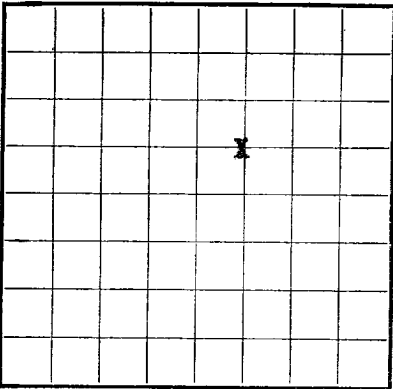




LOCATE WELL CORRECTLY

U. S. LAND OFFICE **Santa Fe**
SERIAL NUMBER **SF-078241**
LEASE OR PERMIT TO PROSPECT **E. H. Heggie**

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company **Pan American Petroleum Corporation** Address **Box 487, Farmington, New Mexico**
Lessor or Tract **E. H. Heggie** Field **Bisti-Lower Gallup** State **New Mexico**
Well No. **1** Sec. **8** T. **24N** R. **9W** Meridian **N.M.P.M.** County **San Juan**
Location **1980** ft. **N** of **N** Line and **1980** **Ex** of **E** Line of **Section 8** Elevation **6752 (RDB)**
(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.
ORIGINAL SIGNED BY
Signed **R. M. Bauer, Jr.**

Date **October 20, 1959** Title **Area Engineer**

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

Commenced drilling **May 13**, 19**59** Finished drilling **May 28**, 19**59**

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

No. 1, from **5356** to **5384** No. 4, from _____ to _____
No. 2, from **5396** to **5412** No. 5, from _____ to _____
No. 3, from _____ to _____ 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—	
8-5/8"	22.7	Slip Joint	Arco	190	Guide				Surface
4-1/2"	9.5	S&W	National	5553	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"	203	160 sacks cement	B. J. Service 1 plug		
4-1/2"	5536	200 sacks cement	Halliburton 2 plug		

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 **5548** feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

Completed as pumping oil well **Bisti Lower Gallup June 22 59** Date first new oil produced: **June 21**, 19**59**
Put to producing _____
Pumping test **6-22-59** pumped **11** barrels oil in **24** hours of which **99%** was oil; _____ %
emulsion; _____ % water; and _____ % sediment. Gravity, °Bé. **35 degrees API**
Pumping oil well **24-42 strokes per minute** gallons gasoline per 1,000 cu. ft. of gas _____
Gas oil ratio **not yet available.**

EMPLOYEES

H. T. Adams, Driller **C. C. Kooten**, Driller
C. O. Winters, Driller **Levi Schrock**, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	875	875	Surface sands & shales.
875	960	85	Ojo Alamo sand.
960	1700	740	Kirtland-Fruitland sands, shales & coals.
1700	1850	150	Pictured Cliffs sand.
1850	2560	710	Lewis shale.
2560	3120	560	Cliffhouse sands & shales.
3120	4165	1045	Menefee sands & shales.
4165	4375	210	Point Lookout sands.
4375	5200	825	Mancos shale.
5200	5356	156	Gallup shale.*
5356	5548	192	Gallup pay sands & shales.*

*Tops from E log

