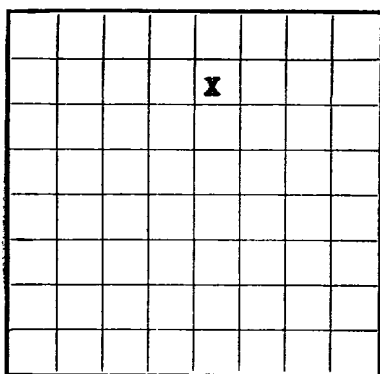


U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 079319
LEASE OR PERMIT TO PROSPECT _____



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company El Paso Natural Gas Company Address Box 997, Farmington, New Mexico
Lessor or Tract Schwerdtfeger Field So. Blanco P.C. State New Mexico
Well No. 2-A Sec. 21 T. 27N R. 8W Meridian NNPM County San Juan
Location 800 ft. S. of N Line and 2200 ft. W. of E Line of Section 21 Elevation 6316'

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 D. C. Johnston

Date December 2, 1955 Title Petroleum Engineer

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

Commenced drilling ----- **October 9** -----, 19**55** Finished drilling ----- **October 26** -----, 19**55**

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 2388 to 2455 G 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	Mkks.	Y. Amount	Kind of shoe	Cut and galled from	Perforated		Purpose
							From—	To—	
9 5/8"	25.4#	P.E.	S.W.	122'	Howco				Surface
7 1/2"	20#	8 RD	Std. Blk.	243'					Producing
1"	1.68#	10 RD	Std. Blk.	243'					Prod. Tub

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
9 5/8"	133'	100	Circulated		
7"	2389'	100	Single Stage		

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
		See Well History.				

TOOLS USED

Rotary tools were used from 0 feet to 2389 feet, and from _____ feet to _____ feet
Cable tools were used from 2389 feet to 2467 feet, and from _____ feet to _____ feet

DATES

October 30, 1955 Put to producing _____, 19____

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 8,332,000 Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. 811

EMPLOYEES

_____, Driller _____, Driller
_____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	441	441	Tan cr-grn ss w/thin sh breaks.
441	810	369	Variegated sh w/thin sh breaks.
810	1382	572	Tan to gry cr-grn ss interbedded w/gry sh.
1382	1440	58	Ojo Alamo ss. White cr-grn s.
1440	2107	667	Kirtland form. Gry sh interbedded w/tight gry fine-grn ss.
2107	2388	281	Fruitland form. Gry carb sh, scattered coals coals and gry, tight, fine-grn ss.
2388	2455	67	Pictured Cliffs form. Gry, fine-grn, tight, varicolored soft ss.
2455	2460 T.D.	5	Leas formation. Gry to white dense sh w/silty to shaly ss breaks.

[illegible]

LOG OF OIL OR GAS WELL

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

UNITED STATES

PLEASE OR FORWARD TO DIRECTOR
BUREAU OF NATIONAL AFFAIRS
U. S. DEPARTMENT OF THE INTERIOR

APB-02a (01/01/00) - 10-01-00
APB-02b (01/01/00) - 10-01-00

Name of Person or Firm _____
 Address _____
 City _____ State _____
 County _____
 Zip _____
 Telephone _____
 Name of Person or Firm _____
 Address _____
 City _____ State _____
 County _____
 Zip _____
 Telephone _____

The information given herewith is a complete and correct record of the work and all work done thereon.
Signed _____
Special Agent in Charge

“The condition of the well at above date.”

OIL OR GAS SANDS OR ZONES

(The case was by 1)

[illegible]

IMPORTANT WATER SANDS

10-28962 d. 23801 - Water treatment plant used. Greatly reduced water and \$8,500 saved. Provided pressure 1100 psi down casing with 40,500 gallons water and 58,500 gal. Maximum treating pressure 900 psi. Average flow rate 55.4 bbl./min. Flush 4300 gallons. Natural gas 860 MCF/D.

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, 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 balling.

HISTORY OF OIL OR GAS WELL

16-43094-2 U. S. GOVERNMENT PRINTING OFFICE

BUDDING AND CEMENTING RECORD

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	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368</
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SHOOTING RECORD

Year	Production	Consumption	Exports	Imports	Stocks
1950	100	100	0	0	0
1951	100	100	0	0	0
1952	100	100	0	0	0
1953	100	100	0	0	0
1954	100	100	0	0	0
1955	100	100	0	0	0
1956	100	100	0	0	0
1957	100	100	0	0	0
1958	100	100	0	0	0
1959	100	100	0	0	0
1960	100	100	0	0	0
1961	100	100	0	0	0
1962	100	100	0	0	0
1963	100	100	0	0	0
1964	100	100	0	0	0
1965	100	100	0	0	0
1966	100	100	0	0	0
1967	100	100	0	0	0
1968	100	100	0	0	0
1969	100	100	0	0	0
1970	100	100	0	0	0
1971	100	100	0	0	0
1972	100	100	0	0	0
1973	100	100	0	0	0
1974	100	100	0	0	0
1975	100	100	0	0	0
1976	100	100	0	0	0
1977	100	100	0	0	0
1978	100	100	0	0	0
1979	100	100	0	0	0
1980	100	100	0	0	0
1981	100	100	0	0	0
1982	100	100	0	0	0
1983	100	100	0	0	0
1984	100	100	0	0	0
1985	100	100	0	0	0
1986	100	100	0	0	0
1987	100	100	0	0	0
1988	100	100	0	0	0
1989	100	100	0	0	0
1990	100	100	0	0	0
1991	100	100	0	0	0
1992	100	100	0	0	0
1993	100	100	0	0	0
1994	100	100	0	0	0
1995	100	100	0	0	0
1996	100	100	0	0	0
1997	100	100	0	0	0
1998	100	100	0	0	0
1999	100	100	0	0	0
2000	100	100	0	0	0
2001	100	100	0	0	0
2002	100	100	0	0	0
2003	100	100	0	0	0
2004	100	100	0	0	0
2005	100	100	0	0	0
2006	100	100	0	0	0
2007	100	100	0	0	0
2008	100	100	0	0	0
2009	100	100	0	0	0
2010	100	100	0	0	0
2011	100	100	0	0	0
2012	100	100	0	0	0
2013	100	100	0	0	0
2014	100	100	0	0	0
2015	100	100	0	0	0
2016	100	100	0	0	0
2017	100	100	0	0	0
2018	100	100	0	0	0
2019	100	100	0	0	0
2020	100	100	0	0	0
2021	100	100	0	0	0

0123 21007

at foot	most bar bed	at foot	most bar bed
at foot	most bar bed	at foot	most bar bed

23740

[illegible]

Summary

[illegible]

FORMATION RECORD

FORM 100-10	TOTAL TIME	DATE	TIME
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1. The first of these is the fact that the	1	1	1
2. The second is the fact that the	2	2	2
3. The third is the fact that the	3	3	3
4. The fourth is the fact that the	4	4	4
5. The fifth is the fact that the	5	5	5
6. The sixth is the fact that the	6	6	6
7. The seventh is the fact that the	7	7	7
8. The eighth is the fact that the	8	8	8
9. The ninth is the fact that the	9	9	9
10. The tenth is the fact that the	10	10	10

[illegible][illegible][illegible]

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466
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FROM	TO	TOTAL FEET	FORMATION

FORMATION RECORD—Continued