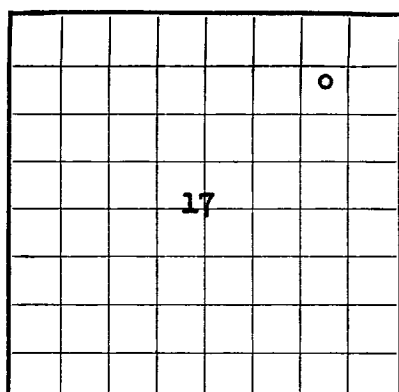


U. S. LAND OFFICE Santa FeSERIAL NUMBER SF 078511

LEASE OR PERMIT TO PROSPECT



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

RECEIVED
AUG 13 1958
U. S. GEOLOGICAL SURVEY
ALBUQUERQUE, NEW MEXICOCompany Southern Union Gas Company Address 1001 Burt Bldg., Dallas, Texas
Lessor or Tract Quinn Field Blanco MV State New Mexico
Well No. 7 Sec. 17 T. 31N R. 8W Meridian N.M.P.M. County San Juan
Location 810 ft. N. of N. Line and 990 ft. E. of E. Line of Section 17 Elevation 6507
(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 L. S. Muennink Title Exploration Engineer
Date August 13, 1958

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

Commenced drilling 6-9-, 1958 Finished drilling 7-4-, 1958

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 5836 to 6016 (G) No. 4, from _____ to _____
No. 2, from 5316 to 5546 (G) 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—	
10-3/4	32.75	8RD	H-40	200'					Surface Production
7-5/8	25.12	8RD	J-55	3574.61'					
5-1/2	15.54	8RD	J-55	2696.86'					

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10-3/4	200'	175	Halliburton		
7-5/8	3569' KB	200	Halliburton		
5-1/2	3380-6081' KB	265	Halliburton		
2"	6025'				

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
Perf. 5996-6016, 5941-5951, 5886-5896, 5896-5896					fraced with 117, 264 gals. water,	
100,000# sand, dropped 200 rubber balls, IR 45 BPM.						
Perf. 5316-5386, 5456-5481, 5526-5546					fraced with 83, 580 gals. water, 100,000# sand,	
dropped 200 rubber balls, IR 44.6 BPM.						

TOOLS USED

Rotary tools were used from -0- feet to 3569 w/mud feet, and from 3569 feet to 6083 w/gas feet

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

DATES

_____ 7-13-, 1958 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 6176 MCF Gallons gasoline per 1,000 cu. ft. of gas _____Rock pressure, lbs. per sq. in. 1092#/7 days

EMPLOYEES

Gardner Bros. Drilling Co., Driller C. W. Flemmons, DrillerM. M. Barnes, Driller M. W. Barbee, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
-0-	45	45	Shale
45	128	83	Sand & shale
128	203	75	Sandstone
203	597	394	Shale
597	1250	653	Sand & shale
1250	1399	149	Shale
1399	2580	1181	Shale & sand
2580	2635	55	Shale
2635	2850	215	Shale & sand
2850	2914	64	Shale
2914	3098	184	Shale & sand
3098	3130	32	Coal & shale
3130	3328	198	Sand, shale & coal
3328	3359	31	Shale & sand
3359	3569	210	Shale, sand & coal
3569	4070	501	Shale
4070	5247	1177	Sand & shale
5247	5384	137	Sand
5384	6083 TD	699	Sand & shale
TOPS: Pictured Cliffs 3383			
Cliff House 5325			
Point Lookout 5693			

(OVER)

FORMATION RECORD

U.S. Land Office
General Register
Washington, D.C.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BIOLOGICAL SURVEY

FOR OFFICIAL USE ONLY

[illegible]

Continued on page 10

OIL OR GAS SANDS OR ZONES

(B) 10/2003 0-189(1)

RECEIVED

IMPORTANT WATER SANDS

No. 8 from
 No. 4 from

CASTLETON RECORD

Year	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
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	

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of reworking, 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 "struck" 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 piers or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

HISTORY OF OIL OR GAS WELL

16-48094-2 U. S. GOVERNMENT PRINTING OFFICE

[illegible]

PLUGS AND ADAPTERS

.....		
Depth set	Length	Blowing plug / Ventral
.....		Abdomen / Ventrals

SHOOTING RECORD

[illegible]

BOOTS USED

[illegible]

DATE

[illegible]

23/10/1963

.....	Dollars	O. H. Thompson
.....	Dollars	M. H. Thompson

FORMATION RECORD

FROM	TO	TOTAL FEET	FORMATION
0-10	10	10	Gravel
10-20	20	20	Sand & gravel
20-30	30	30	Gravel
30-40	40	40	Sand & gravel
40-50	50	50	Gravel
50-60	60	60	Sand & gravel
60-70	70	70	Gravel
70-80	80	80	Sand & gravel
80-90	90	90	Gravel
90-100	100	100	Sand & gravel
100-110	110	110	Gravel
110-120	120	120	Sand & gravel
120-130	130	130	Gravel
130-140	140	140	Sand & gravel
140-150	150	150	Gravel
150-160	160	160	Sand & gravel
160-170	170	170	Gravel
170-180	180	180	Sand & gravel
180-190	190	190	Gravel
190-200	200	200	Sand & gravel
200-210	210	210	Gravel
210-220	220	220	Sand & gravel
220-230	230	230	Gravel
230-240	240	240	Sand & gravel
240-250	250	250	Gravel
250-260	260	260	Sand & gravel
260-270	270	270	Gravel
270-280	280	280	Sand & gravel
280-290	290	290	Gravel
290-300	300	300	Sand & gravel
300-310	310	310	Gravel
310-320	320	320	Sand & gravel
320-330	330	330	Gravel
330-340	340	340	Sand & gravel
340-350	350	350	Gravel
350-360	360	360	Sand & gravel
360-370	370	370	Gravel
370-380	380	380	Sand & gravel
380-390	390	390	Gravel
390-400	400	400	Sand & gravel
400-410	410	410	Gravel
410-420	420	420	Sand & gravel
420-430	430	430	Gravel
430-440	440	440	Sand & gravel
440-450	450	450	Gravel
450-460	460	460	Sand & gravel
460-470	470	470	Gravel
470-480	480	480	Sand & gravel
480-490	490	490	Gravel
490-500	500	500	Sand & gravel
500-510	510	510	Gravel
510-520	520	520	Sand & gravel
520-530	530	530	Gravel
530-540	540	540	Sand & gravel
540-550	550	550	Gravel
550-560	560	560	Sand & gravel
560-570	570	570	Gravel
570-580	580	580	Sand & gravel
580-590	590	590	Gravel
590-600	600	600	Sand & gravel
600-610	610	610	Gravel
610-620	620	620	Sand & gravel
620-630	630	630	Gravel
630-640	640	640	Sand & gravel
640-650	650	650	Gravel
650-660	660	660	Sand & gravel
660-670	670	670	Gravel
670-680	680	680	Sand & gravel
680-690	690	690	Gravel
690-700	700	700	Sand & gravel
700-710	710	710	Gravel
710-720	720	720	Sand & gravel
720-730	730	730	Gravel
730-740	740	740	Sand & gravel
740-750	750	750	Gravel
750-760	760	760	Sand & gravel
760-770	770	770	Gravel
770-780	780	780	Sand & gravel
780-790	790	790	Gravel
790-800	800	800	Sand & gravel
800-810	810	810	Gravel
810-820	820	820	Sand & gravel
820-830	830	830	Gravel
830-840	840	840	Sand & gravel
840-850	850	850	Gravel
850-860	860	860	Sand & gravel
860-870	870	870	Gravel
870-880	880	880	Sand & gravel
880-890	890	890	Gravel
890-900	900	900	Sand & gravel
900-910	910	910	Gravel
910-920	920	920	Sand & gravel
920-930	930	930	Gravel
930-940	940	940	Sand & gravel
940-950	950	950	Gravel
950-960	960	960	Sand & gravel
960-970	970	970	Gravel
970-980	980	980	Sand & gravel
980-990	990	990	Gravel
990-1000	1000	1000	Sand & gravel
1000-1010	1010	1010	Gravel
1010-1020	1020	1020	Sand & gravel
1020-1030	1030	1030	Gravel
1030-1040	1040	1040	Sand & gravel
1040-1050	1050	1050	Gravel
1050-1060	1060	1060	Sand & gravel
1060-1070	1070	1070	Gravel
1070-1080	1080	1080	Sand & gravel
1080-1090	1090	1090	Gravel
1090-1100	1100	1100	Sand & gravel
1100-1110	1110	1110	Gravel
1110-1120	1120	1120	Sand & gravel
1120-1130	1130	1130	Gravel
1130-1140	1140	1140	Sand & gravel
1140-1150	1150	1150	Gravel
1150-1160	1160	1160	Sand & gravel
1160-1170	1170	1170	Gravel
1170-1180	1180	1180	Sand & gravel
1180-1190	1190	1190	Gravel
1190-1200	1200	1200	Sand & gravel
1200-1210	1210	1210	Gravel
1210-1220	1220	1220	Sand & gravel
1220-1230	1230	1230	Gravel
1230-1240	1240	1240	Sand & gravel
1240-1250	1250	1250	Gravel
1250-1260	1260	1260	Sand & gravel
1260-1270	1270	1270	Gravel
1270-1280	1280	1280	Sand & gravel
1280-1290	1290	1290	Gravel
1290-1300	1300	1300	Sand & gravel
1300-1310	1310	1310	Gravel
1310-1320	1320	1320	Sand & gravel
1320-1330	1330	1330	Gravel
1330-1340	1340	1340	Sand & gravel
1340-1350	1350	1350	Gravel
1350-1360	1360	1360	Sand & gravel
1360-1370	1370	1370	Gravel
1370-1380	1380	1380	Sand & gravel
1380-1390	1390	1390	Gravel
1390-1400	1400	1400	Sand & gravel
1400-1410	1410	1410	Gravel
1410-1420	1420	1420	Sand & gravel
1420-1430	1430	1430	Gravel
1430-1440	1440	1440	Sand & gravel
1440-1450	1450	1450	Gravel
1450-1460	1460	1460	Sand & gravel
1460-1470	1470	1470	Gravel
1470-1480	1480	1480	Sand & gravel
1480-1490	1490	1490	Gravel
1490-1500	1500	1500	Sand & gravel
1500-1510	1510	1510	Gravel
1510-1520	1520	1520	Sand & gravel
1520-1530	1530	1530	Gravel
1530-1540	1540	1540	Sand & gravel
1540-1550	1550	1550	Gravel
1550-1560	1560	1560	Sand & gravel
1560-1570	1570	1570	Gravel
1570-1580	1580	1580	Sand & gravel
1580-1590	1590	1590	Gravel
1590-1600	1600	1600	Sand & gravel
1600-1610	1610	1610	Gravel
1610-1620	1620	1620	Sand & gravel
1620-1630	1630	1630	Gravel
1630-1640	1640	1640	Sand & gravel
1640-1650	1650	1650	Gravel
1650-1660	1660	1660	Sand & gravel
1660-1670	1670	1670	Gravel
1670-1680	1680	1680	Sand & gravel
1680-1690	1690	1690	Gravel
1690-1700	1700	1700	Sand & gravel
1700-1710	1710	1710	Gravel
1710-1720	1720	1720	Sand & gravel
1720-1730	1730	1730	Gravel
1730-1740	1740	1740	Sand & gravel
1740-1750	1750	1750	Gravel
1750-1760	1760	1760	Sand & gravel
1760-1770	1770	1770	Gravel
1770-1780	1780	1780	Sand & gravel
1780-1790	1790	1790	Gravel
1790-1800	1800	1800	Sand & gravel
1800-1810	1810	1810	Gravel
1810-1820	1820	1820	Sand & gravel
1820-1830	1830	1830	Gravel
1830-1840	1840	1840	Sand & gravel
1840-1850	1850	1850	Gravel
1850-1860	1860	1860	Sand & gravel
1860-1870	1870	1870	Gravel
1870-1880	1880	1880	Sand & gravel
1880-1890	1890	1890	Gravel
1890-1900	1900	1900	Sand & gravel
1900-1910	1910	1910	Gravel
1910-1920	1920	1920	Sand & gravel
1920-1930	1930	1930	Gravel
1930-1940	1940	1940	Sand & gravel
1940-1950	1950	1950	Gravel
1950-1960	1960	1960	Sand & gravel
1960-1970	1970	1970	Gravel
1970-1980	1980	1980	Sand & gravel
1980-1990	1990	1990	Gravel
1990-2000	2000	2000	Sand & gravel
2000-2010	2010	2010	Gravel
2010-2020	2020	2020	Sand & gravel
2020-2030	2030	2030	Gravel
2030-2040	2040	2040	Sand & gravel
2040-2050	2050	2050	Gravel
2050-2060	2060	2060	Sand & gravel
2060-2070	2070	2070	Gravel
2070-2080	2080	2080	Sand & gravel
2080-2090	2090	2090	Gravel
2090-2100	2100	2100	Sand & gravel
2100-2110	2110	2110	Gravel
2110-2120	2120	2120	Sand & gravel
2120-2130	2130	2130	Gravel
2130-2140	2140	2140	Sand & gravel
2140-2150	2150	2150	Gravel
2150-2160	2160	2160	Sand & gravel
2160-2170	2170	2170	Gravel
2170-2180	2180	2180	Sand & gravel
2180-2190	2190	2190	Gravel
2190-2200	2200	2200	Sand & gravel
2200-2210	2210	2210	Gravel
2210-2220	2220	2220	Sand & gravel
2220-2230	2230	2230	Gravel
2230-2240	2240	2240	Sand & gravel
2240-2250	2250	2250	Gravel
2250-2260	2260	2260	Sand & gravel
2260-2270	2270	2270	Gravel
2270-2280	2280	2280	Sand & gravel
2280-2290	2290	2290	Gravel
2290-2300	2300	2300	Sand & gravel
2300-2310	2310	2310	Gravel
2310-2320	2320	2320	Sand & gravel
2320-2330	2330	2330	Gravel
2330-2340	2340	2340	Sand & gravel
2340-2350	2350	2350	Gravel
2350-2360	2360	2360	Sand & gravel
2360-2370	2370	2370	Gravel
2370-2380	2380	2380	Sand & gravel
2380-2390	2390	2390	Gravel
2390-2400	2400	2400	Sand & gravel
2400-2410	2410	2410	Gravel
2410-2420	2420	2420	Sand & gravel
2420-2430	2430	2430	Gravel
2430-2440	2440	2440	Sand & gravel
2440-2450	2450	2450	Gravel
2450-2460	2460	2460	Sand & gravel
2460-2470	2470	2470	Gravel
2470-2480	2480	2480	Sand & gravel
2480-2490	2490	2490	Gravel
2490-2500	2500	2500	Sand & gravel
2500-2510	2510	2510	Gravel
2510-2520	2520	2520	Sand & gravel
2520-2530	2530	2530	Gravel
2530-2540	2540	2540	Sand & gravel
2540-2550	2550	2550	Gravel
2550-2560	2560	2560	Sand & gravel
2560-2570	2570	2570	Gravel
2570-2580	2580	2580	Sand & gravel
2580-2590	2590	2590	Gravel
2590-2600	2600	2600	Sand & gravel
2600-2610	2610	2610	Gravel
2610-2620	2620	2620	Sand & gravel
2620-2630	2630	2630	Gravel
2630-2640	2640	2640	Sand & gravel
2640-2650	2650	2650	Gravel
2650-2660	2660	2660	Sand & gravel
2660-2670	2670	2670	Gravel
2670-2680	2680	2680	Sand & gravel
2680-2690	2690	2690	Gravel
2690-2700	2700	2700	Sand & gravel
2700-2710	2710	2710	Gravel
2710-2720	2720	2720	Sand & gravel
2720-2730	2730	2730	Gravel
2730-2740	2740	2740	Sand & gravel
2740-2750	2750	2750	Gravel
2750-2760	2760	2760	Sand & gravel
2760-2770	2770	2770	Gravel
2770-2780	2780	2780	Sand & gravel
2780-2790	2790	2790	Gravel
2790-2800	2800	2800	Sand & gravel
2800-2810	2810	2810	Gravel
2810-2820	2820	2820	Sand & gravel
2820-2830	2830	2830	Gravel
2830-2840	2840	2840	Sand & gravel
2840-2850	2850	2850	Gravel
2850-2860	2860	2860	Sand & gravel
2860-2870	2870	2870	Gravel
2870-2880			

FORMATION RECORD—Continued