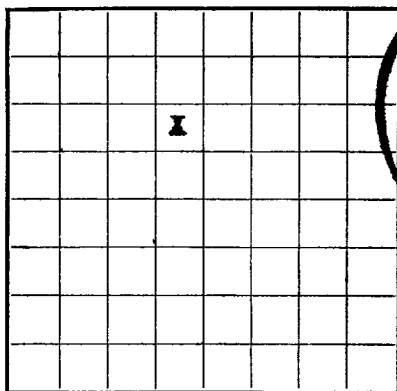
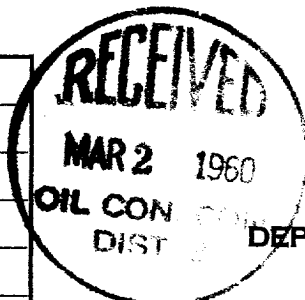




LOCATE WELL CORRECTLY

U. S. LAND OFFICE Navajo Tribal
SERIAL NUMBER 1-89-119-58
LEASE OR PERMIT TO PROSPECT _____UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

RECEIVED

LOG OF OIL OR GAS WELL

Company Pan American Petroleum Corporation Address P. O. Box 487, Farmington, New Mexico
Lessor or Tract USG Section 19 Field Hogback-Dakota State New Mexico
Well No. 19 Sec. 19 T. 29N R. 16W Meridian N.M.P.M. County San Juan
Location 1650 ft. XX of N Line and 2310 ft. XX of W Line of Section 19 Elevation 5157 (SDB)
(Derrick floor relative to base of well)

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 _____ ORIGINAL SIGNED BY R. M. Bauer, Jr.Date February 29, 1960 Title Area Engineer

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

Commenced drilling February 27, 1960 Finished drilling February 24, 1960OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 200 to 810 No. 4, from _____ to _____
No. 2, from 200 to 810 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—	
7 1/2"	23	8HT	J-55	40	Guide				Oil String
4-1/2"	9.5	8HT	J-55	785	Guide				

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
7"	47'	20 sacks of cement	Pan American Plug		
4-1/2"	787'	100 sacks of cement	B J Service 1 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 810 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

Completed as flowing oil well February 24, 1960 Date first new oil produced
Hogback Dakota Field. Potential test Put to producing February 24, 1960
flowed 74 BOPD, 19____

The production for the first 24 hours was 74 barrels of fluid of which 100 % was oil; _____ %
emulsion; _____ % water; and _____ % sediment. Gravity, °Bé. 63.2 API

If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

Fletcher B. Young, Driller _____, Driller
_____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	47	47	Surface sand and shale.
47	650	603	Gallup shale and sand.
650	730	80	Greenhorn shale.
730	782	52	Graneros shale.
782	808	26	Dakota sand and shale.
808	810	2	Dakota pay sand.
(Tops from samples) No electric or radioactive logs were taken on this well.			
FROM—	TO—	TOTAL FEET	FORMATION

EVALUATION RECORD—Continued