

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 $y = \sin x$ for $0 \leq x \leq 2\pi$.

U. S. LAND OFFICE
SERIAL NUMBER **IC-065879-B**
LEASE OR PERMIT TO PROSPECT

NOTED
JUN 17 1960

UNITED STATES

STANDARD DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Gulf Oil Corporation Address P.O. Box 766, Kermit, Texas
Lessor or Tract Federal Littlefield "DP" Option Field Wildcat State New Mexico
Well No. 1 Sec. 17 T. 36S R. 32E Meridian NMPM County Lea
Location 660 ft. N. of S Line and 660 ft. E. of S Line of Section 17 Elevation 3253.580L
(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.

Date 6-22-60 Signed J. L. PIKE Title Area Production Manager

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

Commenced drilling 3-29 1960 Finished drilling 4-12 1960

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

(Denote gas by G)

No. 1, from _____ to _____	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

[illegible]

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8"	5321	350	HOWCO P&P		
5-1/2"	4931	100	HOWCO P&P		

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth set

Adapters—Material Size

SHOOTING RECORD

[illegible]

TOOLS USED

Rotary tools were used from _____ feet to 4984 feet, and from _____ feet to _____ feet.

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

DATES

....., 19.....	Put to producing	19.....
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The production for the first 24 hours was ----- barrels of fluid of which ----- % was oil; ----- % emulsion; ----- % water; and ----- % sediment. Gravity: 64

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

_____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	10'	10'	Derrick floor to ground
	37'	27'	Sand & rock
	1470'	1433'	Red Bed
	2590'	1120'	Anhydrite
	3020'	430'	Anhydrite & Salt
	3338'	318'	Anhydrite
	3597'	259'	Anhydrite & Salt
	4350'	753'	Anhydrite
	4650'	300'	Anhydrite & Salt
	4883'	233'	Anhydrite
	4984'	101'	Sand
		Plug back to 4910'	
		740'	Top Rustler
		4606'	Base of Salt
		4837'	Top of Delaware
			Tops from electric logs

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
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1500	1480	20	Gravelly sandstone, 1500 to 1480 feet, 20 feet thick.
1480	1460	20	Gravelly sandstone, 1480 to 1460 feet, 20 feet thick.
1460	1440	20	Gravelly sandstone, 1460 to 1440 feet, 20 feet thick.
1440	1420	20	Gravelly sandstone, 1440 to 1420 feet, 20 feet thick.
1420	1400	20	Gravelly sandstone, 1420 to 1400 feet, 20 feet thick.
1400	1380	20	Gravelly sandstone, 1400 to 1380 feet, 20 feet thick.
1380	1360	20	Gravelly sandstone, 1380 to 1360 feet, 20 feet thick.
1360	1340	20	Gravelly sandstone, 1360 to 1340 feet, 20 feet thick.
1340	1320	20	Gravelly sandstone, 1340 to 1320 feet, 20 feet thick.
1320	1300	20	Gravelly sandstone, 1320 to 1300 feet, 20 feet thick.
1300	1280	20	Gravelly sandstone, 1300 to 1280 feet, 20 feet thick.
1280	1260	20	Gravelly sandstone, 1280 to 1260 feet, 20 feet thick.
1260	1240	20	Gravelly sandstone, 1260 to 1240 feet, 20 feet thick.
1240	1220	20	Gravelly sandstone, 1240 to 1220 feet, 20 feet thick.
1220	1200	20	Gravelly sandstone, 1220 to 1200 feet, 20 feet thick.
1200	1180	20	Gravelly sandstone, 1200 to 1180 feet, 20 feet thick.
1180	1160	20	Gravelly sandstone, 1180 to 1160 feet, 20 feet thick.
1160	1140	20	Gravelly sandstone, 1160 to 1140 feet, 20 feet thick.
1140	1120	20	Gravelly sandstone, 1140 to 1120 feet, 20 feet thick.
1120	1100	20	Gravelly sandstone, 1120 to 1100 feet, 20 feet thick.
1100	1080	20	Gravelly sandstone, 1100 to 1080 feet, 20 feet thick.
1080	1060	20	Gravelly sandstone, 1080 to 1060 feet, 20 feet thick.
1060	1040	20	Gravelly sandstone, 1060 to 1040 feet, 20 feet thick.
1040	1020	20	Gravelly sandstone, 1040 to 1020 feet, 20 feet thick.
1020	1000	20	Gravelly sandstone, 1020 to 1000 feet, 20 feet thick.
1000	980	20	Gravelly sandstone, 1000 to 980 feet, 20 feet thick.
980	960	20	Gravelly sandstone, 980 to 960 feet, 20 feet thick.
960	940	20	Gravelly sandstone, 960 to 940 feet, 20 feet thick.
940	920	20	Gravelly sandstone, 940 to 920 feet, 20 feet thick.
920	900	20	Gravelly sandstone, 920 to 900 feet, 20 feet thick.
900	880	20	Gravelly sandstone, 900 to 880 feet, 20 feet thick.
880	860	20	Gravelly sandstone, 880 to 860 feet, 20 feet thick.
860	840	20	Gravelly sandstone, 860 to 840 feet, 20 feet thick.
840	820	20	Gravelly sandstone, 840 to 820 feet, 20 feet thick.
820	800	20	Gravelly sandstone, 820 to 800 feet, 20 feet thick.
800	780	20	Gravelly sandstone, 800 to 780 feet, 20 feet thick.
780	760	20	Gravelly sandstone, 780 to 760 feet, 20 feet thick.
760	740	20	Gravelly sandstone, 760 to 740 feet, 20 feet thick.
740	720	20	Gravelly sandstone, 740 to 720 feet, 20 feet thick.
720	700	20	Gravelly sandstone, 720 to 700 feet, 20 feet thick.
700	680	20	Gravelly sandstone, 700 to 680 feet, 20 feet thick.
680	660	20	Gravelly sandstone, 680 to 660 feet, 20 feet thick.
660	640	20	Gravelly sandstone, 660 to 640 feet, 20 feet thick.
640	620	20	Gravelly sandstone, 640 to 620 feet, 20 feet thick.
620	600	20	Gravelly sandstone, 620 to 600 feet, 20 feet thick.
600	580	20	Gravelly sandstone, 600 to 580 feet, 20 feet thick.
580	560	20	Gravelly sandstone, 580 to 560 feet, 20 feet thick.
560	540	20	Gravelly sandstone, 560 to 540 feet, 20 feet thick.
540	520	20	Gravelly sandstone, 540 to 520 feet, 20 feet thick.
520	500	20	Gravelly sandstone, 520 to 500 feet, 20 feet thick.
500	480	20	Gravelly sandstone, 500 to 480 feet, 20 feet thick.
480	460	20	Gravelly sandstone, 480 to 460 feet, 20 feet thick.
460	440	20	Gravelly sandstone, 460 to 440 feet, 20 feet thick.
440	420	20	Gravelly sandstone, 440 to 420 feet, 20 feet thick.
420	400	20	Gravelly sandstone, 420 to 400 feet, 20 feet thick.
400	380	20	Gravelly sandstone, 400 to 380 feet, 20 feet thick.
380	360	20	Gravelly sandstone, 380 to 360 feet, 20 feet thick.
360	340	20	Gravelly sandstone, 360 to 340 feet, 20 feet thick.
340	320	20	Gravelly sandstone, 340 to 320 feet, 20 feet thick.
320	300	20	Gravelly sandstone, 320 to 300 feet, 20 feet thick.
300	280	20	Gravelly sandstone, 300 to 280 feet, 20 feet thick.
280	260	20	Gravelly sandstone, 280 to 260 feet, 20 feet thick.
260	240	20	Gravelly sandstone, 260 to 240 feet, 20 feet thick.
240	220	20	Gravelly sandstone, 240 to 220 feet, 20 feet thick.
220	200	20	Gravelly sandstone, 220 to 200 feet, 20 feet thick.
200	180	20	Gravelly sandstone, 200 to 180 feet, 20 feet thick.
180	160	20	Gravelly sandstone, 180 to 160 feet, 20 feet thick.
160	140	20	Gravelly sandstone, 160 to 140 feet, 20 feet thick.
140	120	20	Gravelly sandstone, 140 to 120 feet, 20 feet thick.
120	100	20	Gravelly sandstone, 120 to 100 feet, 20 feet thick.
100	80	20	Gravelly sandstone, 100 to 80 feet, 20 feet thick.
80	60	20	Gravelly sandstone, 80 to 60 feet, 20 feet thick.
60	40	20	Gravelly sandstone, 60 to 40 feet, 20 feet thick.
40	20	20	Gravelly sandstone, 40 to 20 feet, 20 feet thick.
20	0	20	Gravelly sandstone, 20 to 0 feet, 20 feet thick.

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 "ditched" 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 burning.

Deviations

3/4 - 344'	1/2 - 1310'	2-3/4 - 3189'	1-1/4 - 4189'	1 - 4777'
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Casing

Well originally planned for 1/2" casing. 5/8" casing was run due to possibilities of deepening.

Core

Diamond Core #1 - 4883'-4934' - cut and recovered 51'.
Diamond Core #2 - 4934'-4984' - cut and recovered 50'.

Formation Description

4-17-60 - Tested formation through notch in casing at 4883' w/500 gal hold & 500 gal pulled lease oil. Testing pressure 1300'.

5-10-60 - Frac w/4000 gal section oil w/1/2" SFG. Testing pressure 1300'.

6-6-60 - Frac 8 pipes thru 99 BO.

6-6-60 - Frac 4 B10 & 69 BM. Well 1A 6-15-60, 206 bbls load oil well.

100' of oil or gas well.

Oil and gas well.

Oil and gas well.

Oil and gas well.

Oil and gas well.

Oil and gas well.