

1051015314	3156	200	33	White lime - reduced from 10" to 8 1/2" hole 3228'
1051565314	3179	50	23	Broken Line (30ft) - oil from 3248' to 3250'
105179 478	3200	500	21	White lime - reduced from 10" to 8 1/2" hole 3228'
3200	3248		48	Broken Line (30ft) - oil from 3248' to 3250'
3248	3251			White lime - reduced from 10" to 8 1/2" hole 3228'
3251	3294			White lime - reduced from 10" to 8 1/2" hole 3228'
3297	3331		34	Gray Lims - 200 bbl. oil in 4 hours 3325' - 3331'

HISTORY OF OIL OR GAS WELL

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of reaming, 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 "snatched" or left in the well, give date 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.

Well was reworked on noon of July 31st, 1928 and 19" of 20" surface casing was set, operations were then shut down until August 15th waiting for water well to be completed. August 16th and 17th were shut down waiting for 15 1/2" casing and on August 18th 20" casing was set at 94'. On August 21st encountered a white water sand from 285' to 440' and at 360' had a HW. On August 23rd 15 1/2" casing was set at 449' with 200 sax cement, while trying to raise the 15 1/2" pipe to obtain circulation the rig front was pulled out. The cement was then bailed out of the hole. On August 24th 15 1/2" casing was set at 449' with 200 sax cement, while trying to raise the 15 1/2" pipe to obtain circulation the rig front was pulled out. The cement was then bailed out of the hole. On August 24th 15 1/2" casing was set at 449' with 200 sax cement, while trying to raise the 15 1/2" pipe to obtain circulation the rig front was pulled out. The cement was then bailed out of the hole.

On September 1st lost tools but fished same out the following day. On September 16th encountered white water sand from 920' to 930', and also had a small gas show at 935' in Red Rock. On September 27th set 12 1/2" casing at 955'. On September 26th lost bit and part of stem in hole and fished same out on September 28th. On October 13th ran 10" casing and set same at 2974' S.L.M. The 10" casing was set with 75 sax cement on October 16th and operations were shut down waiting for cement to set until October 19th when cement was drilled out. On October 23rd had a very slight show oil from 3040' to 3042' and on October 25th had another small show oil from 3098' to 3101' with free oil again showing at 3100'. Hole was reduced from 10" to 8 1/2" on October 28th and the following day had a gas show of 1/2 million of gas at 3233' and shot down for orders during this period master gate was installed and boiler moved back, drilling was resumed on November 2nd and an increase of gas was obtained at 3248'. The following day the hole was filling with oil from 3248' to 3250' which was a very soft broken line formation, the show down operations for orders on November 6th. On November 11th a steam casing was set at 3248' and the hole was straight reamed, hole was knocked the bit but bit was fished out same day. On November 12th pulled out of the 12 1/2" casing including the shoe, and the following day was reamed in at 236'. On November 15th swabbed down to within 700' of bottom and had a show of water. On November 22nd under-reamed 8 1/2" casing 5' and two days later lowered the 8 1/2" casing supposedly 5' but casing dropped still lower. On November 29th picked up 8 1/2" casing to under-ream same then picked up holding pipe gave way and dropped the string of 8 1/2" about 25'. All of the 8 1/2" casing including the shoe was fished out on December 4th except the under-reamer lug, and this was fished out on December 5th. On December 10th ran 10" casing and cemented same with 300 sax cement at this point on December 10th. On December 10th hole was bailed and swabbed until December 27th when drilling was resumed altho hole was showing approximately 1 bbl. of salt water every 4 hours. On December 30th had a slight increase of oil and gas from 3265' to 3268', and on January 1st had an increase of oil from 3275' to 3281' with an increase of gas at 3283'. On January 3rd tried to run 10" straight reamer to ream seat for 8 1/2" casing but reamer hung up at 1748' in the 10" casing. This place was dressed down and the following day the hole was reamed in at 1748' at this point the 8 1/2" casing was set two days later. On January 19th hole was swabbed and water broke in from behind 10" casing and filled up 1200' in 3 hours. By January 13th had water practically exhausted and resumed drilling. On January 16th placed mud behind 8 1/2" casing to test same for possible locking, but mud never showed up in hole. Resumed drilling on Jan 23rd and had an increase gas 3297' to 3202' and drilled, but a few feet at a time testing as we drilled. (Reduced to 6 1/2" hole at 3302' had a small increase gas 3318' to 3323' Jan. 30th had oil and gas 3325-3331' well made 200 bbls oil in 4 hours and then pinched in T.D. 3331' 1/4

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(GATE)
FORMATION RECORD - Continued

0-014

FROM	TO	TOTAL FEET	FORMATION
835	930	95	Red Rock
930	930	15	Red Sand
930	930	10	White Sand - Water Sand
930	930	5	Red Rock - small show gas at 935'
930	930	5	Sand & Red Rock
930	930	5	Red Rock
930	930	15	Broken Light Sand
930	930	5	Red Rock set 12 1/2" at 965'
930	1090	160	Red Rock
1090	1140	50	Light anhydrite
1140	1140	20	White shale - See log, p. 104.
1140	1240	100	White anhydrite, sp. 100.
1240	1320	80	White Salt
1320	1320	5	Salt & Potash
1320	1330	10	Blue Shale
1330	1330	5	Red Shale
1330	1360	30	Light anhydrite
1360	1410	50	Blue Shale sp. 100.
1410	1410	5	Red Rock - See log, p. 104, sp. 100.
1410	1430	20	White Salt
1430	1430	1	anhydrite
1430	1450	20	Salt sp. 100.
1450	1480	30	Red Rock
1480	1510	30	White Sand
1510	1520	10	Red Rock
1520	1550	30	Salt
1560	1565	5	Red Rock
1565	1630	65	Salt
1630	1660	30	Salt & Potash
1660	1700	40	White Anhydrite
1700	1815	115	White Salt
1815	1835	20	Light Anhydrite
1835	1920	85	Salt & Potash
1920	1925	5	White Anhydrite
1925	1950	25	White Anhydrite
1950	1970	20	White Salt
1970	1980	10	White Salt
1980	2160	180	White Salt
2160	2180	20	White Anhydrite
2180	2220	40	White Salt
2220	2245	25	White Anhydrite
2245	2485	240	Light Salt
2485	2520	35	White Anhydrite
2520	2555	35	Light Salt
2555	2590	35	White anhydrite
2590	2615	25	Light Salt
2615	2640	25	White anhydrite
2640	2760	120	Light Salt
2760	2800	40	White anhydrite
2800	2935	135	Light Salt
2935	2992	57	White Anhydrite - Set 10" at 2974' S.L.M.
2992	3005	13	Brown Line - Hole corrected back to 2974'
3005	3040	35	Corrected Measurement
3040	3040	0	Gray Line

ILLEGIBLE

101

Adapters—Material 3002 I2 Size BLOW PIPE - HOPE CO 2160 DICK 40 5017.
 3032 3035 23 2160 DICK 40 5017 - 20# 10. 4# 5017. 2" T
 3000 3032 100 SHOOTING RECORD

Shell used	Explosive used	Quantity	Length shot	Depth cleaned out
3040	3040	100	100	
3042	3040	30	100	
3040	3042	NOT SHOT	100	
3042	3040	30	100	

Rotary tools were used from 3000 feet to 3000 feet and from 3000 feet to 3000 feet
 Cable tools were used from 0' feet to 3000 feet and from 3000 feet to 3000 feet

DATE 3000
 Put to producing January 31, 1929, 19

The production for the first 4 hours was 200 barrels of fluid of which 100 % was oil; %
 emulsion; % water; and % sediment.
 Gravity, °Bé. 30.00
 Gallons gasoline per 1,000 cu. ft. of gas

EMPLOYEES
 Driller J. E. Flaherty
 Driller Charles Flaherty

FROM	TO	TOTAL FEET	FORMATION
1000	1015	15	Red Sand
1015	1030	15	Hard Sand
1030	1035	5	Sandy Shale
1035	1038	3	Red Sand
1038	1043	5	Bluish Shale
1043	1060	17	Red Rock - Set 20" casing at 94'
1060	1085	25	Light Sandy Shale
1085	1090	5	Red Rock
1090	1095	5	Red Rock
1095	1105	10	Light Sand
1105	1115	10	Red Rock
1115	1125	10	White Sand - Set at 360'
1125	1135	10	Light shale - Set 15 1/2" at 449'
1135	1145	10	Light Sand
1145	1155	10	Red Rock
1155	1165	10	Light Sand
1165	1175	10	Broken Red Sand
1175	1180	5	Red Rock
1180	1185	5	Light Sand
1185	1190	5	Red Rock
1190	1195	5	Light Sand
1195	1200	5	Red Rock
1200	1205	5	Light Sand
1205	1210	5	Red Rock
1210	1215	5	Light Sand
1215	1220	5	Red Rock
1220	1225	5	Light Sand
1225	1230	5	Red Rock
1230	1235	5	Light Sand
1235	1240	5	Red Rock
1240	1245	5	Light Sand
1245	1250	5	Red Rock
1250	1255	5	Light Sand
1255	1260	5	Red Rock
1260	1265	5	Light Sand
1265	1270	5	Red Rock
1270	1275	5	Light Sand
1275	1280	5	Red Rock
1280	1285	5	Light Sand
1285	1290	5	Red Rock
1290	1295	5	Light Sand
1295	1300	5	Red Rock
1300	1305	5	Light Sand
1305	1310	5	Red Rock
1310	1315	5	Light Sand
1315	1320	5	Red Rock
1320	1325	5	Light Sand
1325	1330	5	Red Rock
1330	1335	5	Light Sand
1335	1340	5	Red Rock
1340	1345	5	Light Sand
1345	1350	5	Red Rock
1350	1355	5	Light Sand
1355	1360	5	Red Rock
1360	1365	5	Light Sand
1365	1370	5	Red Rock
1370	1375	5	Light Sand
1375	1380	5	Red Rock
1380	1385	5	Light Sand
1385	1390	5	Red Rock
1390	1395	5	Light Sand
1395	1400	5	Red Rock
1400	1405	5	Light Sand
1405	1410	5	Red Rock
1410	1415	5	Light Sand
1415	1420	5	Red Rock
1420	1425	5	Light Sand
1425	1430	5	Red Rock
1430	1435	5	Light Sand
1435	1440	5	Red Rock
1440	1445	5	Light Sand
1445	1450	5	Red Rock
1450	1455	5	Light Sand
1455	1460	5	Red Rock
1460	1465	5	Light Sand
1465	1470	5	Red Rock
1470	1475	5	Light Sand
1475	1480	5	Red Rock
1480	1485	5	Light Sand
1485	1490	5	Red Rock
1490	1495	5	Light Sand
1495	1500	5	Red Rock
1500	1505	5	Light Sand
1505	1510	5	Red Rock
1510	1515	5	Light Sand
1515	1520	5	Red Rock
1520	1525	5	Light Sand
1525	1530	5	Red Rock
1530	1535	5	Light Sand
1535	1540	5	Red Rock
1540	1545	5	Light Sand
1545	1550	5	Red Rock
1550	1555	5	Light Sand
1555	1560	5	Red Rock
1560	1565	5	Light Sand
1565	1570	5	Red Rock
1570	1575	5	Light Sand
1575	1580	5	Red Rock
1580	1585	5	Light Sand
1585	1590	5	Red Rock
1590	1595	5	Light Sand
1595	1600	5	Red Rock
1600	1605	5	Light Sand
1605	1610	5	Red Rock
1610	1615	5	Light Sand
1615	1620	5	Red Rock
1620	1625	5	Light Sand
1625	1630	5	Red Rock
1630	1635	5	Light Sand
1635	1640	5	Red Rock
1640	1645	5	Light Sand
1645	1650	5	Red Rock
1650	1655	5	Light Sand
1655	1660	5	Red Rock
1660	1665	5	Light Sand
1665	1670	5	Red Rock
1670	1675	5	Light Sand
1675	1680	5	Red Rock
1680	1685	5	Light Sand
1685	1690	5	Red Rock
1690	1695	5	Light Sand
1695	1700	5	Red Rock
1700	1705	5	Light Sand
1705	1710	5	Red Rock
1710	1715	5	Light Sand
1715	1720	5	Red Rock
1720	1725	5	Light Sand
1725	1730	5	Red Rock
1730	1735	5	Light Sand
1735	1740	5	Red Rock
1740	1745	5	Light Sand
1745	1750	5	Red Rock
1750	1755	5	Light Sand
1755	1760	5	Red Rock
1760	1765	5	Light Sand
1765	1770	5	Red Rock
1770	1775	5	Light Sand
1775	1780	5	Red Rock
1780	1785	5	Light Sand
1785	1790	5	Red Rock
1790	1795	5	Light Sand
1795	1800	5	Red Rock
1800	1805	5	Light Sand
1805	1810	5	Red Rock
1810	1815	5	Light Sand
1815	1820	5	Red Rock
1820	1825	5	Light Sand
1825	1830	5	Red Rock
1830	1835	5	Light Sand
1835	1840	5	Red Rock
1840	1845	5	Light Sand
1845	1850	5	Red Rock
1850	1855	5	Light Sand
1855	1860	5	Red Rock
1860	1865	5	Light Sand
1865	1870	5	Red Rock
1870	1875	5	Light Sand
1875	1880	5	Red Rock
1880	1885	5	Light Sand
1885	1890	5	Red Rock
1890	1895	5	Light Sand
1895	1900	5	Red Rock
1900	1905	5	Light Sand
1905	1910	5	Red Rock
1910	1915	5	Light Sand
1915	1920	5	Red Rock
1920	1925	5	Light Sand
1925	1930	5	Red Rock
1930	1935	5	Light Sand
1935	1940	5	Red Rock
1940	1945	5	Light Sand
1945	1950	5	Red Rock
1950	1955	5	Light Sand
1955	1960	5	Red Rock
1960	1965	5	Light Sand
1965	1970	5	Red Rock
1970	1975	5	Light Sand
1975	1980	5	Red Rock
1980	1985	5	Light Sand
1985	1990	5	Red Rock
1990	1995	5	Light Sand
1995	2000	5	Red Rock

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