

## OIL-SHALE ASSAYS BY THE MODIFIED FISCHER RETORT METHOD

404 of 25

LR 244

170' of 15

Samples from Continental Oil Company's Oil Springs Unit No. 1, located in the SE 1/4, SW 1/4, SE 1/4 of Sec. 15, T. 12 S., R. 24 E., Uintah County, Utah. Starting elevation 6286'.

Elevation 6286'

Laramie shales 5986

Sample number	Run No.	Yield of product	Specific gravity of oil at 60°/60°F.	Properties of spent shale		Tendency to coke	Remarks
				Percent of orig. shale	Ignition loss		
Laramie	Their	Oil Water Spent Gas +	Oil Water	Oil Water	Oil Water	Oil Water	Oil Water
SBR52-725	0- 20	16748					>1.0
SBR52-726	20- 40	16749	3.7	0.7	94.9	0.7	10.0
SBR52-727	40- 60	16750	3.3	.7	95.3	.7	8.9
SBR52-728	60- 80	16751	4.1	.5	94.5	.9	10.7
SBR52-729	80-100	16752	3.5	.6	95.1	.8	9.3
SBR52-730	100-120	16753	3.5	.8	94.9	.8	9.3
SBR52-731	120-140	16754	3.4	1.1	94.7	.8	9.0
SBR52-732	140-160	16755	4.0	1.0	94.1	.9	10.7
SBR52-733	160-180	16756	4.4	.7	93.6	1.3	11.5
SBR52-734	180-200	16757	4.1	.8	93.7	1.4	11.0
SBR52-735	200-210	16758	4.8	1.6	91.9	1.7	12.7
SBR52-736	210-220	16759	3.7	1.4	93.9	1.0	9.7
SBR52-737	220-230	16760	4.4	1.3	93.3	1.0	11.7
SBR52-738	230-240	16761	3.2	1.3	94.9	.6	8.5
SBR52-739	240-250	16762	3.4	1.1	94.7	.8	8.9
SBR52-740	250-260	16763	4.4	.9	93.5	1.2	11.6
SBR52-741	260-270	16764	2.1	.6	96.7	.6	5.7
SBR52-742	270-280	16765	6.6	.7	91.3	1.4	17.4
SBR52-743	280-290	16766	6.7	1.1	90.7	1.5	17.6
SBR52-744	290-300	16773	10.2	.8	86.8	2.2	27.1
SBR52-745	300-310	16774	10.9	.7	86.2	2.2	29.1
SBR52-746	310-320	16775	10.1	1.8	86.3	1.8	27.0
SBR52-747	320-330	16776	8.0	1.2	89.2	1.6	21.4
SBR52-748	330-340	16777	4.7	.8	93.5	1.0	12.6
SBR52-749	340-350	16778	2.9	.4	96.0	.7	7.7
SBR52-750	350-360	16779	3.2	.3	95.4	1.1	8.4
SBR52-751	360-370	16780	3.6	.5	95.4	.5	9.4
SBR52-752	370-380	16781	2.5	.5	96.9	.1	7.0
SBR52-753	380-390	16782	2.6	.5	96.5	.4	6.9
SBR52-754	390-400	16783	2.0	.4	97.5	.1	5.0*

\*Estimated Core drill cuttings received January 18, 1952: Assays made on air-dried samples.

Petroleum and Oil-Shale Experiment Station, Laramie, Wyoming, Illustration No. S.B.R.-883P

May 20, 1952

## OIL-SHALE ASSAYS BY THE MODIFIED FISCHER RETORT METHOD

Samples from Continental Oil Company's Oil Springs Unit No. 1, located in the SE 1/4, SW 1/4, SE 1/4 of Sec. 15, T. 12 S., R. 24 E., Uintah County, Utah. Starting elevation 6286'.

Sample number	Run	Yield of product				Specific gravity of oil at 60°/60°F.	Properties of spent shale			Remarks			
		Weight percent		Spent shale	Gas + loss		Gal. per ton		Percent of orig. shale		Tendency to coke		
		Oil	Water				Oil	Water				Ignition loss	Ash
Laramie	Their	No.	Oil	Water	shale	loss	Oil	Water	60°/60°F.	loss	Ash		
SBR52-755	400-410	16784	1.7	0.9	97.3	0.1	4.4*	2.0	0.950	9.9	87.4	None	
SBR52-756	410-420	16785	1.0	1.5	97.0	.5	2.5*	3.5	.950	10.2	86.8	"	
SBR52-757	420-430	16786	2.0	1.4	96.5	.1	5.3	3.2	.901	15.6	80.9	"	
SBR52-758	430-440	16787	.6	1.6	97.7	.1	1.6*	3.7	.950	13.1	84.6	"	
SBR52-759	440-450	16788	3.9	.6	94.8	.7	10.3	1.4	.917	6.2	84.6	"	
SBR52-760	450-460	16789	3.3	.6	95.5	.6	8.8	1.5	.910	6.2	89.3	"	
SBR52-761	460-470	16790	2.5	.9	95.9	.7	6.6	2.1	.910	7.2	88.7	"	
SBR52-762	470-480	16791	3.8	.5	95.0	.7	10.1	1.2	.907	3.0	92.0	"	
SBR52-763	480-490	16792	1.8	.9	96.6	.7	4.6*	2.0	.950	4.2	92.4	"	
SBR52-764	490-500	16793	4.1	.6	94.3	1.0	10.7	1.3	.917	4.2	90.1	"	
SBR52-765	500-510	16794	2.7	1.5	95.2	.6	6.8*	3.6	.950	10.3	84.9	"	
SBR52-766	510-520	16796	1.7	2.3	95.6	.4	4.6	5.5	.870	11.1	84.5	"	
SBR52-767	520-530	16797	2.0	1.5	96.2	.3	5.5	3.6	.871	16.1	80.1	"	
SBR52-768	530-540	16798	3.1	.6	95.9	.4	8.6	1.4	.871	23.0	72.9	"	
SBR52-769	540-550	16799	3.1	.7	96.2	.0	8.4	1.7	.871	19.1	77.1	"	
SBR52-770	550-560	16800	2.0	.3	97.6	.1	5.0*	.7	.950	32.5	65.1	"	
SBR52-771	560-570	16801	1.3	.3	98.4	.0	3.2*	.7	.950	12.8	85.6	"	
SBR52-772	570-580	16802	.6	.6	98.7	.1	1.4*	1.4	.950	11.4	87.3	"	
SBR52-773	580-590	16803	.8	.5	98.6	.1	2.1*	1.2	.950	8.7	89.9	"	
SBR52-774	590-600	16806					None						
SBR52-775	600-610	16807					>1.0						
SBR52-776	610-620	16808					>1.0						
SBR52-777	620-630	16809					>1.0						
SBR52-778	630-640	16810					<1.0						
SBR52-779	640-650	16811					<1.0						
SBR52-780	650-660	16812					<1.0						
SBR52-781	660-670	16813					None						
SBR52-782	670-680	16814					"						
SBR52-783	680-690	16815					"						
SBR52-784	690-700	16816					<1.0						

\*Estimated Core drill cuttings received January 18, 1952: Assays made on air-dried samples.

## OIL-SHALE ASSAYS BY THE MODIFIED FISCHER RETORT METHOD

Samples from Continental Oil Company's Oil Springs Unit No. 1, located in the SE 1/4, SW 1/4, SE 1/4 of Sec. 15, T. 12 S., R. 24 E., Uintah County, Utah. Starting elevation 6286'.

Sample number		Run No.	Yield of product				Specific gravity of oil at 60°/60°F.		Properties of spent shale			Remarks
			Weight percent		Gal. per ton				Percent of orig. shale		Tendency to coke	
			Oil	Water	Spent shale	Gas + loss	Oil	Water	Ignition loss	Ash		
Laramie	Their											
SBR52-785	700-710	16817					Trace					
SBR52-786	710-720	16818					>1.0					
SBR52-787	720-730	16819					>1.0					
SBR52-788	730-740	16820					<1.0					
SBR52-789	740-750	16821					<1.0					
SBR52-790	750-760	16822					>1.0					
SBR52-791	760-770	16823					>1.0					
SBR52-792	770-780	16824					<1.0					
SBR52-793	780-790	16825					<1.0					
SBR52-794	790-800	16826					<1.0					
SBR52-795	800-810	16827					<1.0					
SBR52-796	810-820	16828					>1.0					
SBR52-797	820-830	16829					None					
SBR52-798	830-840	16830					"					
SBR52-799	840-850	16831					>1.0					
SBR52-800	850-860	16832					>1.0					
SBR52-801	860-870	16833					<1.0					
SBR52-802	870-880	16834					<1.0					
SBR52-803	880-890	16835					<1.0					
SBR52-804	890-900	16836					None					
SBR52-805	900-910	16837					"					
SBR52-806	910-920	16838					"					
SBR52-807	920-930	16839					"					
SBR52-808	930-940	16840					"					
SBR52-809	940-950	16841					"					
SBR52-810	950-960	16842					Trace					
SBR52-811	970-980	16843					None					
SBR52-812	980-990	16844					"					
SBR52-813	990-1000	16845					"					
SBR52-814	1000-1010	16846					"					

Core drill cuttings received January 18, 1952: Assays made on air-dried samples.

## OIL-SHALE ASSAYS BY THE MODIFIED FISCHER RETORT METHOD

Samples from Continental Oil Company's Oil Springs Unit No. 1, located in the SE 1/4, SW 1/4, SE 1/4 of Sec. 15, T. 12 S., R. 24 E., Uintah County, Utah. Starting elevation 6286'.

Sample number	Run No.	Yield of product				Specific gravity of oil at 60°/60°F.	Properties of spent shale			Remarks		
		Weight percent		Gal. per ton	Percent of orig. shale							
		Oil	Water		Ignition loss		Ash	Tendency to coke				
Laramie	Their	Oil	Water	Spent shale	Gas + loss	Oil	Water					
SBR52-815	1010-1020	16847				None						
SBR52-816	1020-1030	16848				"						
SBR52-817	1030-1040	16849				"						
SBR52-818	1040-1050	16850				"						
SBR52-819	1050-1060	16851				"						
SBR52-820	1060-1070	16852				"						
SBR52-821	1070-1080	16853				"						
SBR52-822	1080-1090	16854				"						
SBR52-823	1090-1100	16855				<1.0						
SBR52-824	1100-1110	16856				<1.0						
SBR52-825	1110-1120	16857	1.4	1.5	96.6	.5	3.6*	3.6	0.950	20.6	76.0	None
SBR52-826	1120-1130	16858					<1.0					
SBR52-827	1130-1140	16859					None					
SBR52-828	1140-1150	16860					"					
SBR52-829	1150-1160	16861					Trace					
SBR52-830	1160-1170	16862					None					
SBR52-831	1170-1180	16863					"					
SBR52-832	1180-1190	16864					"					
SBR52-833	1190-1200	16865					"					
SBR52-834	1200-1210	16866					"					
SBR52-835	1210-1220	16867					"					
SBR52-836	1220-1230	16868					"					
SBR52-837	1230-1240	16869					<1.0					
SBR52-838	1240-1250	16870					None					
SBR52-839	1250-1260	16871					"					
SBR52-840	1260-1270	16872					"					
SBR52-841	1270-1280	16873					"					
SBR52-842	1280-1290	16874					"					
SBR52-843	1290-1300	16875					"					
SBR52-844	1300-1310	16876					>1.0					

\*Estimated Core drill cuttings received January 18, 1952: Assays made on air-dried samples.

## OIL-SHALE ASSAYS BY THE MODIFIED FISCHER RETORT METHOD

Samples from Continental Oil Company's Oil Springs Unit No. 1, located in the SE 1/4, SW 1/4, SE 1/4 of Sec. 15, T. 12 S., R. 24 E., Uintah County, Utah. Starting elevation 6286'.

Sample number	Run	No.	Yield of product				Specific gravity of oil at 60°/60°F.	Properties of spent shale			Remarks	
			Weight percent		Gal. per ton			Percent of orig. shale		Tendency to coke		
Laramie	Their		Oil	Water	Spent shale	Gas + loss	Oil	Water	Ignition loss		Ash	
SBR52-845	1310-1320	16877					>1.0					
SBR52-846	1320-1330	16878					<1.0					
SBR52-847	1330-1340	16879					Trace					
SBR52-848	1340-1350	16880					<1.0					
SBR52-849	1350-1360	16881					None					
SBR52-850	1360-1370	16882					"					
SBR52-851	1370-1380	16883					"					
SBR52-852	1380-1390	16884					"					
SBR52-853	1390-1400	16885					"					
SBR52-854	1400-1410	16886					<1.0					
SBR52-855	1410-1420	16887					<1.0					
SBR52-856	1420-1430	16888	1.0	2.3	96.1	.6	2.4*	5.5	0.950	14.5	81.6	None
SBR52-857	1430-1440	16889	1.4	2.0	96.0	.6	3.5*	4.8	.950	16.9	79.1	"
SBR52-858	1440-1450	16890	1.1	1.6	96.7	.6	2.7*	3.8	.950	17.8	78.9	"
SBR52-859	1450-1460	16891	.9	1.7	97.2	.2	2.2*	4.0	.950	15.1	82.1	"
SBR52-860	1460-1470	16892					<1.0					
SBR52-861	1470-1480	16893					None					
SBR52-862	1480-1490	16894					<1.0					
SBR52-863	1490-1500	16895					None					
SBR52-864	1500-1510	16896					"					
SBR52-865	1510-1520	16897					>1.0					
SBR52-866	1520-1530	16898					<1.0					
SBR52-867	1530-1540	16899					>1.0					
SBR52-868	1540-1550	16900					None					
SBR52-869	1550-1560	16901					"					
SBR52-870	1560-1570	16902					"					
SBR52-871	1570-1580	16903					"					
SBR52-872	1580-1590	16904					"					
SBR52-873	1590-1600	16905					"					
SBR52-874	1600-1610	16906					>1.0					

\*Estimated Core drill cuttings received January 18, 1952: Assays made on air-dried samples.

Petroleum and Oil-Shale Experiment Station, Laramie, Wyoming, Illustration No. S.B.R.-887P

May 20, 1952

## OIL-SHALE ASSAYS BY THE MODIFIED FISCHER RETORT METHOD

Samples from Continental Oil Company's Oil Springs Unit No. 1, located in the SE 1/4, SW 1/4, SE 1/4 of Sec. 15, T. 12 S., R. 24 E., Uintah County, Utah. Starting elevation 6286'.

Sample number	Run No.	Yield of product				Specific gravity of oil at 60°/60°F.	Properties of spent shale			Remarks			
		Weight percent		Cal. per ton			Percent of orig. shale		Tendency to coke				
Laramie	Their	Oil	Water	Spent shale	Gas + loss	Oil	Water	Ignition loss		Ash			
SBR52-875	1610-1620	16907	2.0	1.4	95.9	0.7	5.5	3.4	0.880	19.8	76.1	None	
SBR52-876	1620-1630	16908	3.8	1.3	93.8	1.1	10.0	3.1	.906	22.1	71.7	"	
SBR52-877	1630-1636	16909	3.5	1.1	94.5	.9	9.4	2.6	.901	28.0	66.5	"	
SBR52-878	1636-1640	16910					>1.0						
SBR52-879	1640-1650	16911					>1.0						
SBR52-880	1650-1660	16912					>1.0						
SBR52-881	1660-1665	16913					<1.0						
SBR52-882	1670-1680	16914					>1.0						
SBR52-883	1680-1690	16915					None						
SBR52-884	1690-1700	16916					"						
SBR52-885	1700-1710	16917					"						
SBR52-886	1710-1720	16918					>1.0						
SBR52-887	1720-1730	16919	1.5	1.0	96.7	.8	3.7*	2.3	.950	26.9	67.8	"	
SBR52-888	1730-1740	16920					>1.0						
SBR52-889	1740-1750	16921					<1.0						
SBR52-890	1750-1760	16922					<1.0						
SBR52-891	1760-1770	16923					None						
SBR52-892	1770-1780	16924					"						
SBR52-893	1780-1790	16925					"						
SBR52-894	1790-1800	16926					"						
SBR52-895	1810-1820	16927					"						
SBR52-896	1820-1830	16928					"						
SBR52-897	1830-1840	16929					"						
SBR52-898	1840-1850	16930					"						
SBR52-899	1850-1860	16931					"						
SBR52-900	1860-1870	16932					"						
SBR52-901	1870-1880	16933					"						
SBR52-902	1880-1890	16934					"						
SBR52-903	1890-1900	16935					"						
SBR52-904	1900-1910	16936					"						

\*Estimated Core drill cuttings received January 18, 1952: Assays made on air-dried samples.

## OIL-SHALE ASSAYS BY THE MODIFIED FISCHER RETORT METHOD

Samples from Continental Oil Company's Oil Springs Unit No. 1, located in the SE 1/4, SW 1/4, SE 1/4 of Sec. 15, T. 12 S., R. 24 E., Uintah County, Utah. Starting elevation 6286'.

Sample number	Run No.	Yield of product				Specific gravity of oil at 60°/60°F.	Properties of spent shale			Remarks			
		Weight percent		Gas +	Gal. per ton		Percent of orig. shale		Tendency to coke				
		Oil	Water		Spent shale		loss	Oil			Water	Ignition loss	Ash
Laramie	Their	No.	Oil	Water	Spent shale	loss	Oil	Water	60°/60°F.	loss	Ash	Tendency to coke	Remarks
SBR52-905	1910-1920	16937					None						
SBR52-906	1920-1930	16938					"						
SBR52-907	1930-1940	16939					"						
SBR52-908	1940-1950	16940					"						
SBR52-909	1950-1960	16941					Trace						
SBR52-910	1960-1970	16942					<1.0						
SBR52-911	1970-1980	16943					<1.0						
SBR52-912	1980-1990	16944					None						
SBR52-913	1990-2000	16945					"						
SBR52-914	2000-2010	16946					"						
SBR52-915	2010-2020	16947					"						
SBR52-916	2020-2030	16948					"						
SBR52-917	2030-2040	16949					"						
SBR52-918	2040-2050	16950					"						
SBR52-919	2050-2060	16951					"						
SBR52-920	2060-2070	16952					"						
SBR52-921	2070-2080	16953					"						
SBR52-922	2080-2090	16954					"						
SBR52-923	2090-2100	16955					"						
SBR52-924	2100-2110	16956					"						
SBR52-925	2110-2120	16957					"						
SBR52-926	2120-2130	16958					"						
SBR52-927	2130-2140	16959					"						
SBR52-928	2140-2150	16960					"						
SBR52-929	2150-2160	16961					"						
SBR52-930	2160-2170	16962					"						
SBR52-931	2170-2180	16963					"						
SBR52-932	2180-2190	16964					"						
SBR52-933	2190-2200	16965					"						
SBR52-934	2200-2210	16966					"						

Core drill cuttings received January 18, 1952; Assays made on air-dried samples.

## OIL-SHALE ASSAYS BY THE MODIFIED FISCHER RETORT METHOD

Samples from Continental Oil Company's Oil Springs Unit No. 1, located in the SE 1/4, SW 1/4, SE 1/4 of Sec. 15, T. 12 S., R. 24 E., Uintah County, Utah. Starting elevation 6286'.

Sample number		Run No.	Yield of product				Specific gravity of oil at 60°/60°F.	Properties of spent shale			Remarks
			Weight percent		Gal. per ton			Percent of orig. shale		Tendency to coke	
Laramie	Their		Oil	Water	Spent shale	Gas + loss	Oil	Water	Ignition loss		Ash
SBR52-935	2210-2220	16967					None				
SBR52-936	2220-2230	16968					"				
SBR52-937	2230-2240	16969					"				
SBR52-938	2240-2250	16970					"				
SBR52-939	2250-2260	16971					"				
SBR52-940	2260-2270	16972					"				
SBR52-941	2270-2280	16973					Trace				
SBR52-942	2280-2290	16974					None				
SBR52-943	2290-2300	16975					"				
SBR52-944	2300-2310	16976					Trace				
SBR52-945	2310-2320	16977					None				
SBR52-946	2320-2330	16978					"				
SBR52-947	2330-2340	16979					"				
SBR52-948	2340-2350	16980					"				
SBR52-949	2350-2360	16981					"				
SBR52-950	2360-2370	16982					"				
SBR52-951	2370-2380	16983					"				
SBR52-952	2380-2390	16984					"				
SBR52-953	2390-2400	16985					"				
SBR52-954	2400-2410	16986					"				
SBR52-955	2410-2420	16987					"				
SBR52-956	2420-2430	16988					"				
SBR52-957	2430-2440	16989					"				
SBR52-958	2440-2450	16990					"				
SBR52-959	2450-2460	16991					"				
SBR52-960	2460-2470	16992					"				
SBR52-961	2470-2480	16993					"				
SBR52-962	2480-2490	16994					"				
SBR52-963	2490-2500	16995					"				

Core drill cuttings received January 18, 1952: Assays made on air-dried samples.