

UE-3

0' of 30 UR198 ✓  
 25' of 25g + 13' |  
 300' of 15g + 82'

## OIL-SHALE ASSAYS BY MODIFIED FISCHER REPORT METHOD

Samples from Continental Oil Company's Chapita Wells Unit No. 4 well drilled in the NE $\frac{1}{4}$ , NW $\frac{1}{4}$ , SE $\frac{1}{4}$   
 of Sec. 29, T. 9 S., R. 23 E., Uintah County, Utah

Surface Elevation 5,182 feet

Surface Elevation 5,102 feet			Yield of product						Specific gravity of oil at 60°/60° F.	Properties of spent shale Tendency to coke	Remarks
Sample number		Run No.	Weight percent		Spent shale	Gas + loss	Gal. per ton				
			Oil	Water			Oil	Water			
Laramie	Their										
SBR58-6208	1600-1620	57428	0.6	0.5	97.9	0.9	1.5a	1.4		none	
SBR58-6209	1620-1640	57429	1.8	.8	96.8	.6	4.7a	1.9		none	
SBR58-6210	1640-1660	57430	1.5	.3	97.6	.6	3.8a	.7		none	
SBR58-6211	1660-1680	57431	.6	.4	98.5	.5	1.5a	1.0		none	
SBR58-6212	1680-1700	57432	.5	.4	98.3	.8	1.3a	1.0		none	
SBR58-6213	1700-1720	57433	.8	.4	98.1	.7	2.2a	.8		none	
SBR58-6214	1720-1740	57434	1.3	.4	97.8	.5	3.4a	1.0		none	
SBR58-6215	1740-1760	57435	1.2	.4	97.9	.5	3.2a	1.0		none	
SBR58-6216	1760-1780	57436	1.2	.3	98.0	.5	3.2a	.7		none	
SBR58-6217	1780-1800	57437	2.6	.3	96.2	.9	6.8	.6	0.924	none	
SBR58-6218	1800-1820	57438	2.3	.4	96.6	.7	6.1	1.0	.925	none	
SBR58-6219	1820-1840	57439	2.6	.3	96.4	.7	6.7	.7	.924	none	
SBR58-6220	1840-1860	57440	3.7	.3	95.0	1.0	9.7	.7	.925	none	
SBR58-6221	1860-1880	57441	3.4	.3	95.4	.9	8.7	.7	.928	none	
SBR58-6222	1880-1900	57442	3.4	.3	95.2	1.1	8.8	.7	.925	none	
SBR58-6223	1900-1920	57443	3.5	.4	94.9	1.2	9.1	.8	.926	none	
SBR58-6224	1920-1940	57444	3.4	.4	94.7	1.5	8.7	1.1	.929	none	
SBR58-6225	1940-1960	57445	3.3	.4	95.0	1.3	8.4	1.0	.930	none	
SBR58-6226	1960-1970	57446	3.2	.5	94.9	1.4	8.3	1.1	.929	none	
SBR58-6227	1970-1980	57447	3.5	.5	94.5	1.5	9.0	1.2	.928	none	
SBR58-6228	1980-1990	57448	5.0	.5	93.0	1.5	13.0	1.3	.916	none	
SBR58-6229	1990-2000	57449	4.3	.4	93.9	1.4	11.1	1.0	.919	none	
SBR58-6230	2000-2010	57450	5.2	.4	92.8	1.6	13.5	1.1	.914	none	
SBR58-6231	2010-2020	57451	4.1	.4	94.1	1.4	10.6	1.0	.915	none	
SBR58-6232	2020-2030	57452	4.8	.4	93.4	1.4	12.4	1.1	.915	none	
SBR58-6233	2030-2040	57453	2.0	1.1	95.7	1.2	5.2	2.6	.925	none	
SBR58-6234	2040-2050	57454	2.7	.8	95.1	1.4	7.0	2.0	.926	none	
SBR58-6235	2050-2060	57455	4.8	.3	94.0	.9	12.5	.7	.923	none	
SBR58-6236	2060-2070	57456	6.1	.5	92.2	1.2	15.7	1.2	.921	none	
SBR58-6237	2070-2080	57457	6.9	.5	91.3	1.3	17.9	1.3	.919	none	

a - Specific gravity estimated due to insufficient oil.

Cutting samples received July 16, 1958; assays made on air-dried samples.

Petroleum and Oil Shale Experiment Station, Laramie, Wyoming, Illustration No. SBR-2469P

August 21, 1958

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Continental Oil Company's Chapita Wells Unit No. 4 well drilled in the NE $\frac{1}{4}$ , NW $\frac{1}{4}$ , SE $\frac{1}{4}$  of Sec. 29, T. 9 S., R. 23 E., Uintah County, Utah

Surface Elevation 5,182 feet

Surface Elevation 5,182 feet			Yield of product					Specific gravity		Properties of		Remarks
Sample number		Run No.	Weight percent		Spent shale	Gas + loss	Gal. per ton		of oil at 60°/60° F.	Tendency to	spent shale coke	
			Oil	Water			Oil	Water				
Laramie	Their											
SBR58-6238	2080-2090	57458	5.1	0.3	93.8	0.8	13.2	0.8	0.918	none		
SBR58-6239	2090-2100	57459	4.8	.3	94.1	.8	12.4	.7	.927	none		
SBR58-6240	2100-2110	57460	4.8	.4	93.9	.9	12.5	.8	.925	none		
SBR58-6241	2110-2120	57461	4.0	.3	94.7	1.0	10.4	.8	.923	none		
SBR58-6242	2120-2125-	57462	4.4	.5	94.2	.9	11.5	1.2	.923	none		
SBR58-6243	2125-2130-	57463	4.9	.4	93.5	1.2	12.8	.9	.923	none		
SBR58-6244	2130-2135-	57464	5.6	.3	92.8	1.3	14.6	.7	.924	none		
SBR58-6245	2135-2140-	57465	4.7	.2	94.0	1.1	12.1	.6	.924	none		
SBR58-6246	2140-2145-	57466	4.1	.4	94.7	.8	10.6	1.0	.923	none		
SBR58-6247	2145-2150-	57467	4.8	.3	93.7	1.2	12.1	.7	.924	none		
SBR58-6248	2150-2160	57468	6.4	.4	91.8	1.4	16.6	1.0	.922	none		
SBR58-6249	2160-2170	57469	7.9	.3	89.9	1.9	20.3	.7	.922	none		
SBR58-6250	2170-2180	57470	3.7	.3	94.9	1.1	9.7	.6	.918	none		
SBR58-6251	2180-2182	57471	2.8	.2	96.2	.8	7.4	.5	.916	none		
SBR58-6252	2182-2190	57472	3.2	.3	95.4	1.1	8.1	.7	.917	none		
SBR58-6253	2190-2200	57473	6.5	.5	91.3	1.7	17.2	1.1	.911	none		
SBR58-6254	2200-2210	57474	7.9	.4	89.9	1.8	20.9	1.0	.902	none		
SBR58-6255	2210-2220	57475	5.3	.2	93.0	1.5	13.9	.6	.910	none		
SBR58-6256	2220-2230	57476	10.0	.5	87.1	2.4	26.6	1.2	.904	none		
SBR58-6257	2230-2240	57477	9.9	.6	86.8	2.7	25.9	1.3	.918	none		
SBR58-6258	2240-2250	57478	7.5	.5	89.8	2.2	19.7	1.2	.914	none		
SBR58-6259	2250-2260	57479	7.8	.4	90.4	1.4	20.6	1.0	.901	none		
SBR58-6260	2260-2270	57480	7.0	.4	91.1	1.5	18.5	1.1	.906	none		
SBR58-6261	2270-2280	57481	7.5	.5	89.9	2.1	19.8	1.3	.905	none		
SBR58-6262	2280-2290	57482	7.7	.7	89.6	2.0	20.3	1.6	.914	none		
SBR58-6263	2290-2300	57483	3.6	.4	95.0	1.0	9.3	1.0	.920	none		
SBR58-6264	2300-2310	57484	3.6	.5	94.8	1.1	9.4	1.1	.921	none		
SBR58-6265	2310-2320	57485	2.3	.4	96.3	1.0	6.0	.8	.922	none		
SBR58-6266	2320-2330	57486	2.3	.4	96.6	.7	5.9	1.0	.922	none		
SBR58-6267	2330-2340	57487	2.3	.4	96.3	1.0	6.0	.8	.918	none		

Cutting samples received July 16, 1958; assays made on air-dried samples.

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Continental Oil Company's Chapita Wells Unit No. 4 well drilled in the NE $\frac{1}{4}$ , NW $\frac{1}{4}$ , SE $\frac{1}{4}$  of Sec. 29, T. 9 S., R. 23 E., Uintah County, Utah

Surface Elevation 5,182 feet

Surface Elevation 5,182 feet			Yield of product					Specific gravity of oil at 60°/60° F.		Properties of spent shale		Remarks
Sample number		Run No.	Weight percent		Spent shale	Gas + loss	Gal. per ton		of oil at 60°/60° F.	Tendency to coke		
Laramie	Their		Oil	Water			Oil	Water				
SBR58-6268	2340-2350	57488	1.7	0.5	96.6	1.2	4.4a	1.2			none	
SBR58-6269	2350-2360	57489	1.6	.6	96.8	1.0	4.1a	1.6			none	
SBR58-6270	2360-2370	57490	1.1	.6	97.5	.8	2.9a	1.6			none	
SBR58-6271	2370-2380	57491	1.0	.4	98.0	.6	2.6a	1.1			none	
SBR58-6272	2380-2390	57492	1.0	.7	97.3	1.0	2.6a	1.7			none	
SBR58-6273	2390-2400	57493	4.0	.4	94.3	1.3	10.6	.8	0.911		none	
SBR58-6274	2400-2410	57494	3.3	.3	95.3	1.1	8.8	.6	.905		none	
SBR58-6275	2410-2420	57495	3.7	.3	94.8	1.2	9.8	.7	.905		none	
SBR58-6276	2420-2430	57496	5.3	.6	92.5	1.6	14.1	1.6	.901		none	
SBR58-6277	2430-2440	57497	7.8	.6	89.7	1.9	20.5	1.4	.904		none	
SBR58-6278	2440-2450	57498	7.2	.6	90.4	1.8	19.2	1.4	.902		none	
SBR58-6279	2470-2480	57499	2.4	1.5	95.0	1.1	6.3	3.6	.915		none	
SBR58-6280	2480-2490	57500	4.9	1.6	92.0	1.5	12.8	3.8	.924		none	
SBR58-6281	2490-2500	57501	11.2	2.0	84.3	2.5	29.4	4.7	.909		none	
SBR58-6282	2500-2510	57502	2.4	1.3	94.1	2.2	6.4	3.1	.912		none	
SBR58-6283	2510-2520	57503	2.0	2.2	94.8	1.0	5.2a	5.3			none	
SBR58-6284	2520-2530	57504	2.0	1.1	96.3	.6	5.2a	2.6			none	
SBR58-6285	2530-2540	57505	1.8	2.3	94.9	1.0	4.7a	5.5			none	
SBR58-6286	2540-2550	57506	1.0	1.4	97.2	.4	2.7a	3.4			none	
SBR58-6287	2550-2560	57507	3.6	1.8	93.6	1.0	9.6	4.3	.909		none	
SBR58-6288	2560-2570	57508	2.7	2.1	93.8	1.4	7.0	5.0	.923		none	
SBR58-6289	2570-2580	57509	5.6	2.3	90.4	1.7	14.8	5.5	.905		none	
SBR58-6290	2580-2590	57510	3.3	1.7	94.3	.7	8.7	4.1	.907		none	
SBR58-6291	2590-2600	57511	2.3	.8	96.2	.7	6.0	2.0	.904		none	
SBR58-6292	2600-2610	57512	2.1	1.0	96.2	.7	5.6	2.3	.905		none	
SBR58-6293	2610-2620	57513	1.4	.8	97.2	.6	3.7a	1.8			none	
SBR58-6294	2620-2630	57514	1.4	.6	97.2	.8	3.6a	1.4			none	
SBR58-6295	2630-2640	57515	2.2	1.1	95.9	.8	5.7	2.6	.906		none	
SBR58-6296	2640-2650	57516	1.6	2.6	95.1	.7	4.1a	6.4			none	
SBR58-6297	2650-2660	57517	4.0	1.1	93.8	1.1	10.4	2.6	.914		none	

a - Specific gravity estimated due to insufficient oil.

Cutting samples received July 16, 1958; assays made on air-dried samples.

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Continental Oil Company's Chapita Wells Unit No. 4 well drilled in the NE $\frac{1}{4}$ , NW $\frac{1}{4}$ , SE $\frac{1}{4}$  of Sec. 29, T. 9 S., R. 23 E., Uintah County, Utah

Surface Elevation 5,182 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	Oil	Water		Tendency to	coke	
Laramie	Their		Oil	Water								
SBR58-6298	2660-2670	57518	5.6	2.1	91.0	1.3	14.7	5.0	.907	none		
SBR58-6299	2670-2680	57519	3.6	1.1	94.5	.8	9.5	2.6	.901	none		
SBR58-6300	2680-2690	57520	3.3	1.5	94.3	.9	8.8	3.6	.904	none		
SBR58-6301	2690-2700	57521	3.3	2.1	93.8	.8	8.7	4.9	.911	none		
SBR58-6302	2700-2710	57522	4.3	1.1	93.6	1.0	11.5	2.5	.900	none		
SBR58-6303	2710-2720	57523	3.2	2.1	93.6	1.1	8.4	5.0	.909	none		
SBR58-6304	2720-2730	57524	4.2	2.4	92.0	1.4	11.0	5.8	.910	none		
SBR58-6305	2730-2740	57525	4.2	1.8	92.4	1.6	11.2	4.3	.903	none		
SBR58-6306	2740-2750	57526	4.1	1.9	92.2	1.8	11.0	4.6	.903	none		
SBR58-6307	2750-2760	57527	4.0	1.9	92.9	1.2	10.5	4.6	.905	none		
SBR58-6308	2760-2770	57528	4.0	2.0	92.7	1.3	10.5	4.8	.906	none		
SBR58-6309	2770-2780	57529	3.7	1.8	93.2	1.3	9.7	4.3	.907	none		
SBR58-6310	2780-2790	57530	2.4	1.6	95.2	.8	6.1	3.8	.895	none		
SBR58-6311	2790-2800	57531	.5	2.5	96.0	1.0	1.3a	5.9		none		
SBR58-6312	2800-2810	57532	.8	3.6	94.9	.7	2.2a	8.6		none		
SBR58-6313	2810-2820	57533	2.8	3.1	92.9	1.2	7.4	7.3	.911	none		
SBR58-6314	2820-2830	57534	6.4	2.3	89.6	1.7	17.0 <sup>20</sup>	5.5	.907	none		
SBR58-6315	2830-2840	57535	5.0	2.8	91.1	1.1	13.2 <sup>15</sup>	6.8	.907	none		
SBR58-6316	2840-2850	57536	3.2	2.5	93.6	.7	8.6	6.0	.892	none		
SBR58-6317	2850-2860	57537	4.4	1.5	93.3	.8	11.9 <sup>45</sup>	3.6	.891	none		
SBR58-6318	2860-2870	57538	5.3	1.7	91.8	1.2	14.2 <sup>45</sup>	4.1	.900	none		
SBR58-6319	2870-2880	57539	5.9	2.9	89.7	1.5	15.6 <sup>15</sup>	7.0	.912	none		
SBR58-6320	2880-2890	57540	5.0	2.9	89.7	1.4	15.9 <sup>15</sup>	7.0	.912	none		
SBR58-6321	2890-2900	57541	6.0	2.9	89.7	1.4	15.7	7.0	.915	none		
SBR58-6322	2900-2910	57542	1.3	2.9	94.6	1.2	3.5a	7.0		none		
SBR58-6323	2910-2920	57543	1.2	3.0	94.9	.9	3.2a	7.2		none		
SBR58-6324	2920-2930	57544	2.8	2.0	94.2	1.0	7.3	4.8	.907	none		
SBR58-6325	2930-2940	57545	2.8	1.6	94.5	1.1	7.5	3.8	.909	none		
SBR58-6326	2940-2950	57546	1.1	2.6	95.5	.8	3.0a	6.2		none		
SBR58-6327	2950-2960	57547	1.0	3.0	95.1	.9	2.6a	7.3		none		

a - Specific gravity estimated due to insufficient oil.

Cutting samples received July 16, 1958; assays made on air-dried samples.

Petroleum and Oil Shale Experiment Station, Laramie, Wyo. (eng. Illustration No. SBR-2472P), August 21, 1958

## OIL-SHALE ASSAYS BY MODIFIED FISCHER REPORT METHOD

Samples from Continental Oil Company's Chapita Wells Unit No. 4 well drilled in the NE $\frac{1}{4}$ , NW $\frac{1}{4}$ , SE $\frac{1}{4}$  of Sec. 29, T. 9 S., R. 23 E., Uintah County, Utah

Surface Elevation 5,182 feet

Surface elevation 2,102 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					Gal. per ton
Laramie	Their		Oil	Water					Oil	Water	
SBR58-6328	2960-2970	57548	2.8	1.3	95.0	0.9	7.3	3.1	0.902	none	
SBR58-6329	2970-2980	57549	2.6	1.3	95.0	1.1	6.8	3.1	.901	none	
SBR58-6330	2980-2990	57550	1.9	2.0	95.2	.5	5.0a	4.8		none	
SBR58-6331	2990-3000	57551	1.7	2.1	95.6	.6	4.5a	5.0		none	

a - Specific gravity estimated due to insufficient oil.

Cutting samples received July 16, 1958; assays made on air-dried samples.

Petroleum and Oil Shale Experiment Station, Laramie, Wyo. Eng. Illustration No. SBR-2473P

August 21, 1958