UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS: UOR..10- 1-55

no file

DATE FILED: Prior O&GCC

LAND: FEE & PATENTED | STATE LEASE NO. | PUBLIC LEASE NO. | INDIAN

DRILLING APPROVED: --

SPUDDED IN: 12-16-54

COMPLETED:

INITIAL PRODUCTION:

GRAVITY A. P. I.

GOR:

PRODUCING ZONES:

TOTAL DEPTH: 5540'

WELL ELEVATION: 43°0 GR

DATE ABANDONED: 1955

FIELD OR DISTRICT: ~~WC Crantsville~~ 3/86 Wildcat

API # 43-045-20102

COUNTY: Tooele

WELL NO. CASSITY 1

LOCATION: FT. FROM (N) (S) LINE, FT. FROM (E) (W) LINE. SW NW 5 QUARTER - QUARTER SEC. 13

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
15 2 S	5 W	13	HICKEY OIL CORPORATION				

LIBRARY OF SAMPLES FOR GEOLOGIC RESEARCH
200 MINES BUILDING
UNIVERSITY OF UTAH
SALT LAKE CITY 12, UTAH

Lithologic Log

Cassity #1, Hickey Oil Corp.
13-2S-5W, Tooele Co., Utah

Oil Well Sample Library
Geology Building
University of Utah
Salt Lake City 1, Utah

by R. E. Cohenour

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Confidential until June 1956, as per unwritten agreement by Hickey Oil Corp. and R.C. Cohenour - Curator
RCCohenour

O.K. for release June 1956
RCCohenour

Well #1 Cassity

Hickey Oil Corporation - Tooele County, Utah

13-2S-5W; Elev. 4255 approx. Spudded 12-15-54

0 - 892	No samples - Drilling reports nearly jetting conditions - probably almost entirely calcareous mud - very recent sediment in lacustrine environment.
892 - 900	No samples but formation reported stiffening.
900 - 905	Mud, gray, silty, bentonite; detrital quartz, mica and ferromagnesium, a few oolites.
905 - 910	As above
910 - 915	Same
915 - 920	Same
920 - 925	Silt, light gray, limey, few oolites.
925 - 930	As above
930 - 935	As above
935 - 940	Marl, gray (almost mud)
940 - 945	Lutite (clay), silty, gray, calcareous.
945 - 950	As above
950 - 955	Same
955 - 960	Mud, gray, limey.
960 - 1075	No samples
1075 - 1080	Silt, gray, limey; some tan lutite and silts
1080 - 1085	As above
1085 - 1130	No samples
1130 - 1135	Silt, gray, limey; fine sand and tan lutite; few oolites.
1135 - 1140	As above
1140 - 1145	Same
1145 - 1150	Same

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1150 - 1155	Oolitic sandy silt and marl, slightly bentonitic.
1155 - 1160	As above
1160 - 1165	Same
1165 - 1170	Same
1170 - 1175	Same
1175 - 1180	Marl, gray, silty.
1180 - 1185	As above
1185 - 1190	Same - planospiral gastropod
1190 - 1195	Same
1195 - 1200	Same
1200 - 1205	Lutite, gray, limey, gastropods.
1205 - 1210	As above (no gastropods)
1210 - 1215	Same
1215 - 1220	Same
1220 - 1225	Same
1225 - 1230	Marl, gray; silty lutite.
1230 - 1235	As above
1235 - 1240	Marl, light gray.
1240 - 1245	As above
1245 - 1250	Same
1250 - 1255	Same
1255 - 1260	Same
1260 - 1265	Same
1265 - 1270	Same
1270 - 1275	Marl, very light gray (dirty white)
1275 - 1280	As above
1280 - 1285	Same
1285 - 1290	Same
1290 - 1295	Same

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1295 - 1300	Same
1300 - 1305	Marl and mud, light gray
1305 - 1310	As above
1310 - 1315	Same
1315 - 1320	Same
1320 - 1325	Same
1325 - 1330	Marl, gray
1330 - 1335	As above
1335 - 1340	Same
1340 - 1345	Same
1345 - 1350	Same
1350 - 1355	Same
1355 - 1360	Same
1360 - 1365	Same
1365 - 1370	Same
1370 - 1375	Marl, gray, shaley
1375 - 1380	As above
1380 - 1385	Same
1385 - 1390	Same
1390 - 1395	Marl, light gray, silty
1395 - 1400	As above
1400 - 1405	Same
1405 - 1410	Same
1410 - 1415	Shale, light gray, calcareous
1415 - 1420	As above
1420 - 1425	Same
1425 - 1430	Shale, gray, calcareous.
1430 - 1435	As above
1435 - 1440	Same
1440 - 1445	Same

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1445 - 1450	Same
1450 - 1455	Same but darker gray
1455 - 1460	As above
1460 - 1465	Same
1465 - 1470	Same
1470 - 1475	Same
1475 - 1480	Shale, gray, calcareous, silty
1480 - 1485	As above
1485 - 1490	Same
1490 - 1495	Same
1495 - 1500	Same
1500 - 1505	Same
1505 - 1560	No samples
1560 - 1565	Marl, gray,
1565 - 1570	As above
1570 - 1575	Marl, gray; little bentonite lutite.
1575 - 1580	Marl, gray
1580 - 1585	Marl, gray-white.
1585 - 1590	As above
1590 - 1595	Same
1595 - 1600	Same but silty
1600 - 1605	Marl, white, silty
1605 - 1610	As above
1610 - 1615	Same
1615 - 1620	Same
1620 - 1625	Shale amd marl, light gray.
1625 - 1630	As above
1630 - 1635	Same

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1635 - 1640	Same
1640 - 1645	Shale, light gray-gray; fragments of fine grained quartzite, quartz.
1645 - 1650	As above
1650 - 1655	Same
1655 - 1660	Same
1660 - 1665	Same
1665 - 1670	Marl, light gray; clastic quartz, silts.
1670 - 1675	As above
1675 - 1680	Same
1680 - 1685	Same
1685 - 1690	Marl, light gray, silty.
1690 - 1695	As above
1695 - 1700	Same
1700 - 1705	Lutite, light pinkish gray, silty
1705 - 1710	As above
1710 - 1715	Same
1715 - 1720	Same
1720 - 1725	Same, detrital quartz
1725 - 1730	As above
1730 - 1735	Same
1735 - 1740	Same
1740 - 1745	Same
1745 - 1750	Same
1750 - 1755	Shale, light pinkish, silty, calcareous; detrital quartz.
1755 - 1760	As above
1760 - 1765	Same, with some tan lutite.
1765 - 1770	As above

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1770 - 1775	Same
1775 - 1780	Same
1780 - 1785	Same
1785 - 1790	Same
1790 - 1795	Same
1795 - 1800	Same
1800 -1805	Marl, tan, silty, fine sandy fragments, fine grained quartzite.
1805 - 1810	As above
1810 - 1815	Same
1815 - 1820	Same
1820 - 1825	Same
1825 - 1830	Shale, light pinkish; silty, fine grained quartzite or sandstone (nearly quartzite) fragments.
1830 - 1835	As above
1835 - 1840	Same
1840 - 1845	Same
1845 - 1850	Same
1850 - 1855	Same, sandy
1855 - 1860	As above
1860 - 1865	Same
1865 - 1870	Same
1870 - 1875	Marl, gray-tan, silty; detrital quartz.
1875 - 1880	As above
1880 - 1885	Same
1885 - 1890	Same
1890 - 1895	Silt, white, bentonitic
1895 - 1900	As above, with gray marl.

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1900 - 1905	Same
1905 - 1995	No samples.
1995 - 2000	Shale, tan, blacky, calcareous.
2000 - 2005	As above
2005 - 2010	Silt, tan calcareous; a few pebbles of quartzite.
2010 - 2015	As above
2015 - 2020	Same
2020 - 2025	Same
2025 - 2030	Silty, tan calcareous; light gray, clay
2030 - 2035	As above
2035 - 2040	Same
2040 - 2045	Same
2045 - 2050	Lutite, tan silty, calcareous
2050 - 2055	As above
2055 - 2060	Same
2060 - 2065	Same
2065 - 2070	Same
2070 - 2075	Same
2075 - 2080	Gravel, quartzite and dark gray lime.
2080 - 2085	Same, with tan shale.
2085 - 2090	Shale, tan, calcareous; gravel and coarse sand.
2090 - 2095	Sand; gravel; marl, tan.
2095 - 2100	As above
2100 - 2105	Same, very little marl.
2105 - 2110	Same
2110 - 2115	Same
2115 - 2120	Same
2120 - 2125	Same
2125 - 2130	Same

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2130 - 2135	Same
2135 - 2140	Same
2140 - 2145	Same
2145 - 2150	Gravel, predominately quartz ite fragments
2150 - 2155	As above
2155 - 2160	Same
2160 - 2165	Same
2165 - 2170	Same
2170 - 2175	Same
2175 - 2180	Gravel and coarse sand.
2180 - 2185	As above.
2185 - 2190	Same
2190 - 2195	Silt, tan, sandy
2195 - 2200	As above.
2200 - 2205	Silt, tan, gray-pink, sandy; marl.
2205 - 2210	As above with detrital quartz.
2210 - 2215	As above, 50% sand and gravel.
2215 - 2220	Same
2220 - 2225	Same
2225 - 2230	Same
2230 - 2235	Same, 70% clastics
2235 - 2240	As above.
2240 - 2245	Sand and gravel; 40% sandy tan silt.
2245 - 2250	As above
2250 - 2255	Coarse sand and gravel.
2255 - 2260	As above.
2260 - 2265	Same
2265 - 2270	Same, 60% clastics.
2270 - 2275	As above
2275 - 2280	Sand; quartzite pebbles.

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2280 - 2285	As above.
2285 - 2290	Gravel; 30% sand.
2290 - 2295	As above.
2295 - 2300	Same
2300 - 2305	Same
2305 - 2310	Same
2310 - 2315	Same
2315 - 2320	Same
2320 - 2325	Shale and lutite, tan, silty.
2325 - 2330	Same
2330 - 2335	Same
2335 - 2340	Same
2340 - 2345	Mud, gray-tan, calcareous.
2345 - 2350	As above
2350 - 2355	Same, muddy shale.
2355 - 2360	Same
2360 - 2365	Same
2365 - 2370	Same
2370 - 2375	Same
2375 - 2380	Same
2380 - 2385	Same
2385 - 2390	Shale, muddy, light tan, slightly silty.
2390 - 2395	As above.
2395 - 2400	Same
2400 - 2405	Mud, calcareous, light gray.
2405 - 2410	As above.
2410 - 2415	Same
2415 - 2420	Same
2420 - 2425	Same
2425 - 2430	Same

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2430 - 2435	Same
2435 - 2440	Same
2440 - 2445	Same
2445 - 2450	Same
2450 - 2455	Marl, gray; silty lutite.
2455 - 2460	As above.
2460 - 2465	Same
2465 - 2470	Same
2470 - 2475	Shale, tan, calcareous; silt and fine sand.
2475 - 2480	As above
2480 - 2485	Same
2485 - 2490	Lutite, tan, calcareous, silty.
2490 - 2495	As above.
2495 - 2500	Same
2500 - 2505	Silt, sandy, light tan;fragments quartzite pebbles.
2505 - 2510	As above.
2510 - 2515	Same
2515 - 2520	Same
2520 - 2525	Silt, tan, calcareous, sandy.
2525 - 2530	As above.
2530 - 2535	Same
2535 - 2540	Same
2540 - 2545	Same, carbonaceous material (lignite)?
2545 - 2550	Same
2550 - 2555	Same
2555 - 2560	Same
2560 - 2565	Same, reddish tan, slightly bentonitic.
2565 - 2570	Same
2570 - 2575	Same

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2575 - 2580	Same
2580 - 2585	Silt, reddish tan, calcareous; 30% quartzite clastics.
2585 - 2590	As above
2590 - 2595	Same
2595 - 2600	Same but 50% clastics.
2600 - 2605	Coarse sand, quartzite and limestone (dark) fragments.
2605 - 2610	Medium sandstone.
2610 - 2615	Same
2615 - 2620	Same
2620 - 2625	Sand, tan, silty, some pebbles.
2625 - 2630	As above.
2630 - 2635	Same
2635 - 2640	Same
2640 - 2645	Silt, tan sandy, calcareous.
2645 - 2650	As above
2650 - 2655	Same
2655 - 2660	Same
2660 - 2665	Marl, light gray, silty.
2665 - 2670	As above.
2670 - 2675	Same
2675 - 2680	Silt, tan calcareous, sandstone
2680 - 2685	As above
2685 - 2690	Same
2690 - 2695	Silt, light gray, calcareous; marl, white.
2695 - 2700	As above.
2700 - 2705	Silt, tan, calcareous; tan calcareous, shale.

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2705 - 2710	As above.
2710 - 2715	Silt, tan, calcareous, shale.
2715 - 2720	As above.
2720 - 2725	Same
2725 - 2730	Same
2730 - 2735	Same
2735 - 2740	Same
2740 - 2745	Same
2745 - 2750	Same
2750 - 2755	Gravel, limestone and quartz pebbles well-rounded.
2755 - 2760	As above.
2760 - 2765	Silt, tan, sandy, calcareous.
2765 - 2770	As above.
2770 - 2775	Same
2775 - 2780	Same with more sand.
2780 - 2785	Silt, tan, calcareous, muddy.
2785 - 2790	Same
2790 - 2795	Same
2795 - 2800	Same
2800 - 2805	Sandstone, fine grained, milky.
2805 - 2810	As above.
2810 - 2815	Same
2815 - 2820	Silt, tan, calcareous.
2820 - 2825	As above.
2825 - 2830	Same
2830 - 2835	Same
2835 - 2840	Same
2840 - 2845	Same
2845 - 2850	Same
2850 - 2855	Same

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2855 - 2860	Same, few sand grains
2860 - 2865	Same
2865 - 2870	Same
2870 - 2875	Same
2875 - 2880	Same
2880 - 2885	Same
2885 - 2890	Same
2890 - 2895	Same
2895 - 2900	Same
2900 - 2905	Silt, tan, calcareous, sandy; sand grains, med.
2905 - 2910	As above
2910 - 2915	Silt, tan, calcareous
2915 - 2920	Gravel, quartzite fragments
2920 - 2925	As above
2925 - 2930	Gravel, milky, fine grained quartzite fragments.
2930 - 2990	No samples.
2990 - 2995	Silt, tan, calcareous, sand grains.
2995 - 3060	No samples
3060 - 3065	Silt, tan, calcareous, shaley; some coarse clastics.
3065 - 3070	As above
3070 - 3075	Sand, medium-coarse, quartzite fragments and grains.
3075 - 3080	As above
3080 - 3085	Same
3085 - 3090	Shale, tan, silty, calcareous
3090 - 3095	Sand, medium grained, fragments and grains of fine grained white quartzite.
3095 - 3100	As above
3100 - 3105	Same
3105 - 3110	Same

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3110 - 3115	Same
3115 - 3205	No samples
3205 - 3210	Shale, tan, muddy, slightly calcareous.
3210 - 3215	As above
3215 - 3220	As above
3220 - 3225	Sand, fragments of fine grained, light tan quartzite.
3225 - 3230	As above
3230 - 3235	Silt, tan, shaley
3235 - 3240	As above
3240 - 3245	Same
3245 - 3250	Same
3250 - 3255	Same, more sandy
3255 - 3260	As above
3260 - 3265	Same
3265 - 3270	Same
3270 - 3275	Same
3275 - 3280	Silt, tan, shaley
3280 - 3285	Shale, tan; sands of fine grained quartzite.
3285 - 3290	As above
3290 - 3295	Same
3295 - 3300	Marl, tan, silty
3300 - 3305	As above
3305 - 3310	Same
3310 - 3315	Shale, tan, calcareous, sandy
3315 - 3320	As above
3320 - 3325	Same
3325 - 3330	Same
3330 - 3335	Same
3335 - 3340	Same
3340 - 3345	Same

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3345 - 3350	Same
3350 - 3355	Same, less sand
3355 - 3360	As above
3360 - 3365	Same
3365 - 3370	Same
3370 - 3375	Sand, medium grained quartz and quartzite
3375 - 3380	As above
3380 - 3385	Shale, tan, calcareous
3385 - 3390	As above
3390 - 3395	Same
3395 - 3400	Same
3400 - 3405	Silt, tan calcareous, sands, medium grained dark limestone and quartzite.
3405 - 3410	As above
3410 - 3415	Same
3415 -3420	Same
3420 - 3425	Silt, tan, calcareous, sandy.
3425 - 3430	As above
3430 - 3435	Same
3435 - 3440	Same
3440 - 3445	Same
3455 - 3460	Sand and shale; tan, calcareous.
3460 - 3465	As above
3465 - 3470	Same
3470 - 3475	Shale, tan, calcareous
3475 - 3480	As above
3480 - 3485	Silt, tan, calcareous, shale
3485 - 3490	As above
3490 - 3495	Same
3495 - 3500	Sand, quartzite and limestone, medium grained; tan calcareous silt, gravel

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3500 - 3505	As above
3505 - 3510	Same
3510 - 3515	Same
3515 - 3520	Same
3520 - 3525	Same
3525 - 3530	Same
3530 - 3535	Same
3535 - 3540	Same
3540 - 3545	Silt, tan, calcareous, shaley
3545 - 3550	As above
3550 - 3555	Same
3555 - 3560	Same
3560 - 3565	Same
3565 - 3570	Same
3570 - 3575	Same, sandy
3575 - 3580	As above
3580 - 3585	Same
3585 - 3590	Same
3590 - 3595	Same
3595 - 3600	Same
3600 - 3605	Same
3605 - 3610	Same
3610 - 3615	Same
3615 - 3620	Silt, tan, calcareous, shaley; sands medium grained.
3620 - 3625	As above
3625 - 3630	Same
3630 - 3635	Same

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3635 - 3640	Same
3640 - 3645	Same
3645 - 3650	Same
3650 - 3655	Same, less sand
3655 - 3660	As above
3660 - 3665	Same
3665 - 3670	Same
3670 - 3675	Sands, medium grained, quartzite and limestone, quartzite predominates.
3675 - 3680	As above
3680 - 3685	Silt, tan, calcareous, shale
3685 - 3690	As above
3690 - 3695	Sands, medium grained, mainly milky quartzite; gravel
3695 - 3700	As above
3700 - 3705	Silt, tan-dark tan, calcareous, shale
3705 - 3710	As above
3710 - 3715	Sand and gravel; quartzite, limestone and some blackish fragments and grains.
3715 - 3720	As above
3720 - 3725	Same
3725 - 3730	Same
3730 - 3735	Same
3735 - 3740	Same
3745 - 3750	Same
3750 - 3755	Same
3755 - 3780	Same
3780 - 3785	Same
3785 - 3790	Same
3790 - 3795	Same
3795 - 3800	Same

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3800 - 3805	Same
3805 - 3910	Same
3810 - 3815	Same
3815 - 3820	Same
3820 - 3825	Same
3825 - 3830	Same
3830 - 3840	Same
3840 - 3845	Same
3845 - 3850	Same
3850 - 3855	Same
3855 - 3860	Sands and gravel; quartzite and limestone grains.
3860 - 3865	As above
3865 - 3870	Same
3870 - 3875	Shale, calcareous, tan, sandy
3875 - 3880	Same
3880 - 3885	Same
3885 - 3890	Same
3890 - 3895	Same but more sands and light gray shale
3895 - 3900	As above
3900 - 3905	Shale, calcareous, tan, sandy
3905 - 3910	As above
3910 - 3915	Same
3915 - 3920	Same
3920 - 3925	Same, but coarser sands
3925 - 3930	As above
3930 - 3935	Same
3935 - 3940	Same
3940 - 3945	Shale, tan, calcareous

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3945 - 3950	As above
3950 - 3955	Same
3955 - 3960	Same
3960 - 3965	Same
3965 - 3970	Same
3970 - 3975	Same
3975 - 3980	Same
3980 - 3985	Volcanic ash ?; light slightly calcareous, white silty, very soft, non-mudding
3985 - 3990	As above
3990 - 3995	Shale, dark tan-tan, calcareous
3995 - 4000	As above
4000 - 4005	Sand, medium grained, very oolitic, some igneous minerals
4005 - 4010	As above
4010 - 4015	Gravel; silt, light gray
4015 - 4020	Coarse sand
4020 - 4025	As above
4025 - 4030	Silt, tan-dark tan, calcareous, sandy
4030 - 4035	As above
4035 - 4040	Same
4040 - 4045	Lutite and silt, calcareous, muds readily
4045 - 4050	As above
4050 - 4055	Lutite and silt, calcareous, muds readily, dark tan-pinkish gray
4055 - 4060	As above
4060 - 4065	Same
4065 - 4070	Same
4070 - 4075	Same
4075 - 4080	Same

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4080 - 4085	Same
4085 - 4090	Marl, light gray, silty
4090 - 4095	As above
4095 - 4100	Same
4100 - 4180	No samples
4180 - 4185	Shale, tan, calcareous, silty; coarse sand, quartzite and dark limestone fragments
4185 - 4190	As above
4190 - 4200	No samples
4200 - 4205	Shale, tan, calcareous
4205 - 4210	Same, sandy
4210 - 4215	As above
4215 - 4220	As above
4220 - 4225	Same
4225 - 4230	Same
4230 - 4235	Same
4235 - 4240	Same with pebbles of quartzite.
4240 - 4245	As above
4245 - 4250	Same
4520 - 4255	Same
4255 - 4260	Same
4260 - 4265	Same
4265 - 4270	Same
4270 - 4330	No samples
4330 - 4335	Gravel and coarse sand; tan silt
4335 - 4340	As above
4340 - 4345	Same
4345 - 4350	Same with tan, calcareous, shale
4350 - 4355	Silt, tan, calcareous, sandy
4355 - 4360	As above
4360 - 4365	Same

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4365 - 4370	Same
4370 - 4375	Same
4375 - 4380	Same
4380 - 4385	Gravel, tan staining, subrounded; quartzite and dark limestone fragments
4385 - 4390	As above
4390 - 4395	Same
4395 -4400	Same
4400 - 4405	Same
4405 - 4410	Same
4410 - 4415	Shale, reddish tan, slightly calcareous, subsplintery
4415 - 4420	As above
4420 - 4425	Same
4425 - 4430	Same
4430 - 4435	Same
4435 - 4440	Same
4440 - 4445	Same
4445 - 4450	Same
4450 - 4455	Same
4455 - 4460	Same
4460 - 4465	Same
4465 -4470	Same
4470 - 4475	Same
4475 -4480	Same
4480 - 4485	Same
4485 - 4490	Same
4490 - 4495	Same, with sand, medium grained quartzite & quartz
4495 - 4500	As above

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4500 - 4505	Same
4505 - 4510	Same
4510 - 4515	Same
4515 - 4520	Same
4520 - 4525	Same
4525 - 4530	Same
4530 - 4535	Shale, tan, calcareous; little coarse sand and gravel
4535 - 4540	As above
4540 - 4545	Same
4545 - 4550	Same
4550 - 4555	Same
4555 - 4560	Same
4560 - 4565	Same
4565 - 4570	Same
4570 - 4575	Same, more muddy and less shale
4575 - 4580	As above
4580 - 4585	Same
4585 - 4590	Same
4590 - 4595	Same
4595 - 4600	Same
4600 - 4605	Shale, reddish tan, calcareous
4605 - 4630	No samples
4630 - 4635	Shale, tan, calcareous, gravel
4635 - 4640	As above
4640 - 4645	Same
4645 - 4650	Same
4650 - 4655	Same
4655 - 4660	Same
4660 - 4665	Same

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4665 - 4670	Same, reddish tan shale
4670 - 4675	Same
4675 - 4680	Gravel; coarse sand, quartzite and quartz
4680 - 4685	As above
4685 - 4690	Same
4690 - 4695	Shale, calcareous, reddish tan
4695 - 4700	As above
4700 - 4705	Same
4705 - 4710	Shale, calcareous, tan; little gravel
4710 - 4715	As above
4715 - 4720	Same
4720 - 4725	Same
4725 - 4730	Same
4730 - 4735	Same
4735 - 4740	Same
4740 - 4745	Same
4745 - 4750	Same
4750 - 4755	Same
4755 - 4760	Same
4760 - 4765	Same
4765 - 4770	Same
4770 - 4775	Same
4775 - 4780	Same
4780 - 4785	Same
4785 - 4790	Same
4790 - 4795	Same
4795 - 4800	Same
4800 - 4815	No samples
4815 - 4820	Shale, tan, silty, much gravel fragments mainly quartzite, some limestone

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4820 - 4825	As above, shale and gravel fragments
4825 - 4870	No samples
4870 - 4875	Shale, tan, silty
4875 - 4880	Shale, tan, silty; a little fine sandstone, tan
4880 - 4885	Shale, tan, silty
4885 - 4890	Limestone, dark gray-black; with much tan shale
4890 - 4895	Limestone, dark gray; secondary calcite, limestone white; also tan silt
4895 - 4900	Limestone, dark gray; tan silts
4900 - 4905	Limestone, dark gray; quartzite tan; siliceous limestone, dark gray-black.
4905 - 4910	As above, much 'up hole' material here, i.e., tan shale.
4910 - 4950	No samples
4950 - 4955	Limestone, dark blue gray-black, fine grained, dense.
4955 - 4960	As above, with some quartzite, tan
4960 - 4965	Limestone, dark blue gray, fine grained, dense
4965 - 4970	As above, with light gray, dense dolomitic limes.
4970 - 4975	Limestone and dolomite; interbedded ? 50-50; limestone dark gray; dolomite light gray
4975 - 4980	Limestone, blue gray and white, fine grained
4980 - 4985	Limestone, dark blue gray, dense
4985 - 4990	Limestone as above, some tan shale.
4990 - 4995	Shale, tan; dark blue gray-black limestone
4995 - 5000	Dolomite, dark gray; some black chert; dolomite somewhat fissile.
5000 - 5005	Dolomite, dark gray-black, shaley; tan silty, shale
5005 - 5010	As above
5010 - 5015	Silicified limestone or dolomite; dark gray, very hard; gray dense dolomite; some tan silty shale, pyrite disseminated in some silicified carbonate

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5015 - 5020	As above, slightly more shale
5020 - 5025	Dolomite, gray, fine grained, dense, silicified dolomite or limestone, dark gray
5025 - 5030	As above
5030 - 5040	No samples
5040 - 5045	Dolomite, gray-dark, fine grained, dense, secondary calcite in veinlets; reddish shale silty
5045 - 5050	As above
5050 - 5055	Shale, tan-red; gray-darkgray dolomite; silicified dolomite
5055 - 5060	As above with less shale
5060 - 5065	Shale, tan-red; gray dolomitic limestone
5065 - 5070	As above
5070 - 5075	Silicified limestone or dolomite, gray, dense; shale tan, silty and bondy
5075 - 5080	As above, with same fine sandstone
5080 - 5085	Dolomite, gray-dark gray, dense, siliceous; tan shale and fine sandstone
5085 - 5090	As above
5090 - 5095	Dolomite, gray, dense
5095 - 5100	Dolomite, gray, dense
5100 - 5105	Shale, tan, silty and sandy
5105 - 5110	Dolomite, dark gray-black xline
5110 - 5115	As above
5115 - 5120	As above, but dense
5120 - 5125	Dolomite, light gray-gray, xline; tan quartzite glassey; tan shale
5125 - 5130	As above but more shale
5130 - 5135	Dolomitic limestone, light gray-gray, dense
5135 - 5140	As above, slightly shaley
5140 - 5145	Shale, tan, silty

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5145 - 5150	As above
5150 - 5155	Dolomitic limestone, gray-dark gray dense
5155 - 5160	As above
5160 - 5165	Shaley dolomitic limestone, dark blue gray-black, mostly xline
5165 - 5170	As above
5170 - 5175	As above with fine sandy tan shale
5175 - 5180	Same
5180 - 5185	No sample
5185 - 5190	Dolomitic limestone, dark gray; shale, tan, sandy; shale increasing
5190 - 5195	Dominately tan shale, silty, sandy
5195 - 5200	As above
5200 - 5205	Sandstone, tan-white, calcareous cement; some white quartzite
5205 - 5210	As above
5210 - 5215	Sandstone, tan, fine grained; tan and greenish gray shale.
5215 - 5220	Sandstone and quartzite; tan-white, fine grained
5220 - 5225	As above
5225 - 5230	Same
5230 - 5235	Same
5235 - 5240	Same
5240 - 5245	No sample
5245 - 5250	Quartzite, white, stained limonite, fine-med. grained
5250 - 5255	As above; noted some well-rounded, frosted, free grains of sand
5255 - 5260	As above, no limonite
5260 - 5265	As above
5265 - 5270	As above
5270 - 5275	Same

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5275 - 5280	Same, with slight amount bluish shale, pyrite
5280 - 5285	Quartzite, white
5285 - 5290	As above
5290 - 5295	As above
5295 - 5300	No sample
5300 - 5305	Quartzite, white, fine-medium grained
5305 - 5310	As above
5310 - 5315	Same
5315 - 5320	Same
5320 - 5325	Same
5325 - 5330	Same
5330 - 5335	Same
5335 - 5340	Same
5340 - 5350	No samples
5350 - 5355	Quartzite, white, fine-medium grained; some tan shale
5355 - 5360	As above
5360 - 5380	No samples
5380 - 5385	Quartz ite, white, fine-medium grained; some tan shale
5385 - 5390	As above
5390 - 5395	As above
5395 - 5400	Quartzite; bluish gray shale, slightly pyritic
5400 - 5405	Shale, tan, sandy, silty; white quartzite
5405 - 5410	Shale, tan, silty
5410 - 5415	Shale, tan, silty; white quartzite
5415 - 5420	Same
5420 - 5425	No sample

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5425 - 5430	Quartzite, white-light gray, medium grained
5430 - 5435	As above, with sandy tan shale
5435 - 5440	No sample
5440 - 5445	Quartzite, white, medium grained
5445 - 5450	As above
5450 - 5455	Same
5455 - 5460	Same
5460 - 5465	Same
5465 - 5470	Same
5470 - 5485	No samples
5485 - 5490	Shale, tan, quartzite white
5490 - 5498	No samples
5498 - 5515	Cored 17' - recovered 7' of white-tan, quartzite; was highly fractured and possessed a petroliferous odor, carbon tetrachloride wash solution of mortar ground sample possessed a greenish yellow fluoresence.

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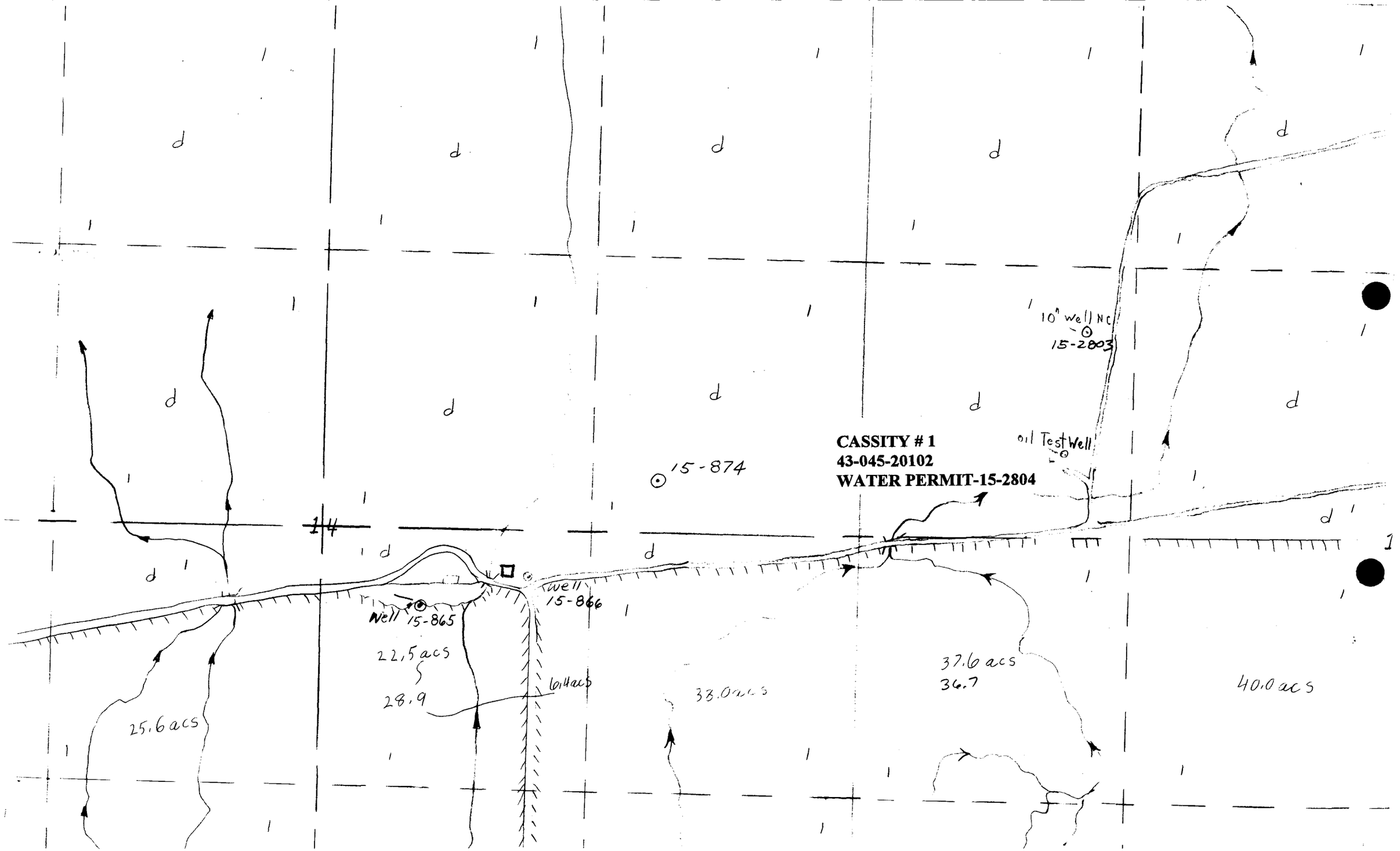
Examined by Robert E. Cohenour * Geologist


CASSITY # 1
43-045-20102
WATER PERMIT-15-2804
10" well NC
15-2803
oil Test Well
15-874
well
15-866
well 15-865
22.5 acs
28.9
61.4 acs
25.6 acs
33.0 acs
37.6 acs
36.7
40.0 acs

may have been due to renewed uplift of the range by faulting. Thomas (1946, p. 113) suggested a late Pliocene age for the renewed uplift which corresponds well with the writer's tentative dating of the Harkers fanglomerate.

Along the west flank of the Oquirrh Mountains there are limited outcrops of the same fanglomerate but the constituent particles are much coarser, as might be expected from the steep Oquirrh front. Thomas (1946, p. 117) points out that the beds of the formation along the Oquirrh Mountains now dip valleyward at angles prevailingly less than the inclination of beds along the Stansbury Mountains, presumably because of eastward tilting by later block faulting.

Hickey-Cassity No. 1 well

The recent drilling of a test oil well about 3 miles northeast of Grantsville, Utah at the north end of Tooele Valley has provided an excellent opportunity to learn something of the subsurface Cenozoic sediments within the Great Salt Lake Basin. This is one of the few deep wells in the area for which samples are available. It is described as follows:

Tooele County, Hickey Oil Corporation No. 1 Cassity well 13-2S-5W. Elevation 4255 feet app. ground. Spudded 12-15-54; set 10 inch casing at 892 feet with 200 sacks of cement.

	Feet
Quaternary	
Gray to black, very soft, limy mud containing a few thin stringers of sand and gravel. (driller's log)	
Top (?) of Tertiary - Salt Lake group	0 - 892
Marl unit	
Marl, gray to light gray, contains some oolites, fecal pellets, and molluscan shell fragments.	

	Feet
It has sandy streaks composed of quartz, mica, and dark minerals or lenses of tan colored, somewhat bentonitic clay.	892 - 1150
Same, but oolites make up 10 to 15 percent of the samples and other clastics run to 15 percent.	1150 - 1170
Marl, gray, soft, slightly bentonitic with shaly streaks due to higher clay content. Micro-gastropod, Gyraulus sp.	1170 - 1420
Same, but darker gray, more clay and fragments, show blocky fracture. Oolites few in number. No sand.	1420 - 1505
No samples.	1505 - 1560
Marl as above.	1560 - 1695
Shale unit	
Shale, tan to yellow, sandy, slightly calcareous with several streaks of clean clay. Sand particles composed of quartzite and black limestone that are angular to sub-rounded.	1695 - 1840
Marl, gray to white, somewhat shaly.	1840 - 1905
No samples.	1905 - 1995
Shale, light gray to tan, sandy, calcareous.	1995 - 2070
Sand and gravel unit	
Sand and gravel, tan, dirty, composed of angular to sub-rounded quartzitic fragments with lesser amounts of gray and black limestone. A few molluscan shell fragments and oolites.	2070 - 2320
Marl unit	
Marl, tan to gray, as above.	2320 - 2470
Shale, sand, and gravel unit	
Shale, light tan, slightly calcareous, alternating with lenses of poorly sorted, sands, gravels and clay. Sands and gravels composed primarily of	

	Feet
light colored quartzites and dark limestones. Clays are pink and bentonitic. Few oolites and shell fragments present. Samples through this interval could best be determined dirty.	2470 - 2925
No samples.	2925 - 3060
Sand, coarse, angular, composed of fragments of quartzite, and equal amounts of calcareous shale or mudstone.	3060 - 3125
No samples.	3125 - 3205
Sand, gravel, and shaly mud in about equal amounts. Represents either alternating strata or a fanglomerate.	3205 - 3305
Same, but clastics are finer; there are streaks of very light tan, silty marl or mud and the sands have more black limestone than above.	3305 - 3495
Sand and gravel, tan, coarse, unconsolidated with minor amounts of calcareous silt and micro-gastropod fossils. Lymnaea sp.	3495 - 3740
Same with the exception that first igneous detritus was recorded - andesites, feldspar, dark minerals of mica and tourmaline. Also found thin lenses of tan to yellow shale.	3740 - 3890
Same with higher percentage of shales and mudstones.	3890 - 3975
Same but oolitic - up to 15 percent, igneous detritus common. Pyrite and shell fragments present and lesser amounts of gypsum and salt.	3975 - 4045
Drilling mud for most part.	4045 - 4080
Clay, gray and yellow; calcareous, silty shales; light gray marls with numerous micro-gastropods, Lymnaea, Vertico, Physa.	4080 - 4120

Conglomerate unit

Gravel, coarse sand, and silts, tan in color, quartzite fragments dominant and range in size up to 1 inch across, lesser amounts of limestone, igneous fragments, gypsum, pyrite, dark minerals, mica, and calcite.

	Feet
Shales, tan, calcareous and sandy mixed in freely with the coarser detritus. (4880 is not corrected to coincide with electric log which shows a depth of about 4925)	4120 - 4880
—— bottom of Tertiary ——	
Paleozoic - Oquirrh formation (?)	
Limestones, black, with calcite streaks; gray silicious limestones; dark gray dolomites; tan shales; and light, brittle, highly fractured quartzites. No micro-fossils.	4880 - 5470

Cored approximately 17 feet but recovered only 7 feet. Electric log shows T.D. at 5480. Core sample was a porous, well-fractured, light colored quartzite, probably part of the Oquirrh formation.

Several gas shows were reported but the writer was not at the well when the tests were made and cannot vouch for the reports. Oil stains were also reported but the cuttings examined did not reveal any oil stains. However, the core samples taken from the bottom of the hole smelled of petroleum and fluoresced under a black light. No stains were visible under ordinary light. The writer was not at the drilling site when the core samples were obtained.

Source: SLENTZ, LOREN W., 1955, Tertiary Salt Lake Group in the Great Salt Lake basin: Univ. of Utah Ph.D. dissertation, unpublished

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Utah Geological and Mineralogical Survey
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The Colleges of Mines and Mineral Industries
University of Utah, Salt Lake City, Utah

DRILLING RECORDS FOR OIL AND GAS IN UTAH

JAN. 1, 1954 - DEC. 31, 1963

BULLETIN 74 • PRICE $5.00 • MARCH, 1965

nber	Location	Operator and Well No.	Field and Area	Completion or Abandonment Date	Elevation	Age of Rocks Surface	Age of Rocks Bottom	Formation Tops	Shows or Producing Zones	Total Depth	Status
3	SWNW 13 2S 5W	Hickey #1 Cassity	Grantsville	1955	4212 Gr	Quat.	Upper Paleozoic	Tertiary 892? Upper Paleozoic 4860	Gas Shows 2750-56, 3090-3115. Oil and Gas Show: 5498-5515 DST 5265-5515 Gas to surface in 3 min. Recov. 1200' of gas-cut mud and 3945' of gas-cut water.	5540	P-A
4	NWNW 13 2S 5W	Hickey #2 Cassity	Grantsville	1955	4212 Gr	Quat.	Tertiary	_____	_____	3540	P-A
5	NESW 14 2S 5W	Walker-Wilson #1 Woodlay-Garson	Grantsville	11-22-56	4229 KB	Quat.	Lower Tertiary	Tertiary 920?	_____	7993	P-A
6	SENW 4 2S 18W	Shell #1 Fee	Salduro	7-11-56	4227 KB	Quat.	Igneous	Tertiary Volcanics 1375 Diabase 2742	_____	2950	P-A