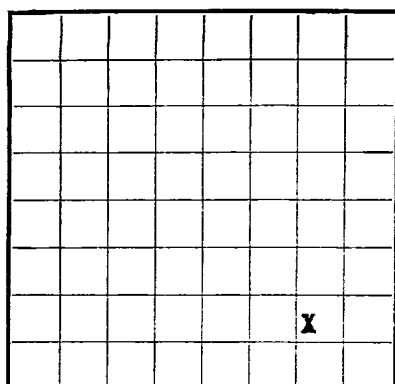


U. S. I. O. Santa Fe

SERIAL NUMBER 076337

LEASE OR PERMIT TO PROSPECT



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

RECEIVED
MAR 19 1950
WELL
GEOLOGICAL SURVEY
WASHINGTON, NEW MEXICO

Company Pan American Petroleum Corporation Address Box 487, Farmington, New Mexico
 Lessor or Tract W. D. Heath "A" Field Blanco-Pictured State New Mexico
Cliffs
 Well No. 5 Sec. 17 T. 29N R. 9W Meridian N.M.P.M. County San Juan
 Location 990 ft. {N. of 3 Line and 990 ft. {IX of E Line of Section 17 Elevation 5665
S. {W.

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 _____ **L. O. Speer, Jr.**

Date March 17, 1958

Title **Field Superintendent**

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

Commenced drilling February 24, 1958 Finished drilling March 1, 1958

OIL OR GAS SANDS OR ZONES

Denale gas by

No. 1, from 2120 to 2149 (G) No. 4, from 2150 to 2179 (G)
No. 2, from 2140 to 2169 (G) No. 5, from 2180 to 2209 (G)

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"	22.3	5 1/2	Joint Amer	288	Guides				Surface
5-7/8"	14	4	HT	1099	Ordes				Oil String
THIS LOG IS ONE OF ONE LEFT									

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8"	297'	250 sacks Halliburton 2 Plug			
5-1/2"	2000'	500 sacks 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 _____ feet to _____ feet, and from _____ feet to _____ feet.

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

DATES

Completed as shut-in Blanco-Pictured ^{DATES} ~~Cliffs~~ _____
Field Development Gas well 19____ 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 _____ Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. 018 (18000)

EMPLOYEES

EMPLOYEES			
Preliminary test 3/6/58, 2039 MCFPD Pitot Tube Measurement.			
Cotton Gipson	Driller	E. E. Estes	Driller
F. J. Buck	Driller	J. D. Coleman	Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	980	980	Surface sand, shale and Animas shale.
980	1100	120	Ojo Alamo sandstone.
1100	1825	725	Kirtland-Farmington sand & shale.
1825	2116	291	Fruitland sands, shales & coals.
2116	2200	84	Pictured Cliffs sandstone.

[OVER]

16-43094-4

LOCALIZATION RECORD—Continued

AT THE END OF COMPLETE DRILLER'S
LOG, ADD GEOLOGIC TOP. STATE
WHETHER THE

14-00000
 14-00000
 14-00000

[illegible]

Injection rate 53 BPM. I-1/I-2 tubing was landed at 270'. Completion at 280'.
 Haines - returned GATX field development gas well on March 6, 1968.

Factorated with two shots per foot 2120-45, 2160-60, preceded that with 110 gallons
acid. Sand-water tracked with 30,000 gallons water and 40,000 pounds sand,
using 15 gallons Dowell A-35 and 30 gallons W-17 agents in the fluid. Injected
50 ball sealers midway thru treatment. Formation broke at 8000 pounds. Pressure

5-1/2" casing was landed at 2200' with 490 sacks of 6% gel cement and followed by 50 sacks neat cement. After waiting an hour, casing was tested with 2900 pounds (special test) for thirty minutes which held with no drop in pressure.

M. D. Heath, 44 Wall St., was supplied on February 25, 1958, and 8-5/8" casing was set at 297' with 250 sacks of cement. After waiting on cement for twenty-four hours, casing and water shut-off were tested with 700 pounds pressure for thirty minutes, which held with no drop in pressure.

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 "sidetracked" 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 pumps or bridges were put in to test for water, state kind of material used, position, and results of pumping or bridging.

16-48094-2 U. S. GOVERNMENT PRINTING OFFICE

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