

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from H. M. Byllesby and Company, Incorporated's Green Canyon core hole, drilled 22 feet S. 30° E. of the W $\frac{1}{4}$ corner, Sec. 8, T. 13 S., R. 20 E., Uintah County, Utah

Surface elevation 5,964 feet

Mahogany marker 5797.7

Sample number		Run No.	Yield of product				Gal. per ton		Specific gravity of oil at 60°/60° F.	Properties of spent shale	Remarks	
Laramie	Their		Weight percent		Spent shale	Gas + loss	Oil	Water		Tendency to		
			Oil	Water								
SBR59-1997	0- 0.5	60702	0.2	0.3	99.4	0.1	0.4a	0.8	0.909	None		
SBR59-1998	0.5- 2.0	60703	1.3	2.4	95.6	.7	3.5a	5.8		None		
SBR59-1999	2.0- 4.0	60704	1.6	3.1	94.5	.8	4.1a	7.4		None		
SBR59-2000	4.0- 6.0	60705	2.4	3.5	93.1	1.0	6.2	8.4		None		
SBR59-2001	6.0- 9.0	60706	1.6	2.7	94.8	.9	4.2a	6.5		None		
SBR59-2002	9.0- 9.7	60707	1.1	1.3	97.1	.5	2.8a	3.1		None		
SBR59-2003	9.7-12.0	60708	1.8	3.2	93.9	1.1	4.6a	7.7		None		
SBR59-2004	12.0-20.0	60709	.7	2.7	95.7	.9	1.9a	6.5		None		
SBR59-2005	20.0-21.0	60710	.6	.2	98.9	.3	1.5a	.5	.918	None		
SBR59-2006	21.0-23.0	60711	3.3	2.8	92.8	1.1	8.5	6.8		None		
SBR59-2007	23.0-24.7	60712	1.8	2.6	94.8	.8	4.6a	6.2		None		
SBR59-2008	24.7-25.9	60713	.8	3.5	95.0	.7	2.0a	8.5		None		
SBR59-2009	25.9-27.3	60714	1.0	4.0	94.3	.7	2.6a	9.6		None		
SBR59-2010	27.3-28.8	60715	2.9	3.8	92.2	1.1	7.7	9.0		.905	None	
SBR59-2011	28.8-30.5	60716	3.3	.1	95.9	.7	8.7	.2		.896	None	
SBR59-2012	30.5-32.2	60717	3.2	1.8	94.1	.9	8.3	4.3		.919	None	
SBR59-2013	32.2-33.7	60718	4.5	1.9	92.7	.9	11.7	4.6	.925	None		
SBR59-2014	33.7-34.8	60719	4.6	2.1	92.1	1.2	12.0	5.0	.925	None		
SBR59-2015	34.8-36.0	60720	5.9	2.3	90.4	1.4	15.2	5.5	.923	None		
SBR59-2016	36.0-37.3	60721	2.7	1.9	94.6	.8	7.0	4.4	.923	None		
SBR59-2017	37.3-39.7	60722	1.2	1.6	96.7	.5	3.1a	3.8	.923	None		
SBR59-2018	39.7-41.0	60723	1.8	2.2	95.4	.6	4.6a	5.3		None		
SBR59-2019	41.0-42.5	60724	3.3	1.9	93.9	.9	8.7	4.6		None		
SBR59-2020	42.5-44.0	60725	1.2	1.8	96.4	.6	3.0a	4.4		None		
SBR59-2021	44.0-45.5	60726	1.3	1.4	96.7	.6	3.5a	3.2		None		
SBR59-2022	45.5-47.0	60727	1.4	1.6	96.3	.7	3.8a	3.8		None		
SBR59-2023	47.0-49.0	60728	.4	.3	99.0	.3	1.0a	.7		None		
SBR59-2024	49.0-51.0	60729	.5	.5	98.8	.2	1.3a	1.1		None		
SBR59-2025	51.0-52.4	60730	.7	1.2	97.8	.3	1.8a	2.9	None			
SBR59-2026	52.4-53.7	60731	3.0	1.9	94.2	.9	7.9	4.6	.922	None		

a - Specific gravity estimated due to insufficient oil.

Core samples received April 7, 1959; assays made on air-dried samples.

Laramie Petroleum Research Center, Laramie, Wyoming, Illustration No. SBR-2737P April 28, 1959

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from H. M. Byllesby and Company, Incorporated's Green Canyon core hole, drilled 22 feet S.,
30° E. of the W $\frac{1}{4}$ corner, Sec. 8, T. 13 S., R. 20 E., Uintah County, Utah

Surface elevation 5,964 feet

Sample number		Run No.	Yield of product				Gal. per ton		Specific gravity of oil at 60°/60° F.	Properties of spent shale		Remarks
			Weight percent		Spent shale	Gas + loss				Tendency to		
Laramie	Their		Oil	Water					Oil	Water		coke
SBR59-2027	53.7-55.0	60732	3.9	2.1	92.8	1.2	10.0	5.0	0.926	None		
SBR59-2028	55.0-56.0	60733	3.1	1.7	94.2	1.0	7.9	4.1	.932	None		
SBR59-2029	56.0-57.2	60734	2.1	1.4	95.9	.6	5.3	3.4	.925	None		
SBR59-2030	57.2-59.2	60735	1.7	1.4	96.2	.7	4.3a	3.5		None		
SBR59-2031	59.2-61.2	60736	2.4	1.4	95.4	.8	6.2	3.4	.924	None		
SBR59-2032	61.2-62.0	60737	7.4	1.7	89.6	1.3	19.2	4.1	.921	None		
SBR59-2033	62.0-63.2	60738	3.2	1.5	94.2	1.1	8.3	3.6	.927	None		
SBR59-2034	63.2-64.8	60739	3.1	1.7	94.1	1.1	8.0	4.0	.927	None		
SBR59-2035	64.8-66.8	60740	3.0	2.1	93.8	1.1	7.7	5.0	.929	None		
SBR59-2036	66.8-68.7	60741	3.6	2.0	93.2	1.2	9.4	4.7	.921	None		
SBR59-2037	68.7-70.1	60742	7.4	1.9	89.5	1.2	19.4	4.6	.915	None		
SBR59-2038	70.1-71.2	60743	3.6	1.9	93.7	.8	9.4	4.6	.921	None		
SBR59-2039	71.2-72.5	60744	3.7	1.0	94.2	1.1	9.6	2.4	.920	None		
SBR59-2040	72.5-73.8	60745	7.9	1.5	89.0	1.6	20.8	3.5	.912	None		
SBR59-2041	73.8-75.1	60746	3.6	1.5	94.0	.9	9.2	3.7	.921	None		
SBR59-2042	75.1-77.1	60747	1.0	1.2	97.3	.5	2.6a	2.9		None		
SBR59-2043	77.1-79.1	60748	.9	1.4	97.0	.7	2.4a	3.4		None		
SBR59-2044	79.1-81.0	60749	.4	1.8	97.2	.6	.9a	4.4		None		
SBR59-2045	81.0-82.4	60750	.8	.1	98.8	.3	2.0a	.2		None		
SBR59-2046	82.4-83.6	60751	3.3	.1	96.1	.5	8.6	.2	.917	None		
SBR59-2047	83.6-85.1	60752	1.8	1.9	95.8	.5	4.6a	4.6		None		
SBR59-2048	85.1-86.7	60753	.3	.1	99.3	.3	.6a	.4		None		
SBR59-2049	86.7-88.7	60754	.2	.3	99.0	.5	.6a	.6		None		
SBR59-2050	88.7-90.6	60755	.2	.3	99.0	.5	.6a	.6		None		
SBR59-2051	90.6-91.7	60756	3.0	.6	95.4	1.0	7.9	1.3	.912	None		
SBR59-2052	91.7-93.1	60757	1.8	1.7	95.6	.9	4.8a	4.0		None		
SBR59-2053	93.1-95.1	60758	.7	1.0	97.8	.5	1.7a	2.5		None		
SBR59-2054	95.1-97.0	60759	.8	2.3	96.2	.7	2.1a	5.4		None		
SBR59-2055	97.0-98.0	60760	2.7	3.4	93.0	.9	7.2	8.0	.909	None		
SBR59-2056	98.0-99.3	60761	10.8	2.6	84.4	2.2	28.5	6.2	.905	None		

a - Specific gravity estimated due to insufficient oil

Core samples received April 7, 1959; assays made on air-dried samples.

Laramie Petroleum Research Center, Laramie, Wyoming, Illustration No. SBR-2738P April 28, 1959

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from H. M. Byllesby and Company, Incorporated's Green Canyon core hole, drilled 22 feet S.,
30° E. of the W $\frac{1}{4}$ corner, Sec. 8, T. 13 S., R. 20 E., Uintah County, Utah

Surface elevation 5,964 feet

Sample number		Run No.	Yield of product				Specific gravity of oil at 60°/60° F.			Properties of spent shale Tendency to coke		Remarks
			Weight percent		Spent shale	Gas + loss						
Laramie	Their		Oil	Water					Oil	ft.	Water	
SBR59-2057	99.3-100.5	60762	3.2	1.5	94.0	1.3	8.5		3.6	0.919	None	
SBR59-2058	100.5-102.5	60763	2.1	1.6	95.1	1.2	5.6		3.8	.917	None	
SBR59-2059	102.5-103.6	60764	2.3	1.5	95.1	1.1	6.0		3.6	.915	None	
SBR59-2060	103.6-105.3	60765	1.5	2.0	95.6	.9	4.0a		4.8		None	
SBR59-2061	105.3-107.3	60766	2.7	2.3	94.2	.8	7.1	2.0	5.5	.921	None	
SBR59-2062	107.3-108.6	60767	6.8	1.7	90.2	1.3	17.7	1.3	4.2	.921	None	
SBR59-2063	108.6-109.9	60768	6.3	1.5	90.7	1.5	16.4	1.3	3.6	.921	None	
SBR59-2064	109.9-111.5	60769	6.9	2.0	89.5	1.6	18.2	1.6	4.8	.905	None	
SBR59-2065	111.5-113.0	60770	11.4	1.3	85.3	2.0	30.4	1.5	3.2	.898	None	
SBR59-2066	113.0-114.0	60771	4.8	.9	93.2	1.1	12.7	1.0	2.2	.903	None	
SBR59-2067	114.0-116.0	60772	2.4	1.4	95.4	.8	6.3	2.0	3.5	.915	None	
SBR59-2068	116.0-118.0	60773	1.9	1.1	96.2	.8	5.0a		2.5		None	
SBR59-2069	118.0-120.0	60774	1.1	.6	97.8	.5	2.8a		1.6		None	
SBR59-2070	120.0-122.0	60775	1.3	.9	97.3	.5	3.3a		2.2		None	
SBR59-2071	122.0-124.0	60776	1.2	.7	97.6	.5	3.2a		1.6		None	
SBR59-2072	124.0-126.0	60777	3.5	.9	94.8	.8	9.2		2.0	.920	None	
SBR59-2073	126.0-127.3	60778	2.4	.5	96.5	.6	6.2		1.2	.923	None	
SBR59-2074	127.3-129.3	60779	.9	.4	98.2	.5	2.4a		.8		None	
SBR59-2075	129.3-131.3	60780	1.0	.3	98.1	.6	2.6a		.7		None	
SBR59-2076	131.3-133.3	60781	1.3	.5	97.7	.5	3.3a		1.3		None	
SBR59-2077	133.3-135.3	60782	.9	.2	98.5	.4	2.3a		.6		None	
SBR59-2078	135.3-137.3	60783	.5	.6	98.5	.4	1.3a		1.3		None	
SBR59-2079	137.3-139.3	60784	.5	1.5	97.6	.4	1.4a		3.6		None	
SBR59-2080	139.3-141.3	60785	.2	2.5	96.8	.5	.6a		6.0		None	
SBR59-2081	141.3-143.3	60786	.1	3.0	96.4	.5	.2a		7.2		None	
SBR59-2082	143.3-145.3	60787	.1	3.1	96.5	.3	.2a		7.5		None	
SBR59-2083	145.3-147.3	60788	.2	2.2	97.2	.4	.6a		5.2		None	
SBR59-2084	147.3-149.3	60789	.3	1.4	97.9	.4	.8a		3.5		None	
SBR59-2085	149.3-151.3	60790	.8	1.8	97.0	.4	2.2a		4.3		None	
SBR59-2086	151.3-153.3	60791	.5	1.2	98.0	.3	1.3a		2.8		None	

a - Specific gravity estimated due to insufficient oil.

Core samples received April 7, 1959; assays made on air-dried samples.

Laramie Petroleum Research Center, Laramie, Wyoming, Illustration No. SER-2739P April 28, 1959

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from H. M. Byllesby and Company, Incorporated's Green Canyon core hole, drilled 22 feet S.,
30° E. of the W1/4 corner, Sec. 8, T. 13 S., R. 20 E., Uintah County, Utah

Surface elevation - 5,964 feet

Sample number		Run No.	Yield of product				Specific gravity			Properties of spent shale				Remarks	
			Weight percent		Spent shale	Gas + loss	Gal. per ton			of oil at 60°/60° F	Tendency to coke	Hydrogen	Hydrogen		
			Oil	Water			Oil	Water	Water						
Laramie	Their														
SBR59-2087	153.3-155.3	60792	1.5	1.3	96.6	0.6	3.9	2.0	3.1	2.61	5.22	none	5.22	20.36	20.36
SBR59-2088	155.3-156.3	60793	2.8	2.0	94.4	.8	7.6	1.0	4.8	2.53	0.900	none	7.75	19.23	39.59
SBR59-2089	156.3-157.7	60794	3.8	.5	95.0	.7	9.8	1.4	1.2	2.48	.914	none	11.22	34.00	93.59
SBR59-2090	157.7-158.8	60795	9.8	1.0	87.3	1.9	25.9	1.1	2.4	2.20	.910	none	2.42	62.68	62.68
SBR59-2091	158.8-160.0	60796	7.2	1.2	89.7	1.9	19.1	1.2	2.9	2.31	.911	none	5.19	52.91	115.59
SBR59-2092	160.0-161.1	60797	6.0	1.2	91.5	1.3	15.9	1.1	2.9	2.36	.898	none	7.79	41.34	156.93
SBR59-2093	161.1-162.3	60798	5.2	.4	93.3	1.1	13.9	1.2	.8	2.40	.909	none	10.67	40.03	196.96
SBR59-2094	162.3-163.3	60799	9.3	.9	87.9	1.9	24.3	1.0	2.3	2.24	.915	none	12.91	54.43	251.39
SBR59-2095	163.3-164.3	60800	7.5	1.1	89.9	1.5	19.6	1.0	2.8	2.30	.913	none	15.21	45.08	296.47
SBR59-2096	164.3-165.3	60801	17.2	1.2	78.8	2.8	45.7	1.0	2.9	1.94	.902	slight	17.15	88.66	385.13
SBR59-2097	165.3-166.3	60802	21.0	2.1	72.9	4.0	55.6	1.0	5.2	1.82	.903	medium	18.97	101.19	486.32
SBR59-2098	166.3-167.3	60803	24.1	2.8	68.5	4.6	64.0	1.0	6.7	1.74	.902	medium	20.71	111.36	597.68
SBR59-2099	167.3-168.3	60804	14.8	1.5	80.7	3.0	39.3	1.0	3.6	2.02	.903	none	22.73	79.38	677.06
SBR59-2100	168.3-169.3	60805	18.8	2.0	75.7	3.5	49.4	1.0	4.8	1.90	.912	none	24.63	93.86	770.92
SBR59-2101	169.3-170.4	60806	7.1	.9	90.2	1.8	18.6	1.1	2.0	2.32	.917	none	27.18	47.43	818.35
SBR59-2102	170.4-172.0	60807	5.5	.8	92.0	1.7	14.3	1.6	2.0	2.40	.913	none	31.02	54.91	873.26
SBR59-2103	172.0-172.7	60808	14.9	1.5	80.7	2.9	39.1	0.7	3.6	2.02	.915	none	32.43	55.13	928.39
SBR59-2104	172.7-174.0	60809	5.0	.5	93.2	1.3	12.9	1.3	1.2	2.42	.921	none	35.58	40.64	969.03
SBR59-2105	174.0-175.4	60810	5.8	.7	72.0	1.5	15.4	1.5	1.6	2.37	.908	none	39.13	54.67	1023.70
SBR59-2106	175.4-177.0	60811	13.2	1.8	82.3	2.7	35.1	1.6	4.3	2.07	.901	none	42.44	116.18	1139.88
SBR59-2107	177.0-178.4	60812	4.4	1.1	93.1	1.4	12.0	1.4	2.5	2.44	.886	none	45.86	41.04	1180.92
SBR59-2108	178.4-179.4	60813	5.9	1.2	91.6	1.3	15.8	1.0	3.0	2.37	.887	none	48.23	37.45	1218.37
SBR59-2109	179.4-180.1	60814	11.7	1.6	84.8	1.9	31.2	0.7	3.8	2.13	.901	none	49.72	46.49	1264.86
SBR59-2110	180.1-180.9	60815	3.9	.9	94.4	.8	10.2	0.8	2.2	2.47	.911	none	51.70	20.20	1285.06
SBR59-2111	180.9-182.1	60816	1.5	.2	97.8	.5	4.0	1.2	.5	2.61		none	54.83	12.52	1297.58
SBR59-2112	182.1-183.0	60817	3.6	.8	94.6	1.0	9.3	0.9	1.9	2.51	.918	none	57.09	21.02	1318.60
SBR59-2113	183.0-184.0	60818	8.2	1.4	88.8	1.6	21.3	1.0	3.5	2.27	.921	none	59.36	48.35	1366.95
SBR59-2114	184.0-184.8	60819	4.6	1.9	92.3	1.2	12.4	0.8	4.4	2.43	.891	none	61.30	24.06	1391.01
SBR59-2115	184.8-186.0	60820	2.2	1.4	95.5	.9	5.7	1.2	3.4	2.54	.907	none	64.37	17.50	1408.51
SBR59-2116	186.0-187.0	60821	1.6	1.7	95.9	.8	4.1	1.0	4.1	2.61		none	66.98	10.70	1419.21

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Surface elevation - 5,964 feet

Sample number		Run No.	Yield of product				Specific gravity			Properties of spent shale						
			Weight percent		Gal. per ton		of oil at			Tendency to						
Laramie	Their		Oil	Water	Spent shale	Gas + loss	Oil	ft. Water	Sq. 60°/60°F	ft. x Sq.	coke	Av. Sq. Cum.	Av. Sq. Cum.	Remarks		
SBR59-2117	187.0-188.7	60822	1.9	0.5	97.1	0.5	5.0a	1.0	1.1	2.59	2.59	none	69.57	12.95	1432.16	
SBR59-2118	188.7-189.7	60823	1.9	1.5	95.8	.8	5.0a	1.0	3.5	2.59	2.59	none	72.16	12.95	1445.11	
SBR59-2119	189.7-190.7	60824	11.5	2.0	84.5	2.0	30.6	1.0	4.7	2.13	0.902	2.13	none	74.29	65.18	1510.29
SBR59-2120	190.7-191.7	60825	10.5	1.2	86.4	1.9	28.4	1.0	3.0	2.17	.886	2.17	none	76.46	61.63	1571.92
SBR59-2121	191.7-192.7	60826	7.2	1.1	90.1	1.6	19.4	1.0	2.5	2.31	.891	2.31	none	78.77	44.81	1616.73
SBR59-2122	192.7-193.7	60827	6.1	1.2	91.1	1.6	16.2	1.0	2.9	2.36	.907	2.36	none	81.13	38.23	1654.96
SBR59-2123	193.7-195.0	60828	6.2	1.5	90.7	1.6	16.4	1.3	3.6	2.35	.905	3.85	none	84.18	50.02	1704.98
SBR59-2124	195.0-196.2	60829	6.2	1.5	90.4	1.9	16.5	1.2	3.5	2.35	.901	2.82	none	87.00	46.53	1751.51
SBR59-2125	196.2-197.6	60830	3.9	2.0	93.0	1.1	10.4	1.4	4.8	2.47	.902	3.46	none	90.46	35.98	1787.49
SBR59-2126	197.6-198.8	60831	2.8	1.9	94.3	1.0	7.2	1.2	4.6	2.54	.921	3.05	none	93.51	21.96	1809.45
SBR59-2127	198.8-200.8	60832	1.1	.4	98.0	.5	2.8a	2.0	1.1	2.63		5.26	none	97.77	14.73	1824.18
SBR59-2128	200.8-201.9	60833	2.2	.8	96.1	.9	5.7	1.1	2.0	2.56	.920	2.82	none	101.59	16.07	1840.25
SBR59-2129	201.9-202.9	60834	2.8	1.5	94.6	1.1	7.4	1.0	3.6	2.54	.915	2.54	none	104.13	18.80	1859.05
SBR59-2130	202.9-203.9	60835	8.0	1.4	88.8	1.8	20.7	1.0	3.4	2.28	.924	2.28	none	106.41	47.20	1906.25
SBR59-2131	203.9-205.2	60836	2.6	.8	95.8	.8	6.9	1.3	1.9	2.54	.919	3.30	none	109.71	22.77	1929.02
SBR59-2132	205.2-207.0	60837	2.0	.4	96.8	.8	5.2	1.8	.8	2.59	.922	4.66	none	114.37	24.23	1953.25
SBR59-2133	207.0-208.6	60838	3.5	.1	96.0	.4	9.1	1.6	.2	2.50	.917	4.00	none	118.37	36.40	1989.65
SBR59-2134	208.6-209.9	60839	2.7	.3	96.4	.6	7.1	1.3	.7	2.54	.914	3.30	none	121.67	23.43	2013.08
SBR59-2135	209.9-211.3	60840	5.0	1.3	92.6	1.1	13.2	1.4	3.0	2.42	.912	3.39	none	125.06	44.75	2057.83
SBR59-2136	211.3-212.3	60841	3.4	.3	95.5	.8	9.2	1.0	.7	2.50	.899	2.50	none	127.56	23.00	2080.83
SBR59-2137	212.3-214.1	60842	.9	.7	97.9	.5	2.3a	1.8	1.8	2.65		4.77	none	132.33	10.97	2091.80
SBR59-2138	214.1-216.0	60843	.2	1.1	98.4	.3	.6a	1.9	2.6	2.71		5.15	none	137.48		
SBR59-2139	216.0-218.0	60844	.4	1.5	97.6	.5	1.2a	2.0	3.5	2.71		5.42	none	142.90		
SBR59-2140	218.0-219.6	60845	.7	1.3	97.6	.4	1.9a	1.6	3.1	2.66		4.26	none	147.16		
SBR59-2141	219.6-220.9	60846	1.1	1.6	96.9	.4	3.0a	1.3	3.8	2.63		3.42	none	150.58		
SBR59-2142	222.9-224.7	60847	1.7	1.7	96.2	.4	4.4a	1.8	4.1	2.60		4.68	none	155.26		
SBR59-2143	224.7-226.0	60848	8.5	1.3	88.7	1.5	22.2	1.3	3.1	2.24	.919	2.91	none	158.17		
SBR59-2144	226.0-228.0	60849	1.7	1.2	96.7	.4	4.5a	2.0	2.9	2.60		5.20	none	163.37		
SBR59-2145	228.0-229.5	60850	1.2	1.0	97.2	.6	3.2a	1.5	2.4	2.63		3.94	none	167.31		
SBR59-2146	229.5-230.5	60851	2.2	1.4	95.8	.6	5.9	1.0	3.4	2.56	.909	2.56	none			

a. - Specific gravity estimated due to insufficient oil.

Core samples received April 7, 1959; assays made on air-dried samples.

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from H. M. Byllesby and Company, Incorporated's Green Canyon core hole, drilled 22 feet S., 30° E. of the W1/4 corner, Sec. 8, T. 13 S., R. 20 E., Uintah County, Utah

Surface elevation - 5,964 feet

Surface elevation - 5,904 feet

Sample number		Run No.	Yield of product				Specific gravity				Properties of spent shale		Remarks	
			Weight percent		Spent shale	Gas + loss	Gal. per ton		of oil at 60°/60°F.		Tendency to coke			
Laramie	Their		Oil	Water					Oil	Water				
SBR59-21147	230.5-231.4	60852	11.8	1.3	85.1	1.8	30.7	0.9	3.1	2.13	0.917	1.92	none	
SBR59-21148	231.4-232.8	60853	1.0	.8	97.8	.4	2.74	1.8					none	

a. - Specific gravity estimated due to insufficient oil.

Core samples received April 7, 1959; assays made on air-dried samples.