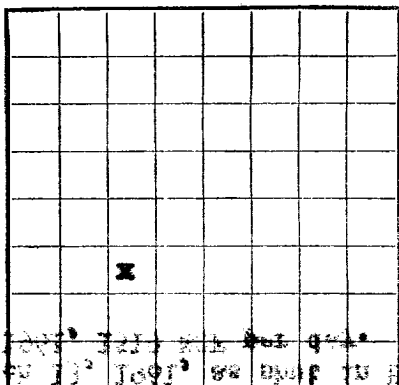


UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYJicarilla Tribal
U. S. LAND OFFICE
Jicarilla Tribal
SERIAL NUMBER Contract 155
LEASE OR PERMIT TO PROSPECT

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY. Run 5-3/4" casing of 20 ft. completed
maximum depth 3000 ft. and placed 1 1/2" casing 1700 ft.
Company Par American Petroleum Corporation Address Box 180, Farmington, New Mexico
Lessor or Tract Jicarilla Contract 155 Field Basin Dakota State New Mexico
Well No. 12 Sec. 32 T. 26N R. 31W Meridian N.M.P.M. County San Arriba
Location 1700 ft. of 3 Line and 1850 ft. of W Line of Section 32 Elevation 6400 (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. Baker, Jr.
Date March 17, 1961 Title Senior Petroleum Engineer

The summary of this page is for the condition of the well at above date.
Commenced drilling January 20, 1961 Finished drilling February 20, 1961

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 0 to 6722 No. 2, from 6722 to 6809
No. 3, from 6809 to 6896 No. 4, from 6896 to 7032
No. 5, from 7032 to 7250

IMPORTANT WATER SANDS
No. 1, from 0 to 6722 No. 2, from 6722 to 6809
No. 3, from 6809 to 6896 No. 4, from 6896 to 7032
No. 5, from 7032 to 7250

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated	Purpose
8-5/8"	20.7	4-1/2"	1-55	7774	Calder			Surface
4-1/2"	9.5#	4-1/2"	1-55	7774	Calder			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"	521	390	Halliburton	1 Plug.	
4-1/2"	7248	875	B. J.	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 0 feet to 7250 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

Completed March 13, 1961, as shut in Basin Dakota Field Development Well.
Shut in for pipeline connection.
Put to producing March 13, 1961

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

Preliminary test. Net per 24 hours 1519 Gallons gasoline per 1,000 cu. ft. of gas _____
Rock pressure, lbs. per sq. in. _____ Potential test will be reported on Sundry
EMPLOYEES when available

_____, Driller
Leon Nestal, Driller
R. D. Davis, Driller
_____, Driller
M. W. McDonald, Driller
D. S. Wisener, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	2712	2712	Undifferentiated sands and shales.
2712	2785	73	Pictured cliffs sands and shales.
2785	4363	1578	Lewis shale.
4363	4575	212	Cliffhouse sand.
4575	4960	385	Menefee sands, shales, and coals.
4960	5125	165	Point Lookout sands and shales.
5125	5970	845	Mancos shale.
5970	6510	540	Gallup sands and shales.
6510	6809	299	Sanaster sands and shales.
6809	6896	87	Greenhorn sands.
6896	7032	136	Graneros sands and shales.
7032	7250	218	Dakota sands and shales.

(Data from E log)

FORMATION RECORD—CONTINUATION

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

A 5x5 grid with a small 'X' in the bottom right corner.

pressure 2900 psi, maximum treating pressure 3000 psi, minimum treating pressure 2400 psi, injection rate 25 barrels per minute. Landed 2-3/8" tubing at 6900'. Completed March 13, 1967, as shut in basin detected on March 13, 1967.

with no indication of pressure drop. Drilled 2 stage tool and cleaned out to 7212'.
second stage with 50 sacks of cement. Pumped plugs with 500 psi water pressure.
Displaced with water. Released at February 19, 1961. Preparing for completion
operations. The information given herewith is a complete and correct record of the well and all work done thereon

with some shale nodules, specks, and globules, and occasional vertical fractures, slight to strong odor throughout.

8-5/8" casing with 400 psi, which held with no indication of pressure drop. Reduced hole to 7-7/8" at 521' and resumed drilling.

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 "sacked", 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 bailing.

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MUDLOGGING AND CEMENTING RECORD			
Amount of mud used	Mud gravity	Mud loss	Number sacks of cement
	1.10	1.10	1.10
	1.10	1.10	1.10

PLUGS AND ADAPTERS			
Blowing plug	Adapter	Length	Diameter

SHOOTING RECORD			
Date	Depth shot	Depth cleared out	Remarks

TOOLS USED			
Rotary tools	Cable tools	Tool joint	Tool joint

DATES			
Start of work	Stop of work	Remarks	Remarks

EMPLOYEES			
Driller	Driller	Driller	Driller

FORMATION RECORD			
FORMATION	TOTAL FEET	TO	FROM
Shale	100	100	100
Sand	100	100	100
Gravel	100	100	100
Clay	100	100	100
Coal	100	100	100
Oil	100	100	100
Gas	100	100	100
Water	100	100	100
Other	100	100	100