

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 $y = \frac{1}{2}x^2$.

LOCATE WELL CORRECTLY

U. S. LAND OFFICE -----
SERIAL NUMBER 44-20-603-19
LEASE OR PERMIT TO PROSPECT -----

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

RECEIVED
INTERIOR
Y OCT 1 1957
U. S. GEOLOGICAL SURVEY
FARMINGTON, NEW MEXICO

LOG OF OIL OR GAS WELL

Company Pan American Petroleum Corporation Address Box 487, Farmington, New Mexico
Lessor or Tract Es-Ska-Eth-Not-Tah Field Undesignated Galisteo New Mexico
Well No. 1 Sec. 6 T. 26N R. 12W Meridian N.M.P.M. County San Juan
Location 690 ft. S. of N. Line and 635 ft. W. of E. Line of Section 6 Elevation 6875
(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 _____

ORIGINAL SIGNED BY
L. O. Speer, Jr.

Date October 4, 1957 Title Field Superintendent

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

Commenced drilling August 11, 1957 Finished drilling August 30, 1957

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 1937 to 1971 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	
8-5/8"	22.7	Slip Joint	Armed	308	Guide				Surface
5-7/8"	14.4	NAT	National	304	Guide				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"	318'	225 sacks	Halliburton 2	Plug	
5-1/2"	5080'	300 sacks	Halliburton 2	Plug	

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth set

Adapters—Material Size

SHOOTING RECORD

[illegible]

TOOLS USED

Rotary tools were used from 0 feet to 5000 feet, and from _____ feet to _____ feet

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

DATES

Completed as flowing oil well _____
Undesignated Gallup Field, 19_____
September 25, 1957 _____
The production for the first 24 hours was _____ barrels of fluid of which _____ % 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

Doyal Proctor	Driller	D. D. Martin	Driller
W. A. Pickett	Driller	R. F. Ferguson Jr.	Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	320	320	Surface sands & shale.
320	1145	832	Kirkland-Fruitland sand & shale.
1145	1234	89	Sand (top of Pictured Cliffs 1145)
1234	1980	746	Shale (top of Lewis 1234)
1980	3650	1670	Undifferentiated sands & shale.
3650	3886	236	Sand (top of Point Lookout 3650)
3886	4705	819	Shale (top of Mancos 3886)
4856	5080	224	Gallup sands & shales.

GEOTOGICAL SURVEY

LOCATE WELL CORRECTLY

[illegible]

This well was completed as a flowing oil well, undersaturated gaslib field September 22, 1957. Potential test September 23, 1957. 12 barrels of oil and no water on 24 1/2" choke in 36 hours. Gas rate 220 MCF. Well at above date.

On August 10, 1957, this well was spudded and on Aug ust 11, 1957, 8-1/8" casing
was set at 310' with 225 sacks of cement. After waiting on cement for 24 hours,
casing and water shut-off were tested with 100 pounds pressure for 30 minutes with
no drop in pressure.
Casing Record

No. 3 from 10' to No. 4 from 10' to No. 3 from 10' to No. 4 from 10' to

6-1/2" casing was set at 5080' with 200 sacks of cement, followed by 100 sacks of
cement. Casing was tested with 2500 pounds pressure (sped at 10') with no drop
in pressure.

No. 3 from 10' to No. 4 from 10' to No. 3 from 10' to No. 4 from 10' to

The above well was perforated with four shots per foot 4937-4971, and the sand
oil trapped with 40,000 gallons oil and 40,000 pounds sand. Formation logs at
1200 pounds pressure. Average injection rate 420 barrels per minute. Well was
then tested.

(Detroit has pd G)

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of reworking, whether with the reasons for the work and its results. 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 reason for putting in. If the well is abandoned, give date, size, position, and number of shots.

HISTORY OF OIL OR GAS WELL

16-43084-2 U. S. GOVERNMENT PRINTING OFFICE

[illegible]