

[illegible]

LOCATE WELL CORRECTLY



U. S. LAND OFFICE Santa Fe
SERIAL NUMBER SF-080614
LEASE OR PERMIT TO PROSPECT _____
Gallagher Canyon Unit

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 Gallegos Canyon Unit Field Basin Dakota State New Mexico
Well No. 102 Sec. 13 T. 29N R. 13W Meridian N.M.P.M. County San Juan
Location 1190 ft. SS of N Line and 1740 ft. E of W Line of Section 13 Elevation 5430 (RDE)
(Denmark Seer 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 R. M. Bauer, Jr.
Date September 25, 1961 Title Senior Petroleum Engineer

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

Commenced drilling August 11, 1961 Finished drilling August 21, 1961

OIL OR GAS SANDS OR ZONES

(Denote as by @)

No. 1, from 5953 to 5957 No. 4, from _____ to _____
 No. 2, from 5965 to 5971 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 _____

CASING RECORD									
Shot	Weight	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Performed		Purpose
							From	To	
1	11.00	10	U.S.	100	U.S.	100	100	100	100
2	11.00	10	U.S.	100	U.S.	100	100	100	100
3	11.00	10	U.S.	100	U.S.	100	100	100	100
4	11.00	10	U.S.	100	U.S.	100	100	100	100
5	11.00	10	U.S.	100	U.S.	100	100	100	100
6	11.00	10	U.S.	100	U.S.	100	100	100	100
7	11.00	10	U.S.	100	U.S.	100	100	100	100
8	11.00	10	U.S.	100	U.S.	100	100	100	100
9	11.00	10	U.S.	100	U.S.	100	100	100	100
10	11.00	10	U.S.	100	U.S.	100	100	100	100

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8"	360'	225	Halliburton	1 plug	
4-1/2"	6088'	975	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 6092 feet, and from feet to feet.

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

Completed as Shut In Basin Dakota Field Gas Well _____ September 10 _____, 1961 _____ DATES Well Shut-in for pipeline connection Put to producing _____, 19_____

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 ----- 2506 ----- Gallons gasoline per 1,000 cu. ft. of gas -----

Rock pressure, lbs. per sq. in. ~~1900~~ (SICP)

EMPLOYEES

John D. Rose, Driller J. G. Brinkley, Driller

-----, Driller
-----, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	1280	1280	Surface sands and shales
1280	1540	260	Pictured Cliffs sands and shales
1540	2325	785	Lewis shale
2325	4090	1765	Mesaverde sands and shale
4090	5005	915	Mancos shale
5005	5422	417	Gallup sands and shale
5422	5750	328	Sanastee sands and shales
5750	5870	120	Greenhorn sands and shales
5870	6092	222	Dakota sands and shales
			(Tops from "E" Log)
1000	2400	1400 FEET	SOUTHERN

LOVER!

10-10-68

18-18094-

PLEASE OR PERMIT TO PROCEED

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

A blank sheet of graph paper with a grid pattern. The grid consists of horizontal and vertical lines forming squares. There are approximately 10 columns and 8 rows visible. A small dark mark or smudge is present near the top center of the page.

Spudded 12-1/4" hole August 17, 1961. Set at 8-5/8" casing at 360'. Circulated 10 sacks of cement containing 2 percent calcium chloride. Cased with 500 psi for 30 minutes, held without indication of pressure drop. Reduced hole to 7-7/8" at 360'.

No. 1 from _____ to _____

Set No. 1 casing at 608' with Halliburton DV #1 at 1603'. Cemented first stage with 275 sacks 6 percent gel cement circulated 1-1/2 hours, which held with no indication of pressure drop. Cemented second stage with 500 sacks 6 percent gel cement. Circulated out 65 sacks good cement. Tested with 3000 psi for 15 minutes, which held no indication of pressure drop. No. 1 from _____ to _____

Han Gamma Ray correlation log and perforated barrels with 6 shots per foot 5953-5957' and 5965 - 5971'. Sand water layers with exposed fractures. Calcium chloride and 7 pounds per 1,000 gallons 1-22 and 30,000 pounds sand. Pressure washer breakdown 1780 psi; maximum treating 3000 psi; minimum treating 2200 psi; average flow rate 2,000 gpm. Injection rate 3.4 barrels per minute.

Date _____

Galleros Canyon Unit 102 completed September 10, 1961 as shut-in Basin Dakota Field Gas Well. Preliminary test September 10, 1961 flowed 3 hours and tested 2506 MCF per day with ending pressure flowing 150 psi and casing pressure flowing 400 psi. Top day production information given hereafter is a combined record of the well and all work done thereon. Location 1100 ft. E. of Line and 120 ft. N. of Line of section 13. Elevation 5432'. (Dont's flow chart to see later)

Well No. 102 Sec. 13 T. 28N. R. 11E Meridian _____ County _____ State _____

Lessor or Trust _____

Company _____

Address _____ Box _____

State _____

County _____

Field _____

Section _____

Township _____

Range _____

Meridian _____

County _____

State _____

Box _____

Address _____

Company _____

Lessor or Trust _____

HISTORY OF OIL OR GAS WELL

FORMATION RECORD			
FROM-	TO-	TOTAL FEET	FORMATION
0	250	250	fine sand and shales
250	450	200	interbedded shales and sand
450	525	75	hard shale
525	600	75	hard sandstone and shales
600	800	200	hard shale
800	950	150	yellow sand and shale
950	1000	50	hard sandstone and shale
1000	1050	50	interbedded sandstone and shale
1050	1090	40	hard sandstone and shales
(5' on from "10" log)			

FORMATION RECORD			
FROM-	TO-	TOTAL FEET	FORMATION
0	250	250	fine sand and shales
250	450	200	interbedded shales and sand
450	525	75	hard shale
525	600	75	hard sandstone and shales
600	800	200	hard shale
800	950	150	yellow sand and shale
950	1000	50	hard sandstone and shale
1000	1050	50	interbedded sandstone and shale
1050	1090	40	hard sandstone and shales
(5' on from "10" log)			

EMPLOYEES			
Driller	Driller	Driller	Driller
Driller	Driller	Driller	Driller
Driller	Driller	Driller	Driller

DATES			
Put to producing	all time in production	all time in production	all time in production
Put to producing	all time in production	all time in production	all time in production
Put to producing	all time in production	all time in production	all time in production

TOOLS USED			
feet to	feet to	feet to	feet to
feet to	feet to	feet to	feet to
feet to	feet to	feet to	feet to

SHOOTING RECORD			
Size	Shell used	Explosive used	Quantity
Size	Shell used	Explosive used	Quantity
Size	Shell used	Explosive used	Quantity

PLUGS AND ADAPTERS			
Depth set	Length	Size	Material
Depth set	Length	Size	Material
Depth set	Length	Size	Material

MUDGING AND CEMENTING RECORD			
Amount of mud used	Mud gravity	Method used	Number sacks of cement
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