bbls. oil in 13 hrs. by gas lift. Tested at 3201, 99 bbls. oil in 14 hrs. by gas lift. Tested at 3245' flowing 145 bbls. oil in 12 hrs. by heads natural. 3 1/2" tubing was run & set at 3240'. IP 165 bbls. oil in 12 hours with 250 MCF gas thru 5/16" choke. Multiple IT will connect and run top allowable effective 9-15-36. This well was not acidized or shot.