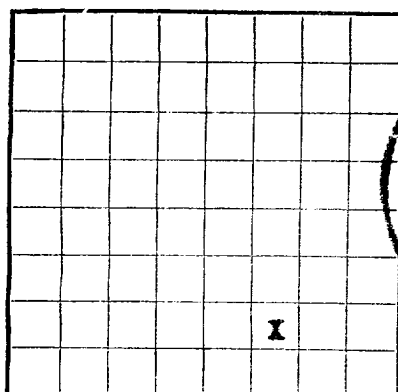


U. S. LAND OFFICE Santa Fe

SERIAL NUMBER SF 078139

LEASE OR PERMIT TO PROSPECT



LOCATE WELL CORRECTLY

RECEIVED
MAY 12 1960
OIL CON. DIST. 3

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 Elliott Gas Unit "K" Field Blanco Pictured State New Mexico
Well No. 1 Sec. 26 T. 30 NR. 9 W. Meridian N.M.P.M. County San Juan
Location 1190 ft. N. of S. Line and 1675 ft. W. of E. Line of Section 26 Elevation 5792 (RDB)
(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 R. M. Bauer, Jr. ORIGINAL SIGNED BYDate May 9, 1960 Title Area Engineer

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

Commenced drilling April 27, 1960 Finished drilling May 2, 1960

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 2479 to 2483(G) No. 4, from _____ to _____No. 2, from 2493 to 2497(G) 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
8-5/8"	210	8 RT	Halliburton	160 sacks of cement	Plug			Surface
4-1/2"	2585	8 RT	Halliburton	650 Sacks of cement	Plug			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"	210	160 sacks of cement	Halliburton 1 Plug		
4-1/2"	2585	650 Sacks of cement	B. J. Service 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 2587 feet, and from _____ feet to _____ feet

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

Completed as shut in Gas Well Blanco DATES Shut in for Pipeline connection
Pictured Cliffs Field Put to producing May 6, 1960

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 _____

Preliminary test 3400 MCFD. (Potential test data will be submitted on Sundry Notices when available.)

EMPLOYEES

George Deal _____, Driller J. D. Coleman _____, Driller

Pete Estes _____, Driller R. H. Wisener _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	210	210	Surface sand and shale.
210	1325	1115	Animas shale and sand.
1325	1430	105	Ojo Alamo sand.
1430	2065	655	Kirtland - Farmington shale and sand.
2065	2475	390	Fruitland shale, sand and coal.
2475	2587	112	Pictured Cliffs sand and shale.
			(Tops from F. Log)

(OVER)

16-48094-4

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOCATE WELL CORRELATION

Development Gas Well May 6, 1960. Preliminary test flowed 3700 MCFD.
Landed 1-1/2" tubing at 2785'. Completed as shut in Blanco fractured Ciffie Field.
2200 psi maximum treating pressure. 2800 psi. Injection rate 35 barrels per minute.
and 70,000 pounds sand. Breakdown pressure 9400 psi at 900 psi. Minimum treating pressure
per foot 2779' - 2783' and 2793' - 2797'. Sandwater tracked with 30,840 gallons water
4-1/2" casing with 3000 psi. Estimated fractured Ciffie with 6 shots
plug back depth 2560'. Swapped hole and injected 250 gallons spearhead acid. Tested
May 2, 1960. Preparing for completion operations.
set for 30 minutes which held with no indication of pressure drop. Released rig on
estimated 60 sacks of cement. After waiting overnight, tested 4-1/2" casing with 2500
containing 1-1/2 pounds turpentine back, followed by 50 sacks neat cement. Circulated
Total depth 2587' - Set 4-1/2" casing at 2585' with 600 sacks 6 percent gel cement
IMPORTANT WATER SANDS

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of relogging, 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", or left in the well, state size and location. If the well has been dynamited, give date, size, position, and number of shots. Hinges or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing. Spudded 12-1/4" hole on April 27, 1960 and drilled to 210'. 8-5/8" casing was set at 210' with 100 sacks of cement containing 2 percent calcium sulphate. Cemented 55 sacks of cement. After waiting on cement tested 8-5/8" casing with 400 psi for 30 minutes, which held with no indication of pressure drop. Reduced hole to 7-7/8" at 210' and resumed drilling operations.

HISTORY OF OIL OR GAS WELL

[illegible]