

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Bureau of Mines Rock Springs No. 1-3 core drilled in NE1/4NW1/4NE1/4
of sec 15, T 18 N, R 106 W, Sweetwater County, Wyoming

Elevation 6368.1 feet - Top of surface casing

Sample number		Run No.	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		
Laramie	Their		Oil	Water				Oil ^{1/}	Water	
SBR67-2255	26.0-27.0	21471	1.5	0.6	97.0	0.9	3.9a	1.6		None
SBR67-2256	27.0-28.0	21472	.9	1.5	97.2	.4	2.3a	3.6		None
SBR67-2257	28.0-28.9	21473	1.2	1.2	96.3	1.3	3.2a	2.9		None
SBR67-2258	32.9-33.9	21474	10.5	1.9	85.2	2.4	27.4	4.6	0.922	None
SBR67-2259	33.9-34.1	21475	14.0	1.8	81.0	3.2	36.3	4.3	.922	None
SBR67-2260	34.1-34.7	21476	7.3	1.7	88.2	2.8	19.1	4.1	.914	None
SBR67-2261	34.7-35.7	21477	6.5	1.0	90.7	1.8	16.9	2.4	.923	None
SBR67-2262	35.7-36.8	21478	4.1	1.4	93.3	1.2	10.5	3.4	.925	None
SBR67-2263	36.8-37.8	21479	1.0	1.2	97.1	.7	2.6a	2.9		None
SBR67-2264	37.8-38.8	21480	.9	1.1	97.3	.7	2.4a	2.6		None
SBR67-2265	38.8-39.8	21481	1.0	1.1	97.0	.9	2.6a	2.6		None
SBR67-2266	39.8-40.1	21482	.6	.7	97.9	.8	1.6a	1.7		None
SBR67-2267	40.1-41.1	21483	3.5	1.8	93.9	.8	9.1	4.2	.927	None
SBR67-2268	41.1-41.5	21484	6.0	1.5	91.1	1.4	15.7	3.6	.915	None
SBR67-2269	44.2-45.2	21485	5.6	1.7	91.1	1.6	14.6	4.1	.920	None
SBR67-2270	45.2-46.2	21486	7.3	1.6	88.3	2.8	19.0	3.8	.919	None
SBR67-2271	46.2-46.7	21487	8.3	1.5	88.5	1.7	21.6	3.6	.918	None
SBR67-2272	46.7-47.7	21488	9.5	1.4	86.1	3.0	24.9	3.5	.915	None
SBR67-2273	47.7-48.0	21489	7.3	2.0	89.0	1.7	19.0	4.8	.918	None
SBR67-2274	48.0-49.0	21490	1.6	1.7	95.7	1.0	4.3a	4.1		None
SBR67-2275	49.0-50.1	21491	.4	1.6	97.4	.6	1.1a	3.8		None
SBR67-2276	50.1-51.1	21492	.1	2.4	96.9	.6	.2a	5.9		None
SBR67-2277	51.1-52.1	21493	.8	2.1	96.0	1.1	2.1a	5.0		None
SBR67-2278	52.1-52.8	21494	.8	1.2	97.2	.8	2.1a	2.9		None
SBR67-2279	52.8-53.8	21495	6.2	1.6	90.9	1.3	16.1	3.8	.923	None
SBR67-2280	53.8-54.2	21496	7.5	2.0	87.8	2.7	19.6	4.8	.923	None
SBR67-2281	54.2-55.3	21497	7.9	2.0	87.6	2.5	20.5	4.8	.923	None
SBR67-2282	55.3-56.3	21498	9.0	1.7	86.2	3.1	23.7	4.1	.915	None
SBR67-2283	56.3-56.6	21499	9.4	1.6	86.5	2.5	24.5	3.8	.917	None
SBR67-2284	56.6-57.8	21500	3.9	2.0	93.0	1.1	10.1	4.8	.932	None

See footnotes at end of table.

Core samples received February 14, 1967; assays made on air-dried samples

Laramie Petroleum Research Center, Laramie, Wyoming Illustration No. SBR-4056P Sheet No. 1 of 8 sheets April 21, 1967

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Bureau of Mines Rock Springs No. 1-3 Core (Con.)

Elevation 6368.1 feet - Top of surface casing

Sample number		Run No.	Yield of product				Specific gravity of oil at 60°/60° F	Properties of spent shale		Remarks
Laramie	Their		Weight percent		Gas + loss	Gal per ton		Tendency to coke		
		Oil	Water	Spent shale		Oil ^{1/}	Water			
SBR67-2285	57.8-58.8	21501	0.4	0.5	98.5	0.6	0.9a	1.2	None	
SBR67-2286	58.8-59.8	21502	.1	1.4	98.0	.5	.3a	3.2	None	
SBR67-2287	59.8-60.8	21505	.3	1.4	97.7	.6	.9a	3.4	None	
SBR67-2288	60.8-61.8	21506	.2	1.3	98.2	.3	.6a	3.1	None	
SBR67-2289	61.8-62.8	21507	.4	.5	98.7	.4	1.0a	1.1	None	
SBR67-2290	62.8-63.2	21508	.6	.5	98.3	.6	1.6a	1.2	None	
SBR67-2291	63.2-64.2	21509	1.4	1.0	96.6	1.0	3.7a	2.4	None	
SBR67-2292	64.2-64.5	21510	2.4	1.2	95.3	1.1	6.4	2.9	0.916	None
SBR67-2293	64.5-65.5	21511	6.8	1.5	89.7	2.0	17.7	3.6	.920	None
SBR67-2294	65.5-66.5	21512	8.2	1.7	87.4	2.7	21.2	4.1	.920	None
SBR67-2295	66.5-67.2	21513	11.0	1.8	84.1	3.1	28.2	4.4	.935	None
SBR67-2296	67.2-68.2	21514	10.6	1.8	85.8	1.8	27.7	4.3	.917	None
SBR67-2297	68.2-69.3	21515	8.7	2.0	86.1	3.2	22.7	4.8	.917	None
SBR67-2298	69.3-69.9	21516	10.1	1.9	84.2	3.8	26.2	4.6	.923	None
SBR67-2299	69.9-70.2	21517	3.5	.9	94.1	1.5	9.0	2.1	.925	None
SBR67-2300	70.2-71.3	21518	6.9	.9	89.4	2.8	17.9	2.2	.925	None
SBR67-2301	71.3-72.4	21519	8.1	1.2	88.7	2.0	21.0	2.9	.919	None
SBR67-2302	72.4-73.4	21520	4.0	1.1	93.2	1.7	10.7	2.6	.901	None
SBR67-2303	73.4-74.5	21521	4.5	1.1	93.0	1.4	12.0	2.6	.900	None
SBR67-2304	74.5-75.5	21522	6.9	1.6	89.7	1.8	18.0	3.8	.912	None
SBR67-2305	75.5-76.5	21523	5.9	1.9	90.6	1.6	15.6	4.6	.909	None
SBR67-2306	76.5-77.4	21524	6.3	2.3	89.1	2.3	16.6	5.5	.916	None
SBR67-2307	77.4-77.8	21525	8.8	2.3	87.0	1.9	22.8	5.5	.925	None
SBR67-2308	77.8-78.8	21526	8.6	2.6	86.2	2.6	22.3	6.2	.924	None
SBR67-2309	78.8-79.8	21527	7.7	2.4	87.7	2.2	19.7	5.8	.928	None
SBR67-2310	79.8-80.4	21528	7.1	2.3	88.2	2.4	18.2	5.5	.931	None
SBR67-2311	80.4-81.4	21529	7.1	2.3	87.2	3.4	18.1	5.5	.934	None
SBR67-2312	81.4-82.2	21530	5.4	2.4	89.3	2.9	13.7	5.8	.945	None
SBR67-2313	82.2-82.3	21531	1.9	6.0	91.2	.9	4.8a	14.4		None
SBR67-2314	82.3-83.3	21532	5.5	2.4	89.5	2.6	13.8	5.8	.948	None

See footnotes at end of table.

Core samples received February 14, 1967; assays made on air-dried samples

Laramie Petroleum Research Center, Laramie, Wyoming Illustration No. SBR-4056P Sheet No. 2 of 8 sheets April 21, 1967

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Bureau of Mines Rock Springs No. 1-3 Core (Con.)

Elevation 6368.1 feet - Top of surface casing

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			Gal per ton					
Laramie	Their		Oil	Water	Spent shale	Gas + loss	Oil ^{1/}	Water			
SBR67-2315	83.3- 83.8	21533	5.7	2.9	89.2	2.2	14.4	7.0	0.945	None	
SBR67-2316	83.8- 84.2	21534	5.0	4.5	89.0	1.5	12.6	10.8	.940	None	
SBR67-2317	84.2- 85.3	21535	9.7	2.0	85.7	2.6	25.2	4.8	.925	None	
SBR67-2318	85.3- 86.4	21536	10.4	2.0	85.3	2.3	26.9	4.8	.925	None	
SBR67-2319	86.4- 87.4	21537	11.7	2.1	82.0	4.2	30.3	5.0	.925	None	
SBR67-2320	87.4- 88.4	21538	8.4	2.4	86.7	2.5	21.4	5.8	.937	None	
SBR67-2321	88.4- 89.0	21539	9.4	2.1	86.3	2.2	24.3	5.0	.931	None	
SBR67-2322	89.0- 89.1	21540	8.3	3.7	86.3	1.7	21.2	8.8	.937	None	
SBR67-2323	89.1- 90.1	21541	13.5	2.0	82.0	2.5	35.4	4.8	.912	None	
SBR67-2324	90.1- 91.1	21542	10.3	.9	87.1	1.7	26.8	2.2	.917	None	
SBR67-2325	91.1- 92.1	21543	12.3	1.0	83.8	2.9	32.3	2.4	.909	None	
SBR67-2326	92.1- 92.8	21544	12.4	1.6	82.7	3.3	32.7	3.8	.907	None	
SBR67-2327	92.8- 92.9	21545	6.8	.9	90.0	2.3	18.0	2.1	.909	None	
SBR67-2328	92.9- 93.9	21546	12.9	2.2	83.0	1.9	34.1	5.3	.906	None	
SBR67-2329	93.9- 95.0	21547	11.2	2.2	84.0	2.6	29.3	5.3	.915	None	
SBR67-2330	95.0- 95.1	21548	7.2	3.8	88.0	1.0	18.8a	9.1		None	
SBR67-2331	95.1- 96.1	21549	9.3	2.8	85.6	2.3	24.6	6.7	.909	None	
SBR67-2332	96.1- 97.1	21550	9.1	2.8	86.4	1.7	24.0	6.7	.906	None	
SBR67-2333	97.1- 97.7	21551	6.3	2.5	89.4	1.8	16.4	6.1	.915	None	
SBR67-2334	97.7- 97.8	21552	4.4	3.2	90.5	1.9	11.5	7.7	.923	None	
SBR67-2335	97.8- 98.6	21553	6.2	2.1	89.3	2.4	16.0	5.0	.925	None	
SBR67-2336	98.6- 99.0	21554	9.6	4.8	84.6	1.0	25.7	11.5	.987	None	
SBR67-2337	99.0- 99.4	21555	11.2	2.9	84.0	1.9	29.6	7.0	.908	None	
SBR67-2338	99.4- 99.9	21556	5.2	2.4	91.1	1.3	13.8	5.8	.908	None	
SBR67-2339	105.6-106.5	21557	6.8	1.5	90.0	1.7	17.7	3.6	.912	None	
SBR67-2340	106.5-107.6	21558	9.1	1.6	86.2	3.1	23.9	3.8	.916	None	
SBR67-2341	107.6-107.8	21559	3.6	3.2	91.6	1.6	9.5	7.6	.910	None	
SBR67-2342	107.8-108.0	21560	1.4	1.0	97.0	.6	3.6a	2.4		None	
SBR67-2343	108.0-109.0	21561	5.9	2.6	89.9	1.6	15.6	6.2	.897	None	
SBR67-2344	109.0-109.1	21562	3.6	2.5	92.0	1.9	9.6	6.1	.893	None	

See footnotes at end of table.

Core samples received February 14, 1967; assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Bureau of Mines Rock Springs No. 1-3 Core (Con.)

Elevation 6368.1 feet - Top of surface casing

Sample number		Run No.	Yield of product				Specific gravity of oil at 60°/60° F	Properties of spent shale		Remarks
Laramie	Their		Weight percent		Gal per ton			Tendency to		
			Oil	Water	Spent shale	Gas + loss	Oil ^{1/}	Water	coke	
SBR67-2345	109.1-110.1	21563	1.9	2.2	94.5	1.4	5.0a	5.2	None	
SBR67-2346	110.1-111.1	21564	1.6	2.0	95.0	1.4	4.2a	4.8	None	
SBR67-2347	111.1-112.0	21565	1.9	1.5	95.2	1.4	4.8a	3.6	None	
SBR67-2348	112.0-113.0	21566	4.3	1.5	92.0	2.2	11.2	3.6	0.924	None
SBR67-2349	113.0-113.6	21567	6.3	1.7	90.8	1.2	16.4	4.1	.924	None
SBR67-2350	113.6-114.1	21568	3.2	.6	94.7	1.5	8.2	1.4	.939	None
SBR67-2351	114.1-115.1	21569	4.9	1.8	91.2	2.1	13.0	4.3	.909	None
SBR67-2352	115.1-115.6	21570	6.1	1.6	89.1	3.2	16.0	3.8	.907	None
SBR67-2353	115.6-115.7	21571	4.8	1.5	91.7	2.0	12.4a	3.6		None
SBR67-2354	115.7-116.7	21572	8.0	2.0	88.3	1.7	21.0	4.8	.917	None
SBR67-2355	116.7-117.7	21573	8.4	2.0	87.0	2.6	22.2	4.8	.907	None
SBR67-2356	117.7-118.5	21574	2.5	3.0	93.1	1.4	6.6	7.2	.894	None
SBR67-2357	118.5-118.8	21575	1.9	4.1	92.5	1.5	4.9a	9.8		None
SBR67-2358	118.8-118.9	21576	.0	6.7	92.1	1.2	Trace	16.1		None
SBR67-2359	118.9-119.9	21577	3.3	2.0	92.9	1.8	8.8	4.8	.898	None
SBR67-2360	119.9-120.9	21578	3.6	2.4	92.6	1.4	9.6	5.8	.898	None
SBR67-2361	120.9-121.5	21579	3.3	1.8	93.0	1.9	8.7	4.3	.904	None
SBR67-2362	121.5-122.6	21580	1.7	3.5	93.4	1.4	4.5a	8.3		None
SBR67-2363	121.6-122.7	21581	2.6	1.1	94.5	1.8	6.7	2.6	.909	None
SBR67-2364	122.7-123.7	21582	5.2	2.3	90.4	2.1	13.8	5.5	.897	None
SBR67-2365	123.7-124.8	21583	5.9	2.3	89.0	2.8	15.9	5.5	.893	None
SBR67-2366	124.8-125.1	21584	.4	6.5	91.2	1.9	1.0a	15.6		None
SBR67-2367	125.1-125.4	21585	.0	5.9	93.5	.6	Trace	14.1		None
SBR67-2368	125.4-125.8	21586	5.5	2.9	89.8	1.8	14.6	7.1	.902	None
SBR67-2369	125.8-126.0	21587	1.1	.7	97.0	1.2	3.0a	1.7		None
SBR67-2370	126.0-127.0	21588	4.2	3.0	90.1	2.7	11.2	7.2	.906	None
SBR67-2371	127.0-127.4	21589	4.2	3.6	89.8	2.4	11.2	8.6	.894	None
SBR67-2372	127.4-128.2	21590	4.0	1.4	93.3	1.3	10.7	3.4	.891	None
SBR67-2373	128.2-128.6	21591	.1	4.8	94.3	.8	.3a	11.5		None
SBR67-2374	128.6-129.6	21592	5.7	2.3	89.8	2.2	15.2	5.5	.902	None

See footnotes at end of table.

Core samples received February 14, 1967; assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Bureau of Mines Rock Springs No. 1-3 Core (Con.)

Elevation 6368.1 feet - Top of surface casing

Sample number		Run No.	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		
Laramie	Their		Oil	Water					Oil ^{1/}	Water
SBR67-2375	129.6-130.0	21593	5.8	3.0	89.0	2.2	15.5	7.2	0.895	None
SBR67-2376	130.0-130.7	21594	.8	3.5	94.0	1.7	2.1a	8.4		None
SBR67-2377	130.7-130.9	21595	.2	1.7	97.0	1.1	.5a	4.1		None
SBR67-2378	130.9-131.3	21596	.2	3.3	95.1	1.4	.4a	7.9		None
SBR67-2379	131.3-131.5	21597	.1	2.1	96.5	1.3	.4a	5.0		None
SBR67-2380	131.5-131.9	21598	.3	3.0	95.9	.8	.7a	7.2		None
SBR67-2381	131.9-132.2	21599	.3	1.3	97.4	1.0	.9a	3.1		None
SBR67-2382	132.2-133.2	21600	.6	2.1	96.2	1.1	1.5a	5.0		None
SBR67-2383	133.2-134.2	21601	.1	2.2	96.3	1.4	.2a	5.3		None
SBR67-2384	134.2-135.3	21602	.8	3.4	94.1	1.7	2.1a	8.1		None
SBR67-2385	135.3-135.4	21603	.0	5.4	92.8	1.8	No oil	12.9		None
SBR67-2386	135.4-136.3	21604	1.6	2.2	94.4	1.8	4.3a	5.3		None
SBR67-2387	136.3-137.3	21605	5.5	2.0	90.1	2.4	14.7	4.8	.903	None
SBR67-2388	137.3-137.6	21606	5.0	1.5	91.0	2.5	13.3	3.6	.906	None
SBR67-2389	137.6-138.6	21607	2.9	1.2	94.1	1.8	7.7	2.9	.905	None
SBR67-2390	138.6-139.6	21608	2.8	1.6	94.2	1.4	7.6	3.8	.901	None
SBR67-2391	139.6-140.6	21609	1.9	1.4	95.0	1.7	5.1a	3.4		None
SBR67-2392	140.6-141.6	21610	3.0	1.4	93.9	1.7	8.1	3.4	.895	None
SBR67-2393	141.6-142.6	21611	4.4	1.4	92.4	1.8	11.9	3.4	.895	None
SBR67-2394	142.6-143.6	21612	3.7	1.6	92.9	1.8	9.9	3.8	.896	None
SBR67-2395	143.6-144.6	21613	3.0	1.4	94.4	1.2	8.0	3.5	.900	None
SBR67-2396	144.6-145.6	21614	3.3	1.1	94.5	1.1	8.9	2.6	.903	None
SBR67-2397	145.6-146.6	21615	2.6	1.2	95.1	1.1	6.9	2.9	.904	None
SBR67-2398	146.6-147.6	21616	3.8	1.7	93.3	1.2	10.3	4.0	.895	None
SBR67-2399	147.6-148.6	21617	3.3	2.0	93.0	1.7	8.8	4.8	.892	None
SBR67-2400	148.6-149.6	21618	2.8	2.1	93.9	1.2	7.4	5.0	.895	None
SBR67-2401	149.6-150.6	21619	2.8	1.7	94.2	1.3	7.5	4.2	.896	None
SBR67-2402	150.6-151.6	21620	2.6	1.8	94.2	1.4	7.0	4.4	.894	None
SBR67-2403	151.6-152.6	21621	3.5	1.9	93.1	1.5	9.3	4.6	.891	None
SBR67-2404	152.6-153.6	21622	6.8	2.5	89.2	1.5	18.3	6.0	.888	None

See footnotes at end of table.

Core samples received February 14, 1967; assays made on air-dried samples

Laramie Petroleum Research Center, Laramie, Wyoming Illustration No. SBR-4056P Sheet No. 5 of 8 sheets April 21, 1967

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Bureau of Mines Rock Springs No. 1-3 Core (Con.)

Elevation 6368.1 feet - Top of surface casing

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				Tendency to		
Laramie	Their		Oil	Water	Spent shale	Gas + loss	Oil ^{1/}	Water		coke		
SBR67-2405	153.6-154.7	21623	5.1	2.5	89.9	2.5	13.7	6.1	0.885	None		
SBR67-2406	154.7-155.8	21624	4.2	2.8	90.3	2.7	11.2	6.8	.894	None		
SBR67-2407	155.8-156.8	21625	6.5	2.8	87.7	3.0	16.6	6.7	.929	None		
SBR67-2408	156.8-157.8	21626	5.4	2.6	90.3	1.7	14.3	6.2	.910	None		
SBR67-2409	157.8-158.4	21627	4.0	1.6	93.0	1.4	10.5	3.7	.912	None		
SBR67-2410	158.4-158.5	21628	2.1	3.9	92.3	1.7	5.5a	9.4		None		
SBR67-2411	158.5-159.5	21629	5.4	3.0	90.2	1.4	13.8	7.2	.930	None		
SBR67-2412	159.5-159.8	21630	3.9	3.5	90.7	1.9	10.2	8.4	.918	None		
SBR67-2413	159.8-160.4	21631	2.4	1.1	95.2	1.3	6.5	2.6	.899	None		
SBR67-2414	160.4-161.4	21632	4.8	3.0	90.0	2.2	12.8	7.1	.910	None		
SBR67-2415	161.4-162.4	21633	5.2	2.3	91.1	1.4	13.3	5.5	.932	None		
SBR67-2416	162.4-163.2	21634	6.0	2.2	90.1	1.7	15.4	5.3	.929	None		
SBR67-2417	163.2-164.1	21636	7.5	1.6	88.2	2.7	19.4	3.8	.924	None		
SBR67-2418	164.1-165.1	21637	7.1	1.4	88.3	3.2	18.1	3.4	.933	None		
SBR67-2419	165.1-166.1	21638	7.5	1.2	88.9	2.4	19.4	2.8	.929	None		
SBR67-2420	166.1-166.8	21639	7.3	2.1	89.1	1.5	18.7	5.0	.932	None		
SBR67-2421	166.8-167.2	21640	2.5	.7	95.7	1.1	6.4	1.7	.932	None		
SBR67-2422	167.2-167.8	21641	6.7	2.4	88.7	2.2	17.2	5.8	.938	None		
SBR67-2423	167.8-168.1	21642	2.7	1.0	94.9	1.4	6.9	2.5	.933	None		
SBR67-2424	168.1-168.8	21643	7.3	2.4	88.0	2.3	18.6	5.8	.935	None		
SBR67-2425	168.8-169.1	21644	3.1	1.2	94.4	1.3	8.1	2.9	.926	None		
SBR67-2426	169.1-170.1	21645	6.3	2.4	88.4	2.9	16.1	5.8	.937	None		
SBR67-2427	170.1-170.5	21646	2.9	1.0	94.9	1.2	7.5	2.3	.931	None		
SBR67-2428	170.5-171.5	21647	10.7	1.5	84.6	3.2	27.6	3.6	.929	None		
SBR67-2429	171.5-172.5	21648	8.5	1.5	86.4	3.6	22.2	3.6	.923	None		
SBR67-2430	172.5-172.9	21649	7.8	2.1	87.5	2.6	20.3	5.0	.918	None		
SBR67-2431	172.9-173.5	21650	5.4	1.3	91.5	1.8	14.3	3.0	.913	None		
SBR67-2432	173.5-174.5	21651	7.0	2.0	88.1	2.9	18.7	4.8	.898	None		
SBR67-2433	174.5-175.5	21652	8.3	2.1	86.2	3.4	22.0	4.9	.905	None		
SBR67-2434	175.5-176.5	21653	8.7	2.6	84.7	4.0	23.0	6.2	.909	None		

See footnotes at end of table.

Core samples received February 14, 1967; assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Bureau of Mines Rock Springs No. 1-3 Core (Con.)

Elevation 6368.1 feet - Top of surface casing

<u>Sample number</u>		Run No.	<u>Yield of product</u>				Specific gravity of oil at 60°/60° F	<u>Properties of spent shale</u>		Remarks	
<u>Laramie</u>	<u>Their</u>		<u>Weight percent</u>		Spent shale	Gas + loss		<u>Gal per ton</u>			Tendency to coke
		Oil	Water	Oil ^{1/}			Water				
SBR67-2435	176.5-177.5	21654	8.8	2.3	86.2	2.7	23.0	5.5	0.919	None	
SBR67-2436	177.5-178.5	21655	4.7	2.2	90.8	2.3	12.4	5.3	.915	None	
SBR67-2437	178.5-179.5	21656	5.1	2.6	89.2	3.1	13.5	6.2	.897	None	
SBR67-2438	179.5-180.5	21657	5.1	2.5	89.7	2.7	13.6	6.0	.905	None	
SBR67-2439	180.5-180.9	21658	8.1	2.5	86.9	2.5	21.4	6.1	.904	None	
SBR67-2440	180.9-181.0	21659	3.4	3.0	91.2	2.4	9.0a	7.2		None	
SBR67-2441	181.0-181.4	21660	9.3	1.4	85.9	3.4	24.5	3.2	.911	None	
SBR67-2442	181.4-182.4	21661	8.7	1.5	86.4	3.4	22.7	3.6	.922	None	
SBR67-2443	182.4-182.6	21662	7.8	1.0	88.9	2.3	20.1	2.4	.928	None	
SBR67-2444	182.6-183.1	21663	6.7	1.1	90.2	2.0	17.4	2.6	.929	None	
SBR67-2445	183.1-183.5	21664	4.3	1.3	92.6	1.8	11.2	3.1	.912	None	
SBR67-2446	183.5-184.5	21665	6.8	2.4	88.1	2.7	18.0	5.8	.907	None	
SBR67-2447	184.5-185.5	21666	6.3	2.1	88.2	3.4	16.6	5.2	.908	None	
SBR67-2448	185.5-186.0	21667	6.1	2.2	87.7	4.0	16.0	5.3	.913	None	
SBR67-2449	186.0-186.1	21668	4.2	3.0	88.0	4.8	11.1a	7.2		None	
SBR67-2450	186.1-186.2	21669	2.2	.0	95.0	2.8	5.9a	.0		None	
SBR67-2451	186.2-187.1	21670	4.5	1.5	92.4	1.6	12.1	3.5	.894	None	
SBR67-2452	187.1-187.3	21671	5.2	1.0	92.0	1.8	14.0	2.3	.894	None	
SBR67-2453	187.3-188.3	21672	5.4	2.9	89.1	2.6	14.4	7.0	.899	None	
SBR67-2454	188.3-189.4	21673	5.8	3.0	88.0	3.2	15.3	7.2	.903	None	
SBR67-2455	189.4-189.5	21674	4.1	1.6	90.6	3.7	10.8a	3.7		None	
SBR67-2456	189.5-189.7	21675	4.7	1.8	92.0	1.5	12.6	4.3	.896	None	
SBR67-2457	189.7-190.7	21676	1.2	2.6	94.0	2.2	3.2a	6.2		None	
SBR67-2458	190.7-190.9	21677	2.3	3.1	92.9	1.7	6.2	7.4	.889	None	
SBR67-2459	190.9-192.0	21678	3.5	2.9	91.2	2.4	9.3	7.0	.895	None	
SBR67-2460	192.0-192.2	21679	3.7	1.8	92.6	1.9	10.0	4.3	.894	None	
SBR67-2461	192.2-192.6	21680	2.1	.8	96.3	.8	5.7	1.8	.901	None	
SBR67-2462	192.6-192.8	21681	6.8	2.6	88.0	2.6	17.9	6.2	.907	None	
SBR67-2463	192.8-193.8	21682	.0	1.1	98.3	.6	No oil	2.6		None	
SBR67-2464	193.8-194.8	21683	.0	1.0	98.7	.3	No oil	2.3		None	

See footnotes at end of table.

Core samples received February 14, 1967; assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Bureau of Mines Rock Springs No. 1-3 Core (Con.)

Elevation 6368.1 feet - Top of surface casing

Sample number		Run No.	Yield of product				Specific gravity of oil at 60°/60° F	Properties of spent shale Tendency to coke	Remarks
Laramie	Their		Weight percent		Gal per ton				
			Oil	Water	Spent shale	Gas + loss	Oil ^{1/}	Water	
SBR67-2465	194.8-195.3	21684	0.0	0.8	98.7	0.5	No oil	1.8	None
SBR67-2466	195.3-196.3	21685	1.2	1.7	95.7	1.4	3.2a	4.1	None
SBR67-2467	196.3-196.7	21686	1.3	.4	97.9	.4	3.4a	1.1	None
SBR67-2468	196.7-197.0	21687	1.3	.7	97.4	.6	3.5a	1.7	None
SBR67-2469	197.0-197.7	21688	.7	1.5	97.2	.6	1.7a	3.7	None
SBR67-2470	197.7-197.8	21689	.2	1.7	97.5	.6	.5a	4.0	None
SBR67-2471	197.8-198.0	21690	.3	2.4	96.7	.6	.7a	5.7	None
SBR67-2472	198.0-198.2	21691	.2	.6	99.0	.2	.4a	1.4	None
SBR67-2473	198.2-199.2	21692	.6	.5	98.1	.8	1.6a	1.2	None
SBR67-2474	199.2-200.2	21693	1.1	1.2	96.8	.9	2.9a	2.8	None
SBR67-2475	200.2-201.2	21694	1.4	1.4	96.6	.6	3.6a	3.4	None
SBR67-2476	201.2-202.2	21696	1.3	1.7	95.5	1.5	3.3a	4.2	None
SBR67-2477	202.2-203.2	21697	1.2	1.3	96.2	1.3	3.1a	3.2	None
SBR67-2478	203.2-204.2	21698	1.5	1.7	95.4	1.4	3.9a	4.2	None
SBR67-2479	204.2-205.2	21699	1.5	1.2	96.1	1.2	3.9a	2.8	None
SBR67-2480	205.2-206.2	21700	2.4	1.4	94.7	1.5	6.2	3.2	0.929
SBR67-2481	206.2-207.2	21701	2.0	.9	95.5	1.6	5.3	2.2	.907
SBR67-2482	207.2-208.1	21702	.6	.4	98.4	.6	1.4a	1.0	None
SBR67-2483	208.1-209.0	21703	2.7	1.6	94.1	1.6	7.2	4.0	.885
SBR67-2484	209.0-209.3	21704	2.3	1.7	94.4	1.6	6.1	4.1	.889
SBR67-2485	209.3-209.6	21705	.4	.7	98.2	.7	1.0a	1.7	None
SBR67-2486	209.6-210.3	21706	.0	1.9	97.8	.8	No oil	4.6	None
SBR67-2487	210.3-210.7	21707	.0	2.6	96.8	.6	No oil	6.2	None
SBR67-2488	210.7-211.7	21708	.0	3.1	96.5	.4	No oil	7.3	None
SBR67-2489	211.7-212.7	21709	.0	2.8	96.4	.8	No oil	6.6	None
SBR67-2490	212.7-213.7	21710	.0	3.4	96.2	.4	No oil	8.1	None
SBR67-2491	213.7-214.7	21711	.0	3.0	96.9	.1	No oil	7.3	None
SBR67-2492	214.7-215.7	21712	.0	2.0	97.6	.4	No oil	4.7	None
SBR67-2493	215.7-216.3	21713	.0	1.6	98.2	.2	No oil	4.0	None
SBR67-2494	216.3-217.4	21714	.0	.5	99.1	.4	No oil	1.2	None

1/ "a"--indicates specific gravity estimated as 0.92.

Core samples received February 14, 1967; assays made on air-dried samples