

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Gulf Mineral Resources Company's Gulf Evacuation Corehole No. 3 drilled in NW1/4NE1/4 (378 feet S/N 2283 feet W/E) of sec 26, T 10 S, R 24 E, Uintah County, Utah

Surface elevation 5,433 feet

Sample number		Run No.	Yield of product				Specific gravity of oil at 60°/60° F		Properties of spent shale Tendency to		Remarks
			Weight percent		Gal per ton						
Laramie	Their		Oil	Water	Spent shale	Gas + loss	Oil 1/	Water		coke	
SBR72-483	432.5-434.0	67383	0.1	2.0	97.8	0.1	0.2a	4.8		None	
SBR72-484	434.0-435.5	67384	.2	1.8	97.8	.2	.6a	4.3		None	
SBR72-485	435.5-437.3	67385	.3	1.7	97.9	.1	.7a	4.1		None	
SBR72-486	437.3-438.8	67315	2.1	1.5	93.8	.6	5.5a	3.6		None	
SBR72-487	438.8-440.0	67316	2.4	1.0	95.0	1.6	6.2	2.4	0.949	None	
SBR72-488	440.0-441.0	67317	1.7	.5	96.7	1.1	4.4	1.2	.948	None	
SBR72-489	441.0-442.0	67318	2.7	.6	95.9	.8	7.0	1.3	.936	None	
SBR72-490	442.0-443.0	67319	6.8	1.1	90.4	1.7	17.5	2.6	.928	None	
SBR72-491	443.0-444.0	67320	3.3	.8	94.9	1.0	8.5	1.8	.929	None	
SBR72-492	444.0-445.0	67321	4.6	.9	92.8	1.7	11.8	2.2	.929	None	
SBR72-493	445.0-446.5	67322	6.6	.8	91.3	1.3	17.1	1.9	.922	None	
SBR72-494	450.0-451.0	67323	2.0	.2	96.8	1.0	5.1a	.5		None	
SBR72-495	451.0-452.0	67324	2.1	.5	97.0	.4	6.0	1.2	.839	None	
SBR72-496	452.0-453.0	67325	1.9	.5	97.0	.6	5.0a	1.1		None	
SBR72-497	453.0-455.0	67326	1.6	.4	97.7	.3	4.1a	1.1		None	
SBR72-498	455.0-456.0	67327	1.6	.4	97.7	.3	4.3a	1.0		None	
SBR72-499	456.0-457.0	67328	1.2	.4	97.9	.5	3.2a	.8		None	
SBR72-500	457.0-458.0	67329	1.2	.4	98.1	.3	3.3a	.8		None	
SBR72-501	461.0-462.3	67330	1.9	.3	97.3	.5	4.9a	.8		None	
SBR72-502	462.3-463.3	67331	7.1	1.0	90.6	1.3	18.5	2.4	.925	None	
SBR72-503	463.3-464.5	67332	7.5	2.0	88.9	1.6	19.3	4.8	.928	None	
SBR72-504	464.5-465.8	67333	2.9	1.5	95.0	.6	7.5	3.6	.932	None	
SBR72-505	465.8-467.0	67334	1.7	.2	97.3	.8	4.4a	.5		None	
SBR72-506	467.0-468.0	67335	1.4	.5	97.6	.5	3.6a	1.2		None	
SBR72-507	468.0-469.0	67336	1.6	.5	97.3	.6	4.2a	1.2		None	
SBR72-508	469.0-470.0	67337	1.4	.7	97.2	.7	3.6a	1.7		None	
SBR72-509	470.0-471.0	67338	1.4	.9	97.0	.7	3.7a	2.2		None	
SBR72-510	471.0-472.0	67339	1.7	.9	96.7	.7	4.4a	2.2		None	
SBR72-511	472.0-473.3	67340	1.5	1.0	93.5	4.0	4.0a	2.4		None	
SBR72-512	473.3-474.3	67341	.6	1.4	97.6	.4	1.5a	3.4		None	
See footnote at end of table.											

See footnote at end of table.

Core samples received January 4, 1972; Assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Gulf Mineral Resources Company's Gulf Evacuation Corehole No. 3 (con.)

Surface elevation 5,433 feet

Sample number		Run No.	Yield of product				Cal per ton		Specific gravity of oil at 60°/60° F	Properties of spent shale		Remarks
			Weight percent		Spent shale	Gas + loss				Tendency to coke		
Laramie	Their		Oil	Water					Oil ^{1/}	Water		
SBR72-513	474.3-475.6	67342	2.4	0.7	96.2	0.7	6.0	1.7	0.942	None		
SBR72-514	475.6-477.0	67343	3.5	.5	95.2	1.0	8.3	1.3	.941	None		
SBR72-515	477.0-478.0	67344	2.2	.5	96.6	.7	5.6	1.1	.943	None		
SBR72-516	478.0-479.0	67345	2.6	.6	96.3	.5	6.5	1.4	.937	None		
SBR72-517	479.0-480.0	67346	2.7	.3	96.0	1.0	6.9	.8	.930	None		
SBR72-518	480.0-481.0	67347	2.2	.7	96.2	.9	5.8	1.6	.931	None		
SBR72-519	482.8-484.2	67348	2.4	.4	95.9	1.3	6.0 ⁵	1.1	.938	None		
SBR72-520	484.2-485.6	67349	13.4	1.6	82.5	2.5	34.7	3.8	.928	Slight		
SBR72-521	485.6-486.9	67350	3.4	.7	94.8	1.1	8.8	1.6	.937	None		
SBR72-522	486.9-488.0	67351	2.9	.7	95.5	.9	7.4	1.7	.938	None		
SBR72-523	488.0-489.0	67352	1.9	.9	96.1	1.1	5.0a	2.2		None		
SBR72-524	489.0-490.8	67353	2.7	.9	95.6	.8	6.8	2.2	.934	None		
SBR72-525	490.8-492.1	67354	3.0	.6	95.5	.9	7.7	1.6	.929	None		
SBR72-526	492.1-493.2	67355	3.2	1.0	94.9	.9	8.3	2.4	.935	None		
SBR72-527	493.2-494.5	67356	3.4	.8	94.9	.9	8.7	1.8	.936	None		
SBR72-528	494.5-495.6	67357	3.4	.6	95.2	.8	8.6	1.6	.933	None		
SBR72-529	495.6-496.7	67358	3.0	.5	95.8	.7	7.6	1.2	.934	None		
SBR72-530	496.7-497.8	67359	3.9	.4	94.6	1.1	9.9	1.0	.930	None		
SBR72-531	497.8-498.8	67360	4.2	.6	94.4	.8	10.8	1.4	.938	None		
SBR72-532	498.8-499.8	67361	1.0	.4	94.0	4.6	2.6a	.8		None		
SBR72-533	499.8-500.8	67362	4.1	.7	94.5	.7	10.4	1.7	.937	None		
SBR72-534	501.4-502.5	67363	3.7	.6	95.0	.7	9.7	1.3	.927	None		
SBR72-535	502.5-503.7	67364	4.4	.4	94.3	.9	11.2	1.1	.931	None		
SBR72-536	503.7-505.0	67365	4.9	.6	93.6	.9	12.6	1.4	.931	None		
SBR72-537	505.0-506.0	67366	3.9	.5	95.0	.6	10.3	1.1	.917	None		
SBR72-538	506.0-507.0	67367	2.8	.5	96.2	.5	7.2	1.2	.930	None		
SBR72-539	507.0-508.0	67368	2.7	.5	96.4	.4	6.9	1.2	.936	None		
SBR72-540	508.0-509.0	67369	2.4	.8	96.5	.3	6.3	1.8	.936	None		
SBR72-541	509.0-510.0	67370	2.7	.6	96.3	.4	6.9	1.4	.952	None		
SBR72-542	510.0-511.0	67371	3.6	.6	95.4	.4	9.1	1.4	.947	None		

See footnote at end of table.

Core samples received January 4, 1972; Assays made on air-dried samples

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Samples from Gulf Mineral Resources Company's Gulf Evacuation Corehole No. 3 (con.)

Surface elevation 5,433 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	Water	
SBR72-543	511.0-512.2	67372	4.8	0.6	93.7	0.9	12.1	1.4	0.944	None	
SBR72-544	512.2-513.6	67373	5.8	.6	92.7	.9	14.8	1.3	.947	None	
SBR72-545	513.6-514.6	67374	3.0	.5	96.0	.5	7.5	1.3	.939	None	
SBR72-546	514.6-515.6	67375	1.8	.6	97.5	.1	4.6	1.4	.941	None	
SBR72-547	515.6-516.8	67376	2.7	.7	96.2	.4	7.0	1.7	.926	None	
SBR72-548	516.8-517.8	67377	2.7	.5	96.5	.3	7.1	1.1	.928	None	
SBR72-549	517.8-518.8	67378	3.4	.5	95.7	.4	8.6	1.3	.938	None	
SBR72-550	518.8-519.8	67379	3.5	.3	95.4	.8	9.0	.6	.938	None	
SBR72-551	521.4-522.4	67380	4.0	.6	94.9	.5	10.1	1.4	.940	None	rubble
SBR72-552	522.4-524.0	67381	4.3	.4	94.6	.7	11.0	1.1	.937	None	
SBR72-553	524.0-525.0	67386	4.5	.5	94.4	.6	11.4	1.2	.940	None	
SBR72-554	525.0-526.0	67387	4.1	.3	95.1	.5	10.5	.7	.933	None	
SBR72-555	526.0-527.0	67388	3.4	.5	95.1	1.0	8.8	1.2	.940	None	
SBR72-556	527.0-528.3	67389	3.4	.3	95.5	.8	8.7	.7	.943	None	
SBR72-557	528.3-529.3	67390	4.9	.4	94.0	.7	12.4	1.0	.942	None	
SBR72-558	532.3-534.0	67391	3.3	.4	95.8	.5	8.5	1.0	.937	None	
SBR72-559	534.0-535.1	67392	3.7	.5	95.4	.4	9.5	1.2	.940	None	
SBR72-560	536.0-537.0	67393	4.8	.5	94.2	.5	12.2	1.2	.933	None	
SBR72-561	537.0-538.0	67394	3.9	.4	94.9	.8	10.0	1.0	.942	None	
SBR72-562	538.0-539.0	67395	3.9	.3	94.5	1.3	9.9	.7	.946	None	
SBR72-563	539.0-540.0	67396	3.4	.5	95.5	.6	8.6	1.2	.939	None	
SBR72-564	540.0-541.0	67398	2.9	.5	95.8	.8	7.4	1.1	.945	None	
SBR72-565	541.0-542.0	67399	4.0	.6	94.8	.6	10.3	1.4	.935	None	
SBR72-566	542.0-543.1	67400	3.7	.3	95.2	.8	9.5	.8	.933	None	
SBR72-567	543.1-544.5	67401	4.1	.5	94.2	1.2	10.4	1.3	.941	None	
SBR72-568	544.5-545.6	67402	7.6	.7	90.2	1.5	19.4	1.8	.934	None	
SBR72-569	545.6-546.6	67403	3.3	.8	95.0	.9	8.5	1.8	.940	None	
SBR72-570	546.6-547.6	67404	3.0	.7	95.4	.9	7.6	1.8	.932	None	
SBR72-571	547.6-548.6	67405	1.5	1.4	96.5	.6	3.8	3.4	.938	None	
SBR72-572	548.6-549.8	67406	3.2	.9	95.4	.5	8.2	2.0	.942	None	

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OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Gulf Mineral Resources Company's Gulf Evacuation Corehole No. 3 (con.)

Surface elevation 5,433 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			
SBR72-573	549.8-551.0	67407	4.1	0.4	94.7	0.3	10.5	0.8	.942	None	
SBR72-574	551.0-552.0	67408	4.3	.6	94.2	.9	11.0	1.4	.928	None	
SBR72-575	552.0-553.0	67409	4.3	.4	94.4	.9	11.1	1.0	.938	None	
SBR72-576	553.0-554.0	67410	3.4	.7	95.2	.7	8.8	1.7	.938	None	
SBR72-577	554.0-555.0	67411	2.5	1.4	95.5	.6	6.3	3.4	.938	None	
SBR72-578	555.0-556.0	67412	2.9	1.2	95.2	.7	7.3	2.9	.940	None	
SBR72-579	556.0-557.0	67413	3.1	1.2	95.0	.7	7.8	2.9	.936	None	
SBR72-580	557.0-558.0	67414	2.4	1.9	95.1	.6	6.1	4.6	.935	None	
SBR72-581	558.0-559.0	67415	2.6	1.2	95.4	.8	6.6	2.9	.936	None	
SBR72-582	559.0-560.0	67416	5.3	.9	92.3	1.5	13.6	2.2	.938	None	
SBR72-583	560.0-561.0	67417	6.6	.8	91.3	1.3	17.2	1.9	.925	None	
SBR72-584	561.0-562.0	67418	3.0	1.0	95.1	.9	7.9	2.4	.928	None	
SBR72-585	562.0-563.0	67419	2.4	1.0	96.0	.6	6.3	2.4	.931	None	
SBR72-586	563.0-564.0	67420	2.2	1.3	95.7	.8	5.6	3.1	.943	None	
SBR72-587	564.0-565.0	67421	2.0	1.0	96.0	1.0	5.2	2.4	.937	None	
SBR72-588	565.0-566.0	67422	2.4	1.1	96.1	.4	6.0	2.6	.940	None	
SBR72-589	566.0-567.0	67423	2.2	1.5	95.9	.4	5.5	3.6	.941	None	
SBR72-590	567.0-568.0	67424	2.3	1.3	96.0	.4	5.8	3.1	.942	None	
SBR72-591	568.0-569.0	67425	1.5	1.8	95.9	.8	3.8	4.3	.941	None	
SBR72-592	569.0-570.0	67426	2.2	1.2	95.8	.8	5.6	2.9	.946	None	
SBR72-593	570.0-571.0	67427	2.2	1.5	94.8	1.5	5.5	3.6	.939	None	
SBR72-594	571.0-572.0	67432	2.1	.8	95.8	1.3	5.2	1.9	.946	None	
SBR72-595	572.0-573.0	67429	2.5	1.2	95.6	.7	6.4	2.9	.944	None	
SBR72-596	573.0-574.0	67430	2.8	1.2	95.5	.5	7.0	2.9	.940	None	
SBR72-597	574.0-575.0	67431	2.3	1.0	95.8	.9	5.9	2.4	.935	None	
SBR72-598	575.0-576.0	67433	1.6	1.4	96.2	.8	4.2a	3.4		None	
SBR72-599	576.0-577.0	67434	2.0	1.3	95.1	1.6	5.1a	3.1		None	
SBR72-600	577.0-578.0	67435	2.9	.8	95.7	.6	7.3	1.9	.938	None	
SBR72-601	578.0-579.0	67436	4.9	.6	93.6	.9	12.5	1.4	.934	None	
SBR72-602	579.0-580.0	67437	8.0	.7	89.3	2.0	20.6	1.8	.925	None	

See footnote at end of table.

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OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Gulf Mineral Resources Company's Gulf Evacuation Corehole No. 3 (con.)

Surface elevation 5,433 feet

Sample number		Run No.	Yield of product				Gal per ton		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	Water			
SBR72-603	580.0-581.4	67438	2.5	1.4	95.2	0.9	6.4	3.4	.929	None	
SBR72-604	581.4-582.8	67439	2.6	1.2	95.3	.9	6.6	2.9	.926	None	
SBR72-605	582.8-583.9	67440	2.2	1.5	95.3	1.0	5.8	3.6	.929	None	
SBR72-606	583.9-584.9	67441	2.1	1.6	95.4	.9	5.5	3.7	.930	None	
SBR72-607	584.9-585.9	67442	8.9	.8	88.5	1.8	23.2	1.9	.921	None	
SBR72-608	585.9-587.0	67443	4.4	.5	93.8	1.3	11.2	1.2	.936	None	
SBR72-609	587.0-588.0	67397	3.5	.7	94.5	1.3	8.9	1.8	.938	None	
SBR72-610	588.0-589.0	67444	3.1	.7	95.0	1.2	8.0	1.7	.940	None	
SBR72-611	589.0-590.0	67445	2.9	.8	95.1	1.2	7.5	1.9	.935	None	
SBR72-612	590.0-591.0	67446	2.7	.8	95.5	1.0	7.0	1.8	.933	None	
SBR72-613	591.0-592.0	67447	3.4	.7	94.9	1.0	8.7	1.7	.927	None	
SBR72-614	592.0-593.0	67448	4.3	.7	93.5	1.5	11.0	1.7	.941	None	
SBR72-615	593.0-594.0	67449	4.6	.6	93.5	1.3	11.8	1.4	.928	None	
SBR72-616	594.0-595.0	67450	3.0	.8	95.1	1.1	7.6	1.9	.929	None	
SBR72-617	595.0-596.0	67451	2.2	1.0	95.5	1.3	5.6	2.4	.928	None	
SBR72-618	596.0-597.0	67452	1.9	1.3	95.8	1.0	5.1a	3.1		None	
SBR72-619	597.0-598.0	67453	2.4	1.2	95.4	1.0	6.2	2.9	.926	None	
SBR72-620	598.0-599.0	67454	3.1	.5	95.2	1.2	7.9	1.2	.940	None	
SBR72-621	599.0-600.0	67455	3.3	.8	94.8	1.1	8.4	1.9	.939	None	
SBR72-622	600.0-601.0	67456	3.7	.5	94.1	1.7	9.3	1.3	.939	None	
SBR72-623	601.0-602.0	67457	6.0	1.0	91.6	1.4	15.3	2.4	.938	None	
SBR72-624	602.0-603.0	67458	6.0	.9	91.3	1.8	15.3	2.2	.942	None	
SBR72-625	603.0-604.0	67459	2.7	.7	95.7	.9	6.8	1.7	.944	None	
SBR72-626	604.0-605.0	67460	2.2	.6	95.6	1.6	5.5	1.4	.943	None	
SBR72-627	605.0-606.0	67461	1.9	1.2	95.6	1.3	4.9	2.8	.928	None	
SBR72-628	606.0-607.0	67462	4.2	.6	93.3	1.9	10.7	1.6	.937	None	
SBR72-629	607.0-608.0	67463	3.9	1.0	93.5	1.6	10.0	2.5	.927	None	
SBR72-630	608.0-609.0	67464	3.3	.7	94.6	1.4	8.5	1.8	.925	None	
SBR72-631	609.0-610.0	67465	5.6	1.2	91.4	1.8	14.5	2.9	.921	None	
SBR72-632	610.0-611.2	67466	4.2	1.2	92.8	1.8	11.0	2.9	.920	None	

See footnote at end of table.

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Surface elevation 5,433 feet

Sample number			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	Run No.	Oil	Water	Oil	Water	Oil	Water	of oil at 60°/60° F	coke		
SBR72-633	611.2-612.5	67467	3.3	0.5	94.2	2.0	8.5	1.3	0.925	None		
SBR72-634	612.5-613.7	67468	2.6	1.3	95.0	1.1	6.6	3.1	.925	None		
SBR72-635	613.7-614.9	67469	3.7	1.1	93.7	1.5	9.5	2.6	.925	None		
SBR72-636	614.9-615.9	67470	11.2	1.4	84.9	2.5	28.8	3.4	.937	None		
SBR72-637	615.9-617.0	67471	3.7	.8	94.5	1.0	9.4	1.9	.934	None		
SBR72-638	617.0-618.0	67472	2.4	1.0	94.8	1.8	6.3	2.4	.939	None		
SBR72-639	618.0-619.0	67473	2.2	1.4	95.3	1.1	5.7	3.4	.937	None		
SBR72-640	619.0-620.0	67474	2.6	1.4	94.8	1.2	6.6	3.4	.933	None		
SBR72-641	620.0-621.0	67475	3.1	1.3	91.9	3.7	8.0	3.1	.928	None		
SBR72-642	621.0-622.0	67476	5.4	1.0	92.3	1.3	14.1	2.4	.923	None		
SBR72-643	622.0-623.0	67477	6.8	.8	90.8	1.6	17.7	1.9	.926	None		
SBR72-644	623.0-624.0	67478	3.3	.6	94.4	1.7	8.6	1.4	.928	None		
SBR72-645	624.0-625.0	67479	3.7	1.1	94.0	1.2	9.7	2.6	.925	None		
SBR72-646	625.0-626.0	67480	3.4	1.0	94.5	1.1	8.7	2.4	.928	None		
SBR72-647	626.0-627.0	67481	3.8	1.0	94.2	1.0	9.8	2.4	.928	None		
SBR72-648	627.0-628.0	67482	10.6	1.5	85.4	2.5	27.6	3.6	.921	None		
SBR72-649	628.0-629.0	67483	5.5	.8	92.4	1.3	13.9	1.9	.942	None		
SBR72-650	629.0-630.0	67484	3.6	.8	94.6	1.0	9.3	1.9	.936	None		
SBR72-651	630.0-631.0	67485	3.5	.9	94.6	1.0	8.8	2.2	.937	None		
SBR72-652	631.0-632.0	67486	4.5	.6	93.9	1.0	11.5	1.3	.940	None		
SBR72-653	632.0-633.0	67487	4.7	.4	93.3	1.6	12.0	.8	.937	None		
SBR72-654	633.0-634.0	67488	5.1	.5	93.2	1.2	13.1	1.3	.928	None		
SBR72-655	634.0-635.0	67489	4.9	.6	93.5	1.0	12.6	1.3	.935	None		
SBR72-656	635.0-636.0	67490	5.6	1.2	91.8	1.4	14.6	2.9	.923	None		
SBR72-657	636.0-637.0	67491	6.8	1.0	90.3	1.9	17.6	2.4	.930	None		
SBR72-658	637.0-638.0	67492	4.3	.6	93.6	1.5	10.9	1.6	.943	None		
SBR72-659	638.0-639.0	67493	5.3	.4	92.6	1.7	13.5	1.0	.943	None		
SBR72-660	639.0-640.0	67494	5.2	.7	93.0	1.1	13.3	1.7	.941	None		
SBR72-661	640.0-641.0	67495	5.2	.7	93.0	1.1	13.2	1.7	.940	None		
SBR72-662	641.0-642.0	67496	4.2	.4	94.0	1.4	10.7	1.0	.936	None		

Core samples received January 4, 1972; Assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Gulf Mineral Resources Company's Gulf Evacuation Corehole No. 3 (con.)

Surface elevation 5,433 feet

Sample number		Run No.	Yield of product				Gal per ton		Specific gravity of oil at 60°/60° F	Properties of spent shale		Remarks
			Weight percent		Spent shale	Gas + loss				Tendency to		
Laramie	Their		Oil	Water					Oil	Water		cake
SBR72-663	642.0-643.0	67497	4.9	0.4	94.7	0.0	12.5	1.0	0.934	None		
SBR72-664	643.0-644.0	67498	5.4	.5	92.5	1.6	13.8	1.2	.937	None		
SBR72-665	644.0-645.0	67499	5.1	.7	92.8	1.4	13.2	1.7	.929	None		
SBR72-666	645.0-646.0	67500	4.7	.9	93.0	1.4	12.1	2.2	.928	None		
SBR72-667	646.0-647.0	67501	4.9	.9	92.9	1.3	12.7	2.2	.919	None		
SBR72-668	647.0-648.2	67502	5.1	.6	93.0	1.3	13.5	1.4	.914	None		
SBR72-669	648.2-649.5	67503	5.0	.7	92.7	1.6	13.2	1.7	.913	None		
SBR72-670	649.5-650.7	67504	4.5	1.0	93.5	1.0	11.8	2.4	.915	None		
SBR72-671	650.7-651.7	67505	3.3	.4	93.2	3.1	8.6	.8	.923	None		
SBR72-672	652.7-654.0	67506	4.9	.7	93.5	.9	12.8	1.7	.922	None		
SBR72-673	654.0-655.0	67507	5.3	.7	93.1	.9	13.7	1.7	.923	None		
SBR72-674	655.0-656.0	67508	5.9	.7	92.0	1.4	15.3	1.7	.919	None		
SBR72-675	656.0-657.0	67509	6.7	.8	91.4	1.1	17.5	1.9	.916	None		
SBR72-676	657.0-658.0	67510	5.4	1.0	92.5	1.1	14.2	2.4	.912	None		
SBR72-677	658.0-659.0	67511	5.9	.7	91.8	1.6	15.5	1.7	.917	None		
SBR72-678	659.0-660.0	67512	11.2	1.2	85.4	2.2	29.2	2.9	.920	None		
SBR72-679	660.0-661.0	67513	7.8	.8	90.2	1.2	20.3	1.8	.919	None		
SBR72-680	661.0-662.0	67514	8.7	1.0	88.2	2.1	22.9	2.4	.911	None		
SBR72-681	662.0-663.0	67515	8.5	1.1	88.6	1.8	22.1	2.6	.916	None		
SBR72-682	663.0-664.0	67516	5.8	1.1	91.9	1.2	15.2	2.6	.919	None		
SBR72-683	664.0-665.0	67517	5.9	1.0	91.8	1.3	15.3	2.4	.918	None		
SBR72-684	665.0-666.0	67518	3.8	1.4	93.8	1.0	10.0	3.4	.923	None		
SBR72-685	666.0-667.0	67519	4.0	.9	94.2	.9	10.4	2.2	.926	None		
SBR72-686	667.0-668.0	67520	4.7	1.3	93.0	1.0	12.3	3.1	.920	None		
SBR72-687	668.0-669.0	67521	5.5	.8	92.4	1.3	14.5	1.8	.916	None		
SBR72-688	669.0-670.0	67522	3.2	1.5	94.4	.9	8.3	3.6	.923	None		
SBR72-689	670.0-670.8	67523	2.6	1.2	94.9	1.3	6.8	2.9	.926	None		
SBR72-690	671.4-672.4	67524	3.4	.9	94.8	.9	8.9	2.2	.919	None		
SBR72-691	672.4-673.8	67549	9.0	1.2	87.5	2.3	23.6	2.9	.918	None		
SBR72-692	673.8-675.0	67526	5.8	.8	92.0	1.4	15.2	1.9	.912	None		

Cora samples received January 4, 1972; Assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Gulf Mineral Resources Company's Gulf Evacuation Corehole No. 3 (con.)

Surface elevation 5,433 feet

Sample number		Run No.	Yield of product				Gal per ton		Specific gravity of oil at 60°/60° F	Properties of spent shale		Remarks
			Weight percent		Spent shale	Gas + loss				Tendency to		
											Oil	
Laramie	Thor		Oil	Water	shale		Oil	Water				
SBR72-693	675.0-676.0	67527	4.0	1.5	93.5	1.0	10.5	3.6	0.914	None		
SBR72-694	676.0-677.0	67528	3.0	1.4	94.1	1.5	7.8	3.4	.925	None		
SBR72-695	677.0-678.0	67529	2.8	1.0	94.9	1.3	7.4	2.4	.926	None		
SBR72-696	678.0-679.0	67530	4.6	1.0	93.3	1.1	12.0	2.4	.923	None		
SBR72-697	679.0-680.0	67531	5.2	1.0	92.3	1.5	13.5	2.4	.919	None		
SBR72-698	680.0-681.0	67532	2.5	1.8	94.3	1.4	6.4	4.3	.935	None		
SBR72-699	681.0-683.0	67533	2.8	1.8	94.2	1.2	7.2	4.3	.923	None		
SBR72-700	683.0-684.0	67534	3.5	1.6	93.6	1.3	9.2	3.8	.924	None		
SBR72-701	684.0-685.0	67535	2.6	1.7	94.6	1.1	6.7	4.1	.924	None		
SBR72-702	685.0-686.0	67536	2.6	1.8	94.4	1.2	6.8	4.3	.921	None		
SBR72-703	686.0-687.1	67537	8.3	1.5	88.4	1.8	21.7	3.6	.918	None		
SBR72-704	687.1-688.3	67538	3.8	1.5	93.2	1.5	9.9	3.6	.917	None		
SBR72-705	689.0-690.0	67539	2.6	1.3	93.9	2.2	6.9	3.1	.920	None		
SBR72-706	690.0-691.0	67540	3.5	1.8	93.2	1.5	9.2	4.3	.921	None		
SBR72-707	691.0-692.0	67541	3.3	1.7	93.5	1.5	8.6	4.1	.920	None		
SBR72-708	692.0-693.2	67542	2.8	2.0	93.9	1.3	7.3	4.8	.923	None		
SBR72-709	693.2-694.4	67543	2.8	1.8	94.1	1.3	7.1	4.3	.926	None		
SBR72-710	694.4-695.4	67544	8.7	1.8	87.0	2.5	22.8	4.3	.915	None		
SBR72-711	695.4-696.7	67545	4.1	1.5	93.0	1.4	10.5	3.6	.927	None		
SBR72-712	696.7-698.0	67546	3.1	1.7	94.0	1.2	8.0	4.1	.931	None		
SBR72-713	698.0-699.0	67547	2.7	1.5	93.1	2.7	6.8	3.6	.937	None		
SBR72-714	699.0-700.0	67548	2.8	1.3	94.7	1.2	7.0	3.1	.935	None		
SBR72-715	700.0-701.1	67550	7.9	1.8	88.5	1.8	20.6	4.3	.922	None		
SBR72-716	701.1-702.3	67551	6.3	1.1	91.4	1.2	16.3	2.6	.928	None		
SBR72-717	702.3-703.5	67552	3.2	1.4	94.8	.6	8.2	3.4	.925	None		
SBR72-718	703.5-704.7	67553	3.3	1.5	94.4	.8	8.7	3.6	.924	None		
SBR72-719	704.7-706.0	67554	4.9	1.4	92.4	1.3	12.7	3.4	.921	None	rubble	
SBR72-720	706.0-707.0	67555	15.0	2.2	79.9	2.9	39.1	5.3	.918	None		
SBR72-721	707.0-708.0	67556	4.8	1.3	92.9	1.0	12.4	3.1	.927	None		
SBR72-722	708.0-709.0	67557	3.0	1.4	94.7	.9	7.8	3.5	.927	None		

Core samples received January 4, 1972; Assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Gulf Mineral Resources Company's Gulf Evacuation Corehole No. 3 (con.)

Surface elevation 5,433 feet

Sample number			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		
			Oil	Water			Oil	Water				
Laramie	Their	Run No.	Oil	Water	Spent shale	Gas + loss	Oil	Water	60°/60° F	coke		
SBR72-723	709.0-710.0	67558	3.0	1.4	94.9	0.7	7.8	3.4	0.929	None		
SBR72-724	710.0-711.0	67559	2.5	1.0	95.1	1.4	6.5	2.5	.927	None		
SBR72-725	711.0-712.0	67560	3.1	1.3	95.0	.6	8.1	3.1	.927	None		
SBR72-726	712.0-713.0	67561	4.7	1.2	93.2	.9	12.2	2.9	.923	None		
SBR72-727	713.0-714.0	67562	5.0	.8	92.8	1.4	13.1	1.9	.924	None		
SBR72-728	714.0-715.0	67563	5.3	.9	92.6	1.2	13.8	2.2	.920	None		
SBR72-729	715.0-716.0	67564	3.8	.9	93.7	1.6	9.9	2.0	.926	None		
SBR72-730	716.0-717.0	67565	5.0	.1	93.3	1.6	13.0	.2	.929	None		
SBR72-731	717.0-718.6	67566	4.6	.8	93.3	1.3	12.0	1.9	.925	None		
SBR72-732	718.6-719.6	67567	7.9	1.7	82.1	8.3	20.3	4.1	.926	None		
SBR72-733	719.6-720.7	67568	5.4	.8	92.0	1.8	14.1	2.0	.913	None		
SBR72-734	720.7-721.8	67569	3.6	1.2	93.8	1.4	9.5	2.9	.920	None		
SBR72-735	721.8-722.9	67570	1.8	1.7	95.2	1.3	4.6a	4.1		None		
SBR72-736	722.9-723.9	67571	1.1	2.3	95.7	.9	2.8a	5.5		None		
SBR72-737	723.9-724.9	67572	2.8	1.3	95.0	.9	7.2	3.1	.925	None		
SBR72-738	724.9-725.4	67573	8.4	1.2	88.5	1.9	22.0	2.9	.921	None	Footage correction	
SBR72-739	725.4-726.7	67574	5.6	.8	92.4	1.2	14.7	1.9	.918	None		
SBR72-740	726.7-728.0	67575	3.7	.7	94.1	1.5	9.5	1.7	.924	None		
SBR72-741	728.0-729.0	67576	3.7	1.1	94.4	.8	9.5	2.6	.927	None		
SBR72-742	729.0-730.0	67577	4.6	1.0	93.3	1.1	11.8	2.4	.931	None		
SBR72-743	730.0-731.0	67578	11.7	1.7	80.8	5.8	30.5	4.1	.915	None		
SBR72-744	731.0-732.0	67579	5.6	.8	92.3	1.3	14.6	1.8	.927	None		
SBR72-745	732.0-733.0	67580	4.0	.6	93.4	2.0	10.2	1.4	.944	None		
SBR72-746	733.0-734.0	67581	4.0	1.0	93.8	1.2	10.1	2.4	.936	None		
SBR72-747	734.0-735.0	67582	3.6	.8	94.3	1.3	9.3	1.9	.937	None		
SBR72-748	735.0-736.0	67583	3.6	.8	94.5	1.1	9.1	1.9	.937	None		
SBR72-749	736.0-737.0	67584	4.0	.9	94.1	1.0	10.2	2.2	.934	None		
SBR72-750	737.0-738.3	67585	5.0	.8	92.9	1.3	12.7	1.9	.934	None		
SBR72-751	738.3-739.3	67586	6.9	1.5	91.0	.6	18.2	3.6	.911	None		
SBR72-752	740.7-741.7	67587	4.3	.8	93.9	1.0	11.1	1.9	.925	None		

See footnote at end of table.

Core samples received January 4, 1972; Assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Gulf Mineral Resources Company's Gulf Evacuation Corehole No. 3 (con.)

Surface elevation 5,433 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/	Water	
SBR72-753	741.7-743.0	67588	4.1	0.5	94.2	1.2	10.4	1.2	.942	None	
SBR72-754	743.0-744.0	67589	4.2	.5	94.7	.6	10.9	1.2	.938	None	
SBR72-755	744.0-745.0	67590	4.2	.5	93.7	1.6	10.8	1.2	.939	None	
SBR72-756	745.0-746.0	67591	5.0	.5	93.3	1.2	12.9	1.2	.938	None	
SBR72-757	746.0-747.0	67592	4.5	.7	93.8	1.0	11.5	1.7	.932	None	
SBR72-758	747.0-748.0	67593	4.4	.5	94.2	.9	11.5	1.2	.926	None	
SBR72-759	748.0-749.0	67594	4.0	.7	94.4	.9	10.2	1.7	.929	None	
SBR72-760	749.0-750.0	67595	4.3	.8	94.0	.9	11.0	1.9	.927	None	
SBR72-761	750.0-751.0	67596	4.3	.8	93.8	1.1	11.1	1.8	.929	None	
SBR72-762	751.0-752.0	67597	4.8	.5	93.4	1.3	12.4	1.2	.927	None	
SBR72-763	752.0-753.0	67598	4.4	.6	93.4	1.6	11.5	1.4	.926	None	
SBR72-764	753.0-754.0	67599	3.4	.8	94.9	.9	8.8	1.9	.939	None	
SBR72-765	754.0-755.0	67600	4.0	.5	94.3	1.2	10.2	1.2	.929	None	
SBR72-766	755.0-756.0	67601	6.2	.8	91.8	1.2	16.1	1.8	.926	None	
SBR72-767	756.0-757.0	67602	4.0	.6	94.2	1.2	10.2	4.2	.938	None	
SBR72-768	757.0-758.0	67603	3.3	1.2	94.4	1.1	8.3	2.9	.939	None	
SBR72-769	758.0-758.7	67604	2.8	1.0	95.2	1.0	7.1	2.4	.930	None	
SBR72-770	759.1-760.0	67605	2.7	1.0	95.5	.8	6.9	2.4	.925	None	
SBR72-771	760.0-761.0	67606	3.5	.8	94.7	1.0	9.0	1.9	.936	None	
SBR72-772	761.0-762.0	67607	6.3	.8	91.6	1.3	16.3	1.8	.929	None	
SBR72-773	762.0-763.0	67608	4.9	.8	93.3	1.0	12.7	1.8	.928	None	
SBR72-774	763.0-764.0	67609	3.8	1.0	94.3	.9	9.9	2.4	.930	None	
SBR72-775	764.0-765.0	67610	4.0	.6	94.2	1.2	10.3	1.4	.930	None	
SBR72-776	765.0-766.1	67611	3.3	.6	95.1	1.0	8.3	1.4	.937	None	
SBR72-777	766.1-767.3	67612	5.8	1.3	92.0	.9	15.0	3.1	.932	None	
SBR72-778	767.3-768.6	67613	2.7	3.1	92.7	1.5	6.9	7.4	.932	None	Upper wavy tuff
SBR72-779	768.6-769.6	67614	1.1	5.4	93.4	.1	2.9	12.9		None	Upper wavy tuff
SBR72-780	769.6-770.4	67615	4.3	1.1	93.9	.7	11.0	2.8	.934	None	
SBR72-781	770.8-771.8	67616	4.2	.9	94.1	.8	10.6	2.2	.934	None	
SBR72-782	771.8-773.0	67617	5.3	.8	93.1	.8	13.8	1.9	.925	None	

See footnote at end of table.

Core samples received January 4, 1972; Assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Gulf Mineral Resources Company's Gulf Evacuation Corehole No. 3 (con.)

Surface elevation 5,433 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	coke	
			Oil	Water	Spent shale	Gas + loss	Oil	Water				
Laramie	Their						11/					
SBR72-783	773.0-774.0	67618	6.4	1.0	91.7	0.9	16.7	2.4	.924	None		
SBR72-784	774.0-775.0	67619	6.1	.9	92.3	.7	15.9	2.0	.923	None		
SBR72-785	775.0-776.0	67620	8.1	1.0	89.5	1.4	20.9	2.4	.923	None		
SBR72-786	776.0-777.0	67621	5.5	.8	93.2	.5	14.3	1.8	.924	None		
SBR72-787	777.0-778.0	67645	4.2	.4	94.4	1.0	10.9	1.0	.925	None		
SBR72-788	778.0-779.0	67623	3.6	.7	94.6	1.1	9.1	1.7	.931	None		
SBR72-789	779.0-780.0	67624	2.6	1.3	95.2	.9	6.8	3.1	.935	None		
SBR72-790	780.0-781.0	67625	3.8	1.2	94.0	1.0	9.8	2.9	.929	None		
SBR72-791	781.0-782.0	67626	5.2	.6	92.9	1.3	13.3	1.4	.928	None		
SBR72-792	782.0-783.0	67627	4.8	.8	93.0	1.4	12.4	1.9	.929	None		
SBR72-793	783.0-784.0	67628	3.3	1.0	94.6	1.1	8.6	2.4	.931	None		
SBR72-794	784.0-785.0	67629	3.6	1.3	94.0	1.1	9.2	3.1	.925	None		
SBR72-795	785.0-786.1	67630	5.0	1.0	92.8	1.2	12.9	2.4	.922	None		
SBR72-796	786.1-787.3	67631	16.2	.6	79.7	3.5	41.9	1.4	.928	Slight		
SBR72-797	787.3-788.3	67632	6.1	.8	91.9	1.2	15.8	1.8	.926	None		
SBR72-798	788.3-789.5	67633	4.8	1.1	92.9	1.2	12.5	2.6	.921	None		
SBR72-799	789.5-790.7	67670	5.6	.5	92.5	1.4	14.4	1.2	.921	None		
SBR72-800	790.7-792.0	67635	5.4	.9	92.7	1.0	14.0	2.2	.921	None		
SBR72-801	792.0-793.0	67636	5.7	.5	92.2	1.6	14.9	1.2	.916	None		
SBR72-802	793.0-794.0	67637	14.2	.9	81.6	3.3	37.1	2.0	.918	None		
SBR72-803	794.0-795.4	67638	6.0	.5	91.9	1.6	15.7	1.2	.918	None		
SBR72-804	795.4-796.7	67639	5.7	.7	91.5	2.1	14.8	1.7	.917	None		
SBR72-805	796.7-797.4	67640	16.0	1.4	79.1	3.5	42.0	3.2	.914	Heavy		
SBR72-806	797.4-799.0	67641	2.3	1.4	95.2	1.1	5.9	3.5	.923	None		rubble
SBR72-807	799.0-800.0	67642	2.3	1.5	95.1	1.1	6.0	3.6	.927	None		rubble
SBR72-808	800.0-801.3	67643	2.3	1.6	94.2	1.9	5.9	4.0	.928	None	Top A-groove	(rubble)
SBR72-809	801.3-802.6	67644	.8	3.3	94.3	1.6	2.0a	7.9		None		rubble
SBR72-810	802.6-803.6	67646	1.9	1.2	95.7	1.2	5.0	2.9	.920	None		
SBR72-811	803.6-804.5	67647	1.4	1.8	93.4	3.4	3.8a	4.3		None		
SBR72-812	804.6-805.6	67648	2.0	.6	96.6	.8	5.2	1.4	.945	None		

See footnote at end of table.

Core samples received January 4, 1972; Assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Gulf Mineral Resources Company's Gulf Evacuation Corehole No. 3 (con.)

Surface elevation 5,433 feet

Surface elevation 5,433 feet			Yield of product						Specific gravity of oil at 60°/60° F	Properties of spent shale		Remarks
Sample number		Run No.	Weight percent		Spent shale	Gas + loss	Gal per ton			Tendency to coke		
			Oil	Water			Oil 1/	Water				
Laramie	Their											
SBR72-813	805.6-806.6	67649	1.3	1.2	96.6	0.9	3.4a	2.9			None	
SBR72-814	806.6-807.7	67650	.8	1.9	96.3	1.0	2.0a	4.6			None	
SBR72-815	807.7-808.7	67651	.8	1.5	96.7	1.0	2.1a	3.6			None	
SBR72-816	808.7-809.7	67652	1.2	1.0	96.5	1.3	3.1a	2.4			None	Bottom A-groove
SBR72-817	809.7-810.9	67653	4.1	1.3	93.2	1.4	10.8	3.1	0.915		None	
SBR72-818	811.4-812.5	67654	3.3	1.0	94.7	1.0	8.4	2.4	.934		None	
SBR72-819	812.5-813.6	67655	3.5	1.2	94.0	1.3	8.9	2.9	.936		None	
SBR72-820	813.6-814.8	67656	2.2	1.5	95.3	1.0	5.8	3.6	.934		None	
SBR72-821	814.8-816.0	67657	5.0	.7	93.2	1.1	12.9	1.8	.925		None	
SBR72-822	816.0-817.0	67658	5.7	.6	92.4	1.3	14.8	1.6	.922		None	
SBR72-823	817.0-818.0	67659	7.4	.7	90.3	1.6	19.2	1.7	.921		None	
SBR72-824	818.0-819.3	67660	6.7	.8	91.1	1.4	17.6	1.8	.914		None	
SBR72-825	819.3-820.3	67661	5.1	1.0	92.4	1.5	13.5	2.3	.911		None	
SBR72-826	820.3-821.3	67662	15.4	1.5	79.6	3.5	40.8	3.6	.907		Medium	
SBR72-827	821.3-822.5	67663	6.9	1.0	90.5	1.6	18.1	2.4	.913		None	
SBR72-828	822.5-823.8	67664	5.9	.5	91.4	2.2	15.4	1.2	.914		None	
SBR72-829	823.8-825.0	67665	4.4	.8	93.8	1.0	11.4	1.9	.915		None	
SBR72-830	825.0-826.0	67666	7.3	1.4	89.6	1.7	19.2	3.4	.914		None	
SBR72-831	826.0-827.0	67667	10.0	1.3	86.9	1.8	26.3	3.1	.909		None	
SBR72-832	827.0-828.0	67668	12.3	1.4	83.3	3.0	32.4	3.4	.913		Slight	
SBR72-833	828.0-829.3	67669	8.9	.9	88.2	2.0	23.3	2.2	.912		None	
SBR72-834	829.3-830.5	67671	13.8	.9	82.6	2.7	36.7	2.2	.902		Slight	
SBR72-835	830.6-832.0	67672	16.2	1.1	78.6	4.1	42.6	2.8	.910		Slight	
SBR72-836	832.0-833.0	67673	11.2	.7	85.9	2.2	30.0	1.6	.896		None	
SBR72-837	833.0-834.0	67674	8.4	.8	88.7	2.1	22.2	1.9	.905		None	
SBR72-838	834.0-835.0	67675	7.2	.6	89.8	2.4	19.0	1.4	.912		None	
SBR72-839	835.0-836.0	67676	5.0	.7	92.4	1.9	13.1	1.7	.916		None	
SBR72-840	836.0-837.0	67677	4.2	1.1	93.1	1.6	11.0	2.5	.917		None	
SBR72-841	837.0-838.0	67678	8.4	1.1	88.5	2.0	22.2	2.6	.913		None	
SBR72-842	838.0-839.0	67679	6.9	.7	90.7	1.7	18.2	1.7	.911		None	

See footnote at end of table.

Core samples received January 4, 1972; Assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Gulf Mineral Resources Company's Gulf Evacuation Corehole No. 3 (con.)

Surface elevation 5,433 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		cake	
SBR72-843	839.0-840.0	67680	4.2	0.7	93.7	1.4	10.9	1.8	.915	None	
SBR72-844	840.0-841.2	67681	5.2	.6	92.9	1.3	13.6	1.6	.912	None	Mahogany marker
SBR72-845	841.2-842.3	67682	4.4	1.3	92.7	1.6	11.7	3.1	.908	None	841.8-842.3
SBR72-846	842.3-843.3	67683	3.8	.2	94.2	1.8	9.9	.6	.913	None	
SBR72-847	843.3-844.3	67684	4.0	.3	94.7	1.0	10.6	.6	.904	None	
SBR72-848	844.3-845.3	67685	4.8	.3	93.6	1.3	12.7	.7	.901	None	
SBR72-849	845.3-846.4	67686	5.8	.5	92.3	1.4	15.5	1.1	.904	None	
SBR72-850	846.4-847.5	67687	18.6	.9	76.3	4.2	48.5	2.2	.921	Medium	
SBR72-851	847.5-848.2	67688	14.0	.8	81.7	3.5	37.0	1.8	.909	Slight	
SBR72-852	848.2-849.5	67689	7.8	.8	89.4	2.0	20.9	1.9	.900	None	
SBR72-853	849.5-850.8	67690	8.1	.6	89.1	2.2	21.6	1.6	.898	None	
SBR72-854	850.8-852.1	67691	7.7	.4	89.6	2.3	20.4	1.1	.904	None	
SBR72-855	852.1-853.1	67692	13.1	.5	83.7	2.7	34.7	1.1	.906	None	
SBR72-856	853.1-854.2	67693	13.9	.6	82.7	2.8	36.7	1.4	.909	None	
SBR72-857	854.2-855.2	67694	12.9	.4	85.3	1.4	34.1	1.0	.907	None	
SBR72-858	855.2-856.3	67695	19.2	.9	76.6	3.3	51.0	2.2	.901	Medium	
SBR72-859	856.3-857.4	67696	29.1	1.7	63.8	5.4	76.8	4.1	.909	Heavy	Mahogany bed
SBR72-860	857.4-858.4	67697	28.8	2.3	63.9	5.0	76.2	5.5	.905	Heavy	Mahogany bed
SBR72-861	858.4-859.4	67698	22.1	1.5	72.8	3.6	58.5	3.6	.906	Medium	Mahogany bed
SBR72-862	859.4-860.6	67699	20.5	1.0	75.3	3.2	53.8	2.4	.913	Medium	
SBR72-863	860.6-861.7	67700	12.9	.5	84.9	1.7	33.7	1.3	.916	Slight	
SBR72-864	861.7-863.0	67701	20.6	.7	75.6	3.1	53.7	1.7	.919	Slight	
SBR72-865	863.0-863.8	67702	7.3	.5	91.8	.4	19.3	1.1	.909	None	
SBR72-866	863.8-864.8	67703	21.6	.7	74.3	3.4	56.6	1.7	.914	Slight	
SBR72-867	864.8-866.3	67704	17.1	.4	80.0	2.5	45.5	1.0	.901	Slight	
SBR72-868	866.3-867.3	67705	19.0	.5	77.8	2.7	50.3	1.3	.904	Slight	
SBR72-869	867.3-868.3	67706	8.3	.4	89.5	1.8	22.3	1.0	.890	None	
SBR72-870	868.3-869.3	67707	8.2	.4	89.9	1.5	22.3	1.0	.886	None	
SBR72-871	869.3-870.3	67708	18.1	.4	77.6	3.9	47.7	1.0	.909	Slight	
SBR72-872	870.3-871.4	67709	7.3	.2	90.6	1.9	19.1	.5	.916	None	

Core samples received January 4, 1972; Assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Gulf Mineral Resources Company's Gulf Evacuation Corehole No. 3 (con.)

Surface elevation 5,433 feet

			Yield of product						Specific gravity of oil at 60°/60° F	Properties of spent shale		Remarks
Sample number		Run No.	Weight percent		Spent shale	Gas + loss	Gal per ton			Tendency to coke		
			Oil	Water			Oil ^{1/}	Water				
Laramie	Thier											
SBR72-873	871.4-872.5	67710	7.1	0.8	90.1	2.0	18.5	1.9	.917	None		
SBR72-874	872.5-873.5	67711	5.2	.8	91.8	2.2	13.5	1.9	.919	None		
SBR72-875	873.5-874.5	67712	7.8	.8	89.3	2.1	20.3	1.9	.916	None		
SBR72-876	874.5-875.6	67713	9.7	.6	81.3	8.4	25.4	1.3	.919	Slight		
SBR72-877	875.6-876.6	67714	6.0	.6	91.5	1.9	15.7	1.4	.917	Slight		
SBR72-878	876.6-877.6	67715	4.6	2.6	89.9	2.9	11.9	6.2	.921	Slight		
SBR72-879	877.6-878.6	67716	6.4	2.3	88.9	2.4	16.7	5.5	.920	Slight		
SBR72-880	878.6-879.6	67717	4.5	1.3	92.6	1.6	11.9	3.1	.915	Slight		
SBR72-881	879.6-880.6	67718	7.0	.4	90.7	1.9	18.5	1.0	.911	None		
SBR72-882	880.6-881.7	67719	13.0	.4	83.8	2.8	34.4	.8	.906	None		
SBR72-883	881.7-883.3	67720	11.8	.5	85.7	2.0	31.3	1.2	.901	None		
SBR72-884	883.3-884.4	67721	8.6	.6	89.1	1.7	22.7	1.4	.906	None		
SBR72-885	884.4-885.4	67722	8.8	.6	88.8	1.8	22.9	1.4	.915	None		
SBR72-886	885.4-886.4	67723	15.3	.6	80.8	3.3	40.4	1.4	.908	None		
SBR72-887	886.4-887.4	67724	7.9	.2	90.2	1.7	20.8	.6	.904	None		
SBR72-888	887.4-888.4	67725	7.6	.8	89.9	1.7	20.3	1.9	.903	None		
SBR72-889	888.4-889.4	67726	5.6	.8	92.5	1.1	14.7	1.8	.913	None		
SBR72-890	889.4-890.4	67727	4.3	.9	93.6	1.2	11.2	2.2	.926	None		
SBR72-891	890.4-891.4	67728	4.4	1.2	93.3	1.1	11.5	2.9	.925	None		
SBR72-892	891.4-892.4	67729	5.9	1.0	91.6	1.5	15.5	2.4	.916	None		
SBR72-893	892.4-893.5	67730	10.3	.6	87.0	2.1	26.7	1.4	.923	Slight		
SBR72-894	893.5-894.6	67731	4.3	.9	94.0	.8	11.1	2.2	.923	Slight		
SBR72-895	894.6-895.8	67732	3.2	2.0	93.8	1.0	8.4	4.8	.924	None		
SBR72-896	895.8-897.0	67733	1.5	2.6	95.1	.8	4.0a	6.2		None		
SBR72-897	897.0-898.0	67734	2.5	1.5	95.9	.1	6.4	3.6	.924	None		
SBR72-898	898.0-899.0	67735	7.2	.8	91.9	.1	19.0	1.9	.902	None		
SBR72-899	899.0-900.0	67736	3.3	1.1	94.4	1.2	8.6	2.6	.907	None		
SBR72-900	900.0-901.3	67737	3.8	1.7	93.8	.7	10.2	4.1	.904	None		
SBR72-901	901.3-902.6	67738	12.2	.9	84.9	2.0	32.0	2.2	.912	Slight		
SBR72-902	902.6-903.8	67739	4.1	.6	93.5	1.8	10.6	1.6	.925	None		

See footnote at end of table.

Core samples received January 4, 1972; Assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Gulf Mineral Resources Company's Gulf Evacuation Corehole No. 3 (con.)

Surface elevation 5,433 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
SBR72-903	905.0-906.8	67740	6.2	1.3	91.1	1.4	16.3	3.1	0.912	None	
SBR72-904	906.8-907.8	67741	18.9	1.2	76.8	3.1	49.3	2.9	.919	Medium	
SBR72-905	907.8-909.3	67742	3.6	1.0	94.4	1.0	9.3	2.4	.926	None	
SBR72-906	909.3-910.3	67743	2.3	2.2	94.7	.8	5.8	5.3	.943	None	
SBR72-907	910.3-911.3	67744	1.2	2.0	95.8	1.0	3.0a	4.8		None	
SBR72-908	911.3-912.3	67745	1.5	2.1	95.8	.6	4.0a	5.0		None	
SBR72-909	912.3-913.3	67746	4.1	1.5	93.4	1.0	10.5	3.6	.925	None	
SBR72-910	913.3-914.9	67747	10.4	.7	86.2	2.7	27.1	1.8	.918	Slight	
SBR72-911	914.9-915.9	67748	5.5	1.1	92.2	1.2	14.4	2.6	.915	None	
SBR72-912	915.9-917.5	67749	4.0	2.2	92.8	1.0	10.3	5.3	.917	None	
SBR72-913	917.5-919.2	67750	4.0	2.6	91.9	1.5	10.4	6.2	.927	None	
SBR72-914	919.2-920.2	67751	3.0	1.1	94.9	1.0	7.8	2.6	.935	None	
SBR72-915	920.2-921.2	67752	1.4	1.7	96.3	.6	3.5a	4.1		None	
SBR72-916	922.5-923.2	67753	1.9	1.1	96.6	.4	5.0a	2.6		None	
SBR72-917	923.2-924.2	67754	2.5	.5	95.8	1.2	6.4	1.1	.939	None	
SBR72-918	924.2-925.2	67755	1.8	1.1	95.1	2.0	4.6a	2.6		None	
SBR72-919	925.2-926.2	67756	1.9	1.7	95.4	1.0	4.7	4.1	.947	None	
SBR72-920	926.2-927.3	67757	3.0	1.5	93.1	2.4	7.6	3.6	.939	None	
SBR72-921	927.3-928.7	67758	1.7	1.7	95.9	.7	4.3a	4.1		None	
SBR72-922	928.7-930.0	67759	3.8	1.5	93.1	1.6	9.8	3.6	.933	None	
SBR72-923	930.0-931.0	67760	2.1	1.4	95.1	1.4	5.4	3.4	.929	None	
SBR72-924	931.0-932.0	67761	2.6	1.0	95.5	.9	6.9	2.4	.892	None	
SBR72-925	932.0-933.0	67762	2.6	1.8	94.8	.8	6.7	4.3	.906	None	
SBR72-926	933.0-934.0	67763	1.9	1.8	95.4	.9	5.0a	4.3		None	
SBR72-927	934.0-935.0	67764	2.4	2.7	94.1	.8	6.3	6.5	.897	None	
SBR72-928	935.0-936.0	67765	3.0	2.0	94.3	.7	8.0	4.8	.903	None	
SBR72-929	936.0-937.0	67766	3.1	1.8	94.5	.6	8.2	4.3	.906	None	
SBR72-930	937.0-938.0	67767	3.3	1.5	94.3	.9	8.7	3.6	.902	None	
SBR72-931	938.0-939.0	67768	4.1	.9	94.1	.9	10.9	2.2	.892	None	
SBR72-932	939.0-939.9	67769	4.4	1.1	93.5	1.0	11.8	2.6	.894	None	

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

Core samples received January 4, 1972; Assays made on air-dried samples