OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Garrett Research and Development Company Inc., Wyoming Corehole No. 3 drilled in SE1/4SE1/4 (750 feet N/S 730 feet W/E) of sec 11, T 16 N, R 100 W, Sweetwater County, Wyoming

Sample number		Run	Yield of product						Specific gravity of oil at 60°/60° F	Properties of spent shale	Remarks
			Weight percent				Gal per ton				
Laramie	Their	No.	Oil	Water	Spent shale	Gas + loss	Oil[1/]	Water		Tendency to coke	
SBR71-3881	300.0-301.0	57844	1.8	3.4	93.2	1.6	4.8a	8.1		None	
SBR71-3882	301.0-302.0	57845	1.1	2.1	93.3	3.5	2.9a	5.0		None	
SBR71-3883	302.0-303.0	57846	1.4	5.4	91.3	1.9	3.7a	12.9		None	
SBR71-3884	303.0-304.0	57847	1.1	4.2	88.5	6.2	2.8a	10.1		None	
SBR71-3885	304.0-305.0	57848	6.4	4.0	87.0	2.6	16.6	9.6	0.916	None	
SBR71-3886	305.0-306.0	57849	6.3	4.1	87.0	2.6	16.7	9.8	.911	None	
SBR71-3887	306.0-307.0	57850	6.4	2.9	87.7	3.0	16.8	7.0	.920	None	
SBR71-3888	307.0-308.0	57851	3.3	3.6	91.5	1.6	8.5	8.6	.926	None	
SBR71-3889	308.0-309.0	57852	2.4	3.0	93.1	1.5	6.3	7.2	.911	None	
SBR71-3890	309.0-310.0	57853	2.2	2.4	93.9	1.5	5.7	5.8	.922	None	
SBR71-3891	310.0-311.0	57854	5.8	3.0	88.3	2.9	14.8	7.2	.931	None	
SBR71-3892	311.0-312.0	57855	4.9	3.1	89.6	2.4	13.0	7.4	.911	None	
SBR71-3893	312.0-313.0	57856	3.4	2.5	92.3	1.8	8.9	6.0	.925	None	
SBR71-3894	313.0-314.0	57857	2.5	2.3	92.9	2.3	6.4	5.5	.927	None	
SBR71-3895	314.0-315.0	57858	3.0	2.5	92.9	1.6	7.6	6.0	.928	None	
SBR71-3896	315.0-316.0	57859	1.8	4.0	92.7	1.5	4.7	9.6	.924	None	
SBR71-3897	316.0-317.0	57860	2.5	3.4	92.9	1.2	6.4	8.1	.921	None	
SBR71-3898	320.0-321.0	57861	1.9	5.2	91.7	1.2	4.8a	12.5		None	
SBR71-3899	321.0-322.0	57862	12.9	4.6	77.6	4.9	32.5	11.0	.948	None	
SBR71-3900	322.0-323.0	57863	15.2	3.7	74.8	6.3	38.2	8.9	.952	None	
SBR71-3901	323.0-324.0	57864	13.4	4.5	77.0	5.1	33.9	10.8	.951	None	
SBR71-3902	324.0-325.0	57865	13.3	4.0	78.2	4.5	33.9	9.6	.942	None	
SBR71-3903	325.0-326.0	57866	3.0	2.9	92.5	1.6	7.8	7.0	.933	None	
SBR71-3904	326.0-327.0	57867	1.0	5.6	91.8	1.6	2.5a	13.4		None	
SBR71-3905	327.0-328.0	57868	1.4	4.0	92.8	1.8	3.8a	9.6		None	
SBR71-3906	328.0-329.0	57869	1.8	1.9	93.0	3.3	4.6	4.6	.922	None	
SBR71-3907	329.0-330.0	57870	2.5	4.2	91.0	2.3	6.6	10.1	.925	None	
SBR71-3908	330.0-331.0	57871	3.6	2.8	92.0	1.6	9.2	6.7	.931	None	
SBR71-3909	331.0-332.0	57872	2.8	4.6	90.8	1.8	7.3	11.0	.926	None	
SBR71-3910	332.0-333.0	57873	3.4	3.7	90.2	2.7	8.7	8.9	.936	None	

See footnote at end of table.

Core samples received February 17, 1971; Assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Garrett Research and Development Company Inc., Wyoming Corehole No. 3 (con.)

Sample number		Run	Yield of product						Specific gravity	Properties of spent shale	
			Weight percent				Gal per ton				
Laramie	Their	No.	Oil	Water	Spent shale	Gas + loss	Oil[1/]	Water	of oil at 60°/60° F	Tendency to coke	Remarks
SBR71-3911	333.0-334.0	57874	4.0	2.6	91.1	2.3	10.4	6.2	0.931	None	
SBR71-3912	334.0-335.0	57875	5.4	2.3	88.9	3.4	14.0	5.5	.920	None	
SBR71-3913	336.0-337.0	57876	5.3	3.2	88.9	2.6	13.9	7.7	.914	None	
SBR71-3914	337.0-338.0	57877	6.8	3.7	87.4	2.1	17.9	8.9	.917	None	
SBR71-3915	338.0-339.0	57878	7.1	4.0	86.7	2.2	18.6	9.6	.918	Slight	
SBR71-3916	339.0-340.0	57879	9.2	2.8	85.0	3.0	24.3	6.7	.910	None	
SBR71-3917	340.0-341.0	57880	6.5	2.4	88.4	2.7	17.0	5.8	.915	None	
SBR71-3918	341.0-342.0	57881	5.4	1.5	88.9	4.2	14.2a	3.6		None	
SBR71-3919	342.0-343.0	57882	11.8	2.8	80.9	4.5	30.1	6.7	.937	None	
SBR71-3920	343.0-344.0	57883	12.4	3.1	79.7	4.8	31.8	7.4	.938	None	
SBR71-3921	344.0-345.0	57884	9.3	3.6	82.8	4.3	24.0	8.6	.925	None	
SBR71-3922	345.0-346.0	57885	4.0	3.2	91.1	1.7	10.6	7.7	.914	None	
SBR71-3923	346.0-347.0	57886	6.0	2.2	88.4	3.4	15.4	5.3	.936	None	
SBR71-3924	347.0-348.0	57887	6.4	2.4	88.6	2.6	16.4	5.8	.929	None	
SBR71-3925	348.0-349.0	57888	5.2	2.1	90.0	2.7	13.4	5.2	.927	None	
SBR71-3926	349.0-350.0	57889	4.5	1.6	92.1	1.8	11.6	3.8	.930	None	
SBR71-3927	350.0-351.0	57890	5.6	1.8	91.3	1.3	14.4	4.2	.934	None	
SBR71-3928	351.0-352.0	57891	8.0	2.4	87.8	1.8	20.6	5.8	.928	None	
SBR71-3929	352.0-353.0	57892	7.4	2.4	87.3	2.9	19.3	5.8	.918	None	
SBR71-3930	353.0-354.0	57893	7.0	1.7	87.8	3.5	18.1	4.1	.927	None	
SBR71-3931	354.0-355.3	57894	6.6	2.2	88.8	2.4	17.1	5.3	.921	None	
SBR71-3932	356.0-357.0	57895	5.9	4.2	88.6	1.3	15.3	10.1	.927	None	
SBR71-3933	357.0-358.0	57896	5.8	3.4	89.8	1.0	14.9	8.1	.934	None	
SBR71-3934	358.0-359.0	57897	7.9	3.5	86.8	1.8	20.5	8.4	.924	None	
SBR71-3935	359.0-360.0	57898	9.8	2.1	85.0	3.1	25.6a	5.0		None	
SBR71-3936	360.0-361.0	57899	8.3	2.4	86.4	2.9	21.8	5.9	.908	None	
SBR71-3937	361.0-362.0	57900	7.4	2.9	87.0	2.7	19.5	7.0	.909	None	
SBR71-3938	362.0-363.0	57901	8.2	2.6	86.8	2.4	21.6	6.2	.906	None	
SBR71-3939	363.0-364.0	57902	9.0	2.9	84.0	4.1	23.3	7.0	.926	None	
SBR71-3940	364.0-366.0	57903	7.2	2.9	87.6	2.3	18.9	7.0	.920	None	

See footnote at end of table.

Core samples received February 17, 1971; Assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Garrett Research and Development Company Inc., Wyoming Corehole No. 3 (con.)

Sample number		Run	Yield of product						Specific gravity of oil at 60°/60° F	Properties of spent shale	Remarks
			Weight percent				Gal per ton				
Laramie	Their	No.	Oil	Water	Spent shale	Gas + loss	Oil[1/]	Water		Tendency to coke	
SBR71-3941	367.0-368.0	57904	7.4	1.9	87.9	2.8	19.1	4.6	0.925	None	
SBR71-3942	368.0-369.0	57905	.3	.2	98.4	1.1	.8a	.5		None	
SBR71-3943	369.0-370.0	57906	.4	1.5	95.7	2.4	1.2a	3.6		None	
SBR71-3944	370.0-371.0	57907	.3	2.1	96.6	1.0	.8a	5.0		None	
SBR71-3945	371.0-372.0	57908	.6	2.7	95.5	1.2	1.4a	6.5		None	
SBR71-3946	372.0-373.0	57909	.7	2.1	95.3	1.9	1.7a	5.2		None	
SBR71-3947	373.0-374.0	57910	3.2	3.1	91.9	1.8	8.4	7.4	.930	None	
SBR71-3948	374.0-375.2	57911	7.3	2.7	86.3	3.7	19.1	6.5	.917	None	
SBR71-3949	376.0-377.0	57912	6.5	1.8	89.9	1.8	17.0	4.3	.916	None	
SBR71-3950	377.0-379.0	57913	8.7	2.0	86.9	2.4	22.9	4.8	.908	None	
SBR71-3951	379.0-380.0	57914	5.9	2.4	89.5	2.2	15.5	5.8	.909	None	
SBR71-3952	380.0-381.0	57915	5.1	1.9	91.4	1.6	13.3	4.6	.921	None	
SBR71-3953	381.0-382.0	57916	6.5	2.8	88.8	1.9	16.6	6.7	.936	None	
SBR71-3954	382.0-383.0	57917	2.5	.9	94.4	2.2	6.5	2.2	.927	None	
SBR71-3955	383.0-384.0	57918	4.8	2.7	90.6	1.9	12.5	6.5	.912	None	
SBR71-3956	384.0-385.0	57919	8.2	1.6	86.8	3.4	21.7	3.8	.909	None	
SBR71-3957	385.0-385.6	57920	5.9	2.2	89.5	2.4	15.5	5.3	.920	None	
SBR71-3958	386.0-387.0	57921	5.0	2.8	90.1	2.1	13.1	6.7	.919	None	
SBR71-3959	387.0-388.0	57922	3.8	1.7	92.7	1.8	9.9a	4.1		None	
SBR71-3960	388.0-389.0	57923	4.4	2.8	91.8	1.0	11.4a	6.7		None	
SBR71-3961	389.0-390.0	57924	2.3	5.4	91.7	.6	6.2	12.9	.911	None	
SBR71-3962	390.0-391.0	57925	4.9	2.0	90.8	2.3	12.8	4.8	.941	None	
SBR71-3963	391.0-392.0	57926	4.1	3.2	91.6	1.1	10.4	7.7	.946	None	
SBR71-3964	329.0-393.0	57927	3.2	1.7	94.3	.8	8.4	4.1	.929	None	
SBR71-3965	393.0-394.0	57928	3.9	2.4	92.5	1.2	10.2	5.8	.922	None	
SBR71-3966	394.0-395.0	57929	3.0	2.0	93.6	1.4	7.8	4.8	.921	None	
SBR71-3967	395.0-395.7	57930	3.4	1.2	94.2	1.2	8.8	2.9	.918	None	
SBR71-3968	396.0-397.0	57931	3.2	1.9	94.0	.9	8.4	4.6	.913	None	
SBR71-3969	397.0-398.0	57932	4.6	1.9	92.3	1.2	12.1	4.6	.911	None	
SBR71-3970	398.0-399.0	57933	8.1	1.4	88.7	1.8	21.5	3.4	.901	None	

See footnote at end of table.

Core samples received February 17, 1971; Assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Garrett Research and Development Company Inc., Wyoming Corehole No. 3 (con.)

Sample number		Run	Yield of product						Specific gravity	Properties of spent shale	
			Weight percent				Gal per ton				
Laramie	Their	No.	Oil	Water	Spent shale	Gas + loss	Oil[1/]	Water	of oil at 60°/60° F	Tendency to coke	Remarks
SBR71-3971	399.0-400.0	57934	6.8	1.4	89.3	2.5	17.5	3.4	0.926	None	
SBR71-3972	400.0-401.0	57935	6.6	2.0	89.0	2.4	17.1	4.8	.923	None	
SBR71-3973	401.0-402.0	57936	6.8	1.8	89.1	2.3	17.6	4.3	.928	None	
SBR71-3974	402.0-403.0	57937	3.6	1.8	93.3	1.3	9.3	4.4	.917	None	
SBR71-3975	403.0-404.0	57938	5.1	1.9	91.5	1.5	13.4	4.6	.903	None	
SBR71-3976	404.0-405.0	57939	9.2	2.1	85.8	2.9	23.6	5.0	.930	None	
SBR71-3977	405.0-405.4	57940	6.2	2.2	89.3	2.3	15.9	5.3	.933	None	
SBR71-3978	406.0-407.0	57941	7.9	.6	89.4	2.1	20.6	1.6	.918	None	
SBR71-3979	407.0-408.0	57942	16.5	2.0	76.9	4.6	44.6	4.8	.888	Slight	
SBR71-3980	408.0-409.0	57943	17.9	1.7	77.3	3.1	46.7a	4.1		Slight	
SBR71-3981	409.0-409.6	57944	11.6	1.7	84.4	2.3	30.3a	4.1		None	
SBR71-3982	409.6-410.6	57945	3.8	1.0	93.7	1.5	9.9a	2.3		None	
SBR71-3983	410.6-411.0	57946	8.1	1.2	88.7	2.0	21.2a	2.9		None	
SBR71-3984	411.0-412.0	57947	10.2	1.6	84.9	3.3	26.6a	3.8		None	
SBR71-3985	412.0-413.0	57948	9.4	1.8	85.0	3.8	24.4a	4.3		None	
SBR71-3986	413.0-415.0	57949	.0	2.0	97.1	.9	Trace	4.7		None	
SBR71-3987	460.0-462.2	57950	.2	1.7	97.1	1.0	.5a	4.1		None	
SBR71-3988	462.2-463.0	57951	7.7	1.4	87.9	3.0	20.0	3.4	.926	None	
SBR71-3989	463.0-464.0	57952	5.7	1.4	90.1	2.8	14.9	3.4	.921	None	
SBR71-3990	464.0-465.0	57953	6.0	1.0	91.7	1.3	15.8	2.4	.904	None	
SBR71-3991	465.0-466.0	57954	9.1	1.5	86.6	2.8	23.6a	3.6		None	
SBR71-3992	466.0-467.0	57955	12.8	1.5	81.9	3.8	33.3	3.6	.921	None	
SBR71-3993	467.0-468.0	57956	9.8	1.9	85.6	2.7	25.7	4.6	.918	None	
SBR71-3994	468.0-469.0	57957	7.9	1.5	88.4	2.2	20.9	3.6	.900	None	
SBR71-3995	469.0-470.0	57958	8.6	1.1	86.0	4.3	22.1	2.6	.927	None	
SBR71-3996	470.0-471.0	57959	6.1	1.5	90.0	2.4	15.6	3.6	.934	None	
SBR71-3997	471.0-472.0	57960	5.4	1.6	91.0	2.0	13.8	3.7	.937	None	
SBR71-3998	472.0-473.0	57961	8.6	1.0	86.9	3.5	21.9	2.4	.936	None	
SBR71-3999	473.0-474.0	57962	10.4	1.3	84.6	3.7	26.8	3.1	.932	None	
SBR71-4000	474.0-475.0	57963	10.1	1.6	85.1	3.2	26.0	3.8	.925	None	

See footnote at end of table.

Core samples received February 17, 1971; Assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Garrett Research and Development Company Inc., Wyoming Corehole No. 3 (con.)

Sample number		Run	Yield of product						Specific gravity	Properties of spent shale	
			Weight percent				Gal per ton				
Laramie	Their	No.	Oil	Water	Spent shale	Gas + loss	Oil[1/]	Water	of oil at 60°/60° F	Tendency to coke	Remarks
SBR71-4001	475.0-476.0	57964	10.1	1.3	84.8	3.8	26.0	3.1	0.928	None	
SBR71-4002	476.0-477.0	57965	8.5	1.1	88.0	2.4	21.7	2.6	.941	None	
SBR71-4003	477.0-477.5	57966	5.7	1.1	91.7	1.5	14.5	2.6	.939	None	
SBR71-4004	477.5-479.0	57967	.0	.9	98.5	.6	No Oil	2.2		None	
SBR71-4005	479.0-481.0	57968	.0	1.0	98.7	.3	Trace	2.4		None	
SBR71-4006	481.0-482.2	57969	3.4	1.6	93.4	1.6	8.7	3.8	.932	None	
SBR71-4007	482.2-482.7	57970	.5	.4	98.0	1.1	1.2a	1.0		None	
SBR71-4008	483.5-485.0	57971	3.7	1.1	93.4	1.8	9.4	2.6	.938	None	
SBR71-4009	485.0-486.0	57972	4.8	1.8	91.2	2.2	12.5	4.3	.927	None	
SBR71-4010	486.0-487.0	57973	4.2	1.4	92.3	2.1	11.1	3.2	.914	None	
SBR71-4011	487.0-488.0	57974	4.4	2.0	91.3	2.3	11.3	4.8	.928	None	
SBR71-4012	488.0-489.0	57975	5.9	1.4	90.3	2.4	15.3	3.2	.925	None	
SBR71-4013	489.0-490.0	57976	4.9	1.8	90.9	2.4	12.7	4.3	.917	None	
SBR71-4014	490.0-491.0	57977	7.0	1.7	89.1	2.2	18.4	4.0	.917	None	
SBR71-4015	491.0-492.0	57978	10.0	1.9	86.1	2.0	25.8	4.6	.925	None	
SBR71-4016	492.0-493.0	57979	9.6	2.4	84.8	3.2	25.0	5.8	.925	None	
SBR71-4017	493.0-494.0	57980	11.9	2.4	81.8	3.9	30.4	5.8	.941	None	
SBR71-4018	494.0-495.0	57981	11.7	2.2	81.2	4.9	29.6	5.3	.949	None	
SBR71-4019	495.0-496.0	57982	7.1	1.8	86.9	4.2	18.0	4.2	.945	None	
SBR71-4020	496.0-497.0	57983	7.7	1.2	87.1	4.0	19.9	3.0	.927	None	
SBR71-4021	497.0-498.0	57984	5.9	.7	90.2	3.2	15.5	1.6	.918	None	
SBR71-4022	498.0-499.0	57985	7.3	1.9	87.9	2.9	19.1	4.6	.921	None	
SBR71-4023	499.0-500.0	57986	7.1	2.0	88.3	2.6	18.2	4.8	.930	None	
SBR71-4024	500.0-501.0	57987	7.0	1.9	88.1	3.0	18.2	4.6	.917	None	
SBR71-4025	501.0-502.0	57988	12.8	1.9	80.9	4.4	32.8	4.6	.933	None	
SBR71-4026	502.0-503.0	57989	15.5	1.4	77.7	5.4	39.6	3.4	.940	None	
SBR71-4027	503.0-504.0	57990	4.2	1.8	92.3	1.7	10.7	4.3	.940	None	
SBR71-4028	504.0-505.0	57991	8.4	1.1	87.4	3.1	21.3	2.8	.938	None	
SBR71-4029	505.0-506.0	57992	4.3	2.4	91.8	1.5	11.2	5.6	.928	None	
SBR71-4030	506.0-507.0	57993	2.4	1.2	95.3	1.1	6.0	3.0	.939	None	

See footnote at end of table.

Core samples received February 17, 1971; Assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Garrett Research and Development Company Inc., Wyoming Corehole No. 3 (con.)

Sample number		Run	Yield of product						Specific gravity	Properties of spent shale	
			Weight percent				Gal per ton				
Laramie	Their	No.	Oil	Water	Spent shale	Gas + loss	Oil[1/]	Water	of oil at 60°/60° F	Tendency to coke	Remarks
SBR71-4031	507.0-508.0	57994	4.1	1.1	92.1	2.7	10.7	2.6	0.925	None	
SBR71-4032	508.0-509.0	57995	5.0	1.2	90.8	3.0	12.8	2.9	.930	None	
SBR71-4033	509.0-510.0	57996	5.6	1.8	90.4	2.2	14.5	4.3	.922	None	
SBR71-4034	510.0-511.0	57997	6.5	.9	89.4	3.2	16.9	2.2	.920	None	
SBR71-4035	511.0-512.0	57998	8.6	1.4	87.4	2.6	22.2	3.4	.921	None	
SBR71-4036	512.0-513.0	57999	10.5	1.5	85.1	2.9	27.0	3.6	.929	None	
SBR71-4037	513.0-514.0	58000	9.9	1.4	85.5	3.2	25.4	3.4	.932	None	
SBR71-4038	514.0-515.0	58001	6.1	1.6	89.7	2.6	15.7	3.8	.925	None	
SBR71-4039	515.0-516.0	58002	5.3	1.1	92.2	1.4	13.6	2.6	.925	None	
SBR71-4040	516.0-517.0	58003	4.6	1.7	91.7	2.0	12.3	4.1	.907	None	
SBR71-4041	517.0-517.5	58004	5.0	1.3	91.5	2.2	13.2	3.1	.911	None	
SBR71-4042	517.5-519.0	58006	.5	.5	98.4	.6	1.2a	1.3		None	
SBR71-4043	519.0-520.0	58007	2.8	1.5	94.2	1.5	7.4	3.6	.902	None	
SBR71-4044	520.0-521.0	58008	3.4	1.5	93.7	1.4	8.9	3.6	.914	None	
SBR71-4045	521.0-522.0	58009	2.4	1.6	95.1	.9	6.2	3.8	.929	None	
SBR71-4046	522.0-523.0	58010	3.7	2.0	92.9	1.4	9.6	4.8	.934	None	
SBR71-4047	523.0-524.0	58011	4.0	1.6	93.1	1.3	10.5	3.8	.914	None	
SBR71-4048	524.0-525.0	58012	3.7	1.6	93.0	1.7	9.9	3.8	.905	None	
SBR71-4049	525.0-526.0	58013	1.5	.4	96.4	1.7	3.9a	1.1		None	
SBR71-4050	526.0-527.0	58014	4.4	.8	93.1	1.7	11.3	1.9	.924	None	
SBR71-4051	527.0-528.0	58015	5.8	1.8	90.5	1.9	14.9	4.3	.926	None	
SBR71-4052	528.0-529.0	58016	4.9	2.0	91.2	1.9	12.8	4.8	.915	None	
SBR71-4053	529.0-530.0	58017	6.4	1.7	89.5	2.4	16.7	4.1	.928	None	
SBR71-4054	530.0-531.0	58018	5.7	1.6	90.5	2.2	15.0	3.7	.916	None	
SBR71-4055	531.0-532.0	58019	3.2	1.2	93.9	1.7	8.2	3.0	.932	None	
SBR71-4056	532.0-533.0	58020	4.0	1.1	92.8	2.1	10.2	2.6	.931	None	
SBR71-4057	533.0-534.0	58021	6.0	1.8	90.1	2.1	15.6	4.3	.923	None	
SBR71-4058	534.0-535.0	58022	5.7	1.1	91.2	2.0	15.2	2.5	.904	None	
SBR71-4059	535.0-536.0	58023	5.6	2.1	89.9	2.4	14.9	5.0	.910	None	
SBR71-4060	536.0-537.4	58024	9.3	2.5	85.0	3.2	23.6	6.0	.939	None	

See footnote at end of table.

Core samples received February 17, 1971; Assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Garrett Research and Development Company Inc., Wyoming Corehole No. 3 (con.)

Sample number		Run	Yield of product						Specific gravity of oil at 60°/60° F	Properties of spent shale	Remarks
			Weight percent				Gal per ton				
Laramie	Their	No.	Oil	Water	Spent shale	Gas + loss	Oil[1/]	Water		Tendency to coke	
SBR71-4061	537.4-538.0	58025	1.7	0.5	96.7	1.1	4.5a	1.2		None	
SBR71-4062	538.0-539.0	58026	.9	.6	97.7	.8	2.3a	1.6		None	
SBR71-4063	539.0-539.7	58027	.9	1.2	96.8	1.1	2.2a	3.0		None	
SBR71-4064	539.7-541.0	58028	3.7	1.6	93.4	1.3	9.6	3.8	0.927	None	
SBR71-4065	541.0-542.0	58029	3.9	1.9	92.5	1.7	10.3	4.6	.919	None	
SBR71-4066	542.0-542.6	58030	5.4	1.5	89.8	3.3	14.1	3.6	.921	None	
SBR71-4067	542.6-543.4	58031	1.2	1.2	96.0	1.6	3.1a	2.9		None	
SBR71-4068	543.4-544.0	58032	6.3	1.5	89.8	2.4	16.4	3.6	.913	None	
SBR71-4069	544.0-545.0	58033	5.6	1.1	90.6	2.7	14.5	2.6	.918	None	
SBR71-4070	545.0-546.0	58034	5.1	1.1	91.3	2.5	13.3	2.6	.918	None	
SBR71-4071	546.0-547.0	58035	10.8	1.2	85.0	3.0	28.0	2.8	.925	None	
SBR71-4072	547.0-548.0	58036	7.7	1.6	87.3	3.4	19.8	3.8	.937	None	
SBR71-4073	548.0-549.0	58037	5.8	1.2	90.7	2.3	15.1	2.9	.921	None	
SBR71-4074	549.0-550.0	58038	6.7	1.4	89.3	2.6	17.5	3.4	.919	None	
SBR71-4075	550.0-551.0	58039	8.2	1.6	87.3	2.9	21.5	3.8	.918	None	
SBR71-4076	551.0-552.0	58040	8.8	1.9	86.3	3.0	22.9	4.6	.917	None	
SBR71-4077	552.0-553.0	58041	9.4	1.7	86.0	2.9	24.4	4.1	.924	None	
SBR71-4078	553.0-554.0	58042	10.1	1.7	83.6	4.6	25.9	4.1	.935	None	
SBR71-4079	554.0-555.0	58043	5.9	2.0	89.7	2.4	15.4a	4.9		None	
SBR71-4080	555.0-556.0	58044	7.0	2.0	88.9	2.1	18.0	4.8	.935	None	
SBR71-4081	556.0-557.0	58045	4.6	1.4	92.5	1.5	11.8	3.2	.934	None	
SBR71-4082	557.0-558.0	58046	7.8	1.4	88.5	2.3	20.0	3.5	.929	None	
SBR71-4083	558.0-559.0	58047	4.0	1.8	92.5	1.7	10.5	4.3	.925	None	
SBR71-4084	559.0-560.3	58048	7.8	1.8	87.6	2.8	20.4	4.3	.923	None	
SBR71-4085	560.3-561.0	58049	.8	1.2	96.6	1.4	2.1a	2.8		None	
SBR71-4086	561.0-562.0	58050	.1	1.0	98.2	.7	.3a	2.4		None	
SBR71-4087	562.0-563.0	58051	.6	1.6	97.1	.7	1.6a	3.8		None	
SBR71-4088	563.0-564.0	58052	.8	.8	98.0	.4	2.0a	2.0		None	
SBR71-4089	564.0-565.0	58053	2.8	.5	95.7	1.0	7.1	1.3	.932	None	
SBR71-4090	565.0-566.0	58054	6.5	1.7	89.3	2.5	16.5	4.0	.945	None	

See footnote at end of table.

Core samples received February 17, 1971; Assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Garrett Research and Development Company Inc., Wyoming Corehole No. 3 (con.)

Sample number		Run	Yield of product						Specific gravity of oil at 60°/60° F	Properties of spent shale	Remarks
			Weight percent				Gal per ton				
Laramie	Their	No.	Oil	Water	Spent shale	Gas + loss	Oil[1/]	Water		Tendency to coke	
SBR71-4091	566.0-567.0	58055	0.0	1.5	97.9	0.6	Trace	3.6		None	
SBR71-4092	567.0-568.0	58056	.1	2.2	96.4	1.3	0.3a	5.3		None	
SBR71-4093	568.0-569.0	58057	.0	2.3	96.8	.9	Trace	5.6		None	
SBR71-4094	569.0-570.0	58058	.4	2.1	97.1	.4	1.0a	5.0		None	
SBR71-4095	570.0-571.0	58059	.5	1.6	97.2	.7	1.2a	4.0		None	
SBR71-4096	571.0-572.0	58060	.0	2.2	97.2	.6	Trace	5.3		None	
SBR71-4097	572.0-573.0	58061	.0	1.5	97.3	1.2	Trace	3.5		None	
SBR71-4098	573.0-574.0	58062	1.4	2.7	94.6	1.3	3.7a	6.5		None	
SBR71-4099	574.0-575.0	58063	.3	2.7	95.4	1.6	.9a	6.5		None	
SBR71-4100	575.0-576.0	58064	.0	1.2	98.6	.2	No Oil	2.8		None	
SBR71-4101	576.0-577.0	58065	.4	2.1	97.3	.2	.9a	5.2		None	
SBR71-4102	577.0-578.0	58066	.8	1.5	96.5	1.2	2.2a	3.6		None	
SBR71-4103	578.0-579.0	58067	.0	2.0	96.8	1.2	Trace	4.8		None	
SBR71-4104	579.0-580.0	58068	.2	2.2	96.7	.9	.6a	5.2		None	
SBR71-4105	580.0-581.0	58069	3.0	1.9	92.4	2.7	7.8a	4.6		None	
SBR71-4106	581.0-582.0	58070	4.0	1.6	91.7	2.7	10.5a	3.7		None	
SBR71-4107	582.0-583.0	58071	3.6	1.6	91.8	3.0	9.3	3.8	0.931	None	
SBR71-4108	583.0-584.0	58072	5.5	1.4	90.3	2.8	14.1	3.5	.932	None	
SBR71-4109	584.0-585.0	58073	3.2	1.2	93.9	1.7	8.2	2.9	.934	None	
SBR71-4110	585.0-586.0	58074	3.8	1.6	91.8	2.8	9.8	3.8	.934	None	
SBR71-4111	586.0-587.0	58075	3.8	1.9	92.3	2.0	9.9	4.6	.925	None	
SBR71-4112	587.0-588.0	58076	5.3	1.8	90.3	2.6	13.9	4.3	.922	None	
SBR71-4113	588.0-588.5	58077	6.4	1.7	89.1	2.8	16.6	4.2	.920	None	
SBR71-4114	588.5-590.5	58078	5.6	1.7	90.7	2.0	14.3	4.2	.936	None	
SBR71-4115	590.5-592.0	58079	3.4	2.4	92.4	1.8	8.8	5.8	.935	None	
SBR71-4116	592.0-596.0	58080	4.3	2.1	92.1	1.5	11.1	5.0	.924	None	
SBR71-4117	596.0-598.0	58081	.1	2.7	96.6	.6	.1a	6.5		None	
SBR71-4118	598.0-600.0	58082	.0	2.5	97.2	.3	No Oil	5.9		None	
SBR71-4119	600.0-602.0	58083	.0	1.9	97.9	.2	No Oil	4.5		None	
SBR71-4120	602.0-604.0	58084	.0	1.2	98.0	.8	No Oil	3.0		None	

See footnote at end of table.

Core samples received February 17, 1971; Assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Garrett Research and Development Company Inc., Wyoming Corehole No. 3 (con.)

Sample number		Run	Yield of product						Specific gravity	Properties of spent shale	
			Weight percent				Gal per ton				
Laramie	Their	No.	Oil	Water	Spent shale	Gas + loss	Oil[1/]	Water	of oil at 60°/60° F	Tendency to coke	Remarks
SBR71-4121	604.0-606.0	58085	0.0	0.8	97.8	1.4	No Oil	2.0		None	

1/ "a"--indicates specific gravity estimated as 0.92. Oil yields were estimated by a rapid test-tube method: "No oil", "Trace".

Core samples received February 17, 1971; Assays made on air-dried samples