

COLORADO SCHOOL OF MINES RESEARCH FOUNDATION

AGE NO. 1 GOLDEN, COLORADO

Lab Group Number:

335-64

Core Hole 14X-34 34-9S-21E
Section 34-9S-21E, Uintah Co., Utah
W. H. Reeves

Project Number:

840704

Project Engineer:

ANALYTICAL LABORATORY REPORT

Sponsor: Shell Oil Company

Date Submitted: September 8, 1964

649 - PRIVATE AND CONFIDENTIAL

Lab. No.	Depth-Ft Sample No.	Description	G/T Oil		G/T Water		Specific Gravity		Bulk Density gm/cc											
			Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd
03	2240	2001		6.78		1.38		0.906				2.46								
04	2241	2002		8.38		0.33		0.900				2.42								
05	2242	2003		8.06		0.66		0.898				2.39								
06	2243	2004		7.74		0.44		0.896				2.38								
07	2244	2005		13.2		0.35		0.898				2.40								
08	2245	2006		7.47		0.22		0.904				2.48								
09	2246	2007		5.45		0.42		0.907				2.58								
100	2247	2008		5.02		0.50		0.899				2.54								
101	2248	2009		4.87		0.82		0.908				2.53								
102	2249	2010		4.70		0.60		0.905				2.51								
103	2250	2011		3.52		0.88		0.905				2.52								
104	2251	2012		3.40		0.58		0.903	*			2.54								
105	2252	2013		14.6		0.86		0.903				2.38								
106	2253	2014		16.5		0.66		0.900				2.38								
107	2254	2015		25.6		1.26		0.902				2.20								
108	2255	2016		35.1		0.81		0.895				2.09								
109	2256	2017		20.0		0.85		0.898				2.25								
110	2257	2018		15.8		0.69		0.904				2.36								
111	2258	2019		11.5		0.50		0.898				2.40								
112	2259	2020		20.6		0.53		0.895				2.22								
113	2260	2021		27.1		0.99		0.903				2.13								
114	2261	2022		29.4		0.73		0.902				2.13								
115	2262	2023		37.3		0.82		0.900				2.01								
116	2263	2024		44.8		0.90		0.893				1.91								
117	2264	2025		40.4		0.56		0.884				1.99								

* Specific gravity calculated from average of group.

September 9, 1964

AGE NO. 2 GOLDEN, COLORADO

Lab Group Number: 335-64

Core Hole 14X-34, Utah

Project Number: 840704

Project Engineer: W. H. Reeves

ANALYTICAL LABORATORY REPORT

Sponsor: Shell Oil Company

Date Submitted: September 8, 1964

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Date Reported _____

September 9, 1964

ANALYTICAL LABORATORY REPORT
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Lab. No.	Depth-Ft Sample No.	Description	G/T Oil		G/T Water		Specific Gravity		Bulk Density gm/cc											
			Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd
164	2277	2038		9.15		0.28		0.890			2.44									
165	2278	2039		11.2		0.42		0.893			2.39									
166	2279	2040		35.4		0.87		0.906			2.01									
167	2280	2041		44.5		1.20		0.905			1.82									
168	2281	2042		23.3		0.51		0.890			2.22									
169	2282	2043		24.4		0.69		0.888			2.19									
170	2283	2044		18.6		0.70		0.891			2.25									
171	2284	2045		20.0		0.77		0.896			2.24									
172	2285	2046		35.4		0.73		0.901			2.03									
173	2286	2047		45.8		0.69		0.900			2.19									
174	2287	2048		41.6		0.52		0.904			1.95									
175	2288	2049		73.4		1.46		0.900			1.60									
176	2289	2050		57.1		3.68		0.898			1.65									
183	2290	2051		50.1		1.67		0.885			1.87									
184	2291	2052		44.9		1.13		0.904			1.82									
185	2292	2053		5.09		1.90		0.931			2.23									
186	2293	2054		41.6		0.55		0.898			1.97									
187	2294	2055		47.3		0.60		0.898			1.92									
188	2295	2056		44.3		0.50		0.885			1.88									
189	2296	2057		34.0		1.09		0.886			2.06									
190	2297	2058		26.2		0.54		0.880			2.17									
191	2298	2059		36.2		0.86		0.889			2.06									
192	2299	2060		22.5		0.62		0.896			2.27									
193	2300	2061		16.4		0.52		0.890			2.32									
194	2301	2062		19.1		0.82		0.891			2.30									

ANALYTICAL LABORATORY REPORT

Sponsor: Shell Oil Company

Date Submitted: September 10, 1964

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Lab. No.	Depth-Ft Sample No.	Description	G/T Oil		G/T Water		Specific Gravity		Bulk Density gm/cc											
			Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd
239	2320	2081		7.87		0.20		0.878				2.48								
240	2321	2082		14.0		0.86		0.882				2.40								
241	2322	2083		4.44		1.04		0.886 *				2.43								
242	2323	2084		6.18		1.12		0.871				2.49								
243	2324	2085		29.2		0.71		0.893				2.13								
244	2325	2086		12.4		0.80		0.899				2.40								
245	2326	2087		7.04		0.77		0.878				2.47								
246	2327	2088		7.45		0.40		0.866				2.49								
247	2328	2089		10.5		0.61		0.912				2.43								
248	2329	2090		34.2		0.80		0.900				2.08								
249	2330	2091		24.0		0.71		0.904				2.23								
250	2331	2092		7.86		0.36		0.886				2.53								
251	2332	2093		2.48		2.22		0.886 *				2.57								
252	2333	2094		2.01		1.42		0.886 *				2.63								
253	2334	2095		1.85		1.64		0.886 *				2.65								
254	2335	2096		2.88		3.67		0.886 *				2.54								
255	2336	2097		3.37		1.70		0.886 *				2.59								
256	2337	2098		19.2		0.88		0.907				2.28								
257	2338	2099		26.9		1.47		0.904				2.12								
258	2339	2100		16.3		1.02		0.908				2.31								
259	2340	2101		11.7		0.91		0.901				2.41								
260	2341	2102		13.6		1.03		0.911				2.39								
261	2342	2103		5.75		1.58		0.907				2.48								
262	2343	2104		7.15		0.83		0.891				2.50								
263	2344	2105		6.20		5.32		0.890				2.54								

* Specific gravity calculated from average of group.

Date Reported

September 11, 1964

Date Submitted: September 10, 1964

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September 11. 1964

Date Submitted: September 14, 1964

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Date Reported _____

September 14, 1964

Sponsor: Shell Oil Company

Date Submitted: September 10, 1964

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Project Number

Sponsor: SI

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These results are on duplicate samples (part of a foot) to compare with results of the full foot. They have not been distributed. (Included - Lab 11/4/13 to 524; 631 to 636; 676; 752 to 783; 832 to 860)

Lab. No.	Depth-Ft Sample No.	Description	G/T Oil		G/T Water		S
			Est	Fnd	Est	Fnd	
493	2240	2501		8.00		0.32	
494	2241	2502		5.73		1.66	
495	2242	2503		9.84		0.38	
496	2243	2504		11.0		0.46	
497	2244	2505		15.0		0.66	
498	2245	2506		8.48		0.38	
499	2246	2507		5.52		0.58	
500	2247	2508		4.44		0.69	
501	2248	2509		4.79		0.65	
502	2249	2510		4.61		1.04	0.899
503	2250	2511		4.01		0.90	0.900 *
504	2251	2512		4.17		1.38	0.900 *
505	2252	2513		13.7		1.54	0.902
506	2253	2514		9.12		1.35	0.911
507	2254	2515		29.6		1.87	0.896
508	2255	2516		29.6		1.32	0.901
509	2256	2517		23.0		1.24	0.892
510	2257	2518		17.1		0.83	0.893
511	2258	2519		15.5		0.59	0.895
512	2259	2520		26.0		0.62	0.895
513	2260	2521		31.5		0.62	0.904
514	2261	2522		27.9		0.69	0.906
515	2262	2523		54.8		0.32	0.885
516	2263	2524		38.1		0.85	0.899
517	2264	2525		31.7		0.71	0.868

These results are on duplicate samples (part of a foot) to compare with results of the full foot. They have not been distributed. (Total = Lab 116 4713 to 524; 631 to 636; 676; 752 to 783; 832 to 860)

* Specific gravity calculated from average of group.

Date Honored _____

September 18, 1964

ANALYTICAL LABORATORY REPORT

Sponsor: Shell Oil Company

Date Submitted: September 16, 1964

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ANALYTICAL LABORATORY REPORT
649- PRIVATE AND CONFIDENTIAL

Sponsor: Shell Oil Company

Date Submitted: September 18, 1964

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ANALYTICAL LABORATORY REPORT

649- PRIVATE AND CONFIDENTIAL

Sponsor: Shell Oil Company

Date Submitted: September 21, 1964

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ANALYTICAL LABORATORY REPORT

Sponsor: Shell Oil Company

Date Submitted: September 22, 1964

649- PRIVATE AND CONFIDENTIAL

Lab. No.	Depth-Ft Sample No.	Description	G/T Oil		G/T Water		Specific Gravity		Bulk Density gm/cc											
			Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd
732	2279	2540		57.8		0.39		0.904				1.75								
733	2280	2541		41.0		1.47		0.897				1.94								
734	2281	2542		22.0		0.61		0.902				2.25								
735	2282	2543		22.4		0.37		0.889				2.24								
736	2283	2544		17.9		0.58		0.899				2.24								
737	2284	2545		12.7		0.57		0.898				2.34								
738	2285	2546		31.6		0.64		0.897				2.09								
739	2286	2547		43.8		0.54		0.902				1.94								
740	2287	2548		37.7		0.37		0.889				1.90								
741	2288	2549		85.0		0.50		0.903				1.51								
742	2289	2550		65.4		0.60		0.896				1.66								
743	2290	2551		83.2		0.60		0.893				1.58								
744	2291	2552		60.8		0.54		0.895				1.77								
745	2292	2553		19.4		0.63		0.906				2.30								
746	2293	2554		64.5		0.50		0.904				1.74								
747	2294	2555		55.0		0.56		0.891				1.80								
748	2295	2556		40.4		1.00		0.898				1.94								
749	2296	2557		40.0		0.61		0.883				1.99								
750	2297	2558		27.7		0.54		0.876				2.17								
751	2298	2559		42.0		0.45		0.894				1.98								
752	2299	2560		22.4		0.87		0.895				2.28								
753	2300	2561		11.9		0.40		0.902				2.40								
754	2301	2562		19.2		0.88		0.894				2.32								
755	2302	2563		36.3		0.68		0.898				2.02								
756	2303	2564		21.7		0.40		0.888				2.28								

ANALYTICAL LABORATORY REPORT
649- PRIVATE AND CONFIDENTIAL

Lab. No.	Depth-Ft Sample No.	Description	G/T Oil		G/T Water		Specific Gravity		Bulk Density gm/cc											
			Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd
757	2304	2565		12.9		0.43		0.899				2.39								
758	2305	2566		17.7		0.65		0.896				2.31								
759	2306	2567		45.0		0.96		0.875				1.97								
760	2307	2568		44.2		0.85		0.892				1.98								
761	2308	2569		20.5		0.66		0.903				2.31								
762	2309	2570		44.4		0.77		0.905				1.97								
763	2310	2571		41.3		0.64		0.885				2.02								
764	2311	2572		25.0		0.49		0.896				2.24								
765	2312	2573		25.1		0.41		0.895				2.23								
766	2313	2574		18.2		0.42		0.901				2.35								
767	2314	2575		13.5		0.42		0.895				2.40								
768	2315	2576		11.3		0.46		0.898				2.42								
769	2316	2577		21.3		0.92		0.897				2.30								
770	2317	2578		14.2		0.51		0.900				2.45								
771	2318	2579		11.2		0.42		0.911				2.39								
772	2319	2580		6.36		0.25		0.893				2.51								
773	2320	2581		7.66		0.18		0.894				2.50								
774	2321	2582		12.3		0.42		0.913				2.47								
775	2322	2583		3.65		0.65		0.900 *				2.53								
776	2323	2584		6.48		0.60		0.902				2.53								
777	2324	2585		38.6		1.04		0.903				2.03								
778	2325	2586		10.1		0.69		0.895				2.45								
779	2326	2587		8.77		0.47		0.905				2.48								
780	2327	2588		5.76		0.66		0.884				2.53								
781	2328	2589		12.0		1.02		0.901				2.43								

* Specific gravity calculated from average of group.

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Date Reported

September 23, 1964

Date Submitted: September 22, 1964

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ANALYTICAL LABORATORY REPORT
649- PRIVATE AND CONFIDENTIAL

Sponsor: Shell Oil Company

Date Submitted: September 24, 1964

Lab. No.	Depth-Ft Sample No.	Description	G/T Oil		G/T Water		Specific Gravity		Bulk Density gm/cc											
			Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd
832	2331	2592		6.62		0.34		0.911				2.55								
833	2332	2593		6.62		0.34		0.911				2.57								
834	2333	2594		2.27		2.45		0.899 *				2.61								
835	2334	2595		1.96		1.57		0.899 *				2.65								
836	2335	2596		3.18		1.79		0.899 *				2.60								
837	2336	2597		4.10		1.56		0.899 *				2.59								
838	2337	2598		27.7		1.01		0.904				2.17								
839	2338	2599		28.0		0.62		0.900				2.10								
840	2339	2600		19.2		1.08		0.890				2.31								
841	2340	2601		17.0		0.33		0.906				2.29								
842	2341	2602		19.5		1.44		0.908				2.32								
843	2342	2603		7.82		1.95		0.906				2.49								
844	2343	2604		6.44		0.61		0.899 *				2.54								
845	2344	2605		5.62		0.74		0.893				2.56								
846	2345	2606		6.03		0.62		0.886				2.50								
847	2346	2607		0.64		1.16		0.899 *				2.58								
848	2347	2608		6.78		1.09		0.915				2.53								
849	2348	2609		0.68		0.62		0.899 *				2.59								
850	2349	2610		2.08		0.83		0.899 *				2.52								
851	2350	2611		5.09		0.69		0.899 *				2.51								
852	2351	2612		0.80		0.36		0.899 *				2.57								
853	2352	2613		5.17		1.55		0.899 *				2.53								
854	2353	2614		1.65		0.75		0.905 *				2.53								
855	2354	2615		6.76		0.58		0.910				2.52								
856	2355	2616		1.80		0.65		0.905 *				2.56								

* Specific gravity calculated from average of group.

ANALYTICAL LABORATORY REPORT

Sponsor: Shell Oil Company

Date Submitted: September 24, 1964

649- PRIVATE AND CONFIDENTIAL

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* Specific gravity calculated from average of group.

Date Reported

September 25, 1964

ANALYTICAL LABORATORY REPORT
6412- PRIVATE AND CONFIDENTIAL

Lab Group Numbr 649-64

Project Number: 840704

Sponsor: Shell Oil Company

Project Engineer: W. H. Reynolds

Date Submitted: December 16, 1964

Core Hole 14X-34, Utah

Lab. No.	Depth-Ft Sample No.	Description	G/T Oil		G/T Water		Specific Gravity		Bulk Density gm/cc											
			Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd
2052	1750	2700		6.26		0.48		0.920			2.55									
2053	1751	2701		4.85		0.64		0.922			2.56									
2054	1752	2702		6.41		0.71		0.917			2.54									
2055	1753	2703		6.74		0.69		0.924			2.54									
2056	1754	2704		8.19		0.88		0.924			2.49									
2057	1755	2705		7.63		0.78		0.918			2.53									
2058	1756	2706		6.09		0.23		0.924			2.53									
2059	1757	2707		6.36		0.86		0.924			2.55									
2060	1758	2708		6.10		0.97		0.920			2.54									
2061	1759	2709		5.76		0.50		0.919			2.54									
2062	1760	2710		5.97		0.75		0.916			2.55									
2063	1761	2711		8.53		1.03		0.922			2.51									
2064	1762	2712		6.86		1.06		0.925			2.52									
2065	1763	2713		7.30		0.56		0.921			2.53									
2066	1764	2714		6.56		0.69		0.920			2.54									
2067	1765	2715		7.15		0.77		0.921			2.54									
2068	1766	2716		8.04		0.68		0.928			2.53									
2069	1767	2717		7.94		0.70		0.922			2.52									
2070	1768	2718		7.93		0.89		0.926			2.54									
2071	1769	2719		5.86		0.65		0.925			2.56									
2072	1770	2720		5.26		0.58		0.918			2.57									
2073	1771	2721		6.22		0.35		0.917			2.53									
2074	1772	2722		4.79		0.51		0.919			2.52									
2075	1773	2723		4.11		0.82		0.911 *			2.55									
2076	1774	2724		3.23		0.84		0.911 *			2.55									

* Specific gravity calculated from average of group.

ANALYTICAL LABORATORY REPORT

6412- PRIVATE AND CONFIDENTIAL

Lab Group Numl 649-64

Project Number: 840704

Sponsor: Shell Oil Company

Project Engineers: W. H. Reys

Date Submitted: December 16, 1964

Core Hole 14X-34, Utah

Lab. No.	Depth-Ft Sample No.	Description	G/T Oil		G/T Water		Specific Gravity		Bulk Density gm/cc											
			Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd
2077	1775	2725		4.01		0.23		0.911	*		2.58									
2078	1776	2726		17.7		0.82		0.905			2.31									
2079	1777	2727		15.6		1.03		0.907			2.30									
2080	1778	2728		8.53		0.58		0.930			2.51									
2081	1779	2729		6.44		0.83		0.921			2.52									
2082	1780	2730		6.56		0.98		0.917			2.50									
2083	1781	2731		6.77		0.66		0.911			2.50									
2084	1782	2732		6.87		0.55		0.912			2.49									
2085	1783	2733		8.05		0.85		0.920			2.51									
2086	1784	2734		25.9		0.76		0.899			2.17									
2087	1785	2735		24.0		0.72		0.904			2.19									
2088	1786	2736		15.0		0.91		0.912			2.37									
2089	1787	2737		9.11		0.83		0.914			2.49									
2090	1788	2738		14.1		1.01		0.905			2.33									
2091	1789	2739		7.16		0.82		0.920			2.54									
2092	1790	2740		4.63		0.65		0.919			2.58									
2093	1791	2741		5.73		1.04		0.911	*		2.47									
2094	1792	2742		26.9		1.07		0.914			2.19									
2095	1793	2743		23.3		0.82		0.907			2.29									
2096	1794	2744		12.8		0.78		0.919			2.43									
2097	1795	2745		8.48		0.69		0.920			2.51									
2098	1796	2746		6.89		0.50		0.917			2.53									
2099	1797	2747		6.81		0.52		0.915			2.54									
2100	1798	2748		11.6		0.60		0.907			2.55									
2101	1799	2749		15.4		0.80		0.901			2.22									

* Specific gravity calculated from average of group.

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Date Reported

January 4, 1965

6412- ANALYTICAL LABORATORY REPORT
PRIVATE AND CONFIDENTIAL

Lab Group Number 649-64 Project Engineers W. H. Rees

Project Number 840704 Date Submitted December 16, 1964

Sponsor Shell Oil Company Core Hole 14X-34, Utah

Lab. No.	Depth-Ft Sample	Description	G/T Oil		G/T Water		Specific Gravity		Bulk Density gm/cc											
			Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd
2102	1800	2750		15.5		0.64		0.908			2.34		Dawsonite							
2103	1801	2751		21.7		1.00		0.910			2.25									
2104	1802	2752		13.3		0.83		0.906			2.36									
2105	1803	2753		4.63		14.7		0.911 *			2.26									
2106	1804	2754		14.6		2.26		0.899			2.33									
2107	1805	2755		13.7		3.19		0.917			2.32									
2108	1806	2756		9.67		0.46		0.912			2.51									
2109	1807	2757		3.55		14.5		0.911 *			2.27									
2110	1809	2759		13.9		4.93		0.907			2.21									
2111	1810	2760		7.09		0.52		0.911 *			2.53									
2112	1811	2761		6.93		0.21		0.904			2.52									
2113	1812	2762		21.0		0.43		0.907			2.25									
2114	1813	2763		18.1		4.14		0.902			2.19									
2115	1814	2764		22.8		0.72		0.895			2.21									
2116	1815	2765		21.3		0.76		0.898			2.22									
2117	1816	2766		20.2		0.57		0.904			2.30									
2118	1817	2767		10.2		10.7		0.909			2.23									
2119	1818	2768		8.00		0.77		0.920			2.52									
2120	1819	2769		7.72		0.67		0.916			2.51									
2121	1820	2770		7.18		0.43		0.909			2.47									
2122	1821	2771		6.74		0.59		0.912			2.54									
2123	1822	2772		7.33		0.60		0.907			2.46									
2124	1823	2773		6.14		0.47		0.913			2.49									
2125	1824	2774		6.02		0.40		0.909			2.46									
2126	1825	2775		5.29		0.53		0.908			2.44									

* Specific gravity calculated from average of group.

Revised 2-27-65

Date Reported January 4, 1968

6412- ANALYTICAL LABORATORY REPORT
PRIVATE AND CONFIDENTIAL

Lab Group Num' 649-64

Project Number: 840704

Sponsor: Shell Oil Company

Project Engineer: W. H. Rees

Date Submitted: December 16, 1964

Core Hole 14X-34, Utah

Lab. No.	Depth-Ft Sample No.	Description	G/T Oil		G/T Water		Specific Gravity		Bulk Density gm/cc											
			Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd
2127	1826	2776		4.40		0.55		0.903			2.44									
2128	1827	2777		7.06		0.59		0.905			2.49									
2129	1828	2778		6.35		0.47		0.904			2.48									
2130	1829	2779		8.94		0.22		0.903			2.48									
2131	1830	2780		42.6		0.95		0.903			1.93									
2132	1890	2840		8.19		0.54		0.916			2.38									
2133	1891	2841		8.09		0.42		0.917			2.46									
2134	1892	2842		10.5		0.39		0.924			2.47									
2135	1893	2843		10.2		0.39		0.914			2.48									
2136	1894	2844		13.7		0.56		0.920			2.40									
2137	1895	2845		16.2		0.48		0.920			2.36									
2138	1896	2846		4.31		18.0		0.911 *			2.21		Dawsonite							
2139	1897	2847		10.9		0.33		0.919			2.45									
2140	1898	2848		5.92		1.18		0.923			2.34									
2141	1899	2849		1.28		1.42		0.923 *			2.31									
2142	1900	2850		3.56		0.91		0.923 *			2.27									
2143	1901	2851		7.26		0.59		0.920			2.50									
2144	1902	2852		3.53		1.84		0.923 *			2.44									
2145	1903	2853		11.0		0.31		0.915			2.47									
2146	1904	2854		13.2		2.15		0.909			2.41									
2147	1905	2855		12.4		1.02		0.919			2.44		Some Dawsonite							
2148	1906	2856		11.7		0.41		0.919			2.45									
2149	1907	2857		11.9		0.47		0.921			2.45									
2150	1908	2858		11.5		0.60		0.918			2.45									
2151	1909	2859		10.4		0.68		0.918			2.45									

* Specific gravity calculated from average of group.

Revisor: [Signature]

Date Reported January 4, 1965

ANALYTICAL LABORATORY REPORT

6412- PRIVATE AND CONFIDENTIAL

Lab. No.	Depth-Ft Samp. No.	Description	G/T Oil		G/T Water		Specific Gravity		Bulk Density gm/cc											
			Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd
2152	1910	2860		11.3		0.88		0.923			2.45									
2153	1911	2861		8.60		3.57		0.925			2.41									
2154	1912	2862		9.85		1.01		0.924			2.38									
2155	1913	2863		8.79		0.45		0.913			2.45									
2156	1914	2864		Trace		20.9		0.923	*		2.23									
2157	1915	2865		9.92		7.28		0.944			2.32			Some Dawsonite						
2158	1916	2866		Trace		22.2		0.923	*		2.21			Dawsonite						
2159	1920	2867		7.66		9.45		0.950			2.30									
2160	1947	2897		6.81		0.52		0.923	*		2.52									
2161	1948	2898		7.92		0.38		0.921			2.53									
2162	1949	2899		9.27		0.65		0.916			2.48									
2163	1950	2900		8.06		0.48		0.924			2.53									
2164	1951	2901		11.2		0.53		0.911			2.42									
2165	1952	2902		14.6		0.39		0.898			2.35									
2166	1953	2903		7.63		0.46		0.909			2.53									
2167	1954	2904		8.17		0.39		0.907			2.47									
2168	1955	2905		7.69		0.46		0.906			2.46									
2169	1956	2906		8.71		0.63		0.911			2.49									
2170	1957	2907		6.92		0.47		0.919			2.54									
2171	1958	2908		6.90		2.19		0.927			2.48									
2172	1959	2909		6.62		0.62		0.913			2.54									
2173	1960	2910		16.5		0.72		0.913			2.36									
2174	2355	2116		1.70		0.66		0.913	*		2.51									
2175	2356	2117		1.90		0.63		0.913	*		2.54									
2176	2357	2118		2.97		0.71		0.913	*		2.55									

* Specific gravity calculated from average of group.

Revised by J. H. Rees

Date Reported

January 4, 1968

ANALYTICAL LABORATORY REPORT

6412- PRIVATE AND CONFIDENTIAL

Lab Group Numbr 649-64

Project Engineer: W. H. Reeves

Project Number: 840704

Date Submitted: December 10, 1964

Sponsor: Shell Oil Company

Core Hole 14X-34, Utah

Lab. No.	Depth-Ft Sample No.	Description	G/T Oil		G/T Water		Specific Gravity		Bulk Density gm/cc											
			Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd
2177	2358	2119		6.90		2.22		0.914			2.50									
2178	2359	2120		5.16		2.21		0.912			2.51									
2179	2360	2121		4.76		2.45		0.909			2.53									
2179A	2430	2191		2.39		2.03		0.913	*		2.54									
2180	2431	2192		3.59		1.64		0.913	*		2.53									
2181	2432	2193		4.90		1.36		0.913	*		2.56									
2182	2433	2194		2.68		1.88		0.900	*		2.59									
2183	2434	2195		2.05		1.84		0.900	*		2.62									
2184	2435	2196		8.26		1.64		0.909			2.52									
2185	2436	2197		21.0		1.80		0.904			2.27									
2186	2437	2198		48.4		2.12		0.909			1.86									
2187	2438	2199		14.2		0.75		0.900			2.38									
2188	2439	2200		11.3		1.11		0.903			2.34									
2189	2440	2201		23.2		1.60		0.896			2.22									
2190	2441	2202		46.6		1.04		0.896			1.92									
2191	2442	2203		22.0		0.93		0.891			2.27									
2192	2443	2204		12.1		0.91		0.888			2.35									
2193	2444	2205		12.4		1.06		0.899			2.44									
2194	2445	2206		20.9		1.08		0.898			2.56									
2195	2446	2207		13.0		1.41		0.899			2.41									
2196	2447	2208		2.56		0.96		0.900	*		2.59									
2197	2448	2209		2.02		1.32		0.900	*		2.58									
2198	2449	2210		5.25		1.19		0.908			2.55									
2199	2450	2211		11.6		1.19		0.902			2.44									
2200	2451	2212		13.5		1.27		0.900			2.41									
2201	2452	2213		10.8		0.96		0.905			2.45									

* Specific gravity calculated from average of group.

Revisor

Date Reported January 5, 1965

ANALYTICAL LABORATORY REPORT
6412- PRIVATE AND CONFIDENTIAL

Lab Group Number 649-64 Project Engineer: W. H. Reeves
Project Number: 840704 Date Submitted: December 30, 1964
Sponsor: Shell Oil Company Core Hole 14X-34, Utah

Lab. No.	Depth-Ft Sample No.	Description	G/T Oil		G/T Water		Specific Gravity		Bulk Density gm/cc											
			Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd
2202	2453	2214		18.5		1.44		0.904			2.31									
2203	2454	2215		22.1		1.59		0.895			2.21									
2204	2455	2216		10.4		1.30		0.904			2.48									
2205	2456	2217		13.8		1.25		0.902			2.38									
2206	2457	2218		12.1		1.41		0.897			2.42									
2207	2458	2219		11.7		1.51		0.905			2.41									
2208	2459	2220		9.08		1.39		0.903			2.47									
2209	2460	2221		12.7		1.32		0.894			2.41									
2210	2461	2222		31.9		1.79		0.899			2.10									
2211	2462	2223		6.93		0.78		0.891			2.34									
2212	2463	2224		9.04		1.26		0.906			2.48									
2213	2464	2225		7.72		1.24		0.907			2.49									
2214	2465	2226		12.1		1.56		0.908			2.42									
2215	2466	2227		23.8		1.34		0.902			2.22									
2216	2467	2228		41.3		0.86		0.901			1.99									
2217	2468	2229		22.2		1.48		0.901			2.24									
2218	2469	2230		29.6		1.21		0.913			2.13									
2219	2470	2231		28.6		2.62		0.915			2.01									
2220	2471	2232		6.27		1.50		0.908			2.46									
2221	2472	2233		2.69		2.22		0.905 *			2.55									
2222	2473	2234		4.37		1.78		0.912			2.49									
2223	2474	2235		4.23		1.91		0.905 *			2.47									
2224	2475	2236		5.55		1.31		0.911			2.46									
2225	2476	2237		15.2		1.43		0.918			2.36									
2226	2477	2238		29.6		2.28		0.919			2.10									

* Specific gravity calculated from average of group.

ANALYTICAL LABORATORY REPORT
6412- PRIVATE AND CONFIDENTIAL

Lab Group Numbr 649-64 Project Engineer: W. H. Reeves
Project Number: 840704 Date Submitted: December 16, 1964
Sponsor: Shell Oil Company Core Hole 14X-34, Utah

Lab. No.	Depth-Ft Samp. No.	Description	G/T Oil		G/T Water		Specific Gravity		Bulk Density gm/cc											
			Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd	Est	Fnd
2227	2478	2239		23.5		2.33		0.908				2.17								
2228	2479	2240		19.0		2.70		0.890				2.28								
2229	2480	2241		22.4		2.19		0.892				2.22								
2230	2481	2242		10.3		1.90		0.887				2.40								
2231	2482	2243		13.1		0.77		0.892				2.38								
2232	2483	2244		17.7		1.38		0.905				2.31								
2233	2484	2245		24.2		1.67		0.911				2.17								
2234	2485	2246		4.68		0.60		0.901	*			2.41								
2235	2486	2247		8.60		2.17		0.906				2.39								
2236	2487	2248		4.59		0.30		0.901	*			2.32								
2237	2488	2249		7.20		0.24		0.905				2.34								
2238	2489	2250		13.7		1.33		0.900				2.32								
2239	2490	2251		27.5		2.90		0.906				2.10								
2240	2491	2252		13.8		2.88		0.897				2.31								
2241	2492	2253		11.8		3.11		0.903				2.34								
2242	2493	2254		31.2		1.80		0.901	*			2.08								
2243	2494	2255		8.49		2.71		0.901				2.44								
2244	2495	2256		5.42		2.71		0.901	*			2.50								
2245	2496	2257		3.89		2.41		0.901	*			2.49								
2246	2497	2258		1.53		4.19		0.901	*			2.49								
2247	2498	2259		1.95		4.00		0.901	*			2.46								
2248	2499	2260		2.21		4.97		0.901	*			2.45								
2249	2500	2261		1.97		3.95		0.901	*			2.47								
2250	2501	2262		2.18		3.92		0.901	*			2.49								
2251	2502	2263		2.88		3.54		0.901	*			2.45								

* Specific gravity calculated from average of group.

ANALYTICAL LABORATORY REPORT

~~PRIVATE AND CONFIDENTIAL~~

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* Specific gravity calculated from average of group.

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Date Reported **January 6, 1965**