

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Skyline Oil Company's Stringham Corehole No. 1, drilled 2193 feet South of North line, 3238 feet East of West line, sec. 23, T. 9 S., R. 25 E., Uintah County, Utah

46-79
(50-323') only

Surface elevation 5,879.0 feet

Mahogany marker 465.6 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 coke		
Laramie	Their		Oil	Water					Oil		Water	
SBR60-2303	50 - 55	65670	0.1	1.1	98.3	0.5	0.2a	2.6			None	
SBR60-2304	55 - 57.5	65671	1.1	2.0	96.3	.6	2.9a	4.8			None	
SBR60-2305	57.5- 58.5	65672	.3	1.6	97.7	.4	.8a	4.0			None	
SBR60-2306	58.5- 61.0	65673	1.9	1.5	95.8	.8	5.1a	3.6			None	
SBR60-2307	61.0- 62.0	65674	8.3	1.5	88.4	1.8	21.4	3.6	0.928		None	
SBR60-2308	62.0- 63.0	65675	11.6	1.8	83.8	2.8	29.8	4.3	.928		None	
SBR60-2309	63.0- 65.1	65676	2.6	1.3	95.0	1.1	6.5	3.2	.950		None	
SBR60-2310	65.1- 68.6	65677	1.3	1.9	96.1	.7	3.5a	4.6			None	
SBR60-2311	68.6- 70.0	65678	.7	2.2	96.3	.8	1.7a	5.4			None	
SBR60-2312	70.0- 71.3	65679	1.5	1.1	96.6	.8	3.9a	2.8			None	
SBR60-2313	71.3- 73.1	65680	.7	1.2	97.6	.5	1.9a	2.8			None	
SBR60-2314	73.1- 74.7	65681	2.8	.8	95.6	.8	7.3	1.8	.932		None	
SBR60-2315	74.7- 76.2	65682	3.1	1.2	94.6	1.1	7.8	2.9	.954		None	
SBR60-2316	76.2- 77.2	65683	2.0	1.5	95.6	.9	5.0	3.7	.952		None	
SBR60-2317	77.2- 79.2	65684	2.3	1.3	95.2	1.2	5.8	3.1	.950		None	
SBR60-2318	79.2- 82.0	65685	2.2	1.1	96.1	.6	5.8	2.5	.925		None	
SBR60-2319	82.0- 83.9	65686	3.6	1.0	94.6	.8	9.3	2.3	.928		None	
SBR60-2320	83.9- 85.1	65687	6.5	.9	91.2	1.4	16.9	2.0	.923		Slight	
SBR60-2321	85.1- 86.0	65688	16.2	1.0	79.8	3.0	41.9	2.5	.924		Slight	
SBR60-2322	86.0- 88.0	65689	3.9	.2	94.8	1.1	9.9	.5	.931		None	
SBR60-2323	88.0- 91.2	65690	2.7	.3	96.3	.7	7.0	.7	.932		None	
SBR60-2324	91.2- 92.4	65691	2.8	.6	95.6	1.0	7.2	1.3	.945		None	
SBR60-2325	92.4- 94.0	65692	3.0	.8	95.5	.7	7.5	1.9	.943		None	
SBR60-2326	94.0- 96.0	65693	2.9	.9	95.6	.6	7.4	2.0	.946		None	
SBR60-2327	96.0- 98.0	65694	2.5	.9	96.0	.6	6.4	2.0	.948		None	
SBR60-2328	98.0-100.0	65695	3.4	1.1	94.8	.7	8.4	2.6	.957		None	
SBR60-2329	100.0-102.0	65696	3.7	1.1	94.5	.7	9.2	2.6	.956		None	
SBR60-2330	102.0-104.0	65697	3.7	1.2	94.2	.9	9.3	2.9	.958		None	
SBR60-2331	104.0-106.0	65698	3.3	.8	95.0	.9	8.4	1.8	.954		None	
SBR60-2332	106.0-108.0	65699	4.4	.8	94.0	.8	11.0	1.9	.954		None	

a - Specific gravity estimated due to insufficient oil.

Core samples received December 2, 1959; assays made on air-dried samples

Laramie Petroleum Research Center, Laramie, Wyoming, Illustration No. SBR-3193P

April 8, 1960

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Skyline Oil Company's Stringham Corehole No. 1 (Con.)

Surface elevation 5,879.0 feet

Mahogany marker 465.6 feet

Sample number		Run No.	Yield of product				Gal. per ton		Specific gravity of oil at 60°/60° F.	Properties of		Remarks
			Weight percent		Spent shale	Gas + loss				spent shale		
			Oil	Water			Tendency to coke					
Laramie	Their		Oil	Water	shale	loss	Oil	Water				
SBR60-2333	108.0-110.0	65700	4.0	1.0	94.0	1.0	10.2	2.4	0.953	None		
SBR60-2334	110.0-112.0	65701	2.6	.4	96.2	.8	6.5	1.0	.940	None		
SBR60-2335	112.0-114.5	65702	2.6	.5	96.1	.8	6.7	1.2	.935	None		
SBR60-2336	114.5-116.5	65703	3.2	.6	95.5	.7	8.2	1.4	.946	None		
SBR60-2337	116.5-118.5	65704	5.1	.7	93.4	.8	13.0	1.8	.939	None		
SBR60-2338	118.5-120.9	65705	4.4	.5	94.2	.9	11.3	1.1	.939	None		
SBR60-2339	120.9-122.2	65706	1.6	.3	97.8	.3	4.2a	.7		None		
SBR60-2340	122.2-124.0	65707	2.7	.2	96.2	.9	6.9	.6	.934	None		
SBR60-2341	124.0-126.0	65708	3.2	.7	95.3	.8	8.2	1.7	.933	None		
SBR60-2342	126.0-128.0	65709	3.9	.5	94.7	.9	9.9	1.3	.937	None		
SBR60-2343	128.0-130.0	65710	4.3	.6	94.0	1.1	10.8	1.6	.946	None		
SBR60-2344	130.0-132.0	65711	4.3	.5	94.4	.8	10.9	1.3	.942	None		
SBR60-2345	132.0-134.0	65712	3.9	.3	94.9	.9	10.1	.7	.929	None		
SBR60-2346	134.0-136.0	65713	4.6	.2	94.4	.8	11.8	.5	.932	None		
SBR60-2347	136.0-138.0	65714	3.2	.3	95.8	.7	8.1	.7	.930	None		
SBR60-2348	138.0-139.8	65715	3.6	.3	95.1	1.0	9.0	.8	.941	None		
SBR60-2349	139.8-142.3	65716	3.2	.5	95.6	.7	8.2	1.1	.937	None		
SBR60-2350	142.3-143.7	65717	3.2	.6	95.5	.7	8.2	1.3	.945	None		
SBR60-2351	143.7-146.0	65718	3.0	1.0	95.2	.8	7.7	2.4	.947	None		
SBR60-2352	146.0-148.0	65719	3.3	.5	95.3	.9	8.3	1.3	.943	None		
SBR60-2353	148.0-150.0	65720	2.8	.8	95.5	.9	7.3	1.8	.942	None		
SBR60-2354	150.0-152.0	65721	4.6	.5	93.7	1.2	11.9	1.1	.935	None		
SBR60-2355	152.0-154.0	65722	4.5	.6	93.6	1.3	11.5	1.6	.940	None		
SBR60-2356	154.0-156.0	65723	2.3	.4	96.3	1.0	5.8	1.1	.934	None		
SBR60-2357	156.0-158.0	65724	3.3	.9	94.7	1.1	8.4	2.0	.947	None		
SBR60-2358	158.0-160.0	65725	3.8	.6	94.8	.8	9.8	1.4	.943	None		
SBR60-2359	160.0-162.0	65726	2.8	.9	95.3	1.0	7.2	2.2	.941	None		
SBR60-2360	162.0-164.5	65727	2.6	.7	96.0	.7	6.5	1.8	.938	None		
SBR60-2361	164.5-166.2	65728	2.5	.4	96.4	.7	6.4	1.0	.935	None		
SBR60-2362	166.2-167.2	65729	3.1	.5	95.7	.7	7.9	1.3	.934	None		

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Core samples received December 2, 1959; assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Skyline Oil Company's Stringham Corehole No. 1 (Con.)

Surface elevation 5,879.0 feet

Mahogany marker 465.6 feet

Sample number		Run No.	Yield of product				Specific gravity of oil at 60°/60° F.		Properties of spent shale Tendency to		Remarks
			Weight percent		Gal. per ton						
Laramie	Their		Oil	Water	Spent shale	Gas + loss	Oil	Water		coke	
SBR60-2363	167.2-168.5	65730	8.4	0.8	88.9	1.9	21.6	1.9	0.932	None	
SBR60-2364	168.5-170.5	65731	2.9	.5	95.7	.9	7.3	1.2	.938	None	
SBR60-2365	170.5-172.5	65732	2.3	.7	96.2	.8	5.9	1.6	.934	None	
SBR60-2366	172.5-174.5	65733	2.2	.8	96.2	.8	5.5	2.0	.934	None	
SBR60-2367	174.5-176.5	65734	2.1	.9	96.2	.8	5.3	2.3	.938	None	
SBR60-2368	176.5-178.5	65735	2.3	.9	96.2	.6	5.9	2.2	.936	None	
SBR60-2369	178.5-180.5	65736	2.4	.9	96.0	.7	6.2	2.0	.933	None	
SBR60-2370	180.5-182.5	65737	2.5	.6	96.0	.9	6.5	1.4	.936	None	
SBR60-2371	182.5-184.5	65738	1.6	.8	96.8	.8	4.2a	1.8		None	
SBR60-2372	184.5-187.0	65739	3.2	.7	95.1	1.0	8.2	1.7	.937	None	
SBR60-2373	187.0-188.2	65740	9.4	1.0	87.4	2.2	24.3	2.3	.933	Slight	
SBR60-2374	188.2-190.0	65741	2.3	1.0	95.6	1.1	6.0	2.4	.934	None	
SBR60-2375	190.0-192.0	65742	2.1	1.1	96.0	.8	5.2	2.6	.935	None	
SBR60-2376	192.0-194.0	65743	2.0	1.0	96.2	.8	5.2	2.3	.934	None	
SBR60-2377	194.0-195.0	65744	8.1	1.0	88.8	2.1	20.9	2.3	.927	None	
SBR60-2378	195.0-197.0	65745	3.3	1.1	94.4	1.2	8.4	2.6	.935	None	
SBR60-2379	197.0-199.0	65746	2.6	1.3	95.2	.9	6.5	3.1	.944	None	
SBR60-2380	199.0-201.0	65747	3.2	1.0	94.5	1.3	8.0	2.4	.940	None	
SBR60-2381	201.0-203.0	65748	3.7	.7	94.3	1.3	9.5	1.7	.937	None	
SBR60-2382	203.0-205.0	65749	1.9	1.1	96.4	.6	4.9a	2.6		None	
SBR60-2383	205.0-207.0	65750	2.1	1.1	96.2	.6	5.3	2.6	.921	None	
SBR60-2384	207.0-209.0	65751	3.1	1.0	95.1	.8	7.9	2.4	.935	None	
SBR60-2385	209.0-210.8	65752	5.4	1.1	92.3	1.2	13.7	2.6	.936	None	
SBR60-2386	210.8-212.4	65753	2.6	.8	95.7	.9	6.6	1.9	.943	None	
SBR60-2387	212.4-214.1	65754	1.6	1.2	96.5	.7	4.2a	2.9		None	
SBR60-2388	214.1-216.4	65755	3.9	.4	94.3	1.4	9.9	1.0	.940	None	
SBR60-2389	216.4-218.4	65756	2.8	.8	95.2	1.2	7.3	1.9	.934	None	
SBR60-2390	218.4-219.4	65757	3.4	.5	95.4	.7	8.7	1.2	.929	None	
SBR60-2391	219.4-222.0	65758	4.3	.7	93.9	1.1	11.1	1.8	.925	None	
SBR60-2392	222.0-223.7	65759	2.9	.8	95.2	1.1	7.5	1.9	.925	None	

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OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Skyline Oil Company's Stringham Corehole No. 1 (Con.)

Surface elevation 5,879.0 feet

Mahogany marker 465.6 feet

Sample number		Run No.	Yield of product				Gal. per ton		Specific gravity of oil at 60°/60° F.	Proportion of spent shale		Remarks
			Weight percent		Spent shale	Gas + loss				Tendency to		
Laramie	Their		Oil	Water						Oil	Water	
SBR60-2393	223.7-225.0	65760	1.5	0.8	97.0	0.7	3.9a	1.8		None		
SBR60-2394	225.0-226.0	65761	6.7	.6	90.8	1.9	17.3	1.4	0.922	None		
SBR60-2395	226.0-227.0	65762	8.8	1.5	87.5	2.2	22.5	3.6	.934	None		
SBR60-2396	227.0-228.8	65763	3.2	.6	95.0	1.2	8.1	1.6	.947	None		
SBR60-2397	228.8-230.8	65764	2.2	.6	96.1	1.1	5.7	1.3	.940	None		
SBR60-2398	230.8-232.2	65765	2.8	1.2	95.5	.5	7.1	3.0	.934	None		
SBR60-2399	232.2-233.9	65766	3.7	1.0	94.7	.6	9.5	2.4	.934	None		
SBR60-2400	233.9-235.2	65767	7.4	1.3	89.6	1.7	19.0	3.1	.940	None		
SBR60-2401	235.2-236.2	65768	3.8	.7	94.6	.9	9.9	1.7	.931	None		
SBR60-2402	236.2-237.7	65769	3.1	.8	95.4	.7	7.9	1.9	.932	None		
SBR60-2403	237.7-239.8	65770	3.4	1.0	94.8	.8	8.8	2.4	.934	None		
SBR60-2404	239.8-241.0	65771	9.0	1.0	87.8	2.2	23.4	2.3	.923	None		
SBR60-2405	241.0-242.0	65772	5.2	.7	92.9	1.2	13.2	1.7	.942	None		
SBR60-2406	242.0-244.0	65773	3.4	.6	95.2	.8	8.6	1.4	.937	None		
SBR60-2407	244.0-246.0	65774	3.7	.7	94.8	.8	9.4	1.6	.943	None		
SBR60-2408	246.0-248.0	65775	4.1	.6	94.7	.6	10.4	1.3	.940	None		
SBR60-2409	248.0-250.0	65776	4.5	.6	93.9	1.0	11.5	1.6	.932	None		
SBR60-2410	250.0-252.0	65777	5.1	.8	93.0	1.1	13.0	1.9	.934	None		
SBR60-2411	252.0-254.0	65778	4.6	.5	93.8	1.1	11.7	1.2	.940	None		
SBR60-2412	254.0-255.6	65779	4.6	.4	93.9	1.1	11.7	1.0	.941	None		
SBR60-2413	255.6-256.6	65780	9.0	1.2	87.5	2.3	23.5	2.9	.921	None		
SBR60-2414	256.6-258.0	65781	5.5	.6	92.9	1.0	14.1	1.4	.925	None		
SBR60-2415	258.0-260.0	65782	4.3	.5	94.1	1.1	11.0	1.2	.935	None		
SBR60-2416	260.0-262.0	65783	4.8	.4	93.7	1.1	12.3	1.1	.928	None		
SBR60-2417	262.0-264.0	65784	4.1	.8	94.0	1.1	10.8	1.8	.918	None		
SBR60-2418	264.0-266.0	65785	4.4	1.0	93.2	1.4	11.6	2.4	.910	None		
SBR60-2419	266.0-268.0	65786	3.1	.8	93.9	2.2	8.2	1.9	.914	None		
SBR60-2420	268.0-270.0	65787	4.4	.7	93.4	1.5	11.3	1.7	.923	None		
SBR60-2421	270.0-272.0	65788	4.7	.8	93.1	1.4	12.4	1.9	.915	None		
SBR60-2422	272.0-274.0	65789	5.5	.7	92.7	1.1	14.3	1.8	.918	None		

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Core samples received December 2, 1959; assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Skyline Oil Company's Stringham Corehole No. 1 (Con.)

Surface elevation 5,679.0 feet

Mahogany marker 1465.6 feet

Sample number		Run No.	Yield of product				Gal. per ton		Specific gravity of oil at 60°/60° F.	Properties of spent shale		Remarks
Laramie	Thief		Weight percent		Spent shale	Gas + loss	Oil	Water		Tendency to		
			Oil	Water						coke		
SPR60-2423	274.0-275.5	65790	5.0	0.7	93.3	1.0	12.9	1.8	0.921	None		
SPR60-2424	275.5-277.0	65791	7.0	.8	90.3	1.9	18.2	1.9	.917	None		
SPR60-2425	277.0-279.0	65792	6.2	.8	91.1	1.9	16.4	1.8	.914	None		
SPR60-2426	279.0-281.0	65793	5.1	.6	93.1	1.2	13.5	1.4	.910	None		
SPR60-2427	281.0-283.0	65794	3.0	.8	94.8	1.4	7.7	2.0	.927	None		
SPR60-2428	283.0-285.1	65795	3.8	.9	94.3	1.0	9.9	2.2	.922	None		
SPR60-2429	285.1-286.9	65796	3.7	1.1	94.0	1.2	9.6	2.6	.932	None		
SPR60-2430	286.9-288.4	65797	2.5	1.3	95.1	1.1	6.4	3.1	.929	None		
SPR60-2431	288.4-289.8	65798	3.0	1.1	94.9	1.0	7.8	2.6	.926	None		
SPR60-2432	289.8-291.0	65799	7.8	1.3	89.1	1.8	20.2	3.1	.920	None		
SPR60-2433	291.0-292.0	65800	5.2	1.0	92.6	1.2	13.6	2.4	.921	None		
SPR60-2434	292.0-293.8	65801	2.5	1.4	94.1	2.0	6.6	3.4	.925	None		
SPR60-2435	293.8-296.0	65802	2.9	1.2	95.0	.9	7.5	2.9	.928	None		
SPR60-2436	296.0-297.5	65803	3.1	.9	95.0	1.0	7.9	2.2	.934	None		
SPR60-2437	297.5-299.6	65804	4.6	1.3	92.8	1.3	12.0	3.1	.925	None		
SPR60-2438	299.6-300.8	65805	3.6	1.1	94.4	.9	9.2	2.6	.925	None		
SPR60-2439	300.8-302.0	65806	2.5	1.7	94.9	.9	6.4	4.1	.926	None		
SPR60-2440	302.0-304.0	65807	2.5	1.9	94.9	.7	6.4	4.6	.925	None		
SPR60-2441	304.0-306.0	65808	2.9	1.6	94.6	.9	7.5	3.8	.923	None		
SPR60-2442	306.0-307.4	65809	2.4	1.2	95.6	.8	6.1	2.9	.927	None		
SPR60-2443	307.4-308.5	65810	1.9	1.0	96.4	.7	5.0a	2.4		None		
SPR60-2444	308.5-310.0	65811	8.1	1.6	88.2	2.1	21.0	3.8	.927	None		
SPR60-2445	310.0-312.0	65812	3.2	1.4	94.4	1.0	8.3	3.4	.925	None		
SPR60-2446	312.0-314.0	65813	3.4	1.3	94.1	1.2	8.8	3.1	.925	None		
SPR60-2447	314.0-316.0	65814	2.5	2.0	94.6	.9	6.5	4.8	.926	None		
SPR60-2448	316.0-317.8	65815	3.3	1.0	94.9	.8	8.5	2.4	.925	None		
SPR60-2449	317.8-318.8	65816	9.2	1.3	85.8	3.7	23.9	3.1	.917	None		
SPR60-2450	318.8-320.0	65817	3.9	1.1	93.7	1.3	10.0	2.6	.931	None		
SPR60-2451	320.0-322.0	65818	3.4	1.1	94.7	.8	8.6	2.6	.936	None		
SPR60-2452	322.0-323.0	65819	2.5	1.2	95.4	.9	6.4	2.9	.938	None		

a - Specific gravity estimated due to insufficient oil.

Core samples received December 2, 1959; assays made on air-dried samples.