

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Bureau of Mines Washakie Basin Corehole No. 1 drilled in NW1/4SW1/4
(2,277 feet N/S, 404 feet E/W) sec 17, T 14 N, R 99 W, Sweetwater County, Wyoming

Surface elevation 7,703 feet

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
SBR69-2217	0 - 5	39495	0.0	3.2	95.7	1.1	No oil	7.6	None	
SBR69-2218	5 - 10	39496	.0	3.0	96.3	.7	No oil	7.3	None	
SBR69-2219	10 - 15	39497	.6	3.2	94.9	1.3	1.6a	7.5	None	
SBR69-2220	15 - 20	39498	.0	3.3	96.1	.6	No oil	7.8	None	
SBR69-2221	20 - 25	39499	.9	3.3	94.4	1.4	2.3a	7.9	None	
SBR69-2222	25 - 30	39500	1.8	2.8	93.8	1.6	4.8a	6.7	None	
SBR69-2223	30 - 35	39501	2.2	2.7	93.9	1.2	5.9	6.5	0.890	None
SBR69-2224	35 - 40	39502	.0	2.9	96.9	.2	No oil	7.0	None	
SBR69-2225	40 - 45	39503	.0	2.8	95.8	1.4	No oil	6.7	None	
SBR69-2226	45 - 50	39504	.0	3.0	96.4	.6	No oil	7.1	None	
SBR69-2227	50 - 55	39505	.0	3.4	95.9	.7	No oil	8.2	None	
SBR69-2228	55 - 60	39506	.0	3.1	95.7	1.2	No oil	7.5	None	
SBR69-2229	60 - 65	39507	.0	3.0	96.3	.7	No oil	7.1	None	
SBR69-2230	65 - 70	39508	.0	3.0	95.6	1.4	No oil	7.1	None	
SBR69-2231	70 - 75	39509	.0	4.7	94.5	.8	No oil	11.2	None	
SBR69-2232	75 - 80	39510	.0	4.1	95.5	.4	No oil	9.9	None	
SBR69-2233	80 - 85	39511	.0	3.9	95.1	1.0	No oil	9.4	None	
SBR69-2234	85 - 90	39512	.0	2.3	96.8	.9	No oil	5.4	None	
SBR69-2235	90 - 95	39513	.0	1.1	97.4	1.5	No oil	2.7	None	
SBR69-2236	95 - 100	39514	.0	1.5	96.5	2.0	Trace	3.5	None	
SBR69-2237	101 - 102.7	39515	.0	6.1	92.3	1.6	No oil	14.5	None	
SBR69-2238	102.7 - 104	39516	.0	.9	99.0	.1	No oil	2.1	None	Start of core
SBR69-2239	104 - 105	39517	.0	1.3	98.3	.4	No oil	3.1	None	
SBR69-2240	105 - 106	39518	.0	.9	98.4	.7	No oil	2.2	None	
SBR69-2241	106 - 107	39519	.0	1.3	98.3	.4	No oil	3.1	None	
SBR69-2242	107 - 108	39520	.0	1.7	97.8	.5	No oil	4.1	None	
SBR69-2243	108 - 109	39521	.0	1.1	98.7	.2	No oil	2.6	None	
SBR69-2244	109 - 110	39522	.0	1.8	97.6	.6	No oil	4.2	None	
SBR69-2245	110 - 111	39523	.0	2.2	97.4	.4	No oil	5.3	None	
SBR69-2246	111 - 112	39524	.0	2.6	88.0	9.4	No oil	6.2	None	

See footnote at end of table.

Core and drill cutting samples received November 12, 1968; Assays made on air-dried samples

Laramie Petroleum Research Center, Laramie, Wyoming, Illustration No. SBR-4175P Sheet No. 1 of 32 sheets March 12, 1969

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Bureau of Mines Washakie Basin Corehole No. 1 (con.)

Surface elevation 7,703 feet

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	
SBR69-2247	112	-113	39525	0.0	1.9	96.9	1.2	No oil	4.5	None	
SBR69-2248	113	-114	39526	.0	2.0	97.2	.8	No oil	4.9	None	
SBR69-2249	114	-115	39527	.0	1.1	98.8	.1	No oil	2.6	None	
SBR69-2250	115	-116	39528	.0	.9	98.8	.3	No oil	2.1	None	
SBR69-2251	116	-117	39529	.0	.8	99.0	.2	No oil	2.0	None	
SBR69-2252	117	-118	39530	.0	1.0	98.9	.1	No oil	2.3	None	
SBR69-2253	118	-119	39531	.0	1.1	98.7	.2	No oil	2.7	None	
SBR69-2254	119	-120	39532	.0	1.1	98.6	.3	No oil	2.6	None	
SBR69-2255	120	-121	39533	.0	1.0	98.9	.1	No oil	2.4	None	
SBR69-2256	121	-122	39534	.0	1.6	97.9	.5	No oil	3.7	None	
SBR69-2257	122	-123	39535	.0	1.3	98.6	.1	No oil	3.2	None	
SBR69-2258	123.1	-124.0	39536	.0	1.3	98.6	.1	No oil	3.1	None	
SBR69-2259	124	-125	39537	.0	1.6	98.1	.3	No oil	3.9	None	
SBR69-2260	125	-126	39538	.0	2.3	97.2	.5	Trace	5.5	None	
SBR69-2261	126	-127	39539	.0	1.9	96.9	1.2	Trace	4.4	None	
SBR69-2262	127	-128	39540	.0	1.5	97.0	1.5	No oil	3.5	None	
SBR69-2263	128	-129	39541	.0	2.2	96.1	1.7	No oil	5.2	None	
SBR69-2264	129	-130	39542	.0	2.4	96.7	.9	No oil	5.8	None	
SBR69-2265	130	-131	39543	.0	2.1	97.4	.5	No oil	5.1	None	
SBR69-2266	131	-132	39544	.0	2.2	96.4	1.4	No oil	5.2	None	
SBR69-2267	132	-133	39545	.0	2.2	96.8	1.0	Trace	5.2	None	
SBR69-2268	133	-134	39546	.1	2.1	97.3	.5	.2a	5.2	None	
SBR69-2269	134	-135	39547	.0	2.1	97.3	.6	No oil	5.1	None	
SBR69-2270	135	-136	39548	.0	1.5	97.8	.7	No oil	3.7	None	
SBR69-2271	136	-137	39549	.0	.6	98.5	.9	No oil	1.4	None	
SBR69-2272	137	-138	39550	.0	.4	99.0	.6	No oil	1.0	None	
SBR69-2273	138	-139	39551	.0	.2	99.2	.6	No oil	.6	None	
SBR69-2274	139	-140	39552	.0	.6	99.2	.2	No oil	1.3	None	
SBR69-2275	140	-141	39553	.0	1.5	98.2	.3	No oil	3.7	None	
SBR69-2276	141	-142	39554	.0	1.2	98.2	.6	No oil	3.0	None	

See footnote at end of table.

Core and drill cutting samples received November 12, 1968; Assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Bureau of Mines Washakie Basin Corehole No. 1 (con.)

Surface elevation 7,703 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 ^{1/}	Water	
SBR69-2277	142	-143	39555	0.0	1.7	98.0	0.3	No oil	4.1	None	
SBR69-2278	143	-144	39556	.0	1.5	98.4	.1	No oil	3.7	None	
SBR69-2279	144	-145	39557	.0	2.3	96.9	.8	No oil	5.6	None	
SBR69-2280	145	-146	39558	.0	2.9	96.3	.8	No oil	7.0	None	
SBR69-2281	146	-147	39559	.0	2.7	96.3	1.0	No oil	6.5	None	
SBR69-2282	147	-148	39560	.0	2.6	96.9	.5	No oil	6.1	None	
SBR69-2283	148	-149	39561	.0	1.4	97.8	.8	No oil	3.3	None	
SBR69-2284	149	-150	39562	.0	1.8	97.3	.9	No oil	4.4	None	
SBR69-2285	150	-151	39563	.0	2.8	96.3	.9	Trace	6.7	None	
SBR69-2286	151	-152	39564	.0	2.3	95.7	2.0	No oil	5.5	None	
SBR69-2287	152	-153	39565	.0	2.5	96.3	1.2	Trace	6.0	None	
SBR69-2288	153.0-153.8		39566	.0	2.8	96.5	.7	Trace	6.7	None	
SBR69-2289	153.8-155.1		39567	.0	1.8	97.8	.4	No oil	4.3	None	
SBR69-2290	155.1-157.7		39568	.0	4.6	94.8	.6	No oil	11.0	None	
SBR69-2291	157.7-159.0		39569	.0	7.4	91.3	1.3	Trace	17.6	None	
SBR69-2292	159.0-160.0		39570	.0	6.2	92.5	1.3	No oil	14.8	None	
SBR69-2293	160.0-160.7		39571	.0	5.0	92.6	2.4	Trace	11.9	None	
SBR69-2294	160.7-162.0		39572	.0	4.3	94.5	1.2	Trace	10.2	None	
SBR69-2295	162.0-164.0		39573	.0	3.4	95.2	1.4	Trace	8.0	None	
SBR69-2296	164.0-165.8		39574	.0	3.1	95.3	1.6	Trace	7.3	None	
SBR69-2297	165.8-167.0		39575	.0	2.8	95.2	2.0	No oil	6.6	None	
SBR69-2298	167.0-168.0		39576	.0	2.9	95.5	1.6	No oil	7.0	None	
SBR69-2299	168.0-170.0		39577	.0	2.8	95.7	1.5	Trace	6.7	None	
SBR69-2300	170.0-172.0		39578	.1	1.7	97.4	.8	.2a	4.2	None	
SBR69-2301	172.0-174.0		39579	.0	2.8	95.5	1.7	Trace	6.7	None	
SBR69-2302	174.0-176.0		39580	.0	2.3	95.5	2.2	No oil	5.4	None	
SBR69-2303	176.0-178.7		39581	.0	3.3	95.0	1.7	Trace	7.8	None	
SBR69-2304	178.7-180.5		39582	.0	2.7	95.8	1.5	Trace	6.5	None	
SBR69-2305	180.5-182.5		39583	.0	3.0	95.5	1.5	No oil	7.3	None	
SBR69-2306	182.5-184.0		39584	.0	3.0	95.5	1.5	Trace	7.1	None	

See footnote at end of table.

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Samples from U.S. Bureau of Mines Washakie Basin Corehole No. 1 (con.)

Surface elevation 7,703 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 ^{1/}	Water	
SBR69-2307	184.0-185.0	39585	0.0	1.6	96.2	2.2	No oil	3.8		None	
SBR69-2308	185.0-186.0	39586	.0	1.6	96.3	2.1	No oil	3.8		None	
SBR69-2309	186.0-188.0	39587	.0	1.4	96.5	2.1	No oil	3.2		None	
SBR69-2310	188.0-190.0	39588	.0	2.1	96.4	1.5	No oil	5.0		None	
SBR69-2311	190.0-191.0	39589	.0	3.4	94.9	1.7	No oil	8.2		None	
SBR69-2312	191.0-192.2	39590	.2	2.0	95.5	2.3	.5a	4.8		None	
SBR69-2313	192.2-193.3	39591	.0	2.3	94.5	3.2	Trace	5.5		None	
SBR69-2314	193.3-194.6	39592	.0	3.3	94.9	1.8	No oil	8.0		None	
SBR69-2315	194.6-196.0	39593	.5	2.1	95.8	1.6	1.4a	5.0		None	
SBR69-2316	196.0-198.0	39594	.5	2.1	95.9	1.5	1.4a	4.9		None	
SBR69-2317	198.0-199.6	39595	.1	3.3	94.7	1.9	.3a	7.9		None	
SBR69-2318	199.6-200.6	39596	.7	3.4	94.5	1.4	1.8a	8.1		None	
SBR69-2319	200.6-201.6	39597	2.4	2.0	93.6	2.0	6.2a	4.8		None	
SBR69-2320	201.6-202.7	39598	4.0	1.7	92.5	1.8	10.3	4.1	0.925	None	
SBR69-2321	202.7-204.0	39599	2.5	2.1	94.0	1.4	6.4	5.0	.925	None	
SBR69-2322	204.0-205.0	39600	2.6	2.1	93.6	1.7	6.7	5.0	.926	None	
SBR69-2323	205.0-206.0	39601	2.7	1.6	94.7	1.0	7.0	3.8	.928	None	
SBR69-2324	206.0-207.0	39602	3.0	2.1	93.6	1.3	7.9	5.0	.924	None	
SBR69-2325	207.6-208.2	39603	3.5	2.3	92.7	1.5	9.1	5.5	.927	None	
SBR69-2326	208.2-209.0	39604	3.7	2.1	92.8	1.4	9.5	5.0	.918	None	
SBR69-2327	209.0-210.0	39605	3.3	2.6	92.8	1.3	8.7	6.2	.912	None	
SBR69-2328	210.0-211.0	39606	4.2	2.1	92.2	1.5	10.9	5.0	.917	None	
SBR69-2329	211.0-212.6	39607	3.2	2.0	93.0	1.8	8.4	4.8	.921	None	
SBR69-2330	212.6-213.6	39608	3.1	1.9	92.7	2.3	8.0	4.7	.932	None	
SBR69-2331	213.6-214.6	39609	2.2	1.6	94.2	2.0	5.8	3.8	.922	None	
SBR69-2332	214.6-215.6	39610	2.8	2.6	93.4	1.2	7.3	6.2	.906	None	
SBR69-2333	215.6-216.6	39611	5.3	1.7	90.8	2.2	13.9	4.2	.910	None	
SBR69-2334	216.6-217.5	39612	7.8	2.2	87.0	3.0	20.2	5.4	.925	None	
SBR69-2335	217.5-217.9	39613	1.7	.5	96.9	.9	4.5a	1.1		None	
SBR69-2336	217.9-218.8	39614	6.7	2.8	88.3	2.2	17.4	6.6	.927	None	

See footnote at end of table.

Core and drill cutting samples received November 12, 1968; Assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Bureau of Mines Washakie Basin Corehole No. 1 (con.)

Surface elevation 7,703 feet

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			
SBR69-2337	218.8-219.6	39615	10.3	3.2	81.9	4.6	26.3	7.7	0.936	None	
SBR69-2338	219.6-220.2	39616	5.0	2.2	90.4	2.4	13.2	5.3	.913	None	
SBR69-2339	220.2-221.1	39617	7.5	1.9	86.2	4.4	19.1	4.7	.936	None	
SBR69-2340	221.1-222.0	39618	1.1	2.5	95.4	1.0	2.8a	6.0		None	
SBR69-2341	222.0-224.0	39619	3.7	2.2	92.4	1.7	9.8	5.2	.912	None	
SBR69-2342	224.0-226.0	39620	3.8	2.2	92.0	2.0	10.1	5.3	.914	None	
SBR69-2343	226.0-228.0	39621	3.3	1.3	92.2	3.2	8.6	3.1	.927	None	
SBR69-2344	228.0-230.0	39622	3.3	1.3	93.3	2.1	8.6	3.1	.925	None	
SBR69-2345	230.0-232.0	39623	3.6	1.8	92.3	2.3	9.2	4.3	.925	None	
SBR69-2346	232.0-234.0	39624	3.8	2.2	91.6	2.4	9.9	5.3	.929	None	
SBR69-2347	234.0-236.0	39625	3.6	2.2	92.1	2.1	9.4	5.3	.927	None	
SBR69-2348	236.0-238.0	39626	3.1	2.2	92.8	1.9	8.0	5.3	.927	None	
SBR69-2349	238.0-240.0	39627	2.1	2.4	94.2	1.3	5.5	5.8	.923	None	
SBR69-2350	240.0-242.0	39628	1.9	2.1	94.5	1.5	5.0	5.0	.918	None	
SBR69-2351	242.0-244.0	39629	2.3	2.3	94.2	1.2	6.1	5.5	.913	None	
SBR69-2352	244.0-246.0	39630	2.5	2.2	93.7	1.6	6.5	5.3	.907	None	
SBR69-2353	246.0-248.0	39631	2.6	2.0	93.5	1.9	6.9	4.8	.910	None	
SBR69-2354	248.0-250.0	39632	2.6	2.1	94.1	1.2	6.7	5.0	.929	None	
SBR69-2355	250.0-252.0	39633	3.0	1.8	92.6	2.6	7.8	4.3	.912	None	
SBR69-2356	252.0-254.0	39634	2.9	2.2	93.0	1.9	7.7	5.2	.911	None	
SBR69-2357	254.0-256.0	39635	2.3	2.1	93.0	2.6	6.0	5.2	.914	None	
SBR69-2358	256.0-258.0	39636	2.3	2.7	93.6	1.4	5.9	6.5	.920	None	
SBR69-2359	258.0-260.0	39637	2.2	2.4	93.7	1.7	5.7	5.8	.918	None	
SBR69-2360	260.0-262.0	39638	1.9	2.4	94.7	1.0	5.0a	5.8		None	
SBR69-2361	262.0-264.0	39639	1.0	2.5	95.3	1.2	2.7a	6.0		None	
SBR69-2362	264.0-266.0	39640	.8	3.3	95.2	.7	2.1a	7.8		None	
SBR69-2363	266.1-268.0	39641	1.0	2.7	95.8	.5	2.5a	6.5		None	
SBR69-2364	268.0-269.6	39642	.8	2.9	95.3	1.0	2.2a	6.8		None	
SBR69-2365	269.6-270.6	39643	1.5	2.8	94.9	.8	3.9a	6.7		None	
SBR69-2366	270.6-272.4	39644	2.5	2.5	93.2	1.8	6.4	6.0	.921	None	

See footnote at end of table.

Core and drill cutting samples received November 12, 1968; Assays made on air-dried samples

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Surface elevation 7,703 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			Gal per ton						
Laramie	Their	Oil	Water	Spent shale	Gas + loss	Oil ^{1/}	Water				
SBR69-2367	272.4-273.4	39645	1.6	2.3	94.0	2.1	4.0a	5.5		None	
SBR69-2368	273.4-274.4	39646	3.1	2.7	92.0	2.2	8.3	6.4	0.908	None	
SBR69-2369	274.4-275.4	39647	4.4	2.5	91.0	2.1	11.7	6.0	.907	None	
SBR69-2370	275.4-276.7	39648	3.0	1.7	93.7	1.6	7.9	4.1	.927	None	
SBR69-2371	276.7-277.9	39649	3.4	1.8	93.0	1.8	8.9	4.3	.927	None	
SBR69-2372	277.9-279.2	39650	2.3	2.6	93.9	1.2	5.9	6.2	.918	None	
SBR69-2373	279.2-280.2	39651	3.3	3.5	91.4	1.8	8.7	8.3	.912	None	
SBR69-2374	280.2-281.2	39652	2.6	2.5	91.5	3.4	6.8	6.0	.912	None	
SBR69-2375	281.2-281.7	39653	.0	6.0	92.6	1.4	No oil	14.3		None	
SBR69-2376	281.7-283.1	39654	4.4	3.0	90.5	2.1	11.5	7.2	.908	None	
SBR69-2377	283.1-284.1	39655	3.0	3.5	92.3	1.2	7.9	8.4	.912	None	
SBR69-2378	284.1-285.2	39656	1.4	2.8	94.6	1.2	3.6a	6.7		None	
SBR69-2379	285.2-286.5	39657	1.3	1.8	94.5	2.4	3.3a	4.3		None	
SBR69-2380	286.5-287.7	39658	.7	2.4	95.1	1.8	1.9a	5.6		None	
SBR69-2381	287.7-288.7	39659	1.6	1.6	94.4	2.4	4.3a	3.8		None	
SBR69-2382	288.7-289.6	39660	1.8	2.6	93.8	1.8	4.6a	6.2		None	
SBR69-2383	289.6-290.2	39661	2.9	3.4	92.1	1.6	7.4	8.1	.934	None	
SBR69-2384	290.2-291.4	39662	1.5	3.5	93.7	1.3	3.8a	8.4		None	
SBR69-2385	291.4-292.8	39663	3.5	4.8	90.1	1.6	9.4	11.5	.895	None	
SBR69-2386	292.8-293.9	39664	2.2	2.4	93.7	1.7	5.9	5.8	.903	None	
SBR69-2387	293.9-295.0	39665	.7	3.0	94.1	2.2	1.7a	7.2		None	
SBR69-2388	295.0-296.0	39666	1.5	2.9	94.4	1.2	3.9a	7.0		None	
SBR69-2389	296.0-297.0	39667	1.4	2.7	94.6	1.3	3.7a	6.5		None	
SBR69-2390	297.0-298.0	39668	2.2	2.8	93.8	1.2	6.0	6.7	.901	None	
SBR69-2391	298.0-299.0	39669	3.2	2.7	92.3	1.8	8.5	6.5	.898	None	
SBR69-2392	299.0-300.1	39670	6.3	2.6	88.7	2.4	16.6	6.2	.902	None	
SBR69-2393	300.1-301.2	39671	2.7	2.7	92.9	1.7	7.1	6.4	.908	None	
SBR69-2394	301.2-302.2	39672	3.0	2.7	92.8	1.5	7.8	6.6	.906	None	
SBR69-2395	302.2-303.2	39673	3.5	2.5	92.2	1.8	9.2	6.0	.899	None	
SBR69-2396	303.2-304.5	39674	3.5	2.8	91.8	1.9	9.3	6.7	.909	None	

See footnote at end of table.

Core and drill cutting samples received November 12, 1968; Assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Bureau of Mines Washakie Basin Corehole No. 1 (con.)

Surface elevation 7,703 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		Gal per ton							
Laramie	Their	Oil	Water	Spent shale	Gas + loss	Oil ^{1/}	Water				
SBR69-2397	304.5-305.5	39675	4.3	3.3	90.6	1.8	11.2	7.9	0.910	None	
SBR69-2398	305.5-306.5	39676	7.9	2.7	86.9	2.5	20.7	6.5	.912	None	
SBR69-2399	306.5-307.5	39677	6.0	3.2	88.6	2.2	15.8	7.7	.914	None	
SBR69-2400	307.5-308.5	39678	7.8	3.1	86.2	2.9	20.7	7.4	.901	None	
SBR69-2401	308.5-310.0	39679	4.4	3.0	89.9	2.7	11.7	7.2	.899	None	
SBR69-2402	310.0-311.0	39680	6.0	2.8	89.4	1.8	15.8	6.7	.909	None	
SBR69-2403	311.0-312.0	39681	2.5	2.0	93.7	1.8	6.6	4.7	.914	None	
SBR69-2404	312.0-313.1	39682	2.9	2.3	93.4	1.4	7.6	5.5	.910	None	
SBR69-2405	313.1-313.9	39683	2.9	.9	94.8	1.4	7.3	2.2	.934	None	
SBR69-2406	313.9-314.5	39684	3.8	2.6	91.4	2.2	10.0	6.2	.915	None	
SBR69-2407	314.5-315.0	39685	3.2	1.5	93.0	2.3	8.3	3.6	.922	None	
SBR69-2408	315.0-316.0	39686	2.8	2.6	93.1	1.5	7.4	6.1	.921	None	
SBR69-2409	316.0-317.0	39687	3.0	2.7	92.6	1.7	7.7	6.5	.920	None	
SBR69-2410	317.0-318.0	39688	2.6	2.7	93.1	1.6	6.7	6.5	.916	None	
SBR69-2411	318.0-319.0	39689	3.0	2.9	92.3	1.8	7.9	7.0	.918	None	
SBR69-2412	319.0-320.0	39690	2.1	3.5	92.6	1.8	5.6	8.4	.916	None	
SBR69-2413	320.0-321.0	39691	3.1	3.0	92.3	1.6	8.1	7.2	.922	None	
SBR69-2414	321.0-321.8	39692	4.9	2.8	90.6	1.7	12.7	6.6	.927	None	
SBR69-2415	321.8-322.8	39693	4.8	2.5	90.2	2.5	12.5	6.0	.919	None	
SBR69-2416	322.8-324.0	39694	16.6	3.1	75.3	5.0	42.7	7.3	.935	None	
SBR69-2417	324.0-325.0	39695	16.1	2.2	76.9	4.8	41.2	5.3	.937	None	
SBR69-2418	325.0-326.0	39696	14.2	2.3	79.6	3.9	36.2	5.5	.941	None	
SBR69-2419	326.0-326.8	39697	14.9	2.7	78.1	4.3	38.2	6.5	.936	None	
SBR69-2420	326.8-328.1	39698	2.8	2.1	93.4	1.7	7.4	5.0	.915	None	
SBR69-2421	328.1-329.3	39699	2.2	2.6	94.0	1.2	5.8	6.2	.911	None	
SBR69-2422	329.3-330.3	39700	3.6	3.0	91.6	1.8	9.4	7.2	.909	None	
SBR69-2423	330.3-331.3	39701	3.5	2.7	92.0	1.8	9.1	6.5	.914	None	
SBR69-2424	331.3-332.3	39702	2.6	2.7	93.0	1.7	6.9	6.5	.913	None	
SBR69-2425	332.3-333.4	39703	1.6	3.2	93.5	1.7	4.2a	7.7		None	
SBR69-2426	333.4-334.5	39704	3.1	2.6	92.8	1.5	8.1	6.2	.912	None	

See footnote at end of table.

Core and drill cutting samples received November 12, 1968; Assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Bureau of Mines Washakie Basin Corehole No. 1 (con.)

Surface elevation 7,703 feet

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	Water	coke	
SBR69-2427	334.5-335.2	39705	3.0	1.8	92.3	2.9	7.7	4.3	None	
SBR69-2428	335.2-336.0	39706	4.1	1.9	91.9	2.1	10.5	4.6	None	
SBR69-2429	336.0-337.0	39707	4.1	2.0	91.7	2.2	10.5	4.8	None	
SBR69-2430	337.0-338.0	39708	4.0	1.0	91.5	3.5	10.2	2.5	None	
SBR69-2431	338.0-338.9	39709	5.8	1.9	89.9	2.4	15.1	4.4	None	
SBR69-2432	338.9-339.9	39710	5.7	2.0	89.8	2.5	15.0	4.8	None	
SBR69-2433	339.9-340.8	39711	5.5	1.7	90.1	2.7	14.4	4.1	None	
SBR69-2434	340.8-341.8	39712	5.2	2.2	90.0	2.6	13.7	5.3	None	
SBR69-2435	341.8-342.8	39713	5.4	1.5	90.1	3.0	13.8	3.6	None	
SBR69-2436	342.8-343.8	39714	5.7	1.8	89.9	2.6	14.6	4.3	None	
SBR69-2437	343.8-344.8	39715	6.2	2.0	89.0	2.8	16.1	4.8	None	
SBR69-2438	344.8-346.0	39716	4.4	1.8	91.8	2.0	11.4	4.3	None	
SBR69-2439	346.0-347.4	39717	5.9	1.9	89.6	2.6	15.2	4.6	None	
SBR69-2440	347.4-348.5	39718	4.7	2.0	91.3	2.0	12.1	4.8	None	
SBR69-2441	348.5-349.5	39719	5.3	1.9	90.4	2.4	13.6	4.6	None	
SBR69-2442	349.5-350.5	39720	5.2	2.1	90.4	2.3	13.3	5.0	None	
SBR69-2443	350.5-351.5	39721	4.6	2.3	90.9	2.2	11.8	5.5	None	
SBR69-2444	351.5-352.5	39722	5.0	2.5	90.7	1.8	12.7	6.0	None	
SBR69-2445	352.5-353.5	39723	5.1	2.5	90.2	2.2	13.1	6.0	None	
SBR69-2446	353.5-355.3	39724	6.0	1.9	89.6	2.5	15.7	4.6	None	
SBR69-2447	355.3-356.8	39725	7.3	2.0	88.1	2.6	19.4	4.8	None	
SBR69-2448	356.8-358.0	39726	15.4	2.7	78.1	3.8	40.0	6.5	None	
SBR69-2449	358.0-359.7	39727	13.7	2.4	80.5	3.4	35.5	5.8	None	
SBR69-2450	359.7-360.7	39728	6.3	1.8	89.6	2.3	16.8	4.3	None	
SBR69-2451	360.7-361.7	39729	10.2	1.8	84.3	3.7	26.8	4.3	None	
SBR69-2452	361.7-363.3	39730	9.8	2.0	84.6	3.6	25.8	4.8	None	
SBR69-2453	363.3-364.9	39731	8.7	1.4	86.1	3.8	22.7	3.4	None	
SBR69-2454	364.9-366.5	39732	7.6	2.3	87.0	3.1	20.2	5.5	None	
SBR69-2455	366.5-368.4	39733	8.5	2.0	86.7	2.8	22.0	4.8	None	
SBR69-2456	368.4-369.7	39734	6.0	1.4	89.5	3.1	15.6	3.4	None	

Core and drill cutting samples received November 12, 1968; Assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Bureau of Mines Washakie Basin Corehole No. 1 (con.)

Surface elevation 7,703 feet

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			
SBR69-2457	369.7-371.0	39735	8.3	1.8	86.5	3.4	21.7	4.3	0.917	None	
SBR69-2458	371.0-371.9	39736	9.1	1.9	86.4	2.6	24.1	4.6	.903	None	
SBR69-2459	371.9-372.8	39737	7.3	1.8	88.4	2.5	19.1	4.3	.911	None	
SBR69-2460	372.8-373.9	39738	9.6	2.5	84.9	3.0	25.3	6.0	.914	None	
SBR69-2461	374.3-375.3	39739	7.4	3.4	86.6	2.6	19.3	8.1	.923	None	
SBR69-2462	375.3-376.3	39740	9.9	2.5	84.8	2.8	25.6	6.0	.925	None	
SBR69-2463	376.3-377.3	39741	7.6	2.5	87.4	2.5	19.6	6.0	.922	None	
SBR69-2464	377.3-378.3	39742	8.0	1.8	87.3	2.9	20.8	4.3	.926	None	
SBR69-2465	378.3-379.3	39743	7.9	2.3	86.9	2.9	20.5	5.5	.923	None	
SBR69-2466	379.3-380.6	39744	9.5	1.9	85.0	3.6	24.9	4.6	.910	None	
SBR69-2467	380.6-381.4	39745	10.2	1.8	84.9	3.1	27.8	4.3	.884	None	
SBR69-2468	381.4-383.4	39746	.8	3.8	94.0	1.4	2.2a	9.1		None	
SBR69-2469	383.4-384.4	39747	8.3	2.4	86.5	2.8	21.7	5.8	.912	None	
SBR69-2470	384.4-385.6	39748	8.7	2.9	85.3	3.1	22.9	7.0	.910	None	
SBR69-2471	385.6-386.8	39749	4.8	3.0	90.1	2.1	12.5	7.2	.921	None	
SBR69-2472	386.8-388.0	39750	1.7	3.0	93.6	1.7	4.5a	7.2		None	
SBR69-2473	388.0-389.1	39751	.3	2.4	96.1	1.2	.7a	5.8		None	
SBR69-2474	389.2-391.0	39753	.6	2.3	96.3	.8	1.6a	5.5		None	
SBR69-2475	391.0-393.0	39754	.5	2.5	96.3	.7	1.2a	6.0		None	
SBR69-2476	393.0-394.4	39755	1.1	1.6	96.2	1.1	2.8a	3.8		None	
SBR69-2477	394.4-395.4	39756	.5	2.1	96.7	.7	1.2a	5.0		None	
SBR69-2478	395.4-396.2	39757	3.6	1.5	93.1	1.8	9.4	3.7	.913	None	
SBR69-2479	396.2-397.4	39758	7.1	1.6	89.2	2.1	18.4	3.8	.925	None	
SBR69-2480	397.4-398.5	39759	6.8	1.7	89.2	2.3	17.6	4.1	.918	None	
SBR69-2481	398.5-399.5	39760	9.4	1.5	86.5	2.6	24.7	3.6	.910	None	
SBR69-2482	399.5-400.3	39761	5.6	1.2	89.9	3.3	14.5	2.9	.923	None	
SBR69-2483	400.3-401.0	39762	6.1	1.5	90.2	2.2	16.1	3.6	.914	None	
SBR69-2484	401.0-402.0	39763	8.4	2.4	86.9	2.3	21.3	5.9	.938	None	
SBR69-2485	402.0-403.3	39764	5.9	1.8	90.1	2.2	15.1	4.4	.933	None	
SBR69-2486	403.3-404.1	39765	4.0	1.1	92.1	2.8	10.3	2.6	.935	None	

See footnote at end of table.

Core and drill cutting samples received November 12, 1968; Assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Bureau of Mines Washakie Basin Corehole No. 1 (con.)

Surface elevation 7,703 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				Gal per ton					
		Oil	Water	Spent shale	Gas + loss	Oil ^{1/}	Water				
Laramie	Their										
SBR69-2487	39766	404.1-405.1	10.1	1.8	84.7	3.4	26.0	4.3	0.925	None	
SBR69-2488	39767	405.1-406.2	5.4	2.0	89.2	3.4	14.4	4.8	.902	None	
SBR69-2489	39768	406.2-407.4	7.0	1.7	88.8	2.5	18.3	4.1	.911	None	
SBR69-2490	39769	407.4-408.9	5.1	2.0	91.1	1.8	13.3	4.8	.910	None	
SBR69-2491	39770	408.9-409.2	.0	2.0	95.6	2.4	Trace	4.8		None	
SBR69-2492	39771	409.2-410.4	5.9	1.8	89.4	2.9	15.4	4.3	.920	None	
SBR69-2493	39772	410.4-411.3	8.0	2.3	87.1	2.6	20.3	5.6	.941	None	
SBR69-2494	39773	411.3-412.0	6.3	2.2	89.2	2.3	16.0	5.3	.944	None	
SBR69-2495	39774	412.0-412.7	10.9	1.8	83.6	3.7	27.9	4.4	.935	None	
SBR69-2496	39775	412.7-413.6	4.0	1.9	92.5	1.6	10.2	4.6	.938	None	
SBR69-2497	39776	413.6-414.7	7.3	1.6	88.6	2.5	18.7	4.0	.936	None	
SBR69-2498	39777	414.7-415.8	7.5	1.5	88.2	2.8	19.2	3.6	.932	None	
SBR69-2499	39778	415.8-417.7	3.7	1.5	93.0	1.8	9.6	3.6	.916	None	
SBR69-2500	39779	417.7-418.7	8.6	.9	88.4	2.1	22.6	2.2	.905	None	
SBR69-2501	39780	418.7-420.2	7.7	1.3	88.6	2.4	20.1	3.1	.920	None	
SBR69-2502	39781	420.2-421.0	4.6	1.2	92.4	1.8	12.1	2.9	.912	None	
SBR69-2503	39782	421.0-422.0	4.9	1.1	92.2	1.8	13.0	2.8	.899	None	
SBR69-2504	39783	422.0-423.0	9.9	.8	86.4	2.9	25.6	1.9	.923	None	
SBR69-2505	39784	423.0-424.0	10.5	.8	86.0	2.7	27.5	1.9	.913	None	
SBR69-2506	39785	424.0-425.0	7.0	.7	90.0	2.3	18.4	1.7	.915	None	
SBR69-2507	39786	425.0-426.0	9.2	.6	87.7	2.5	24.1	1.4	.910	None	
SBR69-2508	39787	426.0-427.0	14.9	1.3	80.5	3.3	38.7a	3.1		None	
SBR69-2509	39788	427.0-427.7	14.9	1.2	80.7	3.2	40.7	2.9	.876	None	
SBR69-2510	39789	427.7-428.7	2.0	.6	96.8	.6	5.3a	1.3		None	
SBR69-2511	39790	428.7-429.9	1.0	.7	97.8	.5	2.5a	1.8		None	
SBR69-2512	39791	429.9-430.5	2.2	.5	96.5	.8	5.8a	1.2		None	
SBR69-2513	39792	430.5-431.2	6.9	.8	90.0	2.3	18.1	1.9	.910	None	
SBR69-2514	39793	431.2-432.0	10.1	1.4	85.8	2.7	27.1	3.2	.895	None	
SBR69-2515	39794	432.0-432.9	10.2	2.1	85.4	2.3	27.5	5.0	.889	None	
SBR69-2516	39795	432.9-434.0	.8	2.1	96.2	.9	2.0a	5.0		None	Top buff marker

See footnote at end of table.

Core and drill cutting samples received November 12, 1968; Assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Bureau of Mines Washakie Basin Corehole No. 1 (con.)

Surface elevation 7,703 feet

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
SBR69-2517	434.0-436.6	39796	0.0	1.5	97.7	0.8	Trace	3.6	None	
SBR69-2518	436.6-440.0	39797	.0	2.0	97.3	.7	Trace	4.8	None	
SBR69-2519	440.0-444.0	39798	.0	1.8	97.6	.6	Trace	4.3	None	
SBR69-2520	444.0-448.0	39799	.0	1.8	97.7	.5	Trace	4.3	None	
SBR69-2521	448.0-452.0	39800	.0	1.6	97.4	1.0	No oil	3.7	None	
SBR69-2522	452.0-456.0	39801	.0	.8	98.5	.7	No oil	1.9	None	
SBR69-2523	456.0-460.0	39802	.2	1.4	98.0	.4	.5a	3.4	None	
SBR69-2524	460.0-465.0	39803	.3	.8	97.6	1.3	.8a	1.8	None	
SBR69-2525	465.0-470.0	39804	.0	1.7	98.0	.3	Trace	4.1	None	
SBR69-2526	470.0-475.0	39805	.0	1.6	98.2	.2	Trace	3.7	None	
SBR69-2527	475.0-480.0	39806	.2	1.6	97.4	.8	.6a	3.8	None	
SBR69-2528	480.0-484.0	39807	.2	2.0	96.9	.9	.6a	4.7	None	
SBR69-2529	484.0-487.0	39808	.2	2.3	96.9	.6	.6a	5.5	None	
SBR69-2530	487.0-489.0	39809	.5	2.2	96.8	.5	1.2a	5.4	None	
SBR69-2531	489.0-490.5	39810	.4	1.6	97.4	.6	1.2a	3.8	None	
SBR69-2532	490.5-492.4	39811	.9	1.1	97.5	.5	2.4a	2.6	None	
SBR69-2533	492.4-493.4	39812	.9	1.1	97.4	.6	2.3a	2.6	None	
SBR69-2534	493.4-495.2	39813	1.1	1.4	96.1	1.4	3.0a	3.4	None	Bottom buff
SBR69-2535	495.2-496.6	39814	5.9	.9	91.2	2.0	15.2	2.2	0.926	marker
SBR69-2536	496.6-498.0	39815	8.1	1.7	87.9	2.3	21.9	4.1	.890	
SBR69-2537	498.0-498.8	39816	14.0	1.6	80.9	3.5	36.8	3.8	.912	
SBR69-2538	498.8-499.9	39817	8.5	1.3	87.9	2.3	22.6	3.1	.896	
SBR69-2539	499.9-500.6	39818	7.9	1.9	88.0	2.2	20.8	4.6	.905	
SBR69-2540	500.6-501.2	39819	11.3	1.9	84.3	2.5	29.0	4.6	.931	
SBR69-2541	501.2-502.4	39820	7.1	2.0	89.1	1.8	18.3	4.8	.933	
SBR69-2542	502.4-502.9	39821	2.5	1.8	94.9	.8	6.5	4.3	.918	
SBR69-2543	502.9-503.5	39822	10.9	1.8	84.5	2.8	28.1	4.3	.928	
SBR69-2544	503.5-504.3	39823	8.4	1.5	87.3	2.8	21.9	3.6	.924	
SBR69-2545	504.3-505.0	39824	10.0	1.7	85.7	2.6	25.8	4.1	.924	
SBR69-2546	505.0-506.0	39825	10.1	1.7	84.8	3.4	26.2	4.1	.925	

See footnote at end of table.

Core and drill cutting samples received November 12, 1968; Assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Bureau of Mines Washakie Basin Corehole No. 1 (con.)

Surface elevation 7,703 feet

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			
SBR69-2547	506.0-507.0	39826	12.2	1.2	83.1	3.5	31.8	2.9	0.921	None	
SBR69-2548	507.0-508.2	39827	10.0	.6	85.9	3.5	25.7	1.6	.928	None	
SBR69-2549	508.2-508.8	39828	10.7	1.5	84.4	3.4	27.3	3.6	.937	None	
SBR69-2550	508.8-509.2	39829	2.8	1.6	94.0	1.6	7.2	3.8	.939	None	
SBR69-2551	509.2-510.9	39830	.3	.8	98.1	.8	.9a	1.8		None	
SBR69-2552	510.9-511.7	39831	3.7	1.4	92.6	2.3	9.6	3.4	.933	None	
SBR69-2553	511.7-512.6	39832	.8	1.2	96.7	1.3	2.1a	2.9		None	
SBR69-2554	512.6-514.1	39833	5.0	1.1	91.8	2.1	13.0	2.6	.918	None	
SBR69-2555	514.1-515.8	39834	7.4	1.7	88.8	2.1	19.3	4.1	.914	None	
SBR69-2556	515.8-517.0	39835	10.2	2.0	84.5	3.3	26.6	4.8	.918	None	
SBR69-2557	517.0-518.0	39836	11.6	2.1	82.6	3.7	30.1	5.0	.925	None	
SBR69-2558	518.0-519.2	39837	14.0	2.0	79.4	4.6	35.8	4.8	.939	None	
SBR69-2559	519.2-520.4	39838	14.6	2.2	79.0	4.2	37.1	5.3	.943	None	
SBR69-2560	520.4-521.2	39839	11.1	1.7	83.1	4.1	28.4	4.1	.938	None	
SBR69-2561	521.2-522.2	39840	9.8	1.6	86.0	2.6	25.6	3.7	.922	None	
SBR69-2562	522.2-523.0	39841	9.2	1.7	86.3	2.8	23.9	4.1	.918	None	
SBR69-2563	523.0-524.1	39842	6.4	1.7	88.3	3.6	16.6	4.1	.920	None	
SBR69-2564	524.1-525.5	39843	8.1	1.7	87.4	2.8	21.1	4.1	.924	None	
SBR69-2565	525.5-527.0	39844	12.7	2.3	81.5	3.5	32.5	5.5	.934	None	
SBR69-2566	527.0-528.7	39845	7.6	1.6	88.7	2.1	19.7	3.8	.931	None	
SBR69-2567	528.7-529.5	39846	5.8	1.9	90.4	1.9	15.0	4.6	.929	None	
SBR69-2568	529.5-530.6	39847	10.6	2.0	84.6	2.8	27.4	4.8	.923	None	
SBR69-2569	530.6-531.7	39848	8.1	1.3	88.3	2.3	21.4	3.1	.908	None	
SBR69-2570	531.7-532.9	39849	7.1	1.3	89.3	2.3	18.7	3.2	.908	None	
SBR69-2571	532.9-533.7	39850	7.4	1.5	89.5	1.6	19.8	3.7	.895	None	
SBR69-2572	533.7-534.2	39851	7.0	.9	90.5	1.6	18.7	2.2	.903	None	
SBR69-2573	534.2-535.0	39852	3.9	1.0	92.8	2.3	10.2	2.4	.922	None	
SBR69-2574	535.0-536.0	39853	4.1	1.5	92.9	1.5	10.8	3.6	.921	None	
SBR69-2575	536.0-537.0	39854	5.3	1.6	91.5	1.6	13.8	3.8	.914	None	
SBR69-2576	537.0-538.0	39855	4.8	1.6	91.5	2.1	12.6	3.7	.917	None	

See footnote at end of table.

Core and drill cutting samples received November 12, 1968; Assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Bureau of Mines Washakie Basin Corehole No. 1 (con.)

Surface elevation 7,703 feet

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		
SBR69-2577	538.0-539.0	39856	5.8	1.7	90.6	1.9	15.1	4.1	0.917	None		
SBR69-2578	539.0-540.0	39857	8.2	1.6	88.1	2.1	21.3	3.8	.923	None		
SBR69-2579	540.0-541.0	39858	6.4	1.4	90.8	1.4	16.6	3.4	.925	None		
SBR69-2580	541.0-542.6	39859	4.3	2.0	92.3	1.4	11.2	4.7	.925	None		
SBR69-2581	542.6-543.6	39860	3.3	2.3	92.9	1.5	8.8	5.5	.899	None		
SBR69-2582	543.6-544.6	39861	4.4	2.0	91.5	2.1	11.8	4.8	.899	None		
SBR69-2583	544.6-547.4	39862	1.4	1.0	96.5	1.1	3.8a	2.4		None		
SBR69-2584	547.4-550.0	39863	.8	.4	97.6	1.2	2.1a	1.0		None		
SBR69-2585	550.0-552.0	39864	1.3	.7	96.8	1.2	3.5a	1.7		None		
SBR69-2586	552.0-552.9	39865	1.1	2.4	95.2	1.3	2.9a	5.8		None		
SBR69-2587	552.9-554.0	39866	3.3	2.1	92.9	1.7	8.6	5.0	.916	None		
SBR69-2588	554.0-555.2	39867	3.2	1.9	93.6	1.3	8.2	4.6	.935	None		
SBR69-2589	555.2-556.7	39868	2.9	1.9	93.6	1.6	7.7	4.6	.906	None		
SBR69-2590	556.7-557.7	39869	2.6	2.2	93.6	1.6	7.0	5.3	.900	None		
SBR69-2591	557.7-558.5	39870	5.2	3.2	89.4	2.2	13.5	7.7	.917	None		
SBR69-2592	558.5-559.5	39871	1.0	3.2	94.2	1.6	2.6a	7.8		None		
SBR69-2593	559.5-560.5	39872	3.9	1.4	93.3	1.4	10.1	3.4	.927	None		
SBR69-2594	560.5-561.5	39873	3.1	1.1	93.0	2.8	8.0	2.6	.920	None		
SBR69-2595	561.5-562.9	39874	4.2	1.7	91.8	2.3	10.8	4.1	.926	None		
SBR69-2596	562.9-564.4	39875	3.9	.5	92.9	2.7	10.1	1.2	.921	None		
SBR69-2597	564.4-565.4	39876	7.0	2.2	88.3	2.5	18.2	5.3	.919	None		
SBR69-2598	565.4-567.4	39877	.5	1.1	98.2	.2	1.2a	2.6		None		
SBR69-2599	567.4-568.5	39878	4.4	1.9	91.7	2.0	11.5	4.6	.923	None		
SBR69-2600	568.5-569.5	39879	3.2	1.4	93.8	1.6	8.5	3.4	.915	None		
SBR69-2601	569.5-570.8	39880	4.3	1.8	92.6	1.3	11.3	4.3	.901	None		
SBR69-2602	570.8-572.0	39881	6.4	1.9	89.0	2.7	16.8	4.6	.921	None		
SBR69-2603	572.0-573.1	39882	3.2	1.5	94.5	.8	8.1	3.6	.930	None		
SBR69-2604	573.1-574.2	39883	3.0	1.6	94.6	.8	7.8	3.8	.917	None		
SBR69-2605	574.2-574.9	39884	5.0	1.8	91.4	1.8	13.4	4.3	.900	None		
SBR69-2606	574.9-575.2	39885	.4	.4	98.3	.9	1.2a	1.0		None		

See footnote at end of table.

Core and drill cutting samples received November 12, 1968; Assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Bureau of Mines Washakie Basin Corehole No. 1 (con.)

Surface elevation 7,703 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				Gal per ton					
		Laramie	Their	Oil	Water	Spent shale	Gas + loss	Oil ^{1/}			
SBR69-2607	39886	575.2-576.4	4.2	1.5	92.2	2.1	11.1	3.6	0.908	None	
SBR69-2608	39887	576.4-577.5	4.0	1.8	92.4	1.8	10.5	4.3	.912	None	
SBR69-2609	39888	577.5-579.0	4.9	1.5	91.5	2.1	12.9	3.5	.918	None	
SBR69-2610	39889	579.0-579.5	10.2	1.6	84.8	3.4	26.7	3.8	.917	None	
SBR69-2611	39890	579.5-579.9	1.9	1.1	95.8	1.2	5.0a	2.6		None	
SBR69-2612	39891	579.9-581.0	3.4	1.7	93.2	1.7	8.7	4.1	.925	None	
SBR69-2613	39892	581.0-582.0	3.7	1.8	92.7	1.8	9.7	4.3	.915	None	
SBR69-2614	39893	582.0-583.0	4.2	1.8	92.6	1.4	10.9	4.3	.912	None	
SBR69-2615	39894	583.0-584.0	4.4	1.8	91.6	2.2	11.5	4.3	.910	None	
SBR69-2616	39895	584.0-585.0	4.8	1.7	91.4	2.1	12.3	4.1	.925	None	
SBR69-2617	39897	585.0-586.3	5.8	1.4	91.0	1.8	15.0	3.4	.926	None	
SBR69-2618	39898	586.3-587.1	11.4	2.2	83.3	3.1	29.4	5.3	.925	None	
SBR69-2619	39899	587.1-588.0	3.5	1.4	94.1	1.0	9.1	3.5	.923	None	
SBR69-2620	39900	588.0-589.2	2.9	1.8	94.1	1.2	7.5	4.3	.922	None	
SBR69-2621	39901	589.2-590.2	5.5	1.6	91.1	1.8	14.4	3.8	.922	None	
SBR69-2622	39902	590.2-591.2	4.4	1.7	92.3	1.6	11.4	4.1	.926	None	
SBR69-2623	39903	591.2-592.2	3.3	2.3	92.8	1.6	8.5	5.5	.921	None	
SBR69-2624	39904	592.2-593.0	10.5	1.5	85.5	2.5	27.2	3.6	.925	None	
SBR69-2625	39905	593.0-596.6	.0	1.5	98.5	.0	No oil	3.5		None	
SBR69-2626	39906	596.6-598.1	.0	1.4	98.5	.1	No oil	3.4		None	
SBR69-2627	39907	598.1-598.4	.0	1.4	98.5	.1	No oil	3.5		None	
SBR69-2628	39908	598.4-599.8	.2	.5	98.8	.5	.5a	1.3		None	
SBR69-2629	39909	599.8-600.8	1.7	1.2	95.5	1.6	4.5a	2.9		None	
SBR69-2630	39910	600.8-601.4	.0	.6	98.8	.6	Trace	1.3		None	
SBR69-2631	39911	601.4-605.0	.0	.5	98.5	1.0	Trace	1.1		None	
SBR69-2632	39912	605.0-607.0	.0	1.5	98.4	.1	No oil	3.6		None	
SBR69-2633	39913	607.0-608.6	.0	.8	99.1	.1	No oil	2.0		None	
SBR69-2634	39914	608.6-610.9	.0	.5	98.9	.6	Trace	1.2		None	
SBR69-2635	39915	610.9-615.9	.0	.3	99.6	.1	Trace	.6		None	
SBR69-2636	39916	615.9-620.9	.0	.3	99.6	.1	Trace	.7		None	

See footnote at end of table.

Core and drill cutting samples received November 12, 1968; Assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Bureau of Mines Washakie Basin Corehole No. 1 (con.)

Surface elevation 7,703 feet

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	
SBR69-2637	620.9-622.8	39917	0.0	2.6	97.1	0.3	Trace	6.1	None	
SBR69-2638	622.8-623.8	39918	.1	3.0	96.3	.6	.3a	7.2	None	
SBR69-2639	623.8-624.8	39919	.4	.3	99.2	.1	1.1a	.6	None	
SBR69-2640	624.8-627.0	39920	.0	3.0	96.6	.4	Trace	7.1	None	
SBR69-2641	627.0-628.0	39921	.0	2.3	96.4	1.3	Trace	5.4	None	
SBR69-2642	628.0-629.3	39922	2.3	1.4	94.7	1.6	6.0a	3.4	None	
SBR69-2643	629.3-631.1	39923	.0	2.8	96.4	.8	No oil	6.8	None	
SBR69-2644	631.1-632.2	39924	1.0	2.4	95.6	1.0	2.5a	5.8	None	
SBR69-2645	632.2-633.9	39925	3.0	2.5	92.9	1.6	8.2	6.0	0.880	None
SBR69-2646	633.9-635.0	39926	2.0	3.3	93.1	1.6	5.1a	7.9	None	
SBR69-2647	635.0-636.1	39927	4.7	2.1	91.2	2.0	12.1	5.0	.925	None
SBR69-2648	636.1-636.8	39928	.8	.4	98.1	.7	2.2a	1.0	None	
SBR69-2649	636.8-637.8	39929	2.7	3.0	92.4	1.9	7.1	7.2	.920	None
SBR69-2650	637.8-638.8	39930	2.2	3.0	93.1	1.7	5.7	7.2	.911	None
SBR69-2651	638.8-640.0	39931	3.3	2.1	92.9	1.7	8.7	5.0	.905	None
SBR69-2652	640.0-641.0	39932	3.7	2.5	91.6	2.2	10.0	6.0	.891	None
SBR69-2653	641.0-642.0	39933	4.0	2.9	90.2	2.9	10.8	7.0	.893	None
SBR69-2654	642.0-643.0	39934	3.8	3.0	91.4	1.8	10.0	7.2	.913	None
SBR69-2655	643.0-644.1	39935	4.5	2.2	91.3	2.0	11.7	5.3	.917	None
SBR69-2656	644.1-645.1	39936	.8	.3	98.1	.8	2.0a	.8	None	
SBR69-2657	645.1-646.1	39937	3.3	3.2	91.2	2.3	8.7	7.7	.908	None
SBR69-2658	646.1-647.1	39938	4.8	3.4	89.6	2.2	12.9	8.1	.892	None
SBR69-2659	647.1-648.1	39939	4.4	3.2	90.3	2.1	11.3	7.7	.919	None
SBR69-2660	648.1-649.1	39940	4.2	3.1	90.7	2.0	10.9	7.4	.914	None
SBR69-2661	649.1-649.9	39941	.0	3.2	96.4	.4	Trace	7.7	None	
SBR69-2662	649.9-651.5	39942	.0	2.2	97.6	.2	No oil	5.3	None	Top Cathedral
SBR69-2663	651.5-653.5	39943	.0	3.5	95.8	.7	No oil	8.4	None	Bluffs
SBR69-2664	653.5-655.5	39944	.0	1.9	97.8	.3	No oil	4.6	None	
SBR69-2665	655.5-657.5	39945	.0	3.0	95.2	1.8	No oil	7.2	None	
SBR69-2666	657.5-659.8	39946	.0	.9	98.7	.4	No oil	2.2	None	

See footnote at end of table.

Core and drill cutting samples received November 12, 1968; Assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Bureau of Mines Washakie Basin Corehole No. 1 (con.)

Surface elevation 7,703 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		Gal per ton						
Laramie	Their	Oil	Water	Spent shale	Gas + loss	Oil ^{1/}	Water			
SBR69-2667	659.8- 662.5	39947	0.0	0.2	98.6	1.2	No oil	0.4	None	
SBR69-2668	662.5- 663.5	39948	.0	1.8	97.4	.8	No oil	4.3	None	
SBR69-2669	667.4- 671.8	39949	.0	3.1	96.0	.9	No oil	7.4	None	
SBR69-2670	679.4- 683.1	39950	.0	3.9	94.6	1.5	No oil	9.3	None	
SBR69-2910-11	683.1- 700.0						Trace			Start cuttings
SBR69-2912-3008	700.0-1670						No oil			
SBR69-3009	1570 -1680						b			
SBR69-3010-59	1680 -2172.5						No oil			End cuttings
SBR69-3060	2172.5-2173.5	40150	.0	4.2	94.2	1.6	No oil	10.0	None	
SBR69-3061	2173.5-2175.0	40151	.0	1.6	97.2	1.2	No oil	3.7	None	
SBR69-3062	2175.0-2176.4	40152	.0	2.3	96.7	1.0	No oil	5.6	None	
SBR69-3063	2176.4-2177.7	40153	.0	2.6	96.6	.8	No oil	6.1	None	
SBR69-3064	2177.7-2179.6	40154	.0	1.5	98.1	.4	No oil	3.5	None	
SBR69-3065	2181.4-2183.7	40155	.0	2.4	97.0	.6	No oil	5.8	None	
SBR69-3066	2183.7-2185.3	40156	.0	1.0	97.9	1.1	No oil	2.3	None	
SBR69-3067	2185.3-2190.3	40157	.0	3.8	95.0	1.2	No oil	9.0	None	
SBR69-3068	2190.3-2194.0	40158	.0	1.8	97.4	.8	No oil	4.4	None	
SBR69-3069	2194.0-2195.0	40159	.0	1.2	98.6	.2	No oil	3.0	None	
SBR69-3070	2195.0-2197.7	40160	.0	.6	99.3	.1	No oil	1.3	None	
SBR69-3071	2197.7-2198.9	40161	.0	1.9	96.2	1.9	Trace	4.4	None	
SBR69-3072	2198.9-2200.0	40162	.9	3.2	94.1	1.8	2.3a	7.7	None	
SBR69-3073	2200.0-2201.1	40163	3.1	2.3	90.8	3.8	8.1	5.5	0.921	None
SBR69-3074	2201.1-2203.3	40164	.0	.9	98.6	.5	No oil	2.1	None	
SBR69-3075	2203.3-2205.7	40165	.0	2.3	96.8	.9	No oil	5.6	None	
SBR69-3076	2205.7-2207.6	40166	.0	1.1	98.0	.9	No oil	2.6	None	
SBR69-3077	2207.6-2210.0	40167	.0	.3	99.0	.7	No oil	.7	None	
SBR69-3078	2210.0-2213.0	40168	.0	.3	99.3	.4	No oil	.6	None	
SBR69-3079	2213.0-2216.0	40169	.0	.4	99.1	.5	No oil	.9	None	
SBR69-3080	2216.0-2217.1	40291	.1	1.7	97.5	.7	0.4a	4.0	None	
SBR69-3081	2217.1-2220.0	40171	.0	.5	99.1	.4	No oil	1.1	None	

See footnote at end of table.

Core and drill cutting samples received November 12, 1968; Assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Bureau of Mines Washakie Basin Corehole No. 1 (con.)

Surface elevation 7,703 feet

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			
SBR69-3082	2220.0-2225.0	40172	0.0	0.3	99.3	0.4	No oil	0.6	None	
SBR69-3083	2225.0-2230.0	40173	.0	.1	99.2	.7	No oil	.3	None	
SBR69-3084	2230.0-2235.0	40174	.0	.2	99.2	.6	No oil	.5	None	
SBR69-3085	2235.0-2239.3	40175	.0	.3	99.3	.4	No oil	.8	None	
SBR69-3086	2239.3-2240.3	40176	1.3	3.0	94.2	1.5	3.4a	7.2	None	
SBR69-3087	2240.3-2241.5	40177	1.2	2.8	94.5	1.5	3.2a	6.7	None	
SBR69-3088	2241.5-2242.5	40178	2.5	3.0	92.7	1.8	6.5	7.2	0.912	None
SBR69-3089	2242.5-2243.7	40179	2.3	2.9	92.9	1.9	6.0	7.0	.912	None
SBR69-3090	2243.7-2244.7	40180	3.0	2.8	92.2	2.0	7.9	6.7	.912	None
SBR69-3091	2244.7-2245.7	40181	3.6	3.6	91.0	1.8	9.7	8.6	.889	None
SBR69-3092	2245.7-2247.0	40182	.1	.2	99.0	.7	.3a	.4		None
SBR69-3093	2247.0-2250.4	40183	.0	.5	99.0	.5	No oil	1.1		None
SBR69-3094	2250.4-2252.4	40184	.0	1.1	98.5	.4	Trace	2.5		None
SBR69-3095	2252.4-2254.9	40185	.0	1.5	98.1	.4	Trace	3.7		None
SBR69-3096	2254.9-2258.4	40186	.0	1.6	97.8	.6	No oil	3.8		None
SBR69-3097	2258.4-2260.8	40187	.6	1.7	96.1	1.6	1.6a	4.1		None
SBR69-3098	2260.8-2263.0	40188	.0	1.0	98.5	.5	No oil	2.4		None
SBR69-3099	2263.0-2265.2	40189	.2	.4	99.0	.4	.6a	1.0		None
SBR69-3100	2265.2-2268.0	40190	1.0	2.6	94.8	1.6	2.7a	6.2		None
SBR69-3101	2268.0-2269.8	40191	1.7	2.1	93.8	2.4	4.3a	5.2		None
SBR69-3102	2269.8-2271.4	40192	1.7	2.6	93.5	2.2	4.5a	6.2		None
SBR69-3103	2271.4-2273.3	40193	1.3	2.0	95.2	1.5	3.3a	4.8		None
SBR69-3104	2273.3-2275.0	40194	.2	1.7	97.6	.5	.5a	4.1		None
SBR69-3105	2275.0-2276.0	40195	.0	2.1	97.3	.6	Trace	5.1		None
SBR69-3106	2276.0-2277.8	40196	.1	.3	99.4	.2	.2a	.8		None
SBR69-3107	2277.8-2279.5	40197	.0	.5	98.9	.6	No oil	1.2		None
SBR69-3108	2279.5-2281.7	40198	.0	.8	99.2	.0	No oil	1.9		None
SBR69-3109	2281.7-2284.0	40199	.0	1.4	96.2	2.4	No oil	3.4		None
SBR69-3110	2284.0-2286.0	40200	.0	3.0	96.0	1.0	No oil	7.2		None
SBR69-3111	2286.0-2288.4	40201	.0	1.0	98.3	.7	No oil	2.5		None

See footnote at end of table.

Core and drill cutting samples received November 12, 1968; Assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Bureau of Mines Washakie Basin Corehole No. 1 (con.)

Surface elevation 7,703 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		Gal per ton				
Laramie	Their		Oil	Water	Spent shale	Gas + loss	Oil ^l / Water		
SBR69-3112	2288.4-2290.4	40202	0.0	2.8	96.1	1.1	No oil 6.7		None
SBR69-3113	2290.4-2291.4	40203	.0	1.4	98.6	.0	No oil 3.3		None
SBR69-3114	2291.4-2293.0	40204	.0	1.5	98.3	.2	No oil 3.6		None
SBR69-3115	2293.0-2294.7	40205	.4	.5	99.0	.1	1.0a 1.2		None
SBR69-3116	2294.7-2297.0	40206	.2	2.3	97.1	.4	.5a 5.4		None
SBR69-3117	2297.0-2299.0	40207	.1	2.2	97.3	.4	.2a 5.3		None
SBR69-3118	2299.0-2300.4	40208	.4	2.1	96.5	1.0	1.0a 5.0		None
SBR69-3119	2300.4-2301.6	40209	5.1	2.5	89.5	2.9	13.3 6.0	0.922	None
SBR69-3120	2301.6-2302.7	40210	4.6	2.4	89.5	3.5	12.0 5.8	.924	None
SBR69-3121	2302.7-2303.7	40211	8.8	2.6	86.4	2.2	22.7 6.1	.928	None
SBR69-3122	2303.7-2306.0	40212	.0	1.5	97.5	1.0	No oil 3.5		None
SBR69-3123	2306.0-2309.0	40213	.0	2.0	97.4	.6	No oil 4.9		None
SBR69-3124	2309.0-2312.4	40214	.4	1.0	98.1	.5	.9a 2.4		None
SBR69-3125	2312.4-2314.0	40215	.0	2.4	95.2	2.4	Trace 5.6		None
SBR69-3126	2314.0-2315.6	40216	.0	3.4	95.2	1.4	Trace 8.0		None
SBR69-3127	2315.6-2319.2	40217	.0	1.9	97.8	.3	No oil 4.6		None
SBR69-3128	2319.2-2322.6	40218	.0	.3	99.4	.3	No oil .7		None
SBR69-3129	2322.6-2325.0	40219	.0	.2	99.7	.1	Trace .5		None
SBR69-3130	2325.0-2326.6	40220	.1	.1	99.4	.4	.3a .2		None
SBR69-3131	2326.6-2331.0	40221	.0	.2	99.8	.0	No oil .4		None
SBR69-3132	2331.0-2334.5	40222	.1	.1	99.8	.0	.3a .1		None
SBR69-3133	2334.5-2338.0	40223	.1	.0	99.5	.4	.4a .0		None
SBR69-3134	2338.0-2340.0	40224	.1	1.7	97.7	.5	.2a 4.1		None
SBR69-3135	2340.0-2342.7	40225	.2	.1	99.6	.1	.5a .2		None
SBR69-3136	2342.7-2344.0	40226	.3	2.5	96.9	.3	.8a 6.0		None
SBR69-3137	2344.0-2345.0	40227	.1	.3	99.5	.1	.4a .7		None
SBR69-3138	2345.0-2346.6	40228	.0	.9	98.8	.3	No oil 2.2		None
SBR69-3139	2346.6-2347.6	40229	.0	2.3	97.2	.5	No oil 5.6		None
SBR69-3140	2347.6-2348.7	40230	.1	3.1	95.5	1.3	.3a 7.4		None
SBR69-3141	2348.7-2350.3	40231	1.2	3.1	94.3	1.4	3.3a 7.4		None

See footnote at end of table.

Core and drill cutting samples received November 12, 1968; Assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Bureau of Mines Washakie Basin Corehole No. 1 (con.)

Surface elevation 7,703 feet

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
SBR69-3142	2350.3-2351.7	40232	0.0	1.9	96.7	1.4	Trace	4.6	None	
SBR69-3143	2351.7-2353.9	40233	.0	1.2	97.1	1.7	No oil	2.8	None	
SBR69-3144	2353.9-2354.8	40234	.0	2.5	95.4	2.1	Trace	6.0	None	
SBR69-3145	2354.8-2358.0	40235	.0	.7	97.8	1.5	No oil	1.7	None	
SBR69-3146	2358.0-2359.8	40236	.0	3.3	93.8	2.9	No oil	8.0	None	
SBR69-3147	2359.8-2363.0	40237	.0	2.3	96.4	1.3	No oil	5.4	None	
SBR69-3148	2363.0-2366.2	40238	.0	1.0	98.0	1.0	No oil	2.3	None	
SBR69-3149	2367.0-2371.8	40239	.0	3.7	93.7	2.6	No oil	8.9	None	
SBR69-3150	2371.8-2373.3	40240	.0	1.7	96.7	1.6	No oil	4.0	None	
SBR69-3151	2373.3-2376.7	40241	.0	2.1	96.2	1.7	No oil	5.0	None	
SBR69-3152	2378.0-2380.1	40242	.0	3.7	94.9	1.4	No oil	8.7	None	
SBR69-3153	2382.0-2383.8	40243	.0	2.6	96.2	1.2	No oil	6.3	None	
SBR69-3154	2385.3-2387.4	40244	.0	1.5	97.9	.6	No oil	3.7	None	
SBR69-3155	2387.4-2388.6	40245	.0	.2	99.3	.5	No oil	.4	None	
SBR69-3156	2388.6-2391.0	40246	.0	1.1	97.8	1.1	No oil	2.5	None	
SBR69-3157	2391.0-2393.6	40247	.0	1.7	97.7	.6	Trace	4.0	None	
SBR69-3158	2393.6-2394.7	40248	.0	2.8	96.1	1.1	Trace	6.7	None	
SBR69-3159	2394.7-2396.4	40249	.0	2.4	96.7	.9	No oil	5.7	None	
SBR69-3160	2396.4-2398.2	40250	.0	2.5	97.0	.5	No oil	5.9	None	
SBR69-3161	2398.2-2400.6	40251	.0	.7	98.8	.5	No oil	1.7	None	
SBR69-3162	2400.6-2402.6	40252	.0	2.1	97.2	.7	Trace	4.9	None	
SBR69-3163	2402.6-2404.1	40253	.1	2.7	95.9	1.3	.2a	6.5	None	
SBR69-3164	2404.1-2405.6	40254	.7	3.2	94.1	2.0	1.8a	7.7	None	
SBR69-3165	2405.6-2406.7	40255	1.2	2.8	93.9	2.1	3.0a	6.7	None	
SBR69-3166	2406.7-2407.4	40256	3.3	3.6	90.5	2.6	8.5	8.6	0.915	None
SBR69-3167	2407.4-2408.0	40257	4.8	3.0	89.4	2.8	12.5	7.2	.925	None
SBR69-3168	2408.0-2408.6	40258	3.1	2.7	92.2	2.0	8.2	6.5	.913	None
SBR69-3169	2408.6-2410.0	40259	.9	1.9	95.6	1.6	2.4a	4.4		None
SBR69-3170	2410.0-2411.3	40260	.8	1.6	94.9	2.7	2.0a	3.8		None
SBR69-3171	2411.3-2413.4	40261	.0	1.2	98.2	.6	No oil	3.0		None

See footnote at end of table.

Core and drill cutting samples received November 12, 1968; Assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Bureau of Mines Washakie Basin Corehole No. 1 (con.)

Surface elevation 7,703 feet

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
SBR69-3172	2413.4-2415.6	40262	0.0	1.6	98.0	0.4	No oil	3.8	None	
SBR69-3173	2415.6-2417.2	40263	.0	2.1	96.5	1.4	No oil	5.1	None	
SBR69-3174	2417.2-2418.7	40264	.0	.8	98.4	.8	No oil	1.9	None	
SBR69-3175	2418.7-2421.0	40265	.0	1.1	98.6	.3	No oil	2.7	None	
SBR69-3176	2422.3-2425.0	40266	.0	1.3	98.2	.5	No oil	3.0	None	
SBR69-3177	2425.0-2428.0	40267	.0	2.4	96.0	1.6	No oil	5.8	None	
SBR69-3178	2428.0-2430.0	40268	.0	2.6	95.9	1.5	No oil	6.2	None	
SBR69-3179	2430.0-2432.0	40269	.0	1.9	96.6	1.5	No oil	4.6	None	
SBR69-3180	2432.0-2434.0	40270	.0	2.5	96.6	.9	No oil	6.1	None	
SBR69-3181	2434.0-2436.9	40271	.0	.3	98.5	1.2	No oil	.7	None	
SBR69-3182	2436.9-2440.0	40272	.0	2.2	96.6	1.2	No oil	5.2	None	
SBR69-3183	2440.0-2442.0	40273	.0	3.1	95.6	1.3	No oil	7.4	None	
SBR69-3184	2442.0-2445.0	40274	.0	1.3	97.8	.9	No oil	3.2	None	
SBR69-3185	2445.0-2448.0	40275	.2	1.3	98.0	.5	.6a	3.1	None	
SBR69-3186	2448.0-2451.0	40276	.5	1.0	97.8	.7	1.4a	2.3	None	
SBR69-3187	2451.0-2452.3	40277	1.8	1.6	95.8	.8	4.7a	3.8	None	
SBR69-3188	2452.3-2453.6	40278	6.4	1.9	89.5	2.2	16.9	4.4	0.913	None
SBR69-3189	2453.6-2455.0	40279	7.0	1.7	89.1	2.2	18.5	4.1	.907	None
SBR69-3190	2455.0-2456.0	40280	10.8	1.9	84.9	2.4	28.1	4.6	.925	None
SBR69-3191	2456.0-2457.0	40281	11.7	2.1	83.1	3.1	30.2	4.9	.930	None
SBR69-3192	2457.0-2458.0	40282	10.0	1.8	85.3	2.9	25.7	4.3	.928	None
SBR69-3193	2458.0-2459.0	40283	10.5	1.7	85.3	2.5	27.3	4.1	.923	None
SBR69-3194	2459.0-2460.0	40284	9.8	1.3	85.1	3.8	25.4	3.1	.920	None
SBR69-3195	2460.0-2461.0	40285	10.5	1.2	85.8	2.5	27.7	2.8	.908	None
SBR69-3196	2461.0-2462.0	40286	7.1	1.3	88.9	2.7	18.7	3.1	.908	None
SBR69-3197	2462.0-2463.0	40287	4.1	1.0	92.6	2.3	10.9	2.4	.907	None
SBR69-3198	2463.0-2464.0	40288	4.6	.9	92.8	1.7	12.0	2.2	.907	None
SBR69-3199	2464.0-2465.0	40289	5.0	1.6	90.3	3.1	13.3	3.7	.910	None
SBR69-3200	2465.0-2466.5	40290	5.3	1.4	90.5	2.8	14.0	3.4	.911	None
SBR69-3201	2466.5-2467.6	40292	1.8	1.0	94.5	2.7	4.8a	2.3	None	

See footnote at end of table.

Core and drill cutting samples received November 12, 1968; Assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Bureau of Mines Washakie Basin Corehole No. 1 (con.)

Surface elevation 7,703 feet

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			Tendency to coke
Laramie	Their		Oil	Water				Oil ^{1/}	Water		
SBR69-3202	2467.6-2469.0	40293	4.2	1.3	91.2	3.3	10.9	3.1	0.915	None	
SBR69-3203	2469.0-2470.5	40294	3.7	1.2	92.1	3.0	9.6	3.0	.914	None	
SBR69-3204	2470.5-2472.0	40295	2.6	.9	93.7	2.8	6.7	2.3	.913	None	
SBR69-3205	2472.0-2473.3	40296	4.1	1.2	91.3	3.4	10.7	3.0	.911	None	
SBR69-3206	2473.8-2475.2	40297	3.7	1.4	92.4	2.5	9.9	3.4	.908	None	Footage adjustment
SBR69-3207	2475.2-2476.3	40298	1.8	1.4	95.0	1.8	4.7a	3.4		None	
SBR69-3208	2476.3-2477.7	40299	4.2	1.4	92.3	2.1	11.2	3.4	.902	None	
SBR69-3209	2477.7-2479.0	40300	5.3	.9	91.1	2.7	13.9	2.0	.914	None	
SBR69-3210	2479.0-2480.0	40301	6.0	1.8	90.1	2.1	15.7	4.3	.907	None	
SBR69-3211	2480.0-2481.0	40302	4.2	2.4	91.6	1.8	11.4	5.8	.886	None	
SBR69-3212	2481.0-2482.0	40303	6.0	2.4	88.7	2.9	16.2	5.8	.893	None	
SBR69-3213	2482.0-2483.1	40304	4.4	2.7	90.3	2.6	11.6	6.5	.899	None	
SBR69-3214	2483.1-2483.8	40305	5.4	2.4	88.9	3.3	14.0	5.8	.923	None	
SBR69-3215	2483.8-2485.0	40306	4.1	2.6	90.7	2.6	10.6	6.2	.918	None	
SBR69-3216	2485.0-2486.0	40307	5.8	1.6	89.2	3.4	15.2	3.8	.917	None	
SBR69-3217	2486.0-2487.0	40308	8.0	2.7	86.4	2.9	20.9	6.5	.912	None	
SBR69-3218	2487.0-2488.0	40309	7.3	2.7	87.0	3.0	19.3	6.5	.909	None	
SBR69-3219	2488.0-2489.0	40310	6.0	2.2	88.7	3.1	15.9	5.3	.912	None	
SBR69-3220	2489.0-2490.0	40311	5.2	2.3	89.6	2.9	13.7	5.5	.916	None	
SBR69-3221	2490.0-2491.0	40312	5.0	2.5	89.8	2.7	13.2	6.0	.916	None	
SBR69-3222	2491.0-2492.0	40313	5.8	2.4	89.1	2.7	15.1	5.8	.916	None	
SBR69-3223	2492.0-2493.0	40314	4.2	2.4	90.8	2.6	11.0	5.8	.918	None	
SBR69-3224	2493.0-2494.0	40315	4.2	2.1	91.0	2.7	11.1	5.0	.916	None	
SBR69-3225	2494.0-2494.7	40316	5.2	1.3	91.5	2.0	13.6	3.1	.910	None	
SBR69-3226	2494.7-2495.8	40317	5.2	.9	91.0	2.9	13.4	2.3	.919	None	
SBR69-3227	2495.8-2497.0	40318	4.6	1.2	91.0	3.2	12.1	2.9	.920	None	
SBR69-3228	2497.0-2498.1	40319	5.1	2.1	90.3	2.5	13.3	5.0	.915	None	
SBR69-3229	2498.1-2500.0	40320	5.0	2.0	89.4	3.6	13.0	4.8	.915	None	
SBR69-3230	2500.0-2501.2	40321	4.7	2.0	90.0	3.3	12.3	4.8	.914	None	
SBR69-3231	2501.2-2502.9	40322	3.6	2.3	91.0	3.1	9.4	5.5	.914	None	

See footnote at end of table.

Core and drill cutting samples received November 12, 1968; Assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Bureau of Mines Washakie Basin Corehole No. 1 (con.)

Surface elevation 7,703 feet

Sample number		Run No.	Yield of product				Specific gravity of oil at 60°/60° F	Properties of spent shale		Remarks
			Weight percent		Gas + loss	Gal per ton		Tendency to coke		
Laramie	Their		Oil	Water		Spent shale			Oil ^{1/}	Water
SBR69-3232	2502.9-2503.9	40323	1.6	0.9	95.3	2.2	4.2a	2.0		None
SBR69-3233	2503.9-2505.0	40324	2.3	2.1	92.8	2.8	6.0	5.0	0.911	None
SBR69-3234	2505.0-2506.6	40325	2.4	1.7	93.9	2.0	6.4	4.1	.915	None
SBR69-3235	2506.6-2507.7	40326	3.7	1.9	91.8	2.6	9.8	4.6	.909	None
SBR69-3236	2507.7-2509.6	40327	1.6	1.8	93.5	3.1	4.2a	4.3		None
SBR69-3237	2509.6-2511.3	40328	4.3	2.6	90.1	3.0	11.2	6.2	.908	None
SBR69-3238	2511.3-2513.0	40329	3.3	2.7	91.3	2.7	8.7	6.5	.911	None
SBR69-3239	2513.0-2514.0	40330	5.4	3.0	89.0	2.6	14.4	7.2	.909	None
SBR69-3240	2514.0-2515.0	40331	5.4	3.0	88.8	2.8	14.2	7.2	.911	None
SBR69-3241	2515.0-2516.3	40322	6.3	2.0	87.0	4.7	16.6	4.8	.908	None
SBR69-3242	2516.3-2517.9	40333	8.4	2.6	86.4	2.6	22.6	6.2	.886	None
SBR69-3243	2517.9-2519.0	40334	4.3	3.4	89.7	2.6	11.4	8.1	.909	None
SBR69-3244	2519.0-2520.5	40335	4.0	3.0	90.2	2.8	10.6	7.2	.914	None
SBR69-3245	2520.5-2521.5	40336	4.3	2.4	90.3	3.0	11.2	5.8	.918	None
SBR69-3246	2521.5-2522.5	40337	2.8	2.2	91.7	3.3	7.3	5.3	.916	None
SBR69-3247	2522.5-2523.5	40338	2.9	3.6	90.8	2.7	7.5	8.6	.920	None
SBR69-3248	2523.5-2524.6	40339	7.0	3.4	87.1	2.5	18.4	8.1	.914	None
SBR69-3249	2524.6-2525.1	40340	6.9	2.6	88.0	2.5	18.1	6.2	.915	None
SBR69-3250	2525.1-2526.5	40341	10.8	2.0	83.1	4.1	28.4	4.8	.912	None
SBR69-3251	2526.5-2527.1	40342	3.5	.8	93.6	2.1	9.4	1.8	.893	None
SBR69-3252	2527.1-2528.5	40343	2.8	1.2	92.2	3.8	7.3	2.9	.915	None
SBR69-3253	2528.5-2530.0	40344	3.6	1.7	91.4	3.3	9.4	4.1	.915	None
SBR69-3254	2530.0-2532.0	40345	2.7	2.2	92.5	2.6	7.2	5.3	.912	None
SBR69-3255	2532.0-2533.5	40346	2.7	1.8	90.1	5.4	7.0	4.3	.921	None
SBR69-3256	2533.5-2534.7	40347	5.3	2.9	88.5	3.3	13.9	7.0	.916	None
SBR69-3257	2535.1-2536.8	40348	7.0	2.7	87.6	2.7	18.4	6.5	.915	None
SBR69-3258	2536.8-2538.0	40349	6.7	3.0	87.7	2.6	17.7	7.2	.910	None
SBR69-3259	2538.0-2539.0	40350	6.2	3.4	87.7	2.7	16.5	8.1	.894	None
SBR69-3260	2539.0-2540.0	40351	4.8	3.8	88.9	2.5	13.0	9.1	.885	None
SBR69-3261	2540.0-2540.9	40352	1.6	3.3	93.1	2.0	4.0a	7.9		None

See footnote at end of table.

Core and drill cutting samples received November 12, 1968; Assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from U. S. Bureau of Mines Washakie Basin Corehole No. 1 (con.)

Surface elevation 7,703 feet

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/	Water	coke	
SBR69-3262	2540.9-2542.0	40353	0.6	2.3	94.8	2.3	1.5a	5.5	None	
SBR69-3263	2542.0-2544.0	40354	.2	2.1	94.7	3.0	.5a	5.0	None	
SBR69-3264	2544.0-2546.0	40355	.5	2.2	95.2	2.1	1.4a	5.3	None	
SBR69-3265	2546.0-2547.2	40356	1.3	2.9	92.5	3.3	3.4a	7.0	None	
SBR69-3266	2547.2-2548.2	40357	.8	3.2	93.3	2.7	2.1a	7.7	None	
SBR69-3267	2548.2-2549.2	40358	1.8	3.4	91.7	3.1	4.7a	8.1	None	
SBR69-3268	2549.2-2550.3	40359	4.1	2.2	89.5	4.2	10.6	5.3	0.926	None
SBR69-3269	2550.3-2552.2	40360	8.5	2.7	85.6	3.2	22.0	6.5	.929	None
SBR69-3270	2552.2-2553.3	40361	4.2	2.5	90.9	2.4	10.8	6.0	.920	None
SBR69-3271	2553.3-2554.3	40362	4.5	3.5	88.5	3.5	11.8	8.4	.915	None
SBR69-3272	2554.3-2554.9	40363	4.6	3.6	88.3	3.5	12.2	8.6	.905	None
SBR69-3273	2554.9-2556.4	40364	4.0	3.0	90.8	2.2	10.5	7.2	.900	None
SBR69-3274	2556.4-2557.4	40365	2.5	3.2	92.1	2.2	6.7	7.7	.894	None
SBR69-3275	2557.4-2558.5	40366	4.4	2.0	91.6	2.0	11.7	4.8	.897	None
SBR69-3276	2558.5-2559.5	40367	4.0	2.3	91.5	2.2	10.7	5.5	.896	None
SBR69-3277	2559.5-2560.9	40368	4.3	2.6	91.1	2.0	11.6	6.2	.896	None
SBR69-3278	2560.9-2561.5	40369	4.7	2.6	90.8	1.9	12.5	6.2	.896	None
SBR69-3279	2561.5-2562.2	40370	2.8	1.5	94.4	1.3	7.5	3.6	.903	None
SBR69-3280	2562.2-2562.9	40371	4.5	1.3	92.4	1.8	11.8	3.1	.902	None
SBR69-3281	2562.9-2563.5	40372	4.8	1.9	89.3	4.0	12.6	4.6	.909	None
SBR69-3282	2563.5-2564.5	40373	4.6	2.8	90.6	2.0	12.4	6.7	.902	None
SBR69-3283	2564.5-2565.5	40374	5.3	2.9	89.6	2.2	14.3	7.0	.896	None
SBR69-3284	2565.5-2566.8	40375	6.2	2.4	88.9	2.5	16.6	5.8	.890	None
SBR69-3285	2566.8-2567.8	40376	5.1	2.1	90.2	2.6	13.6	4.9	.899	None
SBR69-3286	2567.8-2568.8	40377	2.5	2.3	92.5	2.7	6.7	5.4	.899	None
SBR69-3287	2568.8-2570.0	40378	2.3	2.8	92.6	2.3	6.1	6.8	.892	None
SBR69-3288	2570.0-2571.2	40379	2.1	2.6	92.3	3.0	5.7	6.2	.895	None
SBR69-3289	2571.2-2571.8	40380	2.0	2.4	93.6	2.0	5.4	5.8	.892	None
SBR69-3290	2571.8-2572.8	40381	2.5	1.8	94.3	1.4	6.7	4.3	.879	None
SBR69-3291	2572.8-2573.4	40382	3.0	3.0	91.3	2.7	8.0	7.2	.897	None

See footnote at end of table.

Core and drill cutting samples received November 12, 1968; Assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Bureau of Mines Washakie Basin Corehole No. 1 (con.)

Surface elevation 7,703 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		Gal per ton					
Laramie	Their	Oil	Water	Spent shale	Gas + loss	Oil ^{1/}	Water				
SBR69-3292	2574.9-2575.9	40383	7.4	2.3	87.6	2.7	19.8	5.5	0.891	None	
SBR69-3293	2575.9-2576.9	40384	5.5	3.0	89.1	2.4	14.9	7.2	.889	None	
SBR69-3294	2576.9-2577.9	40385	2.6	2.8	91.9	2.7	7.2	6.7	.879	None	
SBR69-3295	2577.9-2578.9	40386	1.5	3.3	93.1	2.1	4.0a	7.9		None	
SBR69-3296	2578.9-2580.0	40387	.1	1.6	97.1	1.2	.3a	3.8		None	
SBR69-3297	2580.0-2581.1	40388	.3	1.4	97.1	1.2	.7a	3.4		None	
SBR69-3298	2581.1-2582.3	40389	.2	2.7	95.8	1.3	.6a	6.5		None	
SBR69-3299	2582.3-2583.8	40390	.3	2.2	95.5	2.0	.9a	5.3		None	
SBR69-3300	2583.8-2585.0	40391	.9	3.1	94.3	1.7	2.4a	7.4		None	
SBR69-3301	2585.0-2586.1	40392	1.4	2.9	94.3	1.4	3.6a	7.0		None	
SBR69-3302	2586.1-2587.3	40393	.4	3.0	95.1	1.5	1.1a	7.2		None	
SBR69-3303	2587.3-2588.8	40394	1.0	2.5	95.2	1.3	2.7a	6.0		None	
SBR69-3304	2588.8-2590.3	40395	5.1	2.0	91.1	1.8	13.7	4.8	.899	None	
SBR69-3305	2590.3-3592.0	40396	2.8	1.4	94.7	1.1	7.5	3.4	.904	None	
SBR69-3306	2592.0-2593.0	40397	3.1	2.4	93.3	1.2	8.2	5.8	.903	None	
SBR69-3307	2593.0-2594.0	40398	2.4	1.6	94.9	1.1	6.5	3.8	.899	None	
SBR69-3308	2594.0-2595.0	40399	2.5	1.6	94.4	1.5	6.7	3.8	.898	None	
SBR69-3309	2595.0-2596.0	40400	3.7	1.7	92.9	1.7	9.9	4.1	.897	None	
SBR69-3310	2596.0-2597.7	40401	4.2	1.8	91.9	2.1	11.3	4.3	.895	None	
SBR69-3311	2597.7-2598.8	40402	3.1	1.9	93.5	1.5	8.1	4.6	.899	None	
SBR69-3312	2598.8-2599.8	40403	3.1	1.2	94.3	1.4	8.2	2.9	.897	None	
SBR69-3313	2599.8-2600.8	40404	3.9	2.3	91.1	2.7	10.1	5.5	.916	None	
SBR69-3314	2600.8-2602.0	40405	3.3	1.8	93.3	1.6	8.7	4.3	.898	None	
SBR69-3315	2602.0-2603.0	40406	2.2	1.7	95.1	1.0	5.8	4.1	.901	None	
SBR69-3316	2603.0-2604.0	40407	2.6	1.6	94.7	1.1	7.0	3.8	.896	None	
SBR69-3317	2604.0-2605.0	40408	3.1	1.7	93.4	1.8	8.2	4.1	.895	None	
SBR69-3318	2605.0-2606.0	40409	3.1	2.2	92.5	2.2	8.3	5.3	.894	None	
SBR69-3319	2606.0-2607.0	40410	2.6	2.5	93.4	1.5	6.9	6.0	.890	None	
SBR69-3320	2607.0-2608.0	40411	2.5	2.2	93.9	1.4	6.8	5.3	.894	None	
SBR69-3321	2608.0-2609.0	40412	2.8	1.7	94.0	1.5	7.6	4.1	.889	None	

See footnote at end of table.

Core and drill cutting samples received November 12, 1968; Assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Bureau of Mines Washakie Basin Corehole No. 1 (con.)

Surface elevation 7,703 feet

Sample number		Run No.	Yield of product				Specific gravity of oil at 60°/60° F	Properties of spent shale		Remarks	
			Weight percent		Gas + loss	Gal per ton		Tendency to coke			
Laramie	Their		Oil	Water		Spent shale			Oil ¹ /	Water	
SBR69-3322	2609.0-2610.0	40413	3.0	1.8	93.2	2.0	8.0	4.3	0.891	None	
SBR69-3323	2610.0-2611.0	40414	6.1	2.3	89.2	2.4	16.2	5.5	.896	None	
SBR69-3324	2611.0-2612.0	40415	3.4	1.7	92.2	2.7	9.2	4.1	.887	None	
SBR69-3325	2612.0-2613.0	40416	3.3	2.6	92.4	1.7	8.9	6.2	.889	None	
SBR69-3326	2613.0-2614.0	40417	5.4	3.0	89.8	1.8	14.0	7.2	.913	None	
SBR69-3327	2614.0-2615.0	40418	5.2	2.2	89.9	2.7	13.5	5.3	.925	None	
SBR69-3328	2615.0-2616.0	40419	5.4	2.9	89.8	1.9	14.2	7.0	.911	None	
SBR69-3329	2616.0-2617.0	40420	4.2	2.0	92.1	1.7	11.2	4.8	.905	None	
SBR69-3330	2617.0-2618.0	40421	4.3	2.0	92.1	1.6	11.3	4.9	.909	None	
SBR69-3331	2618.0-2619.1	40422	4.4	3.6	90.1	1.9	11.8	8.6	.897	None	
SBR69-3332	2619.1-2619.7	40423	.8	.2	98.6	.4	2.2a	.5		None	
SBR69-3333	2619.7-2620.7	40424	2.6	2.3	93.2	1.9	7.0	5.5	.883	None	
SBR69-3334	2620.7-2622.0	40425	4.6	2.9	88.7	3.8	12.1	7.1	.905	None	
SBR69-3335	2622.0-2623.0	40426	4.9	2.4	89.1	3.6	12.8	5.8	.914	None	
SBR69-3336	2623.0-2624.0	40427	5.6	2.3	89.2	2.9	14.7	5.5	.914	None	
SBR69-3337	2624.0-2625.0	40428	4.0	1.7	90.1	4.2	10.5	4.0	.918	None	
SBR69-3338	2625.0-2626.0	40429	3.8	2.0	91.4	2.8	10.0	4.8	.914	None	
SBR69-3339	2626.0-2627.4	40430	1.8	1.8	94.0	2.4	4.7a	4.2		None	
SBR69-3340	2627.4-2629.0	40431	2.5	1.2	94.1	2.2	6.6	2.9	.920	None	
SBR69-3341	2629.0-2630.0	40432	3.0	2.0	91.8	3.2	7.7	4.9	.914	None	
SBR69-3342	2630.0-2631.5	40433	2.3	1.5	93.4	2.8	6.0	3.6	.917	None	
SBR69-3343	2631.5-2632.9	40434	2.9	1.8	92.8	2.5	7.7	4.3	.909	None	
SBR69-3344	2632.9-2633.9	40435	2.2	1.8	93.8	2.2	5.6	4.3	.915	None	
SBR69-3345	2633.9-2634.8	40439	4.1	2.8	90.2	2.9	10.7	6.7	.913	None	
SBR69-3346	2634.8-2635.2	40440	.9	.3	97.8	1.0	2.4a	.7		None	
SBR69-3347	2635.2-2636.0	40441	5.5	2.3	89.9	2.3	14.5	5.5	.914	None	
SBR69-3348	2636.0-2637.0	40442	4.9	2.8	89.5	2.8	12.7	6.7	.918	None	
SBR69-3349	2637.0-2638.0	40443	4.0	3.0	90.0	3.0	10.4	7.2	.916	None	
SBR69-3350	2638.0-2639.5	40444	3.3	1.4	91.5	3.8	8.6	3.4	.924	None	
SBR69-3351	2639.5-2641.0	40445	4.3	1.6	91.8	2.3	11.1	3.8	.923	None	

See footnote at end of table.

Core and drill cutting samples received November 12, 1968; Assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Bureau of Mines Washakie Basin Corehole No. 1 (con.)

Surface elevation 7,703 feet

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	
SBR69-3352	2641.0-2642.0	40446	4.9	1.5	91.2	2.4	12.7	3.6	None	
SBR69-3353	2642.0-2643.0	40447	5.6	1.5	90.7	2.2	14.7	3.6	None	
SBR69-3354	2643.0-2644.0	40448	5.0	1.5	90.7	2.8	13.2	3.6	None	
SBR69-3355	2644.0-2645.0	40449	6.0	.8	89.3	3.9	15.6	1.9	None	
SBR69-3356	2645.0-2646.2	40450	8.2	1.5	86.9	3.4	21.5	3.6	None	
SBR69-3357	2646.2-2647.2	40451	6.1	.7	90.1	3.1	15.9	1.8	None	
SBR69-3358	2647.2-2648.2	40452	7.0	2.5	87.8	2.7	18.1	6.0	None	
SBR69-3359	2648.2-2649.7	40453	6.9	2.8	88.0	2.3	17.8	6.7	None	
SBR69-3360	2649.7-2650.7	40454	4.9	1.8	90.6	2.7	12.7	4.3	None	
SBR69-3361	2650.7-2652.0	40455	4.3	1.3	91.9	2.5	11.1	3.1	None	
SBR69-3362	2652.0-2653.0	40456	5.6	2.4	89.1	2.9	14.6	5.8	None	
SBR69-3363	2653.0-2654.0	40457	5.1	1.3	90.7	2.9	13.3	3.1	None	
SBR69-3364	2654.0-2655.0	40458	4.8	1.4	91.7	2.1	12.5	3.4	None	
SBR69-3365	2655.0-2656.0	40459	3.6	1.4	93.6	1.4	9.4	3.4	None	
SBR69-3366	2656.0-2657.0	40460	3.2	1.2	94.1	1.5	8.5	2.9	None	
SBR69-3367	2657.0-2658.0	40461	5.4	1.4	90.0	3.2	14.3	3.4	None	
SBR69-3368	2658.0-2659.0	40462	5.4	1.2	90.2	3.2	14.4	2.9	None	
SBR69-3369	2659.0-2660.0	40463	6.9	1.3	89.7	2.1	18.5	3.1	None	
SBR69-3370	2660.0-2661.0	40464	6.3	1.7	89.0	3.0	16.7	4.1	None	
SBR69-3371	2661.0-2662.8	40465	8.7	2.7	86.1	2.5	23.1	6.5	None	
SBR69-3372	2662.8-2663.8	40466	6.8	2.6	87.9	2.7	18.1	6.2	None	
SBR69-3373	2663.8-2665.0	40467	7.3	2.2	88.1	2.4	19.5	5.3	None	
SBR69-3374	2665.0-2666.1	40468	7.2	2.2	88.1	2.5	19.4	5.3	None	
SBR69-3375	2666.1-2667.1	40469	7.0	1.9	88.8	2.3	18.5	4.6	None	
SBR69-3376	2667.3-2668.0	40472	4.0	1.5	93.2	1.3	10.7	3.6	None	
SBR69-3377	2668.0-2669.0	40473	7.4	2.3	87.0	3.3	19.9	5.5	None	
SBR69-3378	2669.0-2670.3	40474	6.0	3.3	88.5	2.2	16.0	7.9	None	
SBR69-3379	2670.3-2671.3	40475	4.6	2.3	90.5	2.6	12.5	5.5	None	
SBR69-3380	2671.3-2672.3	40476	3.0	1.9	92.3	2.8	8.1	4.6	None	
SBR69-3381	2672.3-2674.0	40477	3.5	2.2	92.0	2.3	9.2	5.3	None	

See footnote at end of table.

Core and drill cutting samples received November 12, 1968; Assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Bureau of Mines Washakie Basin Corehole No. 1 (con.)

Surface elevation 7,703 feet

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
SBR69-3382	2674.0-2675.0	40478	3.0	2.4	92.9	1.7	7.9	5.8	0.900	None
SBR69-3383	2675.0-2676.0	40479	2.0	2.3	92.5	3.2	5.5	5.5	.895	None
SBR69-3384	2676.0-2677.0	40480	2.4	1.8	92.9	2.9	6.5	4.3	.898	None
SBR69-3385	2677.0-2678.0	40481	3.1	1.5	93.0	2.4	8.3	3.6	.903	None
SBR69-3386	2678.0-2679.0	40482	7.3	2.4	87.9	2.4	19.6	5.8	.895	None
SBR69-3387	2679.0-2680.0	40483	6.6	2.6	88.2	2.6	17.6	6.2	.890	None
SBR69-3388	2680.0-2681.7	40484	8.0	2.3	85.4	4.3	21.5	5.5	.890	None
SBR69-3389	2681.7-2682.7	40485	7.7	2.2	86.5	3.6	20.9	5.3	.885	None
SBR69-3390	2682.7-2683.8	40486	5.7	2.4	89.3	2.6	15.2	5.8	.903	None
SBR69-3391	2683.8-2684.9	40487	5.0	1.6	90.2	3.2	13.2	3.8	.902	None
SBR69-3392	2687.6-2689.0	40488	4.3	1.9	91.5	2.3	11.6	4.6	.886	None
SBR69-3393	2689.0-2690.0	40489	6.2	2.0	89.0	2.8	16.7	4.8	.885	None
SBR69-3394	2690.0-2691.0	40490	4.2	1.2	91.8	2.8	11.6	2.9	.879	None
SBR69-3395	2691.0-2692.1	40491	6.4	2.4	87.7	3.5	17.1	5.8	.889	None
SBR69-3396	2692.1-2693.3	40492	4.7	1.6	91.2	2.5	12.8	3.8	.886	None
SBR69-3397	2693.3-2694.3	40493	4.4	3.0	89.8	2.8	11.7	7.2	.897	None
SBR69-3398	2694.3-2695.3	40494	4.2	3.0	90.2	2.6	11.1	7.2	.897	None
SBR69-3399	2695.3-2696.3	40495	4.2	3.3	89.6	2.9	11.2	7.9	.899	None
SBR69-3400	2696.3-2697.3	40496	4.8	3.2	89.5	2.5	12.8	7.7	.900	None
SBR69-3401	2697.3-2697.6	40497	3.4	1.1	93.9	1.6	9.3	2.6	.879	None
SBR69-3402	2697.6-2698.6	40498	4.5	2.5	90.6	2.4	12.2	6.0	.893	None
SBR69-3403	2698.6-2700.0	40499	5.4	3.2	89.2	2.2	14.3	7.7	.900	None
SBR69-3404	2700.0-2701.0	40500	5.9	2.5	89.0	2.6	15.8	6.0	.898	None
SBR69-3405	2701.0-2702.0	40501	3.1	2.7	92.3	1.9	8.2	6.5	.901	None
SBR69-3406	2702.0-2703.0	40502	2.9	2.7	92.7	1.7	7.7	6.5	.893	None
SBR69-3407	2703.0-2704.0	40503	2.1	2.5	93.5	1.9	5.6	6.0	.896	None
SBR69-3408	2704.0-2705.7	40504	2.2	3.0	93.3	1.5	5.9	7.2	.892	None
SBR69-3409	2705.7-2706.7	40505	3.8	2.7	91.9	1.6	10.3	6.5	.884	None
SBR69-3410	2706.7-2707.5	40506	4.5	.6	94.5	.4	11.7a	1.3		None
SBR69-3411	2707.5-2709.1	40507	6.4	3.0	87.9	2.7	17.2	7.2	.894	None

See footnote at end of table.

Core and drill cutting samples received November 12, 1968; Assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Bureau of Mines Washakie Basin Corehole No. 1 (con.)

Surface elevation 7,703 feet

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			Tendency to coke
Laramie	Their	Oil	Water	Oil ^{1/}			Water				
SBR69-3412	2709.1-2710.1	40508	2.8	0.2	96.2	0.8	7.2	0.6	0.921	None	
SBR69-3413	2710.1-2711.7	40509	5.5	2.6	89.1	2.8	14.6	6.2	.901	None	
SBR69-3414	2711.7-2712.2	40510	3.3	2.1	92.0	2.6	8.7	5.0	.903	None	
SBR69-3415	2712.2-2713.0	40511	2.1	1.9	93.6	2.4	5.5	4.6	.900	None	
SBR69-3516	2713.0-2714.0	40512	1.8	2.1	94.0	2.1	4.8a	5.0		None	
SBR69-3417	2714.0-2715.0	40513	1.3	2.4	94.4	1.9	3.4a	5.8		None	
SBR69-3418	2715.0-2716.0	40514	1.3	2.6	94.1	2.0	3.5a	6.2		None	
SBR69-3419	2716.0-2717.0	40515	1.6	2.6	93.7	2.1	4.3a	6.2		None	
SBR69-3420	2717.0-2718.0	40516	3.8	2.0	90.4	3.8	10.2	4.8	.904	None	
SBR69-3421	2718.0-2719.0	40517	4.6	3.3	89.3	2.8	12.3	7.9	.894	None	
SBR69-3422	2719.0-2720.0	40518	2.6	3.4	91.7	2.3	6.9	8.1	.889	None	
SBR69-3423	2720.0-2721.0	40519	2.8	2.8	91.4	3.0	7.6	6.7	.899	None	
SBR69-3424	2721.0-2722.0	40520	2.8	2.3	93.2	1.7	7.4	5.5	.900	None	
SBR69-3425	2722.0-2723.0	40521	1.6	2.2	93.5	2.7	4.1a	5.3		None	
SBR69-3426	2723.0-2724.0	40522	2.0	2.5	93.3	2.2	5.3	6.0	.904	None	
SBR69-3427	2724.0-2725.0	40523	2.2	.8	94.6	2.4	5.8	1.8	.913	None	
SBR69-3428	2725.0-2726.3	40524	2.0	1.7	94.5	1.8	5.3	4.1	.910	None	
SBR69-3429	2726.6-2728.0	40525	1.4	2.0	95.4	1.2	3.6a	4.8		None	
SBR69-343C	2728.0-2729.0	40526	.7	1.8	95.6	1.9	1.8a	4.4		None	
SBR69-3431	2729.0-2731.0	40527	.6	2.3	95.0	2.1	1.6a	5.5		None	
SBR69-3432	2731.0-2732.0	40528	2.4	3.0	92.9	1.7	6.4	7.2	.877	None	
SBR69-3433	2732.0-2733.0	40529	4.8	2.3	90.5	2.4	12.8	5.5	.893	None	
SBR69-3434	2733.0-2734.0	40530	3.3	3.0	91.8	1.9	8.8	7.2	.883	None	
SBR69-3435	2734.0-2735.0	40531	2.1	3.4	92.9	1.6	5.6	8.1	.910	None	
SBR69-3436	2735.0-2736.0	40532	2.4	2.8	93.1	1.7	6.4	6.7	.910	None	
SBR69-3437	2736.0-2737.0	40533	1.3	3.1	93.9	1.7	3.4a	7.4		None	
SBR69-3438	2737.0-2738.0	40534	2.0	2.4	92.6	3.0	5.1a	5.8		None	
SBR69-3439	2738.0-2739.0	40535	2.0	3.0	93.2	1.8	5.1a	7.2		None	
SBR69-3440	2739.0-2740.0	40536	1.8	2.6	93.5	2.1	4.6a	6.2		None	
SBR69-3441	2740.0-2741.0	40537	1.4	2.6	94.8	1.2	3.8a	6.2		None	

See footnote at end of table.

Core and drill cutting samples received November 12, 1968; Assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Bureau of Mines Washakie Basin Corehole No. 1 (con.)

Surface elevation 7,703 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			Gal per ton					
Laramie	Their		Oil	Water	Spent shale	Gas + loss	Oil ^{1/}	Water			
SBR69-3442	2741.0-2742.0	40538	1.4	2.4	94.7	1.5	3.5a	5.8		None	
SBR69-3443	2742.0-2743.0	40539	1.4	2.1	94.5	2.0	3.8a	5.0		None	
SBR69-3444	2743.0-2744.6	40540	1.6	2.3	94.0	2.1	4.2a	5.5		None	
SBR69-3445	2745.0-2745.5	40541	5.1	4.2	87.1	3.6	12.9	10.1	0.937	None	
SBR69-3446	2745.5-2747.0	40542	1.1	2.6	93.1	3.2	2.9a	6.2		None	
SBR69-3447	2747.0-2748.0	40543	1.7	2.2	92.5	3.6	4.3a	5.3		None	
SBR69-3448	2748.0-2749.0	40544	1.2	1.8	93.7	3.3	3.2a	4.3		None	
SBR69-3449	2749.0-2750.0	40545	2.2	2.2	91.8	3.8	5.6a	5.3		None	
SBR69-3450	2750.0-2751.0	40546	1.4	2.8	92.9	2.9	3.6a	6.7		None	
SBR69-3451	2751.0-2752.0	40547	1.7	2.3	92.7	3.3	4.3a	5.5		None	
SBR69-3452	2752.0-2753.0	40548	1.2	2.3	93.0	3.5	3.1a	5.5		None	
SBR69-3453	2753.0-2754.0	40549	1.2	2.5	93.7	2.6	3.2a	6.0		None	
SBR69-3454	2754.0-2755.0	40550	1.5	2.4	93.3	2.8	3.8a	5.8		None	
SBR69-3455	2755.0-2756.0	40551	.8	2.4	94.0	2.8	2.1a	5.8		None	
SBR69-3456	2756.0-2757.0	40552	1.4	1.6	93.5	3.5	3.6a	3.8		None	
SBR69-3457	2757.0-2758.0	40553	1.7	1.7	94.1	2.5	4.4a	4.1		None	
SBR69-3458	2758.0-2759.0	40554	1.6	2.0	93.7	2.7	4.0a	4.9		None	
SBR69-3459	2759.0-2760.0	40555	1.9	2.6	91.8	3.7	5.1a	6.2		None	
SBR69-3460	2760.0-2761.0	40556	2.1	2.1	93.7	2.1	5.3	5.0	.928	None	
SBR69-3461	2761.0-2762.0	40557	1.4	2.1	93.3	3.2	3.5a	5.0		None	
SBR69-3462	2762.0-2763.0	40558	1.6	2.6	93.0	2.8	4.2a	6.2		None	
SBR69-3463	2763.0-2764.0	40559	1.6	2.1	92.6	3.7	4.2a	5.0		None	
SBR69-3464	2764.0-2765.1	40560	1.3	2.0	94.2	2.5	3.5a	4.8		None	
SBR69-3465	2765.1-2766.1	40561	.3	1.2	97.3	1.2	.9a	2.9		None	
SBR69-3466	2766.1-2767.2	40562	.2	1.1	94.9	3.8	.6a	2.6		None	
SBR69-3467	2767.2-2768.4	40563	.8	2.2	94.0	3.0	2.2a	5.3		None	
SBR69-3468	2768.4-2769.4	40564	.9	3.0	94.3	1.8	2.3a	7.2		None	
SBR69-3469	2769.4-2770.4	40565	1.2	2.6	93.5	2.7	3.2a	6.2		None	
SBR69-3470	2770.4-2771.4	40566	1.7	3.0	92.8	2.5	4.4a	7.2		None	
SBR69-3471	2771.4-2772.4	40567	1.6	1.9	94.1	2.4	4.3a	4.6		None	

See footnote at end of table.

Core and drill cutting samples received November 12, 1968; Assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Bureau of Mines Washakie Basin Corehole No. 1 (con.)

Surface elevation 7,703 feet

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
SBR69-3472	2772.4-2773.4	40568	1.4	2.8	93.6	2.2	3.7a	6.7	None	
SBR69-3473	2773.4-2774.4	40569	1.2	2.1	94.5	2.2	3.1a	5.0	None	
SBR69-3474	2774.4-2775.4	40570	1.1	2.0	93.1	3.8	2.8a	4.8	None	
SBR69-3475	2775.4-2776.4	40571	1.7	2.3	93.7	2.3	4.5a	5.5	None	
SBR69-3476	2776.4-2777.4	40572	1.6	2.1	92.9	3.4	4.1a	5.0	None	
SBR69-3477	2777.4-2778.4	40573	1.4	2.5	93.5	2.6	3.8a	5.9	None	
SBR69-3478	2778.4-2779.6	40574	1.5	2.8	92.1	3.6	4.0a	6.7	None	
SBR69-3479	2779.6-2780.7	40575	1.3	2.5	94.0	2.2	3.3a	6.0	None	
SBR69-3480	2780.7-2781.7	40576	1.5	2.5	92.8	3.2	3.8a	6.0	None	
SBR69-3481	2785.3-2786.5	40577	2.1	2.9	91.6	3.4	5.4a	7.0	None	
SBR69-3482	2786.5-2787.5	40578	1.6	2.9	92.0	3.5	4.1a	7.0	None	
SBR69-3483	2787.5-2789.0	40579	1.7	3.0	93.6	1.7	4.3a	7.2	None	
SBR69-3484	2789.0-2790.0	40580	1.1	2.7	93.8	2.4	2.9a	6.5	None	
SBR69-3485	2790.0-2791.0	40581	1.5	2.3	94.1	2.1	3.9a	5.5	None	
SBR69-3486	2791.0-2792.0	40582	1.5	2.8	93.3	2.4	3.9a	6.7	None	
SBR69-3487	2792.0-2793.0	40583	1.2	2.1	93.9	2.8	3.1a	5.0	None	
SBR69-3488	2793.0-2794.0	40584	1.4	2.3	92.8	3.5	3.7a	5.5	None	
SBR69-3489	2794.0-2795.0	40585	1.6	2.6	94.1	1.7	4.1a	6.2	None	
SBR69-3490	2795.0-2796.0	40586	1.1	2.5	94.6	1.8	2.8a	6.0	None	
SBR69-3491	2796.0-2797.0	40587	1.5	1.9	94.7	1.9	4.0a	4.6	None	
SBR69-3492	2797.0-2798.0	40588	1.4	1.6	94.1	2.9	3.5a	4.0	None	
SBR69-3493	2798.0-2799.0	40589	1.5	2.2	95.0	1.3	3.8a	5.3	None	
SBR69-3494	2799.0-2800.0	40590	1.2	2.3	94.9	1.6	3.0a	5.5	None	
SBR69-3495	2800.0-2801.0	40591	1.6	2.6	94.3	1.5	4.2a	6.2	None	
SBR69-3496	2801.0-2802.0	40592	1.3	2.2	94.8	1.7	3.4a	5.3	None	
SBR69-3497	2802.0-2803.0	40593	1.0	2.0	95.4	1.6	2.5a	4.8	None	
SBR69-3498	2803.0-2804.0	40594	1.0	2.1	93.7	3.2	2.7a	5.0	None	
SBR69-3499	2804.0-2805.0	40595	1.1	1.1	97.0	.8	2.9a	2.6	None	
SBR69-3500	2805.0-2806.0	40596	1.0	2.4	94.6	2.0	2.6a	5.8	None	
SBR69-3501	2806.0-2807.3	40597	1.1	2.1	95.0	1.8	2.9a	5.0	None	

See footnote at end of table.

Core and drill cutting samples received November 12, 1968; Assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Bureau of Mines Washakie Basin Corehole No. 1 (con.)

Surface elevation 7,703 feet

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		
SBR69-3502	2807.3-2808.3	40598	0.8	1.6	96.0	1.6	2.0a	3.8		None		
SBR69-3503	2808.3-2809.1	40599	2.6	2.8	91.6	3.0	6.6	6.7	0.941	None		
SBR69-3504	2809.1-2810.3	40600	2.4	2.9	92.3	2.4	6.2	7.0	.948	None	Some coal	
SBR69-3505	2810.3-2811.3	40601	.9	1.3	96.0	1.8	2.4a	3.1		None		
SBR69-3506	2811.3-2812.3	40602	.6	2.3	95.8	1.3	1.5a	5.5		None		
SBR69-3507	2812.3-2813.6	40603	4.1	4.6	87.9	3.4	9.8	11.0	.995	None	Coaly shale & coal	
SBR69-3508	2813.6-2814.7	40604	4.8	3.4	88.4	3.4	11.8	8.0	.973	None	Coaly shale & coal	
SBR69-3509	2814.7-2815.9	40605	7.9	6.0	80.1	6.0	19.3	14.4	.984	None	Coaly shale & coal	
SBR69-3510	2815.9-2817.3	40606	.0	2.0	96.8	1.2	No oil	4.8		None		
SBR69-3511	2817.3-2819.0	40607	.2	2.4	96.5	.9	.5a	5.8		None		
SBR69-3512	2819.0-2820.0	40608	.9	2.0	94.6	2.5	2.2a	4.8		None	Coaly siltstone	
SBR69-3513	2820.0-2821.0	40609	5.7	4.3	86.0	4.0	14.8a	10.4		None	Coal & coaly shale	
SBR69-3514	2821.0-2822.0	40610	.2	1.1	97.2	1.5	.5a	2.6		None		
SBR69-3515	2822.0-2823.1	40611	.7	1.3	97.0	1.0	1.7a	3.1		None	Some coaly streaks	
SBR69-3516	2823.1-2824.8	40612	.6	2.2	96.0	1.2	1.7a	5.3		None		
SBR69-3517	2824.8-2826.0	40613	.9	2.1	94.3	2.7	2.3a	5.0		None		
SBR69-3518	2826.0-2827.0	40614	.8	1.8	95.2	2.2	2.1a	4.3		None		
SBR69-3519	2827.0-2828.0	40615	.6	1.8	94.6	3.0	1.5a	4.3		None		
SBR69-3520	2828.0-2829.0	40616	.9	2.1	94.9	2.1	2.4a	5.0		None		
SBR69-3521	2829.0-2830.0	40617	.7	1.3	96.7	1.3	1.8a	3.1		None		
SBR69-3522	2830.0-2831.0	40618	1.1	1.8	95.3	1.8	2.9a	4.3		None		
SBR69-3523	2831.0-2832.0	40619	.6	1.6	96.2	1.6	1.6a	3.8		None		
SBR69-3524	2832.0-2833.4	40620	.7	1.3	95.6	2.4	1.9a	3.1		None		
SBR69-3525	2833.4-2834.8	40621	1.5	2.1	93.8	2.6	3.9a	5.0		None		
SBR69-3526	2834.8-2836.4	40622	.3	1.3	96.8	1.6	.7a	3.2		None	Coaly	
SBR69-3527	2837.0-2837.9	40623	.3	1.6	97.0	1.1	.9a	3.8		None		
SBR69-3528	2837.9-2838.7	40624	3.3	2.0	91.1	3.6	8.5a	4.9		None	Coaly shale & coal	
SBR69-3529	2838.7-2839.7	40625	.0	.8	98.7	.5	Trace	1.9		None		
SBR69-3530	2839.7-2841.6	40626	.2	2.5	94.9	2.4	.6a	6.0		None		
SBR69-3531	2841.6-2842.2	40627	.1	1.1	97.5	1.3	.2a	2.6		None		

See footnote at end of table.

Core and drill cutting samples received November 12, 1968; Assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Bureau of Mines Washakie Basin Corehole No. 1 (con.)

Surface elevation 7,703 feet

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	
SBR69-3532	2842.2-2843.2	40628	1.0	2.6	94.4	2.0	2.5a	6.2	None	
SBR69-3533	2843.2-2844.9	40629	.3	.8	97.2	1.7	.7a	2.0	None	
SBR69-3534	2844.9-2846.3	40630	1.3	2.4	93.7	2.6	3.3a	5.8	None	Coaly shale
SBR69-3535	2846.3-2847.6	40631	.4	1.7	95.3	2.6	1.0a	4.1	None	
SBR69-3536	2847.6-2848.4	40632	1.3	2.8	94.5	1.4	3.4a	6.7	None	Coaly shale
SBR69-3537	2848.4-2849.8	40633	.7	2.2	95.9	1.2	1.7a	5.3	None	
SBR69-3538	2849.8-2851.3	40634	.6	1.9	95.6	1.9	1.6a	4.6	None	
SBR69-3539	2851.3-2852.3	40635	4.7	4.2	87.8	3.3	11.4	10.2	0.983	Coal & coaly shale
SBR69-3540	2852.3-2853.3	40636	1.8	2.1	93.9	2.2	4.6a	5.0	None	
SBR69-3541	2853.3-2854.0	40637	3.0	3.5	91.8	1.7	7.8	8.4	.931	Coaly shale
SBR69-3542	2854.0-2855.0	40638	4.0	3.5	89.4	3.1	10.0	8.5	.947	Coal & coaly shale
SBR69-3543	2855.0-2856.0	40639	7.0	5.4	82.8	4.8	17.1	12.9	.983	Coal
SBR69-3544	2856.0-2857.3	40640	10.7	7.0	74.3	8.0	27.8a	16.8	Medium	Coal

^{1/} "a"--indicates specific gravity estimated as 0.92. Oil yields were estimated by a rapid test-tube method: "No oil", "Trace", "b"--less than 1 gal oil/ton, "c"--1 to 3 gal oil/ton.

Core and drill cutting samples received November 12, 1968; Assays made on air-dried samples