

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from United States Bureau of Mines Green River No. 1-1 Corehole drilled in NW1/4NE1/4NE1/4 of sec 24, T 18 N, R 107 W, Sweetwater County, Wyoming

Surface elevation - Approx. 6200 Ground

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		Gas + loss	Gal per ton				
Laramie	Their		Oil	Water		Spent shale		Oil ^{1/}	Water	
SBR67-5847	0- 5	24173	0.0	3.0	96.8	0.2	Trace	7.1	None	
SBR67-5848	5- 10	24174	.0	4.5	95.4	.1	No Oil	10.8	None	
SBR67-5849	10- 15	24175	.0	4.1	95.8	.1	Trace	9.8	None	
SBR67-5850	15- 20	24176	1.0	1.7	96.6	.7	2.6a	4.1	None	
SBR67-5851	20- 25	24177	1.4	2.6	95.1	.9	3.8a	6.2	None	
SBR67-5852	25- 30	24178	1.6	1.4	95.9	1.1	4.1a	3.4	None	
SBR67-5853	30- 35	24179	1.4	1.7	96.1	.8	3.8a	4.1	None	
SBR67-5854	35- 40	24180	3.7	1.7	91.9	2.7	9.8	4.0	0.917	None
SBR67-5855	40- 45	24181	5.1	.9	92.4	1.6	13.4	2.2	.913	None
SBR67-5856	45- 50	24182	1.8	1.6	95.8	.8	4.7a	3.8		None
SBR67-5857	50- 55	24183	5.0	1.9	91.1	2.0	13.0	4.6	.920	None
SBR67-5858	55- 60	24184	.1	2.1	97.1	.7	.1a	5.2		None
SBR67-5859	60- 65	24185	.0	2.9	96.8	.3	Trace	7.0		None
SBR67-5860	65- 70	24186	.0	2.5	97.3	.2	Trace	6.1		None
SBR67-5861	70- 75	24187	.1	2.6	96.6	.7	.2a	6.4		None
SBR67-5862	75- 80	24188	.2	4.2	95.1	.5	.5a	10.1		None
SBR67-5863	80- 85	24189	.1	4.2	95.2	.5	.2a	10.2		None
SBR67-5864	85- 90	24190	.6	3.7	94.6	1.1	1.6a	8.9		None
SBR67-5865	90- 95	24191	.2	3.8	94.9	1.1	.4a	9.1		None
SBR67-5866	95-100	24192	2.6	1.5	93.6	2.3	6.7	3.6	.925	None
SBR67-5867	100-105	24193	6.3	2.4	89.2	2.1	16.2	5.8	.923	None
SBR67-5868	105-110	24194	.3	4.6	94.9	.2	.6a	11.0		None
SBR67-5869	110-115	24195	.1	5.8	93.0	1.1	.2a	13.9		None
SBR67-5870	115-120	24196	2.0	2.8	94.2	1.0	5.2a	6.7		None
SBR67-5871	120-125	24197	.0	1.8	97.0	1.2	No Oil	4.3		None
SBR67-5872	125-130	24198	.1	2.5	96.9	.5	.2a	6.0		None
SBR67-5873	130-135	24199	.3	2.8	96.0	.9	.8a	6.7		None
SBR67-5874	135-140	24200	1.9	2.8	92.8	2.5	5.1a	6.7		None
SBR67-5875	140-145	24201	.1	3.3	95.6	1.0	.3a	7.9		None
SBR67-5876	145-150	24202	.0	4.8	94.6	.6	Trace	11.4		None

See footnotes at end of table.

Core and drill cutting samples received May 24, 1967; Assays made on air dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from United States Bureau of Mines Green River No. 1-1 Corehole (con.)

Surface elevation - Approx. 6200 Ground

Sample number		Run No.	Yield of product						Specific gravity of oil at 60°/60° F	Properties of spent shale Tendency to coke	Remarks
			Weight percent			Gal per ton					
Laramie	Their		Oil	Water	Spent shale	Gas + loss	Oil ^{1/}	Water			
SBR67-5877	150-155	24203	1.7	3.8	93.0	1.5	4.5a	9.1		None	
SBR67-5878	155-160	24204	.9	3.1	94.5	1.5	2.4a	7.4		None	
SBR67-5879	160-165	24205	1.7	2.4	95.0	.9	4.4a	5.8		None	
SBR67-5880	165-170	24206	2.5	2.2	94.2	1.1	6.6	5.3	0.917	None	
SBR67-5881	170-175	24207	1.9	2.0	95.1	1.0	5.0a	4.8		None	
SBR67-5882	175-180	24208	1.2	2.9	94.7	1.2	3.1a	7.0		None	
SBR67-5883	180-185	24209	4.6	2.0	91.4	2.0	11.9	4.8	.922	None	
SBR67-5884	185-190	24210	.6	2.7	95.1	1.6	1.6a	6.5		None	
SBR67-5885	190-195	24211	.6	2.4	95.7	1.3	1.6a	5.8		None	
SBR67-5886	195-200	24212	1.2	1.3	96.0	1.5	3.0a	3.1		None	
SBR67-5887	200-205	24213	.9	1.6	96.3	1.2	2.4a	3.8		None	
SBR67-5888	205-210	24214	1.0	1.8	96.2	1.0	2.6a	4.3		None	
SBR67-5889	210-215	24215	.6	1.9	96.2	1.3	1.4a	4.6		None	
SBR67-5890	215-220	24216	.1	2.4	96.3	1.2	.2a	5.8		None	
SBR67-5891	220-225	24217	.2	2.8	96.0	1.0	5.0a	6.7		None	
SBR67-5892	225-230	24218	.2	2.8	96.4	.6	.6a	6.7		None	
SBR67-5893	230-235	24219	.6	1.7	96.9	.8	1.6a	4.1		None	
SBR67-5894	235-240	24220	.3	2.4	96.3	1.0	.7a	5.9		None	
SBR67-5895	240-245	24221	.1	3.7	95.3	.9	.2a	8.9		None	
SBR67-5896	245-250	24222	.4	3.3	95.4	.9	1.1a	7.9		None	
SBR67-5897	250-255	24223	3.6	1.9	92.7	1.8	9.4	4.6	.915	None	
SBR67-5898	255-260	24224	2.1	2.0	94.5	1.4	5.5	4.7	.924	None	
SBR67-5899	260-265	24225	2.4	2.5	93.7	1.4	6.4	6.0	.915	None	
SBR67-5900	265-270	24226	3.9	1.1	93.0	2.0	10.0a	2.6		None	
SBR67-5901	270-275	24227	1.6	1.6	95.3	1.5	4.2a	3.8		None	
SBR67-5902	275-280	24228	1.9	.9	93.3	3.9	5.1a	2.2		None	
SBR67-5903	280-285	24229	2.0	.6	95.7	1.7	5.1a	1.6		None	
SBR67-5904	285-290	24230	1.3	1.1	96.9	.7	3.5a	2.6		None	
SBR67-5905	290-295	24231	2.9	.9	94.6	1.6	7.6	2.3	.909	None	
SBR67-5906	295-300	24232	1.5	1.3	96.0	1.2	3.9a	3.0		None	

See footnotes at end of table.

Core and drill cutting samples received May 24, 1967; Assays made on air dried samples

OIL-SHALE SAMPLES BY MODIFIED FISCHER RETORT METHOD

Samples from United States Bureau of Mines Green River No. 1-1 Corehole (con.)

Surface elevation - Approx. 6200 Ground

Sample number			Run No.	Yield of product						Specific gravity of oil at 60°/60° F	Properties of spent shale Tendency to coke	Remarks
				Weight percent			Gal per ton					
Laramie	Their			Oil	Water	Spent shale	Gas + loss	Oil ^{1/}	Water			
SBR67-5907	300	-305	24233	2.5	0.7	94.7	2.1	6.5	1.7	0.920	None	
SBR67-5908	305	-310	24234	3.6	.8	93.9	1.7	9.3	1.9	.917	None	
SBR67-5909	310	-315	24235	3.8	.8	93.2	2.2	9.9	2.0	.923	None	
SBR67-5910	315	-320	24236	5.1	.9	91.4	2.6	13.3	2.2	.913	None	
SBR67-5911	320	-325	24237	3.4	1.0	93.8	1.8	8.9	2.4	.914	None	
SBR67-5912	325	-330	24240	5.1	.9	92.3	1.7	13.4	2.0	.915	None	
SBR67-5913	330	-335	24241	.3	2.4	96.9	.4	.9a	5.8		None	
SBR67-5914	335	-340	24242	2.2	1.4	95.6	.8	5.8	3.4	.916	None	
SBR67-5915	340	-345	24243	3.6	1.0	94.4	1.0	9.3	2.4	.917	None	
SBR67-5916	345	-350	24244	1.2	1.4	96.7	.7	3.2a	3.2		None	
SBR67-5917	350	-355	24245	3.2	1.4	94.3	1.1	8.4	3.4	.913	None	
SBR67-5918	355	-360	24246	1.7	1.2	96.6	.5	4.4a	2.9		None	End of Cuttings
SBR67-5919	360.0-361.0		24247	13.0	1.7	83.0	2.3	33.8	4.2	.920	None	
SBR67-5920	361.0-361.3		24248	12.6	1.7	82.6	3.1	32.8	4.1	.917	None	
SBR67-5921	361.3-361.5		24249	11.6	1.7	82.3	4.4	30.3	4.1	.915	None	
SBR67-5922	361.5-362.5		24250	12.2	1.5	81.7	4.6	31.6	3.6	.924	None	
SBR67-5923	362.5-363.5		24251	12.3	1.5	82.1	4.1	32.3	3.6	.915	None	
SBR67-5924	363.5-363.9		24252	10.4	1.2	83.9	4.5	27.2	2.9	.913	None	
SBR67-5925	363.9-364.9		24253	10.6	.9	83.3	5.2	27.6	2.2	.918	None	
SBR67-5926	364.9-365.9		24254	8.1	1.7	86.8	3.4	21.2	4.1	.918	None	
SBR67-5927	365.9-366.4		24255	7.6	1.1	87.9	3.4	19.8	2.6	.920	None	
SBR67-5928	366.4-367.4		24256	5.0	.9	91.4	2.7	13.2	2.3	.900	None	
SBR67-5929	367.4-368.4		24257	7.1	1.6	88.6	2.7	18.8	3.8	.904	None	
SBR67-5930	368.4-369.4		24258	6.3	2.0	89.4	2.3	16.7	4.8	.907	None	
SBR67-5931	369.4-370.4		24259	5.2	2.0	89.9	2.9	13.6	4.8	.907	None	
SBR67-5932	370.4-371.4		24260	8.0	1.9	86.7	3.4	20.8	4.6	.920	None	
SBR67-5933	371.4-372.4		24261	9.6	2.2	84.4	3.8	25.0	5.3	.920	None	
SBR67-5934	372.4-373.2		24262	8.7	1.7	84.8	4.8	22.5	4.1	.924	None	
SBR67-5935	373.2-374.2		24263	7.2	1.5	87.6	3.7	18.5	3.6	.930	None	
SBR67-5936	374.2-375.2		24264	7.3	1.3	86.7	4.7	18.7	3.1	.933	None	

See footnotes at end of table.

Core and drill cutting samples received May 24, 1967; Assays made on air dried samples

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Surface elevation - Approx. 6200 Ground

Sample number		Run No.	Yield of product				Specific gravity of oil at 60°/60° F	Properties of spent shale		Remarks
			Weight percent		Gal per ton			Tendency to		
Laramie	Their		Oil	Water	Spent shale	Gas + loss	Oil ^{1/}	Water	coke	
SBR67-5937	375.2-375.9	24265	5.2	1.4	89.9	3.5	13.2	3.4	None	
SBR67-5938	375.9-376.0	24266	4.7	2.6	90.0	2.7	11.9	6.3	None	
SBR67-5939	376.0-377.1	24267	5.6	2.3	88.8	3.3	14.1	5.5	None	
SBR67-5940	377.1-377.3	24268	4.2	2.5	89.3	4.0	10.7	5.9	None	
SBR67-5941	377.3-377.8	24269	9.3	1.5	84.9	4.3	24.0	3.6	None	
SBR67-5942	377.8-378.8	24270	11.1	2.0	83.1	3.8	29.0	4.8	None	
SBR67-5943	378.8-379.4	24271	10.5	2.2	83.2	4.1	27.2	5.3	None	
SBR67-5944	379.4-380.4	24272	9.0	2.2	84.9	3.9	23.3	5.3	None	
SBR67-5945	380.4-380.9	24273	10.1	2.4	83.5	4.0	26.2	5.8	None	
SBR67-5946	380.9-381.5	24274	9.2	2.2	84.4	4.2	23.5	5.3	None	
SBR67-5947	382.6-383.7	24275	8.0	2.4	87.3	2.3	20.2	5.8	None	
SBR67-5948	383.7-384.7	24276	6.9	1.8	88.1	3.2	17.6	4.3	None	
SBR67-5949	384.7-385.6	24277	8.4	1.0	87.6	3.0	21.6	2.5	None	
SBR67-5950	385.6-386.6	24278	10.7	1.5	84.6	3.2	27.9	3.7	Slight	
SBR67-5951	386.6-387.6	24279	12.4	1.3	83.9	2.4	32.8	3.2	None	
SBR67-5952	387.6-388.6	24280	13.7	1.9	79.9	4.5	35.8	4.6	None	
SBR67-5953	388.6-389.0	24281	8.5	2.4	87.5	1.6	22.4	5.6	None	
SBR67-5954	389.0-389.3	24282	8.4	2.4	87.3	1.9	22.0	5.7	None	
SBR67-5955	389.3-389.9	24283	8.2	2.6	87.6	1.6	21.7	6.2	None	
SBR67-5956	389.9-390.8	24284	9.1	2.8	84.9	3.2	23.9	6.7	None	
SBR67-5957	390.8-392.0	24285	5.6	2.6	89.8	2.0	14.5	6.2	None	
SBR67-5958	392.0-392.1	24286	5.9	2.3	89.8	2.0	15.4a	5.6	None	
SBR67-5959	392.1-392.4	24287	8.9	2.2	86.1	2.8	23.1	5.2	None	
SBR67-5960	392.4-392.8	24288	5.6	1.7	89.0	3.7	14.4	4.1	None	
SBR67-5961	392.8-393.8	24289	10.3	1.7	84.4	3.6	26.7	4.0	None	
SBR67-5962	393.8-394.7	24290	11.7	2.4	82.7	3.2	30.4	5.8	None	
SBR67-5963	394.7-395.7	24291	5.3	2.0	90.5	2.2	13.7	4.8	None	
SBR67-5964	395.7-395.9	24292	4.2	1.8	92.0	2.0	11.0	4.3	None	
SBR67-5965	395.9-396.8	24293	7.0	1.1	89.7	2.2	18.3	2.6	None	
SBR67-5966	396.8-397.2	24294	9.5	1.3	87.0	2.2	24.9	3.1	None	

See footnotes at end of table.

Core and drill cutting samples received May 24, 1967; Assays made on air dried samples

OIL-SHALE SAMPLES BY MODIFIED FISCHER RETORT METHOD

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Surface elevation - Approx. 6200 Ground

Sample number	Run No.	Yield of product						Specific gravity of oil at 60°/60° F	Properties of spent shale Tendency to coke	Remarks	
		Weight percent			Gal per ton						
Laramie	Their	Oil	Water	Spent shale	Gas + loss	Oil ^{1/}	Water				
SBR67-5967	397.2-397.3	24295	9.9	1.3	86.1	2.7	25.8	3.0	0.917	None	
SBR67-5968	397.3-398.3	24296	8.3	2.4	87.5	1.8	21.7	5.8	.914	None	
SBR67-5969	398.3-398.8	24297	6.3	2.6	89.7	1.4	16.6	6.2	.911	None	
SBR67-5970	398.8-399.1	24298	3.4	2.1	92.7	1.8	9.1	5.0	.897	None	
SBR67-5971	399.1-399.8	24299	4.8	1.4	92.0	1.8	12.9	3.4	.898	None	
SBR67-5972	399.8-399.9	24300	4.4	.7	93.5	1.4	11.7	1.8	.893	None	
SBR67-5973	399.9-400.0	24301	4.0	.7	91.9	3.4	10.4a	1.6		None	
SBR67-5974	400.0-401.0	24302	2.6	2.2	94.2	1.0	6.9	5.3	.902	None	
SBR67-5975	401.0-402.0	24303	2.4	1.4	94.4	1.8	6.4	3.4	.903	None	
SBR67-5976	402.0-403.0	24304	1.7	1.6	95.1	1.6	4.4a	3.8		None	
SBR67-5977	403.0-404.0	24305	1.7	1.6	95.0	1.7	4.5a	3.8		None	
SBR67-5978	404.0-405.0	24306	7.7	1.0	88.9	2.4	19.7	2.4	.928	None	
SBR67-5979	405.0-406.0	24307	6.2	1.0	90.0	2.8	16.0	2.4	.925	None	
SBR67-5980	406.0-407.0	24308	5.9	.7	90.7	2.7	15.5	1.8	.912	None	
SBR67-5981	407.0-407.5	24309	6.3	1.8	89.2	2.7	16.5	4.2	.923	None	
SBR67-5982	407.5-407.7	24310	2.3	.8	95.3	1.6	5.9	1.9	.934	None	
SBR67-5983	407.7-407.8	24311	4.1	2.2	91.3	2.4	10.8	5.2	.922	None	
SBR67-5984	407.8-407.9	24312	.4	.2	98.3	1.1	1.2a	.5		None	
SBR67-5985	407.9-408.4	24313	2.9	1.5	94.4	1.2	7.4	3.6	.921	None	
SBR67-5986	408.4-408.6	24314	1.4	3.2	93.7	1.7	3.8a	7.8		None	
SBR67-5987	408.6-409.0	24315	4.2	2.4	91.6	1.8	11.1	5.8	.911	None	
SBR67-5988	409.0-409.5	24316	2.0	1.6	94.4	2.0	5.1a	4.0		None	
SBR67-5989	409.5-410.5	24317	3.6	2.0	92.8	1.6	9.4	4.8	.907	None	
SBR67-5990	410.5-411.5	24318	3.4	2.1	93.0	1.5	8.9	5.0	.906	None	
SBR67-5991	411.5-412.3	24319	3.2	1.4	93.8	1.6	8.3	3.4	.914	None	
SBR67-5992	412.3-412.4	24320	6.8	2.8	89.7	.7	18.3	6.6	.891	None	
SBR67-5993	412.4-413.0	24321	3.8	1.6	92.6	2.0	10.2	3.8	.900	None	
SBR67-5994	413.0-414.0	24322	4.1	1.8	91.8	2.3	10.8	4.3	.905	None	
SBR67-5995	414.0-415.0	24323	4.4	1.9	91.1	2.6	11.6	4.6	.905	None	
SBR67-5996	415.0-416.0	24324	6.4	1.5	89.1	3.0	17.2	3.5	.894	None	

See footnotes at end of table.

Core and drill cutting samples received May 24, 1967; Assays made on air dried samples

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Sample number Laramie	Their	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		
			Oil	Water					Oil ^{1/}	Water
SBR67-5997	416.0-416.3	24325	6.0	1.0	90.2	2.8	16.1	2.4	0.900	None
SBR67-5998	416.3-416.7	24326	1.0	2.7	95.0	1.3	2.7a	6.5		None
SBR67-5999	416.7-417.7	24327	3.8	2.2	92.2	1.8	10.2	5.3	.893	None
SBR67-6000	417.7-418.7	24328	4.9	3.5	88.3	3.3	13.2	8.4	.899	None
SBR67-6001	418.7-418.9	24329	4.4	2.1	91.5	2.0	11.7	5.1	.896	None
SBR67-6002	418.9-419.0	24330	4.1	2.2	91.8	1.9	11.1	5.2	.892	None
SBR67-6003	419.0-419.3	24331	.8	3.8	94.3	1.1	2.1a	9.1		None
SBR67-6004	419.3-419.4	24332	3.0	2.5	93.1	1.4	7.7a	5.9		None
SBR67-6005	419.4-420.4	24333	6.2	2.4	89.1	2.3	16.5	5.8	.901	None
SBR67-6006	420.4-421.5	24334	5.7	2.6	89.0	2.7	15.1	6.2	.903	None
SBR67-6007	421.5-422.2	24335	1.2	1.5	95.9	1.4	3.0a	3.6		None
SBR67-6008	422.2-422.4	24336	.2	2.6	95.0	2.2	.6a	6.2		None
SBR67-6009	422.4-422.5	24337	.0	.9	97.0	2.1	No Oil	2.1		None
SBR67-6010	422.5-422.8	24338	.4	3.2	95.6	.8	1.0a	7.7		None
SBR67-6011	422.8-423.8	24339	.1	1.6	97.4	.9	.1a	4.0		None
SBR67-6012	423.8-424.2	24340	.0	1.4	97.8	.8	Trace	3.4		None
SBR67-6013	424.2-424.5	24341	.4	2.8	95.5	1.3	1.0a	6.7		None
SBR67-6014	424.5-424.9	24342	.0	3.0	96.2	.8	Trace	7.2		None
SBR67-6015	424.9-425.0	24343	.5	1.2	96.8	1.5	1.2a	2.9		None
SBR67-6016	425.0-425.5	24344	.2	3.2	95.4	1.2	.5a	7.7		None
SBR67-6017	425.5-425.6	24345	.3	1.7	96.7	1.3	.8a	4.1		None
SBR67-6018	425.6-426.6	24346	.0	1.2	98.0	.8	No Oil	2.8		None
SBR67-6019	426.6-427.3	24347	.0	1.1	98.4	.5	No Oil	2.5		None
SBR67-6020	427.3-428.3	24348	.0	.5	99.0	.5	No Oil	1.3		None
SBR67-6021	428.3-429.3	24349	.0	.8	98.9	.3	Trace	1.8		None
SBR67-6022	429.3-429.9	24350	.0	1.1	98.6	.3	Trace	2.5		None
SBR67-6023	429.9-431.0	24351	.1	2.2	97.5	.2	.1a	5.3		None
SBR67-6024	431.0-431.8	24352	.3	3.7	94.5	1.5	.7a	9.0		None
SBR67-6025	431.8-432.5	24353	.2	1.4	97.6	.8	.6a	3.4		None
SBR67-6026	432.5-433.5	24354	1.7	3.6	93.5	1.2	4.5a	8.5		None

See footnotes at end of table.

Core and drill cutting samples received May 24, 1967; Assays made on air dried samples

OIL-SHALE SAMPLES BY MODIFIED FISCHER RETORT METHOD

Samples from United States Bureau of Mines Green River No. 1-1 Corehole (con.)

Surface elevation - Approx. 6200 Ground

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			
SBR67-6027	433.5-434.0	24355	1.8	2.4	94.7	1.1	4.8a	5.6	None	
SBR67-6028	434.0-434.3	24356	4.9	1.9	91.0	2.2	13.3	4.5	0.893	None
SBR67-6029	434.3-434.5	24357	5.4	2.1	90.0	2.5	14.1a	5.0		None
SBR67-6030	434.5-434.8	24358	5.3	2.1	90.4	2.2	14.1	5.0	.895	None
SBR67-6031	434.8-435.1	24359	5.3	2.8	88.9	3.0	14.0	6.7	.903	None
SBR67-6032	435.1-435.2	24360	5.5	2.3	87.2	5.0	14.5	5.5	.909	None
SBR67-6033	435.2-436.1	24361	4.9	1.7	91.2	2.2	13.1	4.1	.902	None
SBR67-6034	436.1-437.1	24362	3.3	1.5	93.2	2.0	8.8	3.5	.905	None
SBR67-6035	437.1-437.4	24363	3.6	2.2	92.3	1.9	9.4	5.3	.906	None
SBR67-6036	437.4-438.4	24364	2.2	1.8	94.2	1.8	5.9	4.3	.899	None
SBR67-6037	438.4-439.4	24365	3.0	1.8	93.2	2.0	8.1	4.3	.898	None
SBR67-6038	439.4-440.4	24366	4.3	2.4	91.3	2.0	11.4	5.8	.896	None
SBR67-6039	440.4-441.4	24367	3.2	2.4	92.3	2.1	8.6	5.8	.898	None
SBR67-6040	441.4-441.9	24368	3.0	2.4	93.0	1.6	7.9	5.8	.901	None
SBR67-6041	441.9-442.9	24369	3.4	4.0	90.5	2.1	8.8	9.6	.909	None
SBR67-6042	442.9-443.9	24370	2.6	1.6	93.7	2.1	6.7	3.8	.909	None
SBR67-6043	443.9-444.7	24371	2.4	1.7	94.0	1.9	6.4	4.1	.905	None
SBR67-6044	446.1-447.1	24372	2.8	3.0	92.6	1.6	7.5	7.2	.891	None
SBR67-6045	447.1-448.1	24373	2.6	2.3	93.0	2.1	7.0	5.5	.899	None
SBR67-6046	448.1-449.1	24374	2.7	2.6	93.2	1.5	7.2	6.2	.894	None
SBR67-6047	449.1-450.1	24375	3.1	3.0	91.6	2.3	8.3	7.2	.893	None
SBR67-6048	450.1-450.3	24376	4.5	2.4	89.8	3.3	12.0	5.7	.895	None
SBR67-6049	450.3-451.3	24377	5.8	3.4	87.0	3.8	15.7	8.1	.892	None
SBR67-6050	451.3-452.3	24378	3.3	3.7	90.8	2.2	8.7	8.9	.895	None
SBR67-6051	452.3-452.6	24379	3.5	4.2	89.6	2.7	9.4	10.1	.896	None
SBR67-6052	452.6-453.6	24380	6.4	3.2	87.4	3.0	16.6	7.7	.931	None
SBR67-6053	453.6-454.6	24381	5.2	3.8	88.1	2.9	13.6	9.1	.921	None
SBR67-6054	454.6-454.8	24382	5.8	2.9	88.9	2.4	15.1	7.0	.913	None
SBR67-6055	454.8-455.5	24383	3.9	2.0	92.1	2.0	10.3	4.8	.914	None
SBR67-6056	455.5-456.2	24384	5.8	2.8	87.9	3.5	15.0	6.7	.932	None

See footnotes at end of table.

Core and drill cutting samples received May 24, 1967; Assays made on air dried samples

OIL-SHALE SAMPLES BY MODIFIED FISCHER RETORT METHOD

Samples from United States Bureau of Mines Green River No. 1-1 Corehole (con.)

Surface elevation - Approx. 6200 Ground

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	
SBR67-6057	456.2-457.3	24385	4.2	3.2	89.8	2.8	11.0	7.7	None	
SBR67-6058	457.3-457.5	24386	7.6	4.2	85.4	2.8	19.6	10.1	None	
SBR67-6059	457.5-457.9	24387	2.8	.8	95.4	1.0	7.5	1.9	None	
SBR67-6060	457.9-458.1	24388	3.6	2.3	92.3	1.8	9.6	5.5	None	
SBR67-6061	458.1-458.3	24389	9.3	2.2	85.4	3.1	24.3	5.3	None	
SBR67-6062	458.3-458.4	24390	10.7	2.5	83.2	3.6	27.7	5.9	None	
SBR67-6063	458.4-459.0	24391	12.1	2.2	82.9	2.8	31.8	5.3	None	
SBR67-6064	460.3-460.5	24392	8.7	2.7	85.0	3.6	22.6	6.4	None	
SBR67-6065	460.5-460.7	24393	7.7	2.2	87.1	3.0	20.0	5.3	None	
SBR67-6066	460.7-461.0	24394	5.7	2.4	89.1	2.8	14.6	5.8	None	
SBR67-6067	461.0-462.0	24395	7.3	2.6	87.1	3.0	18.8	6.2	None	
SBR67-6068	462.0-463.0	24396	7.5	1.9	86.4	4.2	19.3	4.6	None	
SBR67-6069	463.0-464.0	24397	7.2	1.7	88.7	2.4	18.3	4.1	None	
SBR67-6070	464.0-464.4	24398	7.2	2.4	88.1	2.3	18.6	5.8	None	
SBR67-6071	464.4-465.4	24399	6.7	2.2	88.3	2.8	17.1	5.3	None	
SBR67-6072	465.4-466.4	24400	6.5	3.0	88.3	2.2	16.4	7.2	None	
SBR67-6073	466.4-467.4	24401	7.0	3.2	87.6	2.2	17.7	7.7	None	
SBR67-6074	467.4-468.4	24402	5.9	3.0	89.3	1.8	15.0	7.2	None	
SBR67-6075	468.4-469.4	24403	10.2	2.4	83.8	3.6	26.1	5.8	None	
SBR67-6076	469.4-470.5	24404	8.7	2.3	86.5	2.5	22.5	5.5	None	
SBR67-6077	470.5-470.7	24405	7.3	1.6	89.3	1.8	19.0	3.7	None	
SBR67-6078	470.7-471.7	24406	6.4	1.7	88.9	3.0	17.1	4.1	None	
SBR67-6079	471.7-472.5	24407	8.1	2.5	86.2	3.2	21.3	6.0	None	
SBR67-6080	474.5-475.5	24408	9.4	2.2	84.1	4.3	24.8	5.3	None	
SBR67-6081	475.5-475.9	24409	8.8	2.2	84.4	4.6	23.2	5.3	None	
SBR67-6082	475.9-476.9	24410	10.2	1.8	85.3	2.7	26.6	4.3	None	
SBR67-6083	476.9-477.2	24411	8.8	1.6	85.9	3.7	22.7	3.8	None	
SBR67-6084	477.2-478.2	24412	6.4	2.2	87.8	3.6	16.8	5.3	None	
SBR67-6085	478.2-478.7	24413	4.9	3.0	89.0	3.1	12.8	7.2	None	
SBR67-6086	478.7-479.7	24414	4.6	2.9	90.0	2.5	12.3	7.0	None	

Core and drill cutting samples received May 24, 1967; Assays made on air dried samples

OIL-SHALE SAMPLES BY MODIFIED FISCHER RETORT METHOD

Samples from United States Bureau of Mines Green River No. 1-1 Corehole (con.)

Surface elevation - Approx. 6200 Ground

Sample number		Run No.	Yield of product					Specific gravity of oil at 60°/60° F	Properties of spent shale		Remarks
Laramie	Their		Weight percent		Spent shale	Gas + loss	Gal per ton		Tendency to coke		
		Oil	Water					Oil ^{1/}		Water	
SBR67-6087	479.7-479.8	24415	1.7	1.5	95.4	1.4	4.5a	3.5		None	
SBR67-6088	479.8-480.6	24416	4.8	1.5	91.3	2.4	12.7	3.6	0.910	None	
SBR67-6089	480.6-481.3	24417	6.5	3.7	86.9	2.9	17.2	8.9	.912	None	
SBR67-6090	481.3-482.3	24418	9.3	2.3	84.7	3.7	24.9	5.5	.892	None	
SBR67-6091	482.3-483.4	24419	8.6	2.3	86.3	2.8	22.6	5.5	.916	None	
SBR67-6092	483.4-484.0	24420	7.5	2.0	87.5	3.0	19.6	4.8	.910	None	
SBR67-6093	484.0-485.0	24421	8.1	3.1	86.0	2.8	21.5	7.4	.906	None	
SBR67-6094	485.0-485.1	24422	8.9	2.6	85.0	3.5	23.5	6.3	.904	None	
SBR67-6095	485.1-486.0	24423	6.8	4.2	86.9	2.1	17.8	10.1	.915	None	
SBR67-6096	486.0-486.9	24424	8.1	3.0	85.3	3.6	21.6	7.2	.898	None	
SBR67-6097	486.9-487.3	24425	8.8	2.4	86.4	2.4	23.7	5.8	.894	None	
SBR67-6098	487.3-487.9	24426	5.5	3.3	88.8	2.4	14.5	7.9	.901	None	
SBR67-6099	487.9-488.9	24427	3.3	5.0	89.2	2.5	8.8	12.0	.907	None	
SBR67-6100	488.9-489.2	24428	5.5	2.8	89.1	2.6	14.7	6.7	.895	None	
SBR67-6101	489.2-489.5	24429	6.1	3.8	87.4	2.7	16.3	9.1	.900	None	
SBR67-6102	489.5-489.6	24430	6.1	2.8	87.3	3.8	16.2	6.6	.905	None	
SBR67-6103	489.6-490.1	24431	2.2	4.2	88.3	5.3	5.9	10.1	.891	None	
SBR67-6104	490.1-491.1	24432	3.7	3.7	89.4	3.2	9.8	8.9	.906	None	
SBR67-6105	491.1-491.9	24433	3.5	3.8	90.5	2.2	9.3	9.1	.896	None	
SBR67-6106	491.9-493.0	24434	5.2	4.4	89.1	1.3	14.1	10.5	.889	None	
SBR67-6107	493.0-493.4	24435	1.3	1.5	95.8	1.4	3.3a	3.6		None	
SBR67-6108	493.4-494.4	24436	.6	1.8	96.3	1.3	1.7a	4.3		None	
SBR67-6109	494.4-494.8	24437	2.4	2.4	93.5	1.7	6.4	5.9	.902	None	
SBR67-6110	494.8-495.1	24438	1.4	1.2	96.5	.9	3.5a	2.9		None	
SBR67-6111	495.1-495.5	24439	1.1	1.9	95.8	1.2	2.8a	4.6		None	
SBR67-6112	495.5-496.5	24440	1.3	3.0	94.5	1.2	3.4a	7.2		None	
SBR67-6113	496.5-497.5	24441	1.6	2.2	95.2	1.0	4.2a	5.3		None	
SBR67-6114	497.5-498.5	24442	1.7	1.5	95.4	1.4	4.4a	3.6		None	
SBR67-6115	498.5-499.5	24443	1.7	2.1	94.7	1.5	4.5a	5.0		None	
SBR67-6116	499.5-500.5	24444	1.8	1.3	94.0	2.9	4.6a	3.2		None	

See footnotes at end of table.

Core and drill cutting samples received May 24, 1967; Assays made on air dried samples

Laramie Petroleum Research Center, Laramie, Wyoming, Illustration No. SBR-4075P Sheet No. 9 of 10 sheets August 22, 1967

OIL-SHALE SAMPLES BY MODIFIED FISCHER RETORT METHOD

Samples from United States Bureau of Mines Green River No. 1-1 Corehole (con.)

Surface elevation - Approx. 6200 Ground

Sample number		Run No.	Yield of product				Specific gravity of oil at 60°/60° F	Properties of spent shale		Remarks
			Weight percent		Gal per ton			Tendency to		
Laramie	Their		Oil	Water	Spent shale	Gas + loss	Oil ^{1/}	Water	coke	
SBR67-6117	500.5-501.5	24445	1.6	2.0	94.6	1.8	4.1a	4.8	None	
SBR67-6118	501.5-502.5	24446	1.5	2.6	95.1	.8	4.0a	6.2	None	
SBR67-6119	502.5-503.2	24447	1.9	2.0	94.4	1.7	4.9a	4.8	None	

a-indicates specific gravity estimated as 0.92.

Core and drill cutting samples received May 24, 1967; Assays made on air dried samples

Laramie Petroleum Research Center, Laramie, Wyoming, Illustration No. SBR-4075P Sheet No. 10 of 10 sheets August 22, 1967