

A 10x10 grid with a small black 'X' mark in the 4th column and 8th row.

RECEIVED

U. S. LAND OFFICE **Las Cruces**
SERIAL NUMBER **LC 062422**
LEASE OR PERMIT TO PROSPECT

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

JUL 28 1999

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company ~~Pan American Petroleum Corporation~~ Address ~~Box 68 - Hobbs, New Mexico~~
Lessor or Tract ~~Malco Refineries F~~ Field ~~Empire Abo~~ State ~~New Mexico~~
Well No. ~~6~~ Sec. ~~1~~ T. ~~14N~~ R. ~~27E~~ Meridian ~~10NPM~~ County ~~Eddy~~
Location ~~660~~ ft. ~~NE~~ of ~~E~~ Line and ~~1980~~ ft. ~~SE~~ of ~~E~~ Line of ~~Section 1~~ Elevation ~~3652 RDM~~

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
J. W. BROWN

Date July 13, 1959 Title Area Superintendent

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

Commenced drilling 6-3-59, 19____ Finished drilling 3-3-60, 19____

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from ~~595A~~ to ~~602B~~ 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	24	8	1-55	1695	Float		5975	5980	Surf zone
4-1/2	24	8	1-55	6044	Float		5980	5990	Surf zone
							6000	6010	w/2 shots per foot

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8	1490	750	Howee		
4-1/2	6078	700	Howee		

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 Surface feet to 6078 feet, and from _____ feet to _____ feet

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

DATES

Completed 7-7059	19	Put to producing	7-6-59	19
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The production for the first 24 hours was 75 barrels of fluid of which 100 % was oil; ----- % emulsion; ----- % water; and ----- % sediment. Gravity, °Bé. 42.8

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

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

E.D. Blackledge		EMPLOYEES		R.B. Sims	
-----	, Driller	-----	, Driller	-----	, Driller
E.E. Foster				W.H. Boyd	
-----	, Driller	-----		-----	, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	516	516	Surface Red Bed Anhy.
516	1420	904	Anhy.
420	1916	496	Sand
916	2109	193	Anhy. line
109	2159	50	Lime
159	2360	201	Sand line
360	2785	425	Lime
785	3390	605	Sand line
390	4037	627	Lime
037	4188	151	Sand line
388	4848	660	Lime
848	5026	178	Dolomite line
026	5236	210	Dolomite
236	5270	34	Dolomite line
270	5324	54	Dolomite line
324	5409	85	Dolomite line
409	5437	28	Dolomite
437	5760	323	Lime
760	5776	16	Dolomite line
776	6078	302	Lime

TOPS

Queen	1062
San Andres	1845
Glorieta	3365
Abbe Pay	5714

ARTESIA DISTRICT OFFICE

CONSERVATION COMMISSION

Notes Received

2

DISTRIBUTION

FOR

FILE

COM. CHIEF

AND OFFICE

ORDER

OF FILES

[OVER]

16-43094-4

[illegible]

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

82 JUL

Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains. The concentration of the *Agrobacterium* suspension was 10⁶ cells/ml (A), 10⁷ cells/ml (B), 10⁸ cells/ml (C), and 10⁹ cells/ml (D). The concentration of the *Agrobacterium* suspension was 10⁶ cells/ml (A), 10⁷ cells/ml (B), 10⁸ cells/ml (C), and 10⁹ cells/ml (D). The concentration of the *Agrobacterium* suspension was 10⁶ cells/ml (A), 10⁷ cells/ml (B), 10⁸ cells/ml (C), and 10⁹ cells/ml (D).

This image shows a full page of graph paper. It features a uniform grid of small squares across the entire surface. The lines are thin and dark, creating a standard coordinate plane template. There are no margins, text, or other markings on the paper.

ANNUAL REPORT OF THE STATE GEOLOGICAL SURVEY
OF CALIFORNIA
FOR THE YEAR 1907

1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357</
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SECRET

Well was drilled to TD of 6078 and perforated 5954-64, 5980-90, 6000-28 w/2 shots per foot and acidized w/2,500 gallons 15% regular acid. On test, well flowed 78 BO, .78 MCF gas, no water, on 10/64" choke in 24 hrs., GOR 10, TFP

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 "sidetracked" 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 balling of shots.

HISTORY OF OIL OR GAS WELL

[illegible]

1531-6107

FORMATION RECORD—Continued