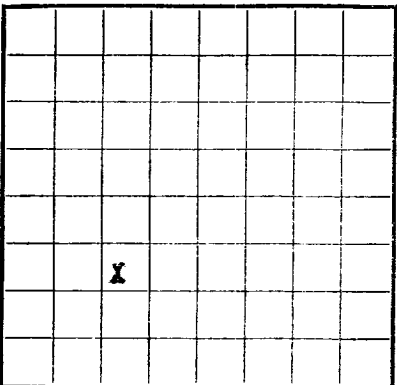
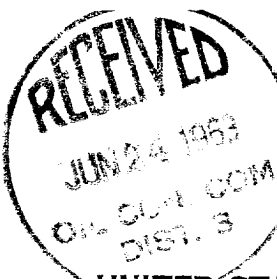




LOCATE WELL CORRECTLY



Budget Bureau No. 42-R355.4.
Approval expires 12-31-60.

U. S. LAND OFFICE **Jicarilla Apache**
SERIAL NUMBER **102**
LEASE OR PERMIT TO PROSPECT

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company **Pan American Petroleum Corporation** Address **P. O. Box 480, Farmington, New Mexico**
Lessor or Tract **Jicarilla Apache 102** Field **Basin-Dakota** State **New Mexico**
Well No. **8** Sec. **3** T. **26N** R. **4W** Meridian **NMPN** County **Rio Arriba**
Location **1790** ft. **N.** of **3** Line and **1480** ft. **E.** of **4** Line of **Section 3** Elevation **6924**
(Derrick base 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 _____

Date **June 17, 1963** Title **Petroleum Engineer**

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

Commenced drilling **May 8,** 19**63** Finished drilling **May 19,** 19**63**

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from **7848** to **7856 (G)** No. 4, from _____ to _____
No. 2, from **7883** to **7900 (G)** No. 5, from _____ to _____
No. 3, from **7988** to **8010 (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	32.75	8RT	4-40	190	Guide				Surface
7-5/8	29.50	8RT	3-35	3906	Guide				Intermediate
7-5/8	29.50	Hydril	3-35	3906	Guide				Intermediate
4-1/2	10.5	8RT	4-55	8157	Guide				Oil String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10-3/4	203	140			
7-5/8	3906	140			
4-1/2	8111	300			

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 **8120** feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

_____, 19____ Put to production **Completed as Shut-In Gas Well**
June 12, 1963
The production for the first 24 hours was _____ barrels of fluid of which _____% was oil; _____% emulsion; _____% water; and _____% sediment. Gravity, °Bé. _____

If gas well, **MDF** ft. per 24 hours **3092** Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. **2427 (SIGP)**

EMPLOYEES

_____, Driller _____, Driller
L. A. Vernon _____, Driller **Don Bettale** _____, Driller
T. C. Rowland _____, Driller _____, Driller

FORMATION RECORD

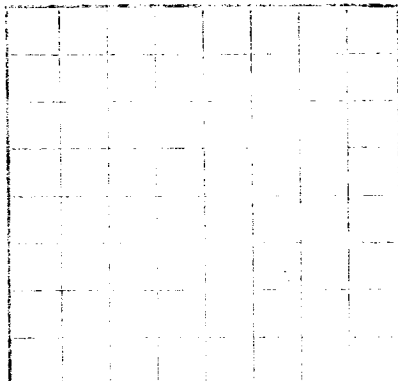
FROM—	TO—	TOTAL FEET	FORMATION
0	3670	3670	Kirtland-Fruitland & Surface SN & SH
3670	3753	83	Pictured Cliffs SN
3753	4620	867	Lewis SH
4620	5912	1292	Mesa Verde SN & SH
5912	7014	1102	Mancos SH
7014	7402	388	Gallup SN & SH
7402	7770	368	Mancos SH
7770	7825	55	Greenhorn SH
7825	7845	20	Graneros SH
7845	7988	143	Graneros Dakota SN & SH
7988	8120	132	Dakota SN & SH

LOG OF OIL OR GAS WELL

GEOLOGICAL SURVEY

DEPARTMENT OF THE INTERIOR

UNITED STATES



Form 2-2-26

Company, _____
Address, _____
Field, _____
State, _____
County, _____
Well No., _____
Location, _____
The information given herewith is a complete and correct record of the well and all work done thereon
as far as can be determined from all available records.

Date, _____
Title, _____
The summary on this page is for the condition of the well at above date.

Commenced drilling _____
Finished drilling _____

OIL OR GAS SANDS OR ZONES

(Indicate zone by G.)

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

IMPORTANT WATER SANDS

No. 1 from _____ to _____
No. 2 from _____ to _____

CASING RECORD

Size, _____
Weight, _____
Length, _____
Joint, _____
Casing, _____

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 attached 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

MUDDING AND CEMENTING RECORD

Size	Weight	Length	Amount of mud used	Method used	Notes

PLUGS AND ADAPTERS

Heaving plug _____
Adapter-M _____
Depth set _____

SHOOTING RECORD

Size	Weight	Length	Quantity	Date	Depth shot	Notes

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

The production for the first 24 hours was _____ barrels of fluid of which _____ was oil.
If gas well, _____ per 24 hours.
Block pressure, lbs. per sq. in. _____
Gravity, _____
Gallons gasoline per 1,000 cu. ft. of gas _____

EMPLOYEES

Driller _____
Driller _____

FORMATION RECORD

FROM	TO	TOTAL FEET	FORMATION
0	300	300	Gravelly sandstone
300	350	650	Sandstone
350	400	1050	Shale
400	450	1500	Gravelly sandstone
450	500	2000	Sandstone
500	550	2500	Shale
550	600	3000	Gravelly sandstone
600	650	3500	Sandstone
650	700	4000	Shale
700	750	4500	Gravelly sandstone
750	800	5000	Sandstone
800	850	5500	Shale
850	900	6000	Gravelly sandstone
900	950	6500	Sandstone
950	1000	7000	Shale

FORMATION RECORD—Continued