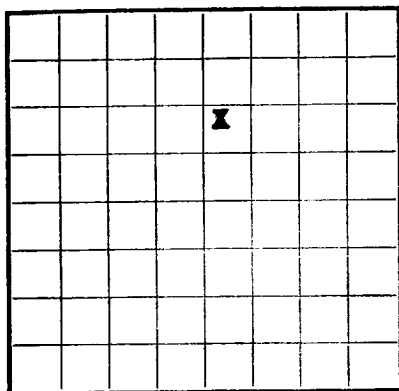
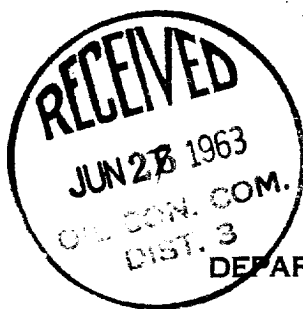


U. S. LAND OFFICE Hearilla Apache
SERIAL NUMBER 102
LEASE OR PERMIT TO PROSPECT _____

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Pan American Petroleum Corporation Address Box 480, Farmington, New Mexico
Lessor or Tract Hearilla Apache 102 Field Basin Dakota State New Mexico
Well No. 7 Sec. 3 T. 26N R. 4W Meridian N.M.P.M. County Rio Arriba
Location 1850 ft. [S.] of N. Line and 2390 ft. [W.] of E. Line of Section 3 Elevation 7010'
(Derive Elev. 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
F. R. HILLINGWORTHDate June 21, 1963 Title Petroleum Engineer

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

Commenced drilling April 17, 1963 Finished drilling April 27, 1963

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 7964' to 7974' (G) No. 4, from _____ to _____
No. 2, from 8000' to 8020' (G) No. 5, from _____ to _____
No. 3, from 8100' to 8122' (G) 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		Purpose
							From—	To—	
10-3/4"	221'	140							Surface
7-5/8"	3950'	140							Intermediate
7-5/8"	8192' (Bottom Liner)	500							Intermediate
7-5/8"	24	82							Intermediate
4-1/2"	10.5	82		6913'	Guide				Oil String
4-1/2"	11.6	82		1306'					

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10-3/4"	221'	140			
7-5/8"	3950'	140			
4-1/2"	8192' (Bottom Liner)	500			
4-1/2"	3872' (Top Liner)	500			

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 _____ feet to 8192 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

June 12, 1963 Completed as shut-in gas well
Put to producing June 12, 1963The production for the first 24 hours was _____ barrels of fluid of which _____ % was oil; _____ %
emulsion; _____ % water; and _____ % sediment. Gravity, °Bé. _____If gas well 2455 ft. per 24 hours Gallons gasoline per 1,000 cu. ft. of gas _____Rock pressure, lbs. per sq. in. 2427 (SIC)

EMPLOYEES

B. R. Day, Driller L. A. Vernon, Driller
G. L. Long, Driller _____, Driller

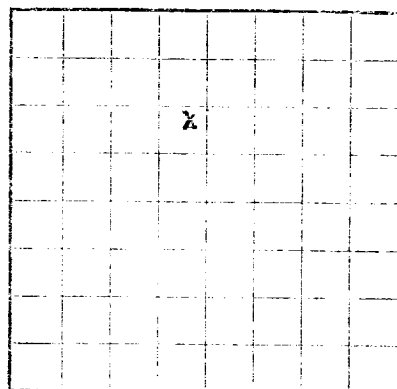
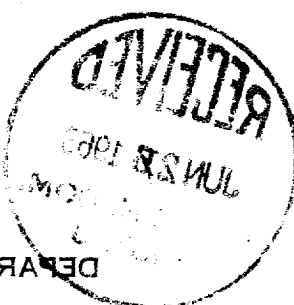
FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	3755'	3755'	Kirtland-Fruitland & surface sand & shale
3755'	3842'	87'	Pictured Cliffs sand
3842'	4720'	878'	Louis shale
4720'	6015'	1295'	Mosavert sand & shale
6015'	7119'	1104'	Mancos shale
7119'	7512'	393'	Gallup sand & shale
7512'	7874'	362'	Mancos shale
7874'	7933'	59'	Greenhorn shale
7933'	7956'	23'	Granger shale
7956'	8097'	141'	Granger Dakota sand & shale
8097'	8192'	95'	Dakota sand & shale

U.S. LAND OFFICE
ALBUQUERQUE, N.M.
100

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL



LOCATE WELL CORRECTLY

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 _____

Location 1825 ft. of 2 Line and 1220 ft. [W] of 2 Line of Section 3

Well No. 1 Sec. 3 T. 25N. R. 42E Meridian N.M.S.M. County Rio Arriba State New Mexico

Lease or Tract _____

Heimilla Apache 102 Field Basin Dakota

Company Pan American Petroleum Corporation Address 305 Ave. Washington, New Mexico

Completed drilling April 11, 1964 Finished drilling April 23, 1964
The summary on this page is for the condition of the well at above date.
Date June 21, 1963 Title ~~Gasoline Engine~~

OIL OR GAS SANDS OR ZONES

(Dreizehnte Sitzung)

No. 1, from 1966, to 1966, (c)	No. 4, from 1966, to 1966, (c)
No. 2, from 1966, to 1966, (c)	No. 5, from 1966, to 1966, (c)
No. 3, from 1966, to 1966, (c)	No. 6, from 1966, to 1966, (c)

IMPORTANT WATER SANDS

No. 1, from _____ to _____ No. 3, from _____ to _____
No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

[illegible]

MUDDING AND CEMENTING RECORD

Case No.	W hole set	Number sacks of cement	Method used	Mud gravity	Amount of cement used
131	131	100			
132	132	100			
133	133	100			
134	134	100			
135	135	100			

PLUGS AND ADAPTERS

Heaving plug—Material	Length	Depth set
Adaptors—Material	Size	

SHOOTING RECORD

[illegible]

TOOLS USED

Rotary tools were used from	0	feet to	4145	feet, and from	feet to
Cable tools were used from		feet to		feet, and from	feet to

DATE

June 12	1943	Put to producing	June 12	1943
---------	------	------------------	---------	------

The production for the first 24 hours was _____ barrels of fluid of which _____% was oil; _____% _____

emulsion;	% water; and	% sediment	Gravity, 15° C.
.....			

It gas well, ft. per 24 hours	235	Gallons gasoline per 1,000 cu. ft. of gas
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Rock pressure, lbs. per sq. in. (1-33) (1912)

EMPLOYEES

Driller	0.1.1.1
Driller	0.1.1.1

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
8097'	8195'	92'	Dakota sand & shale
7922'	8097'	174'	Graneros Dakota sand & shale
7933'	7926'	7'	Graneros shale
7874'	7933'	59'	Greenhorn shale
7515'	7874'	359'	Manco shale
7719'	7515'	203'	Calico sand & shale
6715'	7719'	1104'	Manco shale
6750'	6715'	1525'	Newaverde sand & shale
3842'	6750'	978'	Lewis shale
3752'	3842'	87'	Pictured Cliffs sand
	3752'	3752'	Kirtland-Kirtland & surface sand & shale