

A 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 $0 \leq x \leq 2\pi$.

JUN 25 1963

UNITED STATES

2 5 1963
DEPARTMENT OF THE INTERIOR

U. S. GEOLOGICAL SURVEY
INTERNAL OFFICE

RECEIVED
SEP 24 1963
U. S. GEOLOGICAL SURVEY
MEXICO, NEW MEXICO

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company TEXACO Inc. Address P. O. Drawer 728, Hobbs, New Mexico
 Lessor or Tract Leo R. Manning Fed. "B" MCT-1 Field North Benson State New Mexico
Queen Grayburg
 Well No. 6 Sec. 28 T. 18S R. 30E Meridian N.M.P.M. County Eddy
 Location 1743 ft. EX of N Line and 784 ft. E of W Line of Section 28 Elevation 3510
 (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 September 23, 1963

Title Asst. Dist. Supt.

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

Commenced drilling ----- **August 29** -----, 19**63** Finished drilling ----- **September 8** -----, 19**63**

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

See Attached Sheet

See Attached Sheet
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

Drilled with rotary tools; no water sands tested from _____ to _____

No. 2, 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
7"	550	450	Halliburton		
4 1/2"	3400	350	Halliburton		

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

TOOLS USED

Rotary tools were used from 0 feet to 200 feet, and from 0 feet to 0 feet

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

DATES

Put to producing ~~September 23~~, 19-~~63~~ **September 13**, 19-**63**

The production for the first 24 hours was 206 barrels of fluid of which 100% was oil; ---% emulsion; ---% water; and ---% sediment. Gravity, °Bé. 30.3

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

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

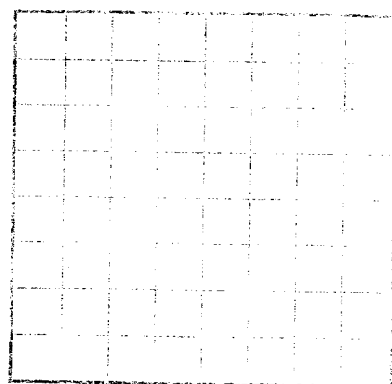
M. F. Young _____, Driller **J. W. Byer** _____, Driller

~~John H. Dukeminier~~ _____, Driller ~~W. Botkin~~ _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	300	300	Sand
300	550	250	Sand, Salt, Anky.
550	1561	1011	Anky. & Salt
1561	2319	758	Anky. & Gyp
2319	2430	111	Anky.
2430	2534	104	Anky. & Sand
2534	2768	234	Lime
2768	2858	90	Sandy Lime
2858	3400	542	Lime
3400	TD		
3365	PBTD		
Estimate 6257			
6 - USGS			
1 - NMOC			
1 - Field			
1 - Well File			

LOVE: LOVER: CONFUSION



WILL BE WELL CORRECTED

The information given herewith is a copy of and correct record of the well and all work done thereon as far as can be determined from all available records.

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

27405 317 20142 240 40 115

Date		Time		Location		Remarks	
1941	10/10	10:00	10:15	10:30	10:45	11:00	11:15
1941	10/11	10:00	10:15	10:30	10:45	11:00	11:15
1941	10/12	10:00	10:15	10:30	10:45	11:00	11:15
1941	10/13	10:00	10:15	10:30	10:45	11:00	11:15

FOUNDER, FELLOW, TRUSTEES

See Attached

0-00000-00000

It is of the greatest importance to have a complete history of the well. There were any changes made in the casing, state fully, and if any casing was detracted, or left in the well, give the size and location. If the well has been abandoned, 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 balling.

HISTORY OF OIL OR GAS WELL

U. S. GOVERNMENT PRINTING OFFICE

FROM	TO	TOTAL FEET	FORMATION
			Formation Tops: Any. 400 T Salt 470 B Salt 1531 T Yates 1635 T Queen 2785 T Penrose 3106

FORMATION TOPS:

Amny. 400
T Salt 470
B Salt 1531
T Yates 1635
T Queen 2785
T Penrose 3106

LEO R. MANNING FEDERAL "B" NCT-1 WELL NO. 6

Spudded 9-7/8" hole 6:00 P.M. August 29, 1963.

Ran 540' of 7" OD casing (14.0 lb-New) and set at 550'. Cemented with 350 sacks of Class "C" 4% gel plus 100 sacks of Class "C" regular. Cement circulated. Job complete 3:30 P.M. August 31, 1963. Tested 7" OD casing for 30 minutes before and after drilling plug with 600 psi. Tested O.K. Job complete 3:30 P.M. September 1, 1963.

Ran 3390' of 4-1/2" OD casing (9.5 lb - J-55) and set at 3400'. Cement with 350 sacks of Class "C" 8% gel. Plug at 3365'. Job complete 6:15 A.M. September 7, 1963. Tested 4-1/2" OD casing for 30 minutes before and after drilling plug with 1000 psi. Tested O.K. Job complete 8:00 A.M. September 8, 1963.

Perforate 4-1/2" OD casing with 1 jet shot per interval, 2794', 2810', 3016', 3029', 3315', 3334', 3350'. Job complete 1:45 P.M. 9-14-63. Spot 400 gallons of LSTNE over casing perforations from 2794-3350'. Set packer 2690' in 4-1/2" casing. Acidize perforations with total 1600 gallons in 7 stages with 1 ball sealer between stages. Frac with 30,000 gallons of refined oil with 1-1/2# sand per gallon with 500 cubic feet CO₂ per barrel total treatment. On 24 hour potential test ending 8:30 A.M. 9-20-63, well flowed 206 BO & NW through a 24/64" choke.

Gravity - 30.3

GOR - 295

Top of Pay - 2794'

Bottom of Pay-3350'

NMOCC Date - 9-8-63

TEXACO Inc. Date - 9-20-63