

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from the Energy Research and Development Administration's White Mountain Corehole No. 3 drilled in the NE1/4NE1/4 (268 feet FNL, 507 feet FEL) of sec 18, T 19 N, R 105 W, Sweetwater County, Wyoming

Surface elevation 7,549 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				
Laramie	Their	Oil	Water	Spent shale			Gas + loss		Oil ^{1/}	Water
	63.0- 79.2								Barren Rock -- Not Assayed	
SBR75-8897	79.2- 80.4	3042	0.2	1.7	97.6	0.5	0.5a	4.1	None	
SBR75-8898	80.4- 81.5	3043	.1	1.7	97.7	.5	.2a	4.1	None	
SBR75-8899	83.0- 84.0	3044	3.9	2.4	92.2	1.5	9.9	5.8	0.944	None
SBR75-8900	84.0- 85.3	3045	1.8	2.6	94.2	1.4	4.8a	6.2		None Some rubble
SBR75-8901	85.3- 86.5	3048	6.1	2.9	88.6	2.4	15.9	7.0	.920	None Some rubble
SBR75-8902	86.5- 87.5	3049	4.0	1.6	92.9	1.5	10.8	3.7	.898	None
SBR75-8903	87.5- 88.8	3050	4.4	2.5	91.1	2.0	11.7	6.0	.910	None Some rubble
SBR75-8904	88.8- 93.2	3051	4.1	2.7	91.3	1.9	10.8	6.5	.915	None Rubble and charred
SBR75-8905	93.2- 94.0	3052	7.0	3.2	87.6	2.2	17.9	7.7	.937	None shale
SBR75-8906	94.5- 95.3	3053	6.6	3.0	86.7	3.7	16.9	7.2	.940	None
SBR75-8907	95.5- 97.2	3054	10.7	3.3	83.1	2.9	27.4	7.9	.936	None
SBR75-8908	97.2- 97.8	3055	.5	2.0	96.9	.6	1.3a	4.8		None
SBR75-8909	97.8- 98.7	3056	4.6	1.9	91.6	1.9	12.0	4.6	.918	None
SBR75-8910	98.7- 99.7	3057	3.4	1.9	93.2	1.5	9.0	4.6	.909	None
SBR75-8911	99.7-100.7	3058	6.2	2.0	89.7	2.1	16.2	4.8	.914	None
SBR75-8912	100.7-102.0	3059	4.1	1.8	92.4	1.7	10.8	4.3	.916	None
SBR75-8913	104.5-106.4	3060	5.1	1.9	91.4	1.6	13.4	4.6	.904	None
SBR75-8914	106.4-107.9	3061	.2	2.5	96.7	.6	.5a	6.0		None
SBR75-8915	107.9-109.0	3062	5.7	2.1	90.1	2.1	15.2	5.0	.904	None Rubble
SBR75-8916	109.0-110.3	3063	6.1	2.8	88.9	2.2	16.0	6.7	.916	None Rubble
SBR75-8917	113.5-114.0	3064	7.4	3.0	87.3	2.3	19.5	7.2	.905	None
SBR75-8918	114.0-117.0	3065	.0	2.6	96.9	.5	Trace	6.2		None
SBR75-8919	117.0-120.0	3066	.0	2.4	97.4	.2	Trace	5.8		None
SBR75-8920	120.0-123.8	3067	.0	2.6	97.2	.2	Trace	6.2		None 122.5-123.5 missing
SBR75-8921	123.8-124.8	3068	9.5	3.0	84.5	3.0	25.0	7.2	.916	None
SBR75-8922	124.8-126.0	3069	11.5	2.9	82.5	3.1	29.8	7.0	.925	None
SBR75-8923	126.0-127.2	3070	14.6	2.0	79.4	3.9	38.0	4.8	.925	None
SBR75-8924	127.2-128.4	3071	15.7	2.4	78.2	3.7	40.6	5.8	.924	None
SBR75-8925	128.4-129.9	3072	6.0	3.0	89.6	1.4	15.2	7.2	.936	None

See footnote at end of table.

Core samples received April 15, 1975, assays made on air-dried samples

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Surface elevation 7,549 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	
SBR75-8926	129.9-130.9	3073	11.6	3.4	81.8	3.2	29.7	8.1	0.936	None
SBR75-8927	130.9-132.0	3074	11.0	3.3	82.7	3.0	28.2	7.9	.931	None
SBR75-8928	132.0-133.1	3075	6.5	1.7	90.0	1.8	16.9	4.1	.922	None
SBR75-8929	133.5-134.9	3076	4.9	1.5	92.3	1.3	12.9	3.6	.913	None
SBR75-8930	134.9-136.3	3077	4.7	1.9	92.2	1.2	12.3	4.6	.908	None
SBR75-8931	136.3-137.3	3078	6.2	2.2	89.2	2.4	16.3	5.3	.918	None
SBR75-8932	137.3-138.3	3079	8.9	2.2	86.0	2.9	23.0	5.3	.927	None
SBR75-8933	138.3-139.3	3080	10.8	3.2	82.5	3.5	28.4	7.7	.909	None
SBR75-8934	139.3-140.4	3081	8.9	3.2	84.8	3.1	23.9	7.7	.894	None
SBR75-8935	140.4-141.5	3082	9.8	2.1	85.3	2.8	25.7	5.0	.911	None
SBR75-8936	141.5-142.5	3125	.4	3.8	95.3	.5	.9a	9.1		None
SBR75-8937	143.5-145.3	3084	2.8	2.7	93.3	1.2	7.3	6.5	.924	None
SBR75-8938	145.3-146.2	3085	4.3	1.4	92.4	1.9	11.2	3.4	.929	None
SBR75-8939	146.2-147.0	3086	9.6	2.1	85.8	2.5	25.2	5.0	.917	None
SBR75-8940	147.0-147.9	3087	3.5	3.3	91.9	1.3	9.5	7.9	.899	None
SBR75-8941	147.9-149.0	3088	.5	2.6	95.9	1.0	1.4a	6.2		None
SBR75-8942	149.0-150.0	3089	.6	2.5	95.8	1.1	1.6a	6.0		None
SBR75-8943	150.0-152.0	3090	.6	1.6	97.0	.8	1.5a	3.8		None
SBR75-8944	152.0-153.7	3091	.9	3.0	95.2	.9	2.4a	7.2		None
SBR75-8945	153.9-154.7	3092	1.1	3.0	94.9	1.0	2.8a	7.2		None
SBR75-8946	154.9-156.6	3093	1.1	2.1	96.0	.8	2.8a	5.0		None
SBR75-8947	156.6-158.2	3094	1.0	1.2	96.0	1.8	2.7a	2.9		None
SBR75-8948	158.2-160.0	3096	.3	2.0	97.0	.7	.7a	4.8		None
SBR75-8949	160.0-161.5	3097	.2	2.0	97.4	.4	.5a	4.8		None
SBR75-8950	161.5-162.9	3098	.4	1.9	96.9	.8	1.1a	4.6		None
SBR75-8951	162.9-163.9	3099	2.0	2.1	95.2	.7	5.1a	5.0		None
SBR75-8952	164.2-165.2	3100	3.6	2.0	93.0	1.4	9.7	4.8	.898	None
SBR75-8953	165.2-166.2	3101	4.2	1.8	92.2	1.8	11.1	4.3	.909	None
SBR75-8954	166.2-167.2	3102	5.4	2.9	89.9	1.8	14.3	7.0	.906	None
SBR75-8955	167.2-168.7	3103	7.4	2.6	87.1	2.9	19.4	6.2	.913	None

See footnote at end of table.

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Surface elevation 7,549 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/}			
SBR75-8956	3104	168.7-170.0	3.4	2.4	92.6	1.6	9.1	5.8	0.894	None	
SBR75-8957	3105	170.0-172.0	2.3	2.6	94.0	1.1	6.1	6.2	.892	None	
SBR75-8958	3106	172.0-173.5	2.6	2.6	93.4	1.4	6.8	6.2	.896	None	
SBR75-8959	3107	173.5-174.9	1.4	2.2	95.3	1.1	3.6a	5.3		None	Some rubble
SBR75-8960	3108	174.9-175.8	5.1	1.7	91.4	1.8	13.7	4.1	.898	None	
SBR75-8961	3109	175.8-177.0	8.6	1.7	87.2	2.5	23.2	4.1	.895	None	
SBR75-8962	3110	177.0-178.5	1.7	.7	96.8	.8	4.4a	1.7		None	
SBR75-8963	3111	178.5-179.6	4.5	1.2	92.7	1.6	12.0	2.9	.908	None	
SBR75-8964	3112	179.6-180.7	4.2	1.1	93.4	1.3	11.3	2.5	.899	None	
SBR75-8965	3113	180.7-182.3	5.2	1.4	91.6	1.8	13.9	3.2	.908	None	
SBR75-8966	3114	182.3-183.7	6.2	1.6	90.1	2.1	16.2	3.8	.916	None	
SBR75-8967	3115	183.7-184.4	2.2	.5	96.2	1.1	5.7	1.3	.923	None	
SBR75-8968	3116	185.0-186.4	2.4	.8	95.4	1.4	6.2	2.0	.919	None	
SBR75-8969	3117	186.4-186.9	3.6	1.5	93.3	1.6	9.3	3.6	.916	None	
SBR75-8970	3118	186.9-187.9	5.2	1.3	91.2	2.3	13.8	3.2	.901	None	
SBR75-8971	3119	187.9-189.0	3.2	1.5	93.9	1.4	8.5	3.6	.901	None	
SBR75-8972	3120	189.0-190.0	5.2	1.2	92.2	1.4	13.5	2.9	.917	None	
SBR75-8973	3121	190.0-191.0	4.8	1.1	92.5	1.6	12.5	2.6	.918	None	
SBR75-8974	3122	191.0-192.0	6.2	1.1	90.9	1.8	16.2	2.6	.918	None	
SBR75-8975	3123	192.0-193.0	5.8	1.5	90.7	2.0	15.2	3.6	.919	None	
SBR75-8976	3124	193.0-194.3	4.5	1.9	91.7	1.9	11.7	4.6	.921	None	
SBR75-8977	3126	195.0-196.2	6.1	1.8	90.4	1.7	16.1	4.3	.902	None	
SBR75-8978	3127	196.2-197.8	5.4	1.4	91.6	1.6	14.1	3.4	.918	None	
SBR75-8979	3128	197.8-198.8	10.0	2.7	84.6	2.7	26.2	6.5	.914	None	
SBR75-8980	3129	198.8-199.6	6.3	1.1	91.1	1.5	16.3	2.6	.920	None	
SBR75-8981	3130	199.6-200.5	5.0	2.6	90.6	1.8	13.2	6.2	.915	None	
SBR75-8982	3131	200.5-201.4	7.1	2.0	88.9	2.0	18.7	4.8	.910	None	
SBR75-8983	3132	201.4-202.3	4.2	1.3	93.2	1.3	10.9	3.1	.909	None	
SBR75-8984	3133	202.3-203.1	6.9	3.2	87.5	2.4	18.5	7.7	.896	None	
SBR75-8985	3134	203.1-203.7	4.1	3.2	90.5	2.2	10.8	7.7	.909	None	

See footnote at end of table.

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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		
SBR75-8986	203.7-204.7	3135	2.9	4.0	91.3	1.8	7.7	9.6	0.913	None		
SBR75-8987	205.0-206.7	3136	2.7	4.5	91.1	1.7	7.1	10.8	.902	None		
SBR75-8988	206.7-208.1	3137	5.3	1.8	91.0	1.9	14.1	4.3	.905	None	Bottom Laney Member	
SBR75-8989	208.1-209.2	3138	1.7	3.2	94.3	.8	4.4a	7.7		None	Top Wilkins Peak	
SBR75-8990	209.2-210.4	3139	.0	4.8	94.5	.7	.1a	11.5		None	Member	
SBR75-8991	210.4-211.7	3140	.0	5.0	94.5	.5	.1a	12.0		None		
SBR75-8992	211.7-212.8	3141	3.3	2.6	92.4	1.7	8.5	6.2	.916	None		
SBR75-8993	212.8-213.6	3142	7.3	2.6	87.4	2.7	19.2	6.2	.910	None		
SBR75-8994	213.6-214.8	3143	7.1	4.2	86.7	2.0	18.8	10.1	.905	None		
SBR75-8995	214.8-216.6	3144	.2	1.3	98.1	.4	.4a	3.1		None		
SBR75-8996	216.6-217.6	3145	3.6	1.9	93.4	1.1	9.4	4.6	.914	None		
SBR75-8997	317.6-319.1	3146	.8	.7	97.8	.7	2.0a	1.7		None		
SBR75-8998	219.1-220.1	3147	.6	1.7	97.1	.6	1.5a	4.1		None		
SBR75-8999	220.1-221.1	3148	3.5	2.1	92.7	1.7	9.2	5.0	.915	None		
SBR75-9000	221.1-222.3	3149	3.2	2.1	93.8	.9	8.4	5.0	.905	None		
SBR75-9001	222.3-223.5	3150	3.1	2.6	93.0	1.3	8.3	6.1	.903	None		
SBR75-9002	223.5-224.6	3151	3.9	2.5	91.9	1.7	10.3	6.0	.902	None		
SBR75-9003	224.6-226.0	3152	5.5	3.5	88.7	2.3	14.6	8.4	.907	None		
SBR75-9004	226.0-227.2	3153	2.2	1.8	95.0	1.0	5.8	4.2	.912	None		
SBR75-9005	227.2-228.7	3154	1.5	1.2	96.5	.8	3.8a	2.9		None		

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

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