

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Bureau of Mines' Wyoming Corehole No. 8 located NW1/4NE1/4
(1,047 feet S/N and 2,095 feet W/E) of sec 1, T 23 N, R 110 W, Sweetwater County, Wyoming

Surface elevation 6,398 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	Water
SBR73-6587-620	0 -170						No oil			
SBR73-6621	170 -175						Trace			
SBR73-6622-38	175 -260						No oil			
SBR73-6639	260 -265	82718	0.6	2.3	96.3	0.8	1.5a	5.5		None
SBR73-6640	265 -270	82719	.9	2.5	95.5	1.1	2.4a	6.0		None
SBR73-6641	270 -275	82720	.9	2.8	95.0	1.3	2.4a	6.7		None
SBR73-6642	275 -280	82721	1.2	2.6	94.8	1.4	3.0a	6.2		None
SBR73-6643	280 -285	82722	.0	2.9	96.1	1.0	.1a	7.0		None
SBR73-6644	285 -290	82723	.4	2.0	96.8	.8	1.0a	4.8		None
SBR73-6645	290 -295	82724	.2	2.7	95.8	1.3	.4a	6.5		Slight
SBR73-6646	295 -300	82725	.4	3.0	95.2	1.4	1.1a	7.2		Slight
SBR73-6647-55	300 -350						No oil			335-340 missing
SBR73-6656	350 -355.0	82726	1.5	2.6	94.2	1.7	4.0a	6.2		None
SBR73-6657	355.0-355.8	82727	10.0	2.1	84.6	3.3	26.6	5.0	0.904	None
SBR73-6658	355.8-356.8	82728	7.3	2.0	88.4	2.3	19.3	4.8	.908	None
SBR73-6659	356.8-357.8	82729	3.4	2.5	92.3	1.8	9.0	6.0	.904	None
SBR73-6660	357.8-358.7	82730	5.4	3.1	90.0	1.5	14.4	7.4	.909	None
SBR73-6661	358.7-359.7	82731	8.2	2.2	88.1	1.5	21.9	5.3	.896	None
SBR73-6662	359.7-360.9	82732	.2	1.6	98.0	.2	.4a	3.8		None
SBR73-6663	360.9-362.0	82733	6.9	2.2	89.2	1.7	18.1	5.3	.913	None
SBR73-6664	362.0-363.2	82734	5.7	1.6	91.5	1.2	15.0	3.8	.910	None
SBR73-6665	363.2-364.7	82735	.5	.7	97.8	1.0	1.2a	1.7		None
SBR73-6666	364.7-365.2	82736	2.5	1.5	95.3	.7	6.6	3.6	.915	None
SBR73-6667	365.2-366.1	82737	.0	4.4	94.6	1.0	No oil	10.5		None
SBR73-6668	366.1-366.9	82738	4.3	2.2	91.5	2.0	11.2	5.3	.928	None
SBR73-6669	366.9-367.7	82739	.2	1.2	98.3	.3	.6a	2.9		None
SBR73-6670	367.7-370.0	82740	.1	.4	99.2	.3	.2a	1.0		None
SBR73-6671	372.0-375.0	82741	.0	.5	99.3	.2	No oil	1.1		None
SBR73-6672	375.0-376.0	82742	.1	.3	98.8	.8	.2a	.8		None
SBR73-6673	376.0-377.1	82743	.0	1.0	98.1	.9	No oil	2.4		None

See footnote at end of table.

Core and Drill cutting samples received October 4, 1972; Assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Bureau of Mines' Wyoming Corehole No. 8 (cont.)

Surface elevation 6,398 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
SBR73-6674	377.1-379.0	82744	.0	0.5	99.1	0.4	No oil	1.2	None	
SBR73-6675	379.0-380.5	82745	.0	1.0	98.5	.5	No oil	2.3	None	
SBR73-6676	380.5-381.3	82746	.4	1.1	98.2	.3	1.1a	2.6	None	
SBR73-6677	381.3-382.1	82747	.0	.5	99.1	.4	No oil	1.2	None	
SBR73-6678	382.1-383.0	82748	.4	.2	98.8	.6	1.0a	1.5	None	
SBR73-6679	383.0-385.1	82749	.0	.2	99.3	.5	No oil	.6	None	
SBR73-6680	385.1-387.2	82750	.0	.1	98.7	1.2	No oil	.1	None	
SBR73-6681	387.2-388.2	82751	.3	.5	98.7	.5	.9a	1.2	None	
SBR73-6682	388.2-390.0	82752	.0	.3	99.2	.5	No oil	.6	None	
SBR73-6683	390.0-392.0	82753	.0	.3	98.3	1.4	No oil	.8	None	
SBR73-6684	392.0-393.5	82754	.0	.0	99.1	.1	No oil	0	None	
SBR73-6685	393.5-395.0	82755	.0	.0	99.8	.2	No oil	0	None	
SBR73-6686	395.0-397.0	82756	.0	.2	99.7	.1	No oil	.5	None	
SBR73-6687	397.0-397.5	82757	.0	.2	99.5	.3	No oil	.4	None	
SBR73-6688	397.5-400.0	82758	.0	.0	99.8	.2	No oil	0	None	
SBR73-6689	400.0-403.5	82759	.0	.3	99.7	0	No oil	.7	None	
SBR73-6690	403.5-407.0	82760	.0	.4	99.5	.1	No oil	1.0	None	
SBR73-6691	407.0-410.0	82761	.0	.4	99.6	0	No oil	1.0	None	
SBR73-6692	410.0-413.5	82762	.0	.5	99.5	0	Trace	1.1	None	
SBR73-6693	415.0-418.0	82763	.1	.5	99.2	.2	.3a	1.1	None	
SBR73-6694	418.0-420.0	82764	.0	.1	99.5	.4	No oil	.3	None	
SBR73-6695	420.0-421.0	82765	.1	.7	99.0	.2	.3a	1.7	None	
SBR73-6696	421.0-422.0	82766	.7	.6	98.1	.6	1.7a	1.4	None	
SBR73-6697	422.0-423.0	82767	.2	.9	98.4	.5	.4a	2.3	None	
SBR73-6698	423.0-424.0	82768	.4	2.0	97.1	.5	1.2a	4.8	None	
SBR73-6699	424.0-425.0	82769	.4	1.4	97.6	.6	1.1a	3.4	None	
SBR73-6700	425.0-426.0	82770	.4	1.6	97.7	.3	.9a	3.8	None	
SBR73-6701	426.0-428.5	82771	.0	1.6	97.9	.5	.1a	3.7	None	
SBR73-6702	428.5-430.0	82772	.8	1.1	97.4	.7	2.0a	2.6	None	
SBR73-6703	430.0-431.0	82773	.8	.7	97.9	.6	2.0a	1.8	None	

See footnote at end of table.

Core and Drill cutting samples received October 4, 1972; Assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Bureau of Mines' Wyoming Corehole No. 8 (cont.)

Surface elevation 6,398 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	
SBR73-6704	431.0-433.0	82774	.0	0.5	99.2	0.3	0.1a	1.1	None	
SBR73-6705	433.0-434.4	82775	.1	.4	98.9	.6	.3a	1.0	None	
SBR73-6706	435.0-438.0	82776	.1	.4	98.9	.5	.3a	1.1	None	
SBR73-6707	438.0-440.8	82777	.4	.3	98.8	.5	.6a	1.1	None	
SBR73-6708	440.8-442.0	82778	.1	.2	99.3	.4	.2a	.5	None	
SBR73-6709	442.0-443.1	82779	.4	.4	98.8	.4	1.2a	1.0	None	
SBR73-6710	443.1-444.2	82780	1.8	1.8	95.6	.8	4.8a	4.2	None	
SBR73-6711	444.2-445.2	82781	4.0	2.0	93.1	.9	10.3	4.8	0.922	None
SBR73-6712	445.2-446.2	82782	4.5	1.4	92.4	1.7	11.8	3.4	.922	None
SBR73-6713	446.2-447.4	82783	1.5	1.6	96.4	.5	3.9a	3.8	None	
SBR73-6714	447.4-448.7	82784	1.6	1.5	96.2	.7	4.2a	3.8	None	
SBR73-6715	448.7-450.1	82785	1.7	1.3	95.8	1.2	4.3a	3.1	None	
SBR73-6716	450.1-453.5	82786	.0	.8	98.4	.8	No oil	1.8	None	
SBR73-6717	453.5-457.0	82787	.0	1.3	98.4	.3	.1a	3.1	None	
SBR73-6718	457.0-458.9	82788	.1	2.0	97.2	.7	.3a	4.8	None	
SBR73-6719	458.9-460.3	82789	.5	3.1	95.8	.6	1.4a	7.4	None	
SBR73-6720	460.3-461.5	82790	3.2	1.6	93.4	1.8	8.2	3.8	.925	None
SBR73-6721	461.5-462.7	82791	1.5	1.4	95.9	1.2	4.0a	3.4	None	
SBR73-6722	462.7-464.1	82792	2.1	1.3	95.2	1.4	5.4	3.2	.929	None
SBR73-6723	464.1-465.0	82793	4.6	1.7	91.7	2.0	11.9	4.1	.915	None
SBR73-6724	465.0-466.5	82794	.2	3.2	95.6	1.0	.4a	7.8	None	
SBR73-6725	466.5-467.5	82795	2.0	1.5	95.4	1.1	5.1a	3.6	None	
SBR73-6726	467.5-468.5	82796	2.6	1.8	94.4	1.2	6.9	4.3	.912	None
SBR73-6727	468.5-470.0	82797	14.4	2.6	78.8	4.2	38.2	6.2	.902	None
SBR73-6728	470.0-471.6	82798	2.8	.5	95.1	1.6	7.1	1.2	.929	None
SBR73-6729	471.6-472.6	82799	4.7	1.0	92.1	2.2	12.2	2.4	.925	None
SBR73-6730	472.6-473.6	82800	3.7	.7	93.8	1.8	9.5	1.8	.926	None
SBR73-6731	473.6-475.2	82801	2.5	.8	95.3	1.4	6.6	1.8	.922	None
SBR73-6732	475.2-475.7	82802	2.8	.2	95.3	1.7	7.3	.6	.924	None
SBR73-6733	475.7-476.7	82803	7.3	1.2	88.7	2.8	19.0	2.9	.921	None

See footnote at end of table.

Core and Drill cutting samples received October 4, 1972; Assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Bureau of Mines' Wyoming Corehole No. 8 (cont.)

Surface elevation 6,398 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	Water			
SBR73-6734	476.7-478.0	82804	12.3	1.6	82.1	4.0	32.5	3.8	0.905	None	
SBR73-6735	478.0-479.3	82805	3.3	.8	94.4	1.5	8.8	1.8	.903	None	
SBR73-6736	479.3-480.7	82806	4.4	.5	93.5	1.6	11.5	1.2	.906	None	
SBR73-6737	480.7-481.7	82807	8.6	1.5	87.5	2.4	22.7	3.6	.905	None	
SBR73-6738	481.7-482.5	82808	14.4	2.0	79.6	4.0	38.0	4.8	.910	None	
SBR73-6739	482.5-483.4	82809	6.3	.9	90.6	2.2	16.6	2.2	.915	None	
SBR73-6740	483.4-484.8	82810	1.6	.4	96.8	1.2	4.3a	1.0		None	
SBR73-6741	484.8-486.2	82811	2.0	.5	96.0	1.5	5.1a	1.3		None	
SBR73-6742	486.2-487.2	82812	11.1	1.2	84.0	3.7	29.4	2.9	.904	None	
SBR73-6743	487.2-488.1	82813	12.5	1.2	82.8	3.5	33.3	2.9	.900	None	
SBR73-6744	488.1-489.1	82814	6.3	.8	90.9	2.0	16.7	1.9	.902	Slight	
SBR73-6745	489.1-490.1	82815	4.0	.6	94.2	1.2	10.6	1.3	.908	None	
SBR73-6746	490.1-491.1	82816	18.4	2.2	73.8	5.6	48.7	5.3	.906	Moderate	
SBR73-6747	491.1-492.1	82817	11.7	1.6	83.1	3.6	31.0	3.7	.907	Slight	
SBR73-6748	492.1-493.2	82818	1.8	.3	97.1	.8	4.7a	.7		None	
SBR73-6749	493.2-494.2	82819	2.8	.5	95.8	.9	7.4	1.1	.918	Slight	
SBR73-6750	494.2-496.2	82820	.7	.6	98.0	.7	1.9a	1.3		None	0.2 ft. missing
SBR73-6751	496.2-497.3	82821	2.5	.6	95.6	1.3	6.3	1.6	.935	None	
SBR73-6752	497.3-498.1	82822	15.3	2.0	78.0	4.7	40.3	4.8	.911	Slight	
SBR73-6753	498.1-499.3	82823	7.2	1.3	88.6	2.9	18.8	3.2	.913	None	
SBR73-6754	499.3-500.5	82824	1.3	.4	97.5	.8	3.5a	.8		None	
SBR73-6755	500.5-501.3	82825	2.4	.6	95.8	1.2	6.4	1.3	.914	None	
SBR73-6756	501.3-502.3	82826	4.6	.8	92.5	2.1	11.8	1.9	.924	None	
SBR73-6757	502.3-503.5	82827	10.8	1.7	85.0	2.5	28.6	4.1	.904	None	
SBR73-6758	503.5-505.2	82828	8.6	1.2	86.9	3.3	22.4	2.9	.918	None	
SBR73-6759	505.2-506.6	82829	1.5	.4	97.4	.7	3.9a	1.0		None	
SBR73-6760	506.6-508.4	82830	13.5	1.6	81.5	3.4	35.7	3.8	.907	None	
SBR73-6761	508.4-509.0	82831	10.6	1.6	85.6	2.2	28.0	3.8	.907	None	
SBR73-6762	509.0-509.8	82832	1.8	.6	96.8	.8	4.8a	1.4		None	
SBR73-6763	509.8-510.8	82833	8.5	1.2	87.0	3.3	22.7	2.9	.898	None	

See footnote at end of table.

Core and Drill cutting samples received October 4, 1972; Assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Bureau of Mines' Wyoming Corehole No. 8 (cont.)

Surface elevation 6,398

Sample number		Run No.	Yield of product				Specific gravity		Properties of spent shale	Remarks	
			Weight percent		Spent shale	Gas + loss	Gal per ton				of oil at 60°/60° F
Laramie	Their		Oil	Water					Oil	Water	
SBR73-6764	510.8-511.8	82834	11.1	1.4	83.0	4.5	29.6	3.4	0.899	None	
SBR73-6765	511.8-512.6	82835	4.2	1.0	93.4	1.4	11.2	2.4	.900	None	
SBR73-6766	512.6-513.6	82836	1.8	.8	96.3	1.1	4.6a	1.9		None	
SBR73-6767	513.6-514.8	82837	6.3	1.4	90.3	2.0	16.6	3.4	.905	None	
SBR73-6768	514.9-515.6	82838	3.2	.6	95.3	.9	8.6	1.6	.882	None	Main tuff
SBR73-6769	515.6-516.5	82839	5.8	.9	91.5	1.8	15.2	2.0	.916	None	
SBR73-6770	516.5-518.1	82840	1.6	.5	97.2	.7	4.1a	1.3		None	
SBR73-6771	518.1-519.2	82841	3.8	.8	93.9	1.5	10.0	1.8	.916	None	
SBR73-6772	519.2-520.3	82842	6.5	1.2	89.3	3.0	17.1	2.9	.907	None	
SBR73-6773	520.3-521.4	82843	4.4	1.0	93.0	1.6	11.6	2.4	.906	None	
SBR73-6774	521.4-523.0	82844	3.4	.9	94.5	1.2	8.8	2.2	.919	None	
SBR73-6775	523.0-524.5	82845	2.2	1.3	95.5	1.0	5.7	3.1	.915	None	
SBR73-6776	524.5-525.9	82846	2.8	.7	95.3	1.2	7.2	1.8	.929	None	
SBR73-6777	525.9-527.0	82847	.2	.2	96.7	2.9	.4a	.6		None	
SBR73-6778	527.0-528.2	82848	2.3	.7	96.7	.3	6.0	1.7	.924	None	
SBR73-6779	528.2-529.2	82849	3.0	.9	95.2	.9	7.7	2.2	.920	None	
SBR73-6780	529.2-530.2	82922	3.2	1.0	93.9	1.9	8.5	2.4	.917	None	
SBR73-6781	530.2-531.2	82850	6.8	2.6	88.2	2.4	18.0	6.2	.901	None	
SBR73-6782	531.2-532.2	82851	8.5	1.2	86.6	3.7	22.5	2.9	.905	None	
SBR73-6783	532.2-533.2	82852	7.9	1.6	87.3	3.2	21.0	3.8	.906	None	
SBR73-6784	533.2-534.2	82853	6.4	1.1	90.1	2.4	16.7	2.6	.909	None	
SBR73-6785	534.2-535.3	82854	1.5	2.9	94.4	1.2	3.8a	7.0		None	
SBR73-6786	535.3-537.0	82855	2.4	1.0	94.9	1.7	6.4	2.3	.921	None	
SBR73-6787	537.0-538.2	82856	5.9	1.0	90.5	2.6	15.6	2.4	.908	None	
SBR73-6788	538.2-539.2	82857	9.0	1.4	86.6	3.0	23.9	3.4	.903	None	
SBR73-6789	539.2-540.5	82858	5.2	1.6	91.1	2.1	13.7	3.8	.901	None	
SBR73-6790	540.5-541.7	82859	3.2	2.4	92.3	2.1	8.4	5.8	.912	None	
SBR73-6791	541.7-543.0	82860	4.1	3.6	90.5	1.8	10.8	8.6	.905	None	
SBR73-6792	543.0-544.2	82861	5.0	1.0	91.5	2.5	13.2	2.4	.906	None	
SBR73-6793	544.2-545.4	82862	3.1	.9	94.4	1.6	8.2	2.2	.913	None	

See footnote at end of table.

Core and Drill cutting samples received October 4, 1972; Assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Bureau of Mines' Wyoming Corehole No. 8 (cont.)

Surface elevation 6,398 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	Water			
SBR73-6794	545.4-546.6	82863	1.7	0.6	96.3	1.4	4.4a	1.6		None	
SBR73-6795	546.6-547.6	82864	1.3	.4	97.1	1.2	3.5a	.8		None	
SBR73-6796	547.6-549.0	82865	1.8	.5	96.6	1.1	4.8a	1.2		None	
SBR73-6797	549.0-550.0	82866	2.5	.5	95.8	1.2	6.6	1.2	0.914	None	
SBR73-6798	550.0-551.0	82867	4.7	1.6	91.7	2.0	12.3	4.0	.910	None	
SBR73-6799	551.0-552.1	82868	11.4	4.7	80.6	3.3	30.1	11.3	.905	Slight	
SBR73-6800	552.1-553.8	82869	16.4	2.1	76.9	4.6	43.9	5.0	.898	Slight	
SBR73-6801	553.8-555.0	82870	7.0	5.2	84.6	3.2	18.6	12.5	.904	None	
SBR73-6802	555.0-556.0	82871	2.6	1.1	94.9	1.4	7.0	2.5	.906	None	
SBR73-6803	556.0-557.1	82872	1.7	.8	96.7	.8	4.5a	1.8		None	
SBR73-6804	557.1-558.2	82873	1.9	.6	95.9	1.6	4.8a	1.4		None	
SBR73-6805	558.2-559.9	82874	9.4	1.8	86.3	2.5	24.9	4.2	.908	None	
SBR73-6806	559.9-560.9	82875	7.2	4.5	85.3	3.0	18.9	10.8	.911	None	
SBR73-6807	560.9-562.0	82876	1.4	2.8	94.3	1.5	3.6a	6.7		None	
SBR73-6808	562.0-563.2	82877	1.9	.5	96.2	1.4	4.9a	1.2		None	
SBR73-6809	563.2-564.3	82878	13.3	1.7	81.5	3.5	35.1	4.2	.906	None	
SBR73-6810	564.3-565.4	82879	14.8	2.1	79.3	3.8	39.0	5.0	.910	None	
SBR73-6811	565.4-566.4	82880	3.7	1.7	92.1	2.5	9.8	4.1	.914	None	
SBR73-6812	566.4-567.4	82881	1.4	3.1	93.3	2.2	3.7a	7.4		None	
SBR73-6813	567.4-568.4	82882	1.6	3.2	93.3	1.9	4.2a	7.7		None	
SBR73-6814	568.4-569.4	82883	1.9	.6	95.9	1.6	5.0a	1.4		None	
SBR73-6815	569.4-570.4	82957	11.9	1.1	83.9	3.1	31.6	2.6	.904	None	
SBR73-6816	570.4-571.5	82885	13.3	1.6	81.8	3.3	35.6	3.8	.897	None	
SBR73-6817	571.5-572.5	82886	12.6	2.6	80.8	4.0	33.3	6.2	.908	None	
SBR73-6818	572.5-573.5	82887	9.8	6.0	81.1	3.1	25.8	14.4	.908	None	
SBR73-6819	573.5-574.8	82888	2.7	2.0	93.9	1.4	7.9	4.8	.918	None	
SBR73-6820	575.0-575.5	82889	1.2	3.0	95.0	.8	3.0a	7.2		None	
SBR73-6821	575.5-576.5	82890	3.6	2.5	90.8	3.1	9.5	6.0	.904	None	
SBR73-6822	576.5-577.4	82891	17.8	2.9	74.7	4.6	47.2	7.0	.907	None	
SBR73-6823	577.4-578.4	82892	19.0	2.7	74.2	4.1	50.1	6.5	.907	None	

See footnote at end of table.

Core and Drill cutting samples received October 4, 1972; Assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Bureau of Mines' Wyoming Corehole No. 8 (cont.)

Surface elevation 6,398 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	Water	Oil	Water		
SBR73-6824	578.4-579.1	82893	11.7	1.9	82.9	3.5	30.9	4.6	0.908	None	
SBR73-6825	579.1-579.8	82894	6.2	1.6	90.0	2.2	16.4	3.8	.911	None	
SBR73-6826	579.8-581.5	82895	1.2	.7	96.9	1.2	3.3a	1.7		None	
SBR73-6827	581.5-583.0	82896	1.7	.6	96.7	1.0	4.4a	1.4		None	
SBR73-6828	583.0-584.6	82897	13.4	1.4	78.9	6.3	34.9	3.4	.918	None	
SBR73-6829	584.6-585.3	82898	4.7	.8	92.7	1.8	12.4	1.8	.918	None	
SBR73-6830	585.3-587.1	82899	.6	.7	97.8	.9	1.6a	1.7		None	
SBR73-6831	587.1-588.2	82900	1.1	.7	97.3	.9	2.9a	1.7		None	
SBR73-6832	588.2-589.4	82901	1.0	.7	97.3	1.0	2.7a	1.7		None	
SBR73-6833	589.4-590.5	82902	.6	.6	98.3	.5	1.5a	1.4		None	
SBR73-6834	590.5-591.1	82903	1.9	1.2	95.6	1.3	5.1a	2.9		None	
SBR73-6835	591.1-592.0	82904	14.7	2.0	79.1	4.2	38.6	4.8	.914	None	
SBR73-6836	592.0-593.2	82905	1.6	1.0	96.2	1.2	4.1a	2.4		None	
SBR73-6837	593.2-594.4	82906	1.1	.7	97.4	.8	2.8a	1.8		None	
SBR73-6838	594.4-595.4	82907	2.0	.9	95.9	1.2	5.1a	2.3		None	(594.8-595.0 missing)
SBR73-6839	595.4-597.0	82908	11.5	1.5	83.9	3.1	30.7	3.6	.900	None	
SBR73-6840	597.0-598.2	82909	2.6	1.0	94.8	1.6	6.9	2.4	.907	None	
SBR73-6841	598.2-599.2	82910	1.8	1.0	96.0	2.2	2.1a	2.4		None	
SBR73-6842	599.2-600.2	82911	6.6	1.5	89.1	2.8	17.4	3.6	.908	None	
SBR73-6843	600.2-601.2	82912	6.6	1.5	89.0	2.9	17.5	3.6	.906	None	
SBR73-6844	601.2-602.1	82913	4.2	1.4	92.6	1.8	11.2	3.4	.908	None	
SBR73-6845	602.1-603.9	82914	.9	1.5	96.7	.9	2.3a	3.6		None	
SBR73-6846	603.9-604.9	82915	1.6	.9	96.2	1.3	4.2a	2.2		None	
SBR73-6847	604.9-606.5	82916	7.2	1.5	88.5	2.8	18.8	3.6	.916	None	
SBR73-6848	606.5-607.5	82917	3.3	1.6	93.3	1.8	8.5	3.8	.923	None	
SBR73-6849	607.5-608.2	82918	.1	1.9	97.2	.8	.3a	4.6		None	
SBR73-6850	608.2-609.1	82919	1.9	1.5	94.8	1.8	5.0a	3.6		None	
SBR73-6851	609.1-610.6	82920	.6	1.0	97.5	.9	1.6a	2.4		None	
SBR73-6852	610.6-611.6	82921	3.0	2.1	92.8	2.1	7.7	5.0	.929	None	
SBR73-6853	611.6-612.8	82922	.0	3.3	96.0	.7	.1a	7.9		None	

See footnote at end of table.

Core and Drill cutting samples received October 4, 1972; Assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Bureau of Mines' Wyoming Corehole No. 8 (cont.)

Surface elevation 6,398 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	Water			
SBR73-6854	612.8-614.0	82924	0.3	4.8	93.8	1.1	0.8a	11.5		None	
SBR73-6855	614.0-615.0	82925	6.9	1.6	88.8	2.7	18.0	3.8	0.921	None	
SBR73-6856	615.0-616.1	82926	4.4	.9	92.1	2.6	11.3	2.3	.927	None	
SBR73-6857	616.1-617.2	82927	4.6	2.1	91.1	2.2	12.0	5.0	.916	None	
SBR73-6858	617.2-618.7	82928	1.9	1.8	95.0	1.3	4.9a	4.4		None	
SBR73-6859	618.7-620.0	82929	1.3	1.7	95.5	1.5	3.3a	4.1		None	
SBR73-6860	620.0-621.2	82930	7.9	1.5	86.8	3.8	20.9	3.6	.906	None	
SBR73-6861	621.2-623.0	82931	2.5	2.1	93.9	1.5	6.6	5.0	.915	None	
SBR73-6862	623.0-624.0	82932	.6	1.5	97.1	.8	1.5a	3.6		None	
SBR73-6863	624.0-625.0	82933	1.1	2.0	96.0	.9	2.9a	4.8		None	
SBR73-6864	625.0-625.5	82934	8.4	1.1	88.0	2.5	22.0	2.6	.917	None	
SBR73-6865	625.5-626.5	82935	4.0	1.3	92.8	1.9	10.9	3.1	.918	None	
SBR73-6866	626.5-627.5	82936	1.8	1.8	94.7	1.7	4.7a	4.3		None	
SBR73-6867	627.5-628.5	82937	2.3	1.5	94.6	1.6	5.9	3.6	.925	None	
SBR73-6868	628.5-629.5	82938	.6	1.1	97.6	.7	1.5a	2.6		None	
SBR73-6869	629.5-631.3	82939	.1	6.1	92.9	.9	.2a	14.7		None	
SBR73-6870	631.3-633.3	82940	.0	4.9	94.3	.8	.1a	11.7		None	
SBR73-6871	633.3-634.6	82941	.0	1.1	98.1	.8	No oil	2.6		None	
SBR73-6872	634.6-635.6	82942	.6	1.1	97.0	1.3	1.7a	2.6		None	
SBR73-6873	635.6-637.4	82943	.6	2.4	88.7	2.9	15.7	5.8	.918	None	
SBR73-6874	637.4-638.4	82944	2.3	1.3	94.6	1.8	6.0a	3.1		None	
SBR73-6875	638.4-639.9	82945	4.7	2.0	91.2	2.1	12.5	4.8	.908	None	
SBR73-6876	639.9-641.4	82946	3.8	1.7	92.8	1.7	9.9	4.1	.924	None	
SBR73-6877	641.4-642.6	82947	2.8	1.6	93.8	1.8	7.2	3.8	.927	None	
SBR73-6878	642.6-643.7	82948	3.0	1.7	93.8	1.5	7.7	4.1	.925	None	
SBR73-6879	643.7-644.7	82949	1.0	.8	97.2	1.0	2.6a	1.9		None	
SBR73-6880	644.7-645.5	82950	1.6	2.3	95.0	1.1	4.3a	5.5		None	
SBR73-6881	645.5-646.0	82951	8.4	1.0	88.3	2.3	21.8	2.4	.923	None	
SBR73-6882	646.0-647.0	82952	.9	1.0	96.7	1.4	2.3a	2.5		None	
SBR73-6883	647.0-648.5	82953	5.8	1.9	89.7	2.6	15.2	4.6	.921	None	

See footnote at end of table.

Core and Drill cutting samples received October 4, 1972; Assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Bureau of Mines' Wyoming Corehole No. 8 (cont.)

Surface elevation 6,398 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			
SBR73-6884	648.5-650.0	82954	0.1	1.5	98.3	0.1	0.2a	3.6		None		
SBR73-6885	650.0-651.6	82955	2.8	2.3	93.7	1.2	7.2	5.5	0.920	None		
SBR73-6886	651.6-653.0	82956	.0	1.2	98.4	.4	No oil	2.8		None		
SBR73-6887	653.0-654.5	82958	.0	1.3	98.0	.7	No oil	3.2		None		
SBR73-6888	654.5-655.5	82959	.4	1.9	97.2	.5	.9a	4.6		None		
SBR73-6889	655.5-656.4	82960	13.5	2.1	80.6	3.8	35.1	5.0	.920	None		
SBR73-6890	656.4-657.8	82961	3.4	1.5	93.8	1.3	8.8	3.6	.924	None		
SBR73-6891	657.8-659.2	82962	2.2	1.0	96.0	.8	5.8	2.3	.922	None		
SBR73-6892	659.2-660.2	82963	3.7	2.0	92.8	1.5	9.6	4.8	.920	None		
SBR73-6893	660.2-662.0	82964	.9	1.4	96.8	.9	2.3a	3.4		None		
SBR73-6894	662.0-665.0	82965	.0	1.0	98.9	.1	No oil	2.4		None		
SBR73-6895	665.0-668.0	82966	.0	1.2	98.4	.4	No oil	2.9		None		
SBR73-6896	668.0-671.0	82967	.0	1.2	98.4	.4	No oil	2.9		None		
SBR73-6897	671.0-674.0	82968	.0	1.4	98.2	.4	No oil	3.3		None		
SBR73-6898	674.0-677.0	82969	.0	2.0	97.8	.2	No oil	4.7		None		
SBR73-6899	677.0-678.0	82970	.0	2.3	97.3	.4	No oil	5.4		None		
SBR73-6900	678.0-680.5	82971	.0	1.9	98.0	.1	No oil	4.6		None		
SBR73-6901	680.5-683.0	82972	.0	2.4	97.3	.3	No oil	5.8		None		
SBR73-6902	683.0-684.2	82973	.0	2.1	97.6	.3	No oil	5.0		None		
SBR73-6903	684.2-686.2	82974	.0	.4	97.6	2.0	No oil	.9		None		
SBR73-6904	686.2-687.9	82975	.0	2.4	97.2	.4	No oil	5.7		None		
SBR73-6905	687.9-688.6	82976	2.2	2.6	94.2	1.0	5.8	6.2	.914	None		
SBR73-6906	688.6-690.2	82977	.0	.4	99.0	.6	No oil	.9		None		
SBR73-6907	690.2-691.9	82978	.0	.1	99.4	.5	No oil	.3		None		
SBR73-6908	691.9-693.0	82979	3.1	2.1	93.8	1.0	8.1	5.0	.910	None		
SBR73-6909	693.0-694.0	82980	1.4	3.1	94.7	.8	3.7a	7.4		None		
SBR73-6910	694.0-695.0	82981	2.2	2.0	94.8	1.0	5.9	4.8	.911	None		
SBR73-6911	695.0-696.0	82982	2.6	2.0	93.4	2.0	6.9	4.8	.921	None		
SBR73-6912	696.0-697.0	82983	1.0	2.4	95.7	.9	2.9a	5.8		None		
SBR73-6913	697.0-698.0	82984	1.0	2.0	96.2	.8	2.7a	4.8		None		

See footnote at end of table.

Core and Drill cutting samples received October 4, 1972; Assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Bureau of Mines' Wyoming Corehole No. 8 (cont.)

Surface elevation 6,398 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	1/ Oil	Water	coke	
SBR73-6914	698.0-698.8	82985	3.6	1.8	93.1	1.5	9.4	4.3	0.915	None
SBR73-6915	698.8-699.6	82986	1.9	2.0	95.2	.9	4.9a	4.8		None
SBR73-6916	699.6-700.2	82987	2.0	3.8	93.3	.9	5.1a	9.1		None
SBR73-6917	700.2-701.2	82988	1.8	2.5	94.8	.9	4.6a	6.0		None
SBR73-6918	701.2-702.2	82989	.8	1.8	96.7	.7	2.1a	4.3		None
SBR73-6919	702.2-703.3	82990	.0	1.2	98.4	.4	.1a	2.6		None
SBR73-6920	703.3-704.4	82991	1.4	2.0	95.9	.7	3.6a	4.8		None
SBR73-6921	704.4-705.9	82992	3.1	3.0	92.5	1.4	8.0	7.2	.917	None
SBR73-6922	705.9-706.9	82993	1.9	2.6	94.8	.7	4.9a	6.2		None
SBR73-6923	706.9-707.9	82994	11.7	3.2	81.3	3.8	30.7	7.8	.916	None
SBR73-6924	707.9-709.4	82995	1.3	1.5	95.7	1.5	3.4a	3.6		None
SBR73-6925	709.4-710.0	82996	10.0	2.4	84.6	3.0	26.3	5.8	.913	None
SBR73-6926	710.0-710.8	82997	4.6	2.0	91.7	1.7	12.1	4.8	.916	None
SBR73-6927	710.8-712.6	82998	1.0	1.5	96.4	1.1	2.5a	3.6		None
SBR73-6928	712.6-713.6	82999	4.6	2.4	91.5	1.5	12.0	5.8	.911	None
SBR73-6929	713.6-714.6	83000	5.2	3.0	89.7	2.1	13.7	7.2	.906	None
SBR73-6930	714.6-715.7	83001	2.7	1.9	94.2	1.2	7.2	4.6	.906	None
SBR73-6931	715.7-716.7	83002	2.5	3.0	93.1	1.4	6.6	7.2	.900	None
SBR73-6932	716.7-717.7	83003	2.8	3.0	92.6	1.6	7.5	7.2	.903	None
SBR73-6933	717.7-719.0	83004	.7	2.0	96.3	1.0	1.8a	4.8		None
SBR73-6934	719.0-720.3	83005	1.1	2.7	95.2	1.0	2.8a	6.5		None
SBR73-6935	720.3-721.6	83006	.1	3.8	95.1	1.0	.3a	9.1		None
SBR73-6936	721.6-724.0	83007	.0	2.4	96.6	1.0	No oil	5.9		None
	724.0-775.0									BARREN ROCK NOT SAMPLED

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 October 4, 1972; Assays made on air-dried samples