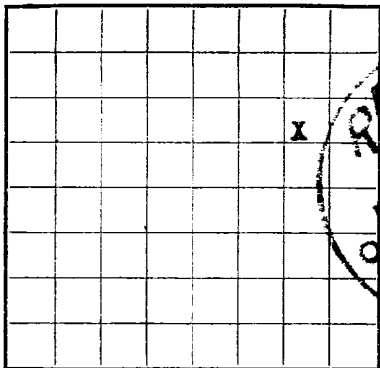
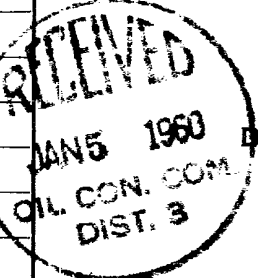




LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYU. S. LAND OFFICE Santa FeSERIAL NUMBER SF 077386

LEASE OR PERMIT TO PROSPECT

U. S. GEOLOGICAL SURVEY
CARTON, NEW MEXICO

LOG OF OIL OR GAS WELL

Company Pan American Petroleum Corporation address Box 487, Farmington, New Mexico
Lessor or Tract E. J. Johnson Gas Unit Field Angels Peak Dakota State New Mexico
Well No. 1 Sec. 21 T. 27N R. 10W Meridian N.M.P.M. County San Juan
Location 1650 ft. S. of N. Line and 870 ft. E. of E. Line of Section 21 Elevation 6078 (RDB)
(Denote gas by G)
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. Boyer, Jr.
Date December 31, 1959 Title Area Engineer

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

Commenced drilling November 26, 1959 Finished drilling December 9, 1959

OIL OR GAS SANDS OR ZONES

(Denote gas by G)
No. 1, from 6377 to 6427 (G) 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. 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
9-5/8"	32.3	8 RT	J-55	312	Guide			Surface
4-1/2"	17.6	8 RT	J-55	247	Guide			Oil String
4-1/2"	9.5	8 RT	J-55	6327	Guide			Oil String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
9-5/8"	352	200	Halliburton	1 Plug	
4-1/2"	6550	750	Halliburton	2 Stage	

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 6550 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

Completed as shutin gas well

DATES

Angels Peak Dakota Shutin for Pipeline connection
December 22, 1959 Put to producing December 22, 1959

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

emulsion; _____% water; and _____% sediment. Gravity, °Bé. _____

Preliminary Test If gas well, MCF per 24 hours 4942 Gallons gasoline per 1,000 cu. ft. of gas _____Rock pressure, lbs. per sq. in. 1960 Shutin Casing Pressure 7 days

EMPLOYEES

Charles Lockhart, Driller J. G. Brinkley, Driller
John D. Roe, Driller R. G. Cary, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	985	985	Surface sands and shales including Animas sand and shale.
985	1000	15	Ojo Alamo sand.
1000	1640	640	Kirtland shales and sands, including Farmington sand.
1640	1855	215	Fruitland sands, shales and coals.
1855	1930	75	Pictured Cliffs and shales.
1930	3420	1490	Lewis shale.
3420	4510	1090	Mesaverde sands and shales.
4510	5375	865	Mancos Shale.
5375	6222	847	Callup sands and shales.
6222	6290	68	Greenhorn sandy shale.
6290	6325	35	Graneros sands and shales.
6325	6376	51	Dakota sands and shales.
6376	6550	174	Dakota pay sand.
			(Top from E. Log)

Potential Test, December 29, 1959, flowed 4796 MCF per day through 3/4" choke after 3 hours. Absolute open flow potential 6029 MCF per day.

