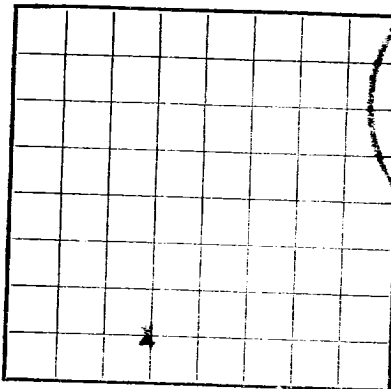


U. S. LAND OFFICE ~~Navajo Tribal~~
SERIAL NUMBER ~~11-20-03-1139~~
LEASE OR PERMIT TO PROSPECT ~~Navajo Tribal~~

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company ~~San American Petroleum Corporation~~ Address ~~Box 130, Farmington, New Mexico~~
Lessor or Tract ~~Navajo Tribal~~ Field ~~Undesignated Gallup~~ State ~~New Mexico~~
Well No. ~~1~~ Sec. ~~22~~ T. ~~29N~~ R. ~~11E~~ Meridian ~~11W~~ County ~~San Juan~~
Location ~~552~~ ft. ~~N.~~ of ~~4~~ Line and ~~1980~~ ft. ~~E.~~ of ~~4~~ Line of ~~Section 22~~ Elevation ~~5610~~ (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.

Date ~~July 19, 1960~~ Signed ~~R. M. Babel~~ Title ~~Area Engineer~~

The summary on this page is for the condition of the well at above date.
Commenced drilling ~~June 21, 1960~~ Finished drilling ~~July 6, 1960~~

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

No. 1, from ~~5225~~ to ~~5235~~ 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—	
8-5/8"	22.7	4 1/2	Joint Amoco	181	Guide				Log
5-1/2"	14	5RT	J-55	54.7	Guide				Oil

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8"	192	110 sacks of cement	S. J. Service 1 1/2		
5-1/2"	5391	210 sacks of cement	Halliburton 2 1/2		

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 ~~0~~ feet to ~~5395~~ feet, and from _____ feet to _____ feet

DATES

~~Completed as flowing oil well Undesignated~~ Put to producing ~~new oil produced~~, 19____
~~Gallup Field July 15, 1960, potential~~ ~~test flowed 147 barrels oil per day.~~ ~~July 14, 1960~~
The production for the first 24 hours was _____ barrels of fluid of which _____ % was oil, _____ %
emulsion; _____ % water; and _____ % sediment. Gravity, °Bé. ~~100~~
If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____
~~Flowing oil well 19/60~~ ~~chokes~~
Rock pressure, lbs. per sq. in. _____

EMPLOYEES

_____, Driller
~~Cotton Simpson~~, Driller
~~H. O. Sherold~~, Driller
_____, Driller
~~James Smith~~, Driller
~~Jackie White~~, Driller

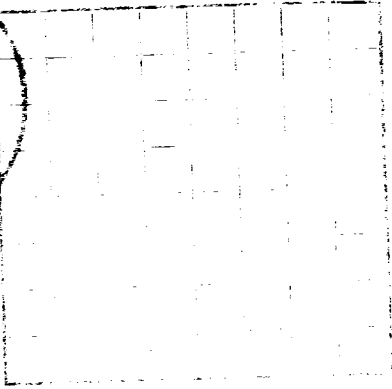
FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	1125	1125	Surface sands and shales including Fruitland and Farmington zones.
1125	1270	145	Pictured Cliffs sands and shales.
1270	2305	1035	Lewis shale.
2305	3900	1595	Mesa Verde sands and shales and coals.
3900	4865	965	Mancos shale.
4865	5175	330	Gallup sands and shale.
5175	5395	200	Gallup pay sands and shales.

(Tops from 3 Log)

LOG OF OIL OR GAS WELL

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
UNITED STATES



Location of well, Township, Range, Section, and other data.

Log of well, including depth, pressure, and other data.

History of the well, including completion, casing, and other data.

HISTORY OF OIL OR GAS WELL

DATE	DESCRIPTION	DEPTH	PRESSURE	TEMPERATURE	OTHER DATA
1931	Drilled to 100 feet	100	100	100	100
1932	Drilled to 200 feet	200	200	200	200
1933	Drilled to 300 feet	300	300	300	300
1934	Drilled to 400 feet	400	400	400	400
1935	Drilled to 500 feet	500	500	500	500
1936	Drilled to 600 feet	600	600	600	600
1937	Drilled to 700 feet	700	700	700	700
1938	Drilled to 800 feet	800	800	800	800
1939	Drilled to 900 feet	900	900	900	900
1940	Drilled to 1000 feet	1000	1000	1000	1000
1941	Drilled to 1100 feet	1100	1100	1100	1100
1942	Drilled to 1200 feet	1200	1200	1200	1200
1943	Drilled to 1300 feet	1300	1300	1300	1300
1944	Drilled to 1400 feet	1400	1400	1400	1400
1945	Drilled to 1500 feet	1500	1500	1500	1500
1946	Drilled to 1600 feet	1600	1600	1600	1600
1947	Drilled to 1700 feet	1700	1700	1700	1700
1948	Drilled to 1800 feet	1800	1800	1800	1800
1949	Drilled to 1900 feet	1900	1900	1900	1900
1950	Drilled to 2000 feet	2000	2000	2000	2000
1951	Drilled to 2100 feet	2100	2100	2100	2100
1952	Drilled to 2200 feet	2200	2200	2200	2200
1953	Drilled to 2300 feet	2300	2300	2300	2300
1954	Drilled to 2400 feet	2400	2400	2400	2400
1955	Drilled to 2500 feet	2500	2500	2500	2500
1956	Drilled to 2600 feet	2600	2600	2600	2600
1957	Drilled to 2700 feet	2700	2700	2700	2700
1958	Drilled to 2800 feet	2800	2800	2800	2800
1959	Drilled to 2900 feet	2900	2900	2900	2900
1960	Drilled to 3000 feet	3000	2900	2800	2700
1961	Drilled to 3100 feet	3100	2800	2700	2600
1962	Drilled to 3200 feet	3200	2700	2600	2500
1963	Drilled to 3300 feet	3300	2600	2500	2400
1964	Drilled to 3400 feet	3400	2500	2400	2300
1965	Drilled to 3500 feet	3500	2400	2300	2200
1966	Drilled to 3600 feet	3600	2300	2200	2100
1967	Drilled to 3700 feet	3700	2200	2100	2000
1968	Drilled to 3800 feet	3800	2100	2000	1900
1969	Drilled to 3900 feet	3900	2000	1900	1800
1970	Drilled to 4000 feet	4000	1900	1800	1700
1971	Drilled to 4100 feet	4100	1800	1700	1600
1972	Drilled to 4200 feet	4200	1700	1600	1500
1973	Drilled to 4300 feet	4300	1600	1500	1400
1974	Drilled to 4400 feet	4400	1500	1400	1300
1975	Drilled to 4500 feet	4500	1400	1300	1200
1976	Drilled to 4600 feet	4600	1300	1200	1100
1977	Drilled to 4700 feet	4700	1200	1100	1000
1978	Drilled to 4800 feet	4800	1100	1000	900
1979	Drilled to 4900 feet	4900	1000	900	800
1980	Drilled to 5000 feet	5000	900	800	700
1981	Drilled to 5100 feet	5100	800	700	600
1982	Drilled to 5200 feet	5200	700	600	500
1983	Drilled to 5300 feet	5300	600	500	400
1984	Drilled to 5400 feet	5400	500	400	300
1985	Drilled to 5500 feet	5500	400	300	200
1986	Drilled to 5600 feet	5600	300	200	100
1987	Drilled to 5700 feet	5700	200	100	0
1988	Drilled to 5800 feet	5800	100	0	0
1989	Drilled to 5900 feet	5900	0	0	0
1990	Drilled to 6000 feet	6000	0	0	0
1991	Drilled to 6100 feet	6100	0	0	0
1992	Drilled to 6200 feet	6200	0	0	0
1993	Drilled to 6300 feet	6300	0	0	0
1994	Drilled to 6400 feet	6400	0	0	0
1995	Drilled to 6500 feet	6500	0	0	0
1996	Drilled to 6600 feet	6600	0	0	0
1997	Drilled to 6700 feet	6700	0	0	0
1998	Drilled to 6800 feet	6800	0	0	0
1999	Drilled to 6900 feet	6900	0	0	0
2000	Drilled to 7000 feet	7000	0	0	0
2001	Drilled to 7100 feet	7100	0	0	0
2002	Drilled to 7200 feet	7200	0	0	0
2003	Drilled to 7300 feet	7300	0	0	0
2004	Drilled to 7400 feet	7400	0	0	0
2005	Drilled to 7500 feet	7500	0	0	0
2006	Drilled to 7600 feet	7600	0	0	0
2007	Drilled to 7700 feet	7700	0	0	0
2008	Drilled to 7800 feet	7800	0	0	0
2009	Drilled to 7900 feet	7900	0	0	0
2010	Drilled to 8000 feet	8000	0	0	0
2011	Drilled to 8100 feet	8100	0	0	0
2012	Drilled to 8200 feet	8200	0	0	0
2013	Drilled to 8300 feet	8300	0	0	0
2014	Drilled to 8400 feet	8400	0	0	0
2015	Drilled to 8500 feet	8500	0	0	0
2016	Drilled to 8600 feet	8600	0	0	0
2017	Drilled to 8700 feet	8700	0	0	0
2018	Drilled to 8800 feet	8800	0	0	0
2019	Drilled to 8900 feet	8900	0	0	0
2020	Drilled to 9000 feet	9000	0	0	0
2021	Drilled to 9100 feet	9100	0	0	0
2022	Drilled to 9200 feet	9200	0	0	0
2023	Drilled to 9300 feet	9300	0	0	0
2024	Drilled to 9400 feet	9400	0	0	0
2025	Drilled to 9500 feet	9500	0	0	0
2026	Drilled to 9600 feet	9600	0	0	0
2027	Drilled to 9700 feet	9700	0	0	0
2028	Drilled to 9800 feet	9800	0	0	0
2029	Drilled to 9900 feet	9900	0	0	0
2030	Drilled to 10000 feet	10000	0	0	0