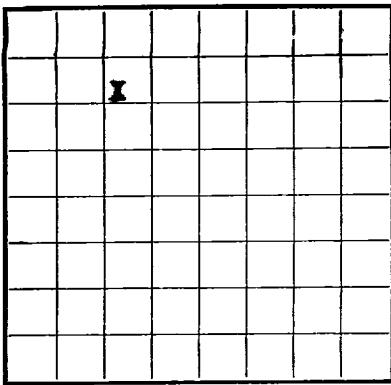


U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 076337
LEASE OR PERMIT TO PROSPECT _____

LOCATE WELL CORRECTLY

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 W. D. Heath "A" Field Blanco-Pictured Cliffs New Mexico
Well No. 6 Sec. 17 T. 29N R. 9W Meridian N.M.P.M. County San Juan
Location 990 ft. N of N Line and 1650 ft. E of W Line of Section 17 Elevation 5671
(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.
Signed L. O. Speer, Jr.Date March 5, 1958 Title Field Superintendent
The summary on this page is for the condition of the well at above date.Commenced drilling February 20, 1958 Finished drilling February 24, 1958

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 2150 to 2209 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—	
<u>8-5/8"</u>	<u>22.2</u>	<u>31.25</u>	<u>Joint Amer</u>	<u>262</u>	<u>Guide</u>				<u>Surface</u>
<u>5-1/2"</u>	<u>24</u>	<u>26.25</u>	<u>National</u>	<u>2241</u>	<u>Guide</u>				<u>Oil string</u>
HISTORY OF OIL OR GAS WELL									

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>8-5/8"</u>	<u>292</u>	<u>250 sacks Halliburton 2 plug</u>			
<u>5-1/2"</u>	<u>2241</u>	<u>550 sacks Halliburton 2 Plug</u>			

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 2241 feet, and from _____ feet to _____ feet

DATES

_____, 1958 Put to producing _____, 1958Completed as Blanco-Pictured Cliffs Field Dev. Gas Well. 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. 1865

EMPLOYEES

_____, Driller _____, Driller

CottonCipson, Driller E. E. Estes, DrillerF. J. Buck, Driller J. D. Coleman, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>0</u>	<u>990</u>	<u>990</u>	<u>Surface sand, shale and Animas shale.</u>
<u>990</u>	<u>1093</u>	<u>103</u>	<u>Ojo Alamo sandstone.</u>
<u>1093</u>	<u>1866</u>	<u>773</u>	<u>Kirtland-Farmington sand & shale.</u>
<u>1866</u>	<u>2145</u>	<u>279</u>	<u>Fruitland sands, shales and coals.</u>
<u>2145</u>	<u>2242</u>	<u>97</u>	<u>Pictured Cliffs sandstone.</u>

(OVER)

16-43094-4

FORMATION RECORD—Continued

APPROVED FOR RELEASE BY THE
CENTRAL INTELLIGENCE AGENCY
ON 08-28-2013

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

The information given herein is a complete and correct record of the well and all work done thereon as far as can be determined from all available records.

Signed _____

Location _____ of _____ line of _____

Well No. _____

Inspector or Trust _____ Field _____

Geography _____ Address _____

M. D. Heath "A" Well No. 6 was spudded on February 20, 1958, and on February 21, 1958, 8-5/8" casing was set at 292' with 250 sacks of cement. After waiting on cement for 24 hours, casing and water shut-off were tested with 500 pounds pressure for thirty minutes when held with no drop in pressure.

5-1/2" casing was set at 2221' with 500 sacks of cement and pulled by 50 sacks more. After waiting on cement, casing and water shut-off were tested with 2800 pounds (special test) for thirty minutes, when held with no drop in pressure.

Tested 5-1/2" casing with 2800 pounds, when held ok. Perforated with two 1/2" per foot 2150-2176, 2187-2209. Sand, water packed with 30,000 gallons water, and 40,000 pounds sand. Perforated 5-1/2" casing with 30,000 gallons water, and Dowell L-33 and 30 gallons Dowell M-17 in line treatment. Formation broke at 1000 pounds. Average injection rate of 811.1-1-1/4 tubing landed at 2207'. Plugged with cement, 1000 lbs. cement, 1000 lbs. cement, completed as shut-in. Plugged with cement, 1000 lbs. cement, 1000 lbs. cement, completed as shut-in.

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 "added back" 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 pipes or bridges were put in to test for water, state kind of material used, position, and results of pumping or testing.

HISTORY OF OIL OR GAS WELL

16-43094-2 U. S. GOVERNMENT PRINTING OFFICE

MUDGING AND CEMENTING RECORD			
Time	Weight	Amount of cement	Method used
10:00	100	100	100
11:00	100	100	100
12:00	100	100	100
13:00	100	100	100
14:00	100	100	100
15:00	100	100	100
16:00	100	100	100
17:00	100	100	100
18:00	100	100	100
19:00	100	100	100
20:00	100	100	100
21:00	100	100	100
22:00	100	100	100
23:00	100	100	100
24:00	100	100	100

SHOOTING RECORD			
Time	Weight	Amount of cement	Method used
10:00	100	100	100
11:00	100	100	100
12:00	100	100	100
13:00	100	100	100
14:00	100	100	100
15:00	100	100	100
16:00	100	100	100
17:00	100	100	100
18:00	100	100	100
19:00	100	100	100
20:00	100	100	100
21:00	100	100	100
22:00	100	100	100
23:00	100	100	100
24:00	100	100	100

TOOLS USED			
Time	Weight	Amount of cement	Method used
10:00	100	100	100
11:00	100	100	100
12:00	100	100	100
13:00	100	100	100
14:00	100	100	100
15:00	100	100	100
16:00	100	100	100
17:00	100	100	100
18:00	100	100	100
19:00	100	100	100
20:00	100	100	100
21:00	100	100	100
22:00	100	100	100
23:00	100	100	100
24:00	100	100	100

DATES			
Time	Weight	Amount of cement	Method used
10:00	100	100	100
11:00	100	100	100
12:00	100	100	100
13:00	100	100	100
14:00	100	100	100
15:00	100	100	100
16:00	100	100	100
17:00	100	100	100
18:00	100	100	100
19:00	100	100	100
20:00	100	100	100
21:00	100	100	100
22:00	100	100	100
23:00	100	100	100
24:00	100	100	100

EMPLOYEES			
Time	Weight	Amount of cement	Method used
10:00	100	100	100
11:00	100	100	100
12:00	100	100	100
13:00	100	100	100
14:00	100	100	100
15:00	100	100	100
16:00	100	100	100
17:00	100	100	100
18:00	100	100	100
19:00	100	100	100
20:00	100	100	100
21:00	100	100	100
22:00	100	100	100
23:00	100	100	100
24:00	100	100	100

FORMATION RECORD			
Time	Weight	Amount of cement	Method used
10:00	100	100	100
11:00	100	100	100
12:00	100	100	100
13:00	100	100	100
14:00	100	100	100
15:00	100	100	100
16:00	100	100	100
17:00	100	100	100
18:00	100	100	100
19:00	100	100	100
20:00	100	100	100
21:00	100	100	100
22:00	100	100	100
23:00	100	100	100
24:00	100	100	100