

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from ERDA/LERC's Southern Uinta Basin Corehole 7 drilled in the
NW1/4NW1/4NE1/4 (709 feet FNL, 2355 feet FEL) of sec. 14, T 14 S, R 22 E, Uintah County, Utah

Surface elevation: 6,989 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 ^{1/}		Water	
SBR76-960	5.0-6.6	15664	0.1	1.0	98.1	0.8	0.3a	2.4	.920	None		
SBR76-961	6.6-8.2	15665	.0	1.3	98.4	.3	Trace	3.1		None		
SBR76-962	8.2-9.8	15666	.1	.9	98.5	.5	.3a	2.2	.920	None		
SBR76-963	9.8-11.0	15667	.8	2.0	96.7	.5	2.1a	4.9	.920	None		
SBR76-964	11.0-12.1	15668	3.6	2.6	92.4	1.4	9.5	6.1	0.909	None		
SBR76-965	12.1-13.4	15669	1.0	1.2	96.6	1.2	2.7a	2.9	.920	None		
SBR76-966	13.4-14.4	15670	8.1	2.7	87.2	2.0	21.5	6.5	.900	None		
SBR76-967	14.4-15.5	15671	13.0	3.0	81.0	3.0	34.4	7.2	.907	None		
SBR76-968	15.5-16.9	15672	4.3	2.0	92.4	1.3	11.4	4.8	.909	None		
SBR76-969	16.9-18.5	15673	3.0	1.5	93.9	1.6	8.0	3.6	.908	None		
SBR76-970	18.5-19.5	15674	2.5	1.0	95.8	.7	6.5	2.4	.904	None		
SBR76-971	19.5-20.5	15675	2.5	2.2	94.6	.7	6.6	5.3	.907	None		
SBR76-972	20.5-21.6	15676	3.5	2.2	92.5	1.8	9.1	5.3	.910	None		
SBR76-973	21.6-23.4	15677	9.3	2.2	86.3	2.2	24.5	5.3	.914	None		
SBR76-974	23.4-24.3	15678	6.3	1.2	90.4	2.1	16.4	2.9	.916	None		
SBR76-975	24.3-25.4	15679	7.2	1.7	89.0	2.1	19.0	4.1	.913	None		
SBR76-976	25.4-26.7	15680	8.5	1.5	87.3	2.7	22.5	3.6	.908	None		
SBR76-977	26.7-27.7	15681	15.2	1.7	80.2	2.9	40.4	4.1	.900	None		
SBR76-978	27.7-28.8	15682	16.3	1.8	78.8	3.1	43.1	4.3	.903	None		
SBR76-979	28.8-29.9	15683	7.1	1.1	89.8	2.0	19.0	2.6	.895	None		
SBR76-980	29.9-31.1	15684	4.5	1.8	92.4	1.3	12.0	4.3	.905	None		
SBR76-981	31.1-32.3	15685	3.8	1.1	93.4	1.7	10.0	2.6	.915	None		
SBR76-982	32.3-33.8	15686	1.7	1.0	96.3	1.0	4.5a	2.4	.920	None		
SBR76-983	33.8-35.4	15687	2.5	1.2	95.5	.8	6.4	2.9	.924	None		
SBR76-984	35.4-36.9	15688	5.3	1.5	90.1	3.1	13.8	3.6	.916	None		
SBR76-985	36.9-38.5	15689	3.7	.8	94.5	1.0	9.6	1.9	.920	None		
SBR76-986	38.5-39.5	15741	1.5	.9	96.9	.7	3.9a	2.2	.920	None		
SBR76-987	39.5-41.2	15691	1.2	.9	97.3	.6	3.2a	2.2	.920	None		
SBR76-988	41.2-42.9	15692	2.4	1.0	95.9	.7	6.4	2.4	.919	None		
SBR76-989	42.9-44.6	15693	1.6	1.6	96.2	.6	4.2a	3.8	.920	None		

See footnote at end of table.

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

4107
475

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from ERDA/LERC's Southern Uinta Basin Corehole 7

Surface elevation: 6,989 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 ^{1/}	Water	
SBR76-990	44.6-46.5	15694	2.2	0.7	95.9	1.2	5.7	1.7	0.921	None	
SBR76-991	46.5-48.0	15695	1.6	1.0	96.7	.7	4.3a	2.3	.920	None	
SBR76-992	48.0-49.0	15696	3.3	1.5	94.0	1.2	8.7	3.6	.908	None	
SBR76-993	49.0-50.7	15697	10.0	1.3	86.7	2.0	26.3	3.0	.913	None	
SBR76-994	50.7-51.8	15698	14.1	1.4	81.8	2.7	37.1	3.4	.910	None	
SBR76-995	51.8-53.0	15699	10.0	.8	87.4	1.8	26.5	1.9	.904	None	
SBR76-996	53.0-54.0	15700	18.3	1.6	76.2	3.9	48.3	3.8	.907	None	
SBR76-997	54.0-55.0	15701	26.9	2.8	65.0	5.3	71.1	6.7	.908	Slight	
SBR76-998	55.0-56.2	15702	16.4	1.4	78.1	4.1	43.0	3.4	.913	None	
SBR76-999	56.2-57.2	15703	19.2	1.3	74.0	5.5	50.6	3.1	.908	None	
SBR76-1000	57.2-58.6	15704	6.0	1.1	91.2	1.7	15.7	2.6	.918	None	
SBR76-1001	58.6-60.1	15705	7.6	.7	89.9	1.8	19.8	1.8	.918	None	
SBR76-1002	60.1-61.8	15706	5.8	.7	92.1	1.4	15.3	1.7	.914	None	
SBR76-1003	61.8-62.8	15707	16.8	1.5	77.7	4.0	43.9	3.6	.915	None	
SBR76-1004	62.8-63.9	15708	4.6	1.1	92.5	1.8	12.5	2.6	.889	None	
SBR76-1005	63.9-64.8	15709	9.8	1.6	86.4	2.2	26.0	3.8	.907	None	
SBR76-1006	64.8-65.9	15710	3.7	.6	94.6	1.1	9.7	1.4	.911	None	
SBR76-1007	65.9-67.0	15711	10.2	1.9	85.7	2.2	26.6	4.6	.921	None	
SBR76-1008	67.0-68.1	15712	2.2	1.2	95.2	1.4	5.8	3.0	.916	None	
SBR76-1009	68.1-69.0	15713	.8	.1	98.6	.5	2.2a	.1	.920	None	
SBR76-1010	69.0-70.0	15714	1.0	.2	98.1	.7	2.7a	.5	.920	None	
SBR76-1011	70.0-71.0	15715	3.0	.7	95.6	.7	8.0	1.7	.906	None	
SBR76-1012	71.0-72.3	15716	7.0	1.0	90.7	1.3	18.7	2.4	.897	None	
SBR76-1013	72.3-73.3	15717	6.1	.7	91.5	1.7	16.2	1.7	.906	None	
SBR76-1014	73.3-74.9	15718	6.6	1.0	91.2	1.2	17.7	2.4	.899	None	
SBR76-1015	74.9-76.3	15719	3.7	1.0	94.4	.9	9.8	2.4	.907	None	
SBR76-1016	76.3-77.9	15720	.7	.2	98.6	.5	1.7a	.5	.920	None	
SBR76-1017	77.9-79.4	15721	2.4	.4	96.5	.7	6.2	1.0	.916	None	
SBR76-1018	79.4-80.4	15722	7.1	1.3	90.3	1.3	18.4	3.1	.924	None	
SBR76-1019	80.4-81.4	15723	2.3	1.1	95.9	.7	6.0	2.6	.919	None	

See footnote at end of table.

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Surface elevation: 6,989 feet

Sample number			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 ^{1/}	Water				
Laramie	Their	Run No.										
SBR76-1020	81.4-82.8	15724	1.7	0.3	97.3	0.7	4.5a	0.7	.920	None		
SBR76-1021	82.8-83.9	15725	1.4	.3	96.7	1.6	3.6a	.7	.920	None		
SBR76-1022	83.9-85.1	15726	4.9	.6	92.4	2.1	12.9	1.4	0.901	None		
SBR76-1023	85.1-86.5	15727	1.7	.8	96.8	.7	4.4a	1.9	.920	None		
SBR76-1024	86.5-87.6	15728	.9	.4	98.0	.7	2.2a	1.0		None		
SBR76-1025	87.6-89.0	15729	.5	.9	98.2	.4	1.4a	2.2		None		
SBR76-1026	89.0-90.4	15730	.2	1.0	98.5	.3	.5a	2.5		None		
SBR76-1027	90.4-92.1	15731	.1	1.3	97.7	.9	.3a	3.0		None		
SBR76-1028	92.1-93.6	15732	.7	2.3	96.4	.6	1.8a	5.6		None		
SBR76-1029	93.6-94.8	15733	.4	1.3	97.5	.8	1.1a	3.1		None		
SBR76-1030	94.8-95.7	15734	1.3	1.4	96.9	.4	3.3a	3.4		None		
SBR76-1031	95.7-96.7	15735	2.0	1.3	96.1	.6	5.2	3.1	.899	None		
SBR76-1032	96.7-97.5	15736	3.1	1.0	95.1	.8	8.2	2.4	.914	None		
SBR76-1033	97.5-99.2	15737	7.4	1.4	88.7	2.5	19.3	3.4	.921	None		
SBR76-1034	99.2-100.2	15738	1.0	1.7	96.7	.6	2.5a	4.1	.920	None		
SBR76-1035	100.2-101.3	15739	.8	1.8	96.9	.5	2.0a	4.3	.920	None		
SBR76-1036	101.3-102.3	15740	.3	1.8	97.2	.7	.8a	4.3	.920	None		
SBR76-1037	102.3-103.0	15742	.7	2.5	96.1	.7	1.8a	6.0	.920	None		
SBR76-1038	103.0-103.8	15743	.0	2.2	97.3	.5	Trace	5.3		None		
SBR76-1039	103.8-105.4	15744	.4	3.2	95.9	.5	1.1a	7.7	.920	None		
SBR76-1040	105.4-106.8	15745	.1	3.0	96.4	.5	.4a	7.2		None		
SBR76-1041	106.8-108.0	15746	.3	2.7	96.6	.4	.7a	6.5		None		
SBR76-1042	108.0-109.2	15747	.7	2.6	96.2	.5	1.8a	6.2		None		
SBR76-1043	109.2-110.1	15748	.6	2.2	96.1	1.1	1.5a	5.3		None		
SBR76-1044	110.1-111.2	15749	1.9	1.3	96.2	.6	5.1a	3.1		None		
SBR76-1045	111.2-112.8	15750	1.9	2.1	95.0	1.0	4.9a	5.0		None		
SBR76-1046	112.8-113.8	15751	9.4	.7	86.2	3.7	24.8	1.7	.912	None		
SBR76-1047	113.8-114.8	15752	.8	.7	98.1	.4	2.1a	1.7	.920	None		
SBR76-1048	114.8-116.7	15753	5.5	2.0	91.3	1.2	14.5	4.8	.914	None		
SBR76-1049	116.7-117.7	15754	5.8	2.7	90.9	.6	15.2	6.5	.918	None	Tar sand	

See footnote at end of table.

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Surface elevation: 6,989 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		
			Oil	Water			Oil ^{1/}	Water				
Laramie	Their	Run No.	Oil	Water	Spent shale	Gas + loss	Oil ^{1/}	Water				
SBR76-1050	117.7-118.6	15755	2.7	0.9	94.9	1.5	7.0	2.2	0.917	None		
SBR76-1051	118.6-120.6	15756	.5	.3	98.6	.6	1.2a	.7	.920	None		
SBR76-1052	120.6-121.8	15757	.9	.7	97.6	.8	2.3a	1.7	.920	None	Tar sand in part	
SBR76-1053	121.8-123.0	15758	4.4	.6	94.0	1.0	11.3	1.4	.925	None	Tar sand	
SBR76-1054	123.0-124.2	15759	3.8	.2	95.5	.5	9.9	.5	.922	None	Tar sand	
SBR76-1055	124.2-125.5	15760	3.3	.2	94.7	1.8	8.6	.5	.921	None		
SBR76-1056	125.5-127.1	15761	2.2	.5	96.4	.9	5.9	1.2	.907	None		
SBR76-1057	127.1-128.1	15762	3.5	.4	94.8	1.3	9.2	1.0	.906	None		
SBR76-1058	128.1-129.2	15763	10.7	.9	86.0	2.4	28.6	2.2	.899	None		
SBR76-1059	129.2-130.2	15764	4.2	1.0	93.2	1.6	11.2	2.4	.905	None		
SBR76-1060	130.2-131.1	15765	2.0	.1	96.6	1.3	5.2a	.2	.920	None		
SBR76-1061	131.1-132.2	15766	4.4	.8	93.7	1.1	11.6	1.9	.904	None		
SBR76-1062	132.2-133.2	15767	.3	.7	98.4	.6	.7a	1.7	.920	None		
SBR76-1063	133.2-134.5	15768	1.5	.5	97.1	.9	4.0a	1.2	.920	None		
SBR76-1064	134.5-135.2	15769	4.0	.7	94.1	1.2	10.5	1.7	.913	None		
SBR76-1065	135.2-136.2	15770	1.9	.6	96.6	.9	5.2	1.4	.899	None		
SBR76-1066	136.2-136.9	15771	1.2	.5	97.8	.5	3.2a	1.2	.920	None		
SBR76-1067	136.9-138.0	15772	1.0	.4	97.7	.9	2.5a	1.0	↓	None		
SBR76-1068	138.0-138.5	15773	1.6	1.2	96.0	1.2	4.3a	2.9	↓	None		

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

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