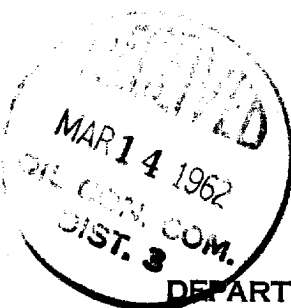


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LOCATE WELL CORRECTLY



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER SF-078903
LEASE OR PERMIT TO PROSPECT.

LOG OF OIL OR GAS WELL

Company Pan American Petroleum Corporation Address P. O. Box 480, Farmington, New Mexico
Lessor or Tract Gallegos Canyon Unit Field Basin Dakota State New Mexico
Well No. 124 Sec. 35 T. 28N R. -12W Meridian N.M.P.M. County San Juan
Location 1190 ft. NE of North Line and 1190 ft. E of West Line of Section 35 Elevation 5900
(Depth 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.

SO far as can be determined from an available records.

Date March 9, 1962

Signed _____

ORIGINAL SIGNED BY
R. M. Bauer, Jr.
Title Senior Petroleum Engineer

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

Commenced drilling January 28 1962 Finished drilling February 13 1962

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 6215 to 6240 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
							From—	To—	
8 5/8"	32.7	83	Amco	362	Guide				Surface
4 1/2"	10.5	87	CPX	608	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	370	200	Halliburton 2	Plug	
4 1/2	6385	815	Halliburton 2	Plug	

PLUGS AND ADAPTERS

Heaving plug—Material ----- Length ----- Depth set -----
Adapters—Material----- Size -----

SHOOTING RECORD

[illegible]

TOOLS USED

Rotary tools were used from 0 feet to 6385 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet
Completed as Basin Dakota Field Well DATES Completed as shut in gas well.
February 27, 1962 Put to producing February 27, 1962

The production for the first 24 hours was ----- barrels of fluid of which ----- % was oil; ----- % emulsion; ----- % water; and ----- % sediment. Gravity, °Bé. -----

If gas well, ^{MCF}~~cu. ft.~~ per 24 hours 6913 Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. ---2000

EMPLOYEES

R. Slaughter, Driller A. Miller, Driller
G. Benton, Driller J. Weisgerber, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	1630	1630	Undifferentiated surface sands and shales.
1630	1800	170	Pictured Cliffs sand and shale.
1800	2558	758	Lewis shale.
2558	4400	1842	Mesaverde sands, shales, and coals.
4400	5251	851	Nancos shale.
5251	6035	784	Gallup sand and shale.
6035	6151	116	Greenhorn shale.
6151	6215	64	Dakota sand and shale.
6215	6385	170	Dakota pay sand and shale.
			(Tops from E log)

FROM—	TO—	TOTAL FEET	FORMATION
-------	-----	------------	-----------

—OL

TOTAL FEET**FORMATION**[illegible]

U. S. GOVERNMENT PRINTING OFFICE 16-50842-2

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 "siderchoked", or left in the well, give its size and location. If the well has been dynamited, give date, size, 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 balling.

Spudded 12-1/4" hole on 1-28-62. 8-5/8" casing set at 370' with 200 sacks Incon cement containing 2% calcium chloride. Circulated 50 sacks. After waiting on cement to set tested casing with 400 psi for 15 minutes with no drop in pressure. Reduced hole to 7-7/8" at 370' and resumed drilling.

Core No. 1 5504-5590 Gallup - Core barrel jammed. Recovered 32 feet as follows: 20-1/2 feet shale with thin sand partings and occasional bleeds in lower portion, 2-1/2 feet very shaly sand, 9 feet tight sand bleeding gas throughout.

Core No. 3 5604-5611 Gallup - Core barrel jammed. Recovered 7 feet of highly broken black shale with vertical fractures.

Core No. 7, 3611-3646 (Gulf) - Core barrel jammed. Recovered 35 feet as follows:
 11 feet highly broken shale; 21 feet shale with occasional thin sand laminations and vertical fractures in lower portion; 3 feet broken and vertically fractured shale.

Core No. 5 5646-5673 (alluvium - recovered 27 feet as follows: 11 feet black sand, 16 feet black shale with vertical fractures bottom 10 feet fossiliferous (algae trace of sand 5656-5657)).

oil drilled to a total depth of 6385' and 4-1/2" casing set at that depth. First stage cemented with 260 sacks 4% gel incore cement containing 1-1/2 pounds Tur-Pug per sack followed by 75 sacks incore neat cement. Second stage cemented with 480 sacks 4% gel incore cement. After waiting on cement tested casing with 2000 psi. Test ok.

Tested 1/2" casing with 3000 psi. Test ok. Spotted 1000 gallons BDA over
 Dapco. Perforated 6218-6227 with 8 shots per foot. 7 inches three perforations
 with 40,000 gallons water containing 1% calcium chloride, 7 pounds J-98 per 1000
 gallons and 40,000 pounds sand. Pressures were: Breakdown 1800, Maximum treating
 3000, Minimum treating 2400, Average treating 2500. Average injection rate 4 1/4
 BPM. Tubing landed at 6236'.

Well completed as shut in Basin Alaska Field with February 27, 1962.

2061 62