

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from ERDA/LERC's Southern Uinta Basin Corehole 9 drilled in the
NW1/4SW1/4NE1/4 (2,157 feet FNL, 2,413 feet FEL) of sec. 6, T 13 S, R 24 E, Uintah County, Utah

Surface elevation: 6,268 feet

Surface elevation: 6,268 feet			Yield of product						Specific gravity of oil at 60°/60° F	Properties of spent shale		Remarks
Sample number		Run No.	Weight percent		Spent shale	Gas + loss	Gal per ton			Tendency to coke		
Laramie	Their		Oil	Water			Oil ^{1/}	Water				
SBR76-308	35.0-36.6	14965	3.4	1.5	93.1	2.0	8.9	3.6	0.917	None		
SBR76-309	36.6-37.5	14966	4.7	1.0	92.8	1.5	12.2	2.5	.919	None		
SBR76-310	37.5-39.1	14967	8.7	.8	88.3	2.2	22.9	1.9	.913	None		
SBR76-311	39.1-41.0	14968	6.9	1.3	89.7	2.1	18.1	3.0	.916	None		
SBR76-312	41.0-42.0	14969	5.2	1.0	91.8	2.0	13.6	2.4	.910	None		
SBR76-313	42.0-43.0	14970	3.9	1.1	93.7	1.3	10.3	2.5	.911	None		
SBR76-314	43.0-44.6	14971	3.5	.9	94.5	1.1	9.2	2.2	.911	None		
SBR76-315	44.6-45.6	14972	5.2	.8	92.3	1.7	13.7	1.9	.912	None		
SBR76-316	45.6-47.5	14973	2.3	1.0	95.7	1.0	6.2	2.4	.911	None		
SBR76-317	47.5-48.8	14974	3.5	.7	94.5	1.2	9.3	1.8	.915	None		
SBR76-318	48.8-50.2	14975	7.9	.9	89.0	2.2	20.6	2.2	.917	None		
SBR76-319	50.2-51.6	14976	2.4	.5	95.1	2.0	6.3	1.2	.916	None		
SBR76-320	51.6-53.2	14977	2.5	1.2	95.3	1.0	6.5	2.9	.917	None		
SBR76-321	53.2-54.6	14978	5.3	.9	92.4	1.4	14.0	2.0	.910	None		
SBR76-322	54.6-56.0	14979	2.8	1.3	94.8	1.1	7.4	3.1	.909	None		
SBR76-323	56.0-57.4	14980	1.4	1.7	95.7	1.2	3.7 _a	4.1	.920	None		
SBR76-324	57.4-59.0	14981	2.8	1.7	94.4	1.1	7.3	4.1	.910	None		
SBR76-325	59.0-60.4	14982	2.3	1.3	95.6	.8	6.0	3.1	.914	None		
SBR76-326	60.4-61.9	14983	7.7	.8	88.4	3.1	20.0	1.9	.919	None		
SBR76-327	61.9-63.2	14984	3.0	1.4	94.5	1.1	8.0	3.4	.915	None		
SBR76-328	63.2-64.5	14985	2.5	1.4	95.1	1.0	6.6	3.4	.913	None		
SBR76-329	64.5-66.0	14986	2.3	1.3	95.7	.7	6.1	3.1	.915	None		
SBR76-330	66.0-67.0	14987	7.4	.9	89.5	2.2	19.2	2.2	.921	None		
SBR76-331	67.0-69.0	14988	2.2	1.1	89.5	7.2	5.6	2.6	.921	None		
SBR76-332	69.0-71.0	14989	2.3	1.3	95.8	.6	6.0	3.1	.924	None		
SBR76-333	71.0-72.4	14990	8.8	.5	88.0	2.7	22.9	1.2	.925	None		
SBR76-334	72.4-74.0	14991	2.9	1.0	95.4	.7	7.5	2.4	.917	None		
SBR76-335	74.0-75.4	14992	2.4	1.0	95.7	.9	6.2	2.4	.913	None		
SBR76-336	75.4-76.6	14993	3.4	1.5	94.3	.8	8.9	3.6	.916	None		
SBR76-337	76.6-77.8	14994	13.2	1.4	82.4	3.0	34.2	3.4	.923	None		

See footnote at end of table.

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

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OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from ERDA/LERC's Southern Uinta Basin Corehole 9

Surface elevation: 6,268 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/}	Water			
SBR76-338	77.8-79.9	14995	2.3	1.6	95.5	0.6	6.0	3.8	0.919	None	
SBR76-339	79.9-81.0	14996	2.3	1.8	95.2	.7	6.0	4.3	.922	None	
SBR76-340	81.0-82.5	14997	3.4	1.4	93.9	1.3	8.9	3.4	.921	None	
SBR76-341	82.5-84.0	14998	3.4	1.9	93.7	1.0	8.8	4.6	.921	None	
SBR76-342	84.0-85.3	14999	3.9	1.2	93.6	1.3	10.0	2.9	.920	None	
SBR76-343	85.3-86.3	15000	12.6	1.5	83.2	2.7	32.9	3.6	.922	None	
SBR76-344	86.3-87.8	15001	2.8	1.2	93.2	2.8	7.4	2.9	.918	None	
SBR76-345	87.8-89.6	15002	1.0	1.5	96.8	.7	2.5a	3.6	.920	None	
SBR76-346	89.6-91.0	15003	2.6	1.7	95.0	.7	6.7	4.1	.920	None	
SBR76-347	91.0-92.0	15004	7.3	1.0	89.7	2.0	19.0	2.4	.919	None	
SBR76-348	92.0-93.6	15005	3.4	1.5	94.0	1.1	9.0	3.6	.917	None	
SBR76-349	93.6-95.0	15006	3.3	1.4	94.1	1.2	8.7	3.4	.919	None	
SBR76-350	95.0-96.0	15007	6.0	1.4	91.5	1.1	15.9	3.4	.910	None	
SBR76-351	96.0-97.5	15008	3.6	.9	94.3	1.2	9.3	2.2	.920	None	
SBR76-352	97.5-99.3	15010	3.1	1.2	94.8	.9	8.2	2.9	.922	None	
SBR76-353	99.3-100.4	15011	3.4	1.3	93.8	1.5	8.7	3.1	.927	None	
SBR76-354	100.4-101.7	15012	5.6	1.3	92.0	1.1	14.9	3.1	.910	None	
SBR76-355	101.7-103.0	15013	3.9	1.6	92.8	1.7	10.1	3.8	.922	None	
SBR76-356	103.0-104.8	15014	3.6	1.8	93.7	.9	9.3	4.3	.924	None	
SBR76-357	104.8-106.4	15015	3.8	1.6	93.8	.8	9.8	3.8	.917	None	
SBR76-358	106.4-107.6	15016	3.5	1.8	93.7	1.0	9.1	4.3	.925	None	
SBR76-359	107.6-108.6	15017	3.2	1.7	94.2	.9	8.4	4.1	.923	None	
SBR76-360	108.6-110.0	15018	4.2	1.5	93.2	1.1	10.9	3.6	.922	None	
SBR76-361	110.0-111.4	15019	2.6	1.2	95.3	.9	6.8	2.9	.923	None	
SBR76-362	111.4-113.2	15020	1.2	1.3	96.7	.8	3.2a	3.1	.920	None	
SBR76-363	113.2-114.2	15021	3.0	1.5	94.6	.9	7.8	3.6	.920	None	
SBR76-364	114.2-115.2	15022	3.9	1.4	93.7	1.0	10.2	3.4	.921	None	
SBR76-365	115.2-116.3	15023	3.1	1.8	93.9	1.2	7.9	4.3	.925	None	
SBR76-366	116.3-117.3	15024	2.8	1.2	93.7	2.3	7.3	2.9	.925	None	
SBR76-367	117.3-118.3	15025	4.8	1.6	92.4	1.2	12.5	3.8	.923	None	

See footnote at end of table.

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

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Samples from ERDA/LERC's Southern Uinta Basin Corehole 9

Surface elevation: 6,268 feet

Surface elevation: 6,268 feet			Yield of product						Specific gravity of oil at 60°/60° F	Properties of spent shale		Remarks
Sample number		Run No.	Weight percent				Gal per ton			Tendency to coke		
			Oil	Water	Spent shale	Gas + loss	Oil ^{1/}	Water				
Laramie	Their											
SBR76-368	118.3-120.1	15026	5.9	2.1	91.4	0.6	15.8	5.0	0.902	None	Tar sand	
SBR76-369	120.1-121.1	15027	4.3	1.0	93.8	.9	11.2	2.4	.917	None	Tar sand	
SBR76-370	121.1-122.3	15028	5.9	.7	91.5	1.9	15.3	1.8	.921	None		
SBR76-371	122.3-123.3	15029	2.9	1.0	95.1	1.0	7.6	2.4	.925	None		
SBR76-372	123.3-124.3	15034	2.3	.8	96.4	.5	6.1a	1.9	.920	None		
SBR76-373	124.3-126.3	15035	3.3	.6	94.4	1.7	8.7	1.4	.920	None		
SBR76-374	126.3-127.8	15036	2.2	1.0	95.5	1.3	5.7	2.4	.926	None		
SBR76-375	127.8-128.9	15037	2.9	1.2	95.1	.8	7.5	2.9	.920	None		
SBR76-376	128.9-130.5	15038	2.0	1.0	96.1	.9	5.3a	2.4	.920	None		
SBR76-377	130.5-131.8	15039	4.6	.7	93.5	1.2	12.0	1.7	.923	None		
SBR76-378	131.8-132.9	15040	2.6	.6	95.3	1.5	6.6	1.4	.922	None		
SBR76-379	132.9-133.9	15041	3.5	.8	94.7	1.0	9.2	1.9	.919	None		
SBR76-380	133.9-135.1	15042	11.4	1.0	85.1	2.5	29.6	2.4	.924	None		
SBR76-381	135.1-136.1	15043	3.9	.8	94.0	1.3	10.2	1.9	.923	None		
SBR76-382	136.1-137.6	15044	4.3	.7	93.5	1.5	11.2	1.7	.925	None		
SBR76-383	137.6-139.0	15045	4.8	.3	93.2	1.7	12.5	.7	.920	None		
SBR76-384	139.0-140.3	15046	8.4	.7	88.8	2.1	22.0	1.7	.916	None		
SBR76-385	140.3-141.7	15047	7.1	.7	90.3	1.9	18.7	1.7	.915	None		
SBR76-386	141.7-143.3	15093	10.7	.5	86.0	2.8	28.0	1.2	.912	Slight		
SBR76-387	143.3-144.6	15049	2.7	.6	95.5	1.2	7.0	1.4	.921	None		
SBR76-388	144.6-145.7	15050	1.7	.6	96.8	.9	4.5a	1.4	.920	None		
SBR76-389	145.7-146.7	15051	1.5	.3	97.5	.7	3.9a	.7		None		
SBR76-390	146.7-148.2	15052	1.0	.4	97.2	1.4	2.7a	1.0		None		
SBR76-391	148.2-149.3	15053	3.2	.5	95.0	1.3	8.4	1.2	.919	None		
SBR76-392	149.3-150.7	15054	1.3	.7	96.2	1.8	3.3a	1.7	.920	None		
SBR76-393	150.7-152.3	15055	.6	.7	98.4	.3	1.5a	1.7		None		
SBR76-394	152.3-153.5	15056	.7	.5	98.0	.8	1.7a	1.2		None		
SBR76-395	153.5-154.9	15057	3.9	.9	94.1	1.1	10.2	2.2	.908	None		
SBR76-396	154.9-156.1	15058	3.9	.8	94.1	1.2	10.4	1.9	.908	None		
SBR76-397	156.1-157.1	15059	11.4	.7	83.9	4.0	30.1	1.7	.909	None		

See footnote at end of table.

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

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from ERDA/LERC's Southern Uinta Basin Corehole 9

Surface elevation: 6,268 feet

			Yield of product						Specific gravity of oil at 60°/60° F	Properties of spent shale		Remarks
Sample number		Run No.	Weight percent		Spent shale	Gas + loss	Gal per ton			Tendency to coke		
			Oil	Water			Oil	Water				
Laramie	Their											
SBR76-398	157.1-158.3	15060	6.0	0.8	91.6	1.6	15.8	1.9	0.909	None		
SBR76-399	158.3-159.3	15061	4.7	.7	93.0	1.6	12.4	1.6	.909	None		
SBR76-400	159.3-160.8	15105	3.3	.6	95.4	.7	8.6	1.4	.911	None		
SBR76-401	160.8-162.0	15063	9.2	.8	88.0	2.0	24.2	1.9	.916	None		Tar sand in part
SBR76-402	162.0-163.0	15064	11.6	1.0	85.0	2.4	30.2	2.4	.916	None		
SBR76-403	163.0-164.5	15065	10.1	.7	86.8	2.4	26.7	1.7	.909	None		
SBR76-404	164.5-165.9	15066	19.9	1.1	75.1	3.9	52.3	2.6	.911	None		
SBR76-405	165.9-167.0	15067	8.6	.6	88.8	2.0	23.1	1.4	.895	None		
SBR76-406	167.0-168.6	15068	6.0	.7	91.6	1.7	15.9	1.7	.906	None		
SBR76-407	168.6-170.0	15069	3.7	.5	94.5	1.3	9.6	1.2	.914	None		
SBR76-408	170.0-171.0	15070	7.8	.7	89.5	2.0	20.3	1.7	.914	None		
SBR76-409	171.0-172.3	15071	5.4	.5	92.3	1.8	14.0	1.2	.917	None		
SBR76-410	172.3-173.9	15072	3.2	.3	94.5	2.0	8.4	.7	.917	None		
SBR76-411	173.9-175.1	15073	3.1	1.2	94.8	.9	8.2	2.9	.912	None		
SBR76-412	175.1-176.4	15074	3.6	.5	94.9	1.0	9.5	1.2	.913	None		
SBR76-413	176.4-177.6	15075	3.0	.4	95.8	.8	7.9	1.0	.909	None		
SBR76-414	177.6-178.7	15076	3.4	.4	94.9	1.3	9.1	1.0	.903	None		
SBR76-415	178.7-180.1	15077	4.4	.4	94.2	1.0	11.7	1.0	.906	None		
SBR76-416	180.1-181.6	15078	3.7	.8	81.5	4.0	35.9	1.9	.918	None		
SBR76-417	181.6-183.2	15079	7.5	.4	88.6	3.5	19.8	1.0	.904	None		
SBR76-418	183.2-185.0	15080	6.9	.5	90.1	2.5	18.5	1.2	.899	None		
SBR76-419	185.0-186.9	15081	10.3	.5	86.9	2.3	27.5	1.2	.900	None		
SBR76-420	186.9-187.9	15082	14.0	.5	83.1	2.4	36.6	1.2	.916	None		
SBR76-421	187.9-188.8	15083	15.6	.5	80.7	3.2	40.9	1.2	.917	None		
SBR76-422	188.8-189.9	15084	28.4	1.0	64.3	6.3	75.0	2.5	.908	Heavy		
SBR76-423	189.9-190.9	15085	31.8	1.5	60.7	6.0	84.5	3.6	.903	Heavy		
SBR76-424	190.9-191.8	15086	26.4	1.4	66.5	5.7	70.0	3.4	.904	Heavy		
SBR76-425	191.8-192.9	15087	18.9	.8	77.2	3.1	50.0	1.8	.905	Slight		
SBR76-426	192.9-194.0	15088	20.4	.8	74.5	4.3	53.3	1.9	.917	None		
SBR76-427	194.0-195.0	15089	8.6	.8	88.4	2.2	22.6	1.9	.915	None		

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

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Samples from ERDA/LERC's Southern Uinta Basin Corehole 9

Surface elevation: 6,268 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		
			Oil	Water	Spent shale	Gas + loss	Oil ^{1/}	Water				
Laramie	Their											
SBR76-428	195.0-196.2	15090	6.9	0.6	88.8	3.7	18.1	1.4	0.916	None		
SBR76-429	196.2-197.6	15091	13.0	.7	82.0	4.3	34.0	1.7	.914	None		
SBR76-430	197.6-199.5	15092	6.6	.3	91.5	1.6	17.4	.7	.912	None		
SBR76-431	199.5-200.5	15100	17.0	.6	79.1	3.3	44.8	1.4	.908	None		
SBR76-432	200.5-201.9	15101	16.2	.8	79.8	3.2	42.8	1.9	.908	None		
SBR76-433	201.9-203.4	15102	7.6	.4	90.0	2.0	20.3	1.0	.891	None		
SBR76-434	203.4-204.3	15103	15.0	.8	81.3	2.9	39.3	1.9	.912	None		
SBR76-435	204.3-205.8	15104	5.5	.4	92.9	1.2	14.6	1.0	.908	None		
SBR76-436	205.8-207.2	15106	5.2	.4	93.1	1.3	13.9	1.0	.905	None		
SBR76-437	207.2-208.8	15107	9.4	.4	87.0	3.2	24.7	1.0	.917	None		
SBR76-438	208.8-209.9	15108	3.8	.5	94.4	1.3	9.9	1.2	.916	None		
SBR76-439	209.9-211.0	15109	3.8	.2	94.6	1.4	10.1	.5	.913	None		
SBR76-440	211.0-211.9	15110	6.9	.6	90.6	1.9	18.3	1.4	.909	None		
SBR76-441	211.9-212.8	15111	13.5	1.0	83.1	2.4	35.6	2.3	.908	None		
SBR76-442	212.8-214.4	15112	10.1	.6	87.2	2.1	27.0	1.4	.896	None		
SBR76-443	214.4-216.0	15113	10.2	.6	87.2	2.0	27.2	1.4	.902	None		
SBR76-444	216.0-217.1	15114	7.4	.8	89.8	2.0	19.7	1.9	.903	None		
SBR76-445	217.1-218.5	15115	4.8	.5	93.3	1.4	12.7	1.2	.918	None		
SBR76-446	218.5-219.7	15116	2.8	.4	95.9	.9	7.2	1.0	.922	None		
SBR76-447	219.7-220.8	15117	5.1	.5	93.0	1.4	13.4	1.2	.917	None		
SBR76-448	220.8-222.5	15118	7.2	.6	91.1	1.1	18.8	1.4	.918	None		
SBR76-449	222.5-223.8	15119	2.5	.5	96.4	.6	6.5	1.2	.917	None		
SBR76-450	223.8-225.1	15120	1.1	.3	97.9	.7	2.9a	.7	.920	None		
SBR76-451	225.1-226.1	15121	2.5	.3	96.6	.6	6.5	.7	.914	None		
SBR76-452	226.1-227.3	15122	6.6	.4	92.2	.8	17.6	1.0	.897	None		
SBR76-453	227.3-228.8	15123	1.9	1.4	95.9	.8	5.1	3.4	.913	None		
SBR76-454	228.8-229.8	15124	4.1	.5	94.1	1.3	10.7	1.2	.909	None		
SBR76-455	229.8-231.0	15125	9.8	.8	87.0	2.4	25.5	1.9	.920	None		
SBR76-456	231.0-232.2	15126	2.8	.6	95.5	1.1	7.4	1.4	.914	None		
SBR76-457	232.2-233.4	15127	1.6	.3	96.6	1.5	4.2a	.7	.920	None		

See footnote at end of table.

Core samples received October 15, 1976; assays made on air-dried samples

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Surface elevation: 6,268 feet

Surface elevation: 6,268 feet			Yield of product						Specific gravity of oil at 60°/60° F	Properties of spent shale		Remarks
Sample number		Run No.	Weight percent		Spent shale	Gas + loss	Gal per ton			Tendency to coke		
			Oil	Water			Oil ^{1/}	Water				
Laramie	Their											
SBR76-458	233.4-235.0	15128	7.9	0.9	89.5	1.7	20.7	2.2	0.914	None		
SBR76-459	235.0-236.2	15129	1.0	.4	98.1	.5	2.5a	1.0	.920	None		
SBR76-460	236.2-237.4	15130	5.0	.8	92.8	1.4	13.0	1.9	.917	None		
SBR76-461	237.4-238.9	15131	1.0	1.6	96.8	.6	2.6a	3.8	.920	None		
SBR76-462	238.9-240.3	15132	3.0	.7	95.0	1.3	7.8	1.7	.915	None		
SBR76-463	240.3-241.8	15133	2.5	.3	96.0	1.2	6.5a	.7	.920	None		
SBR76-464	241.8-242.9	15134	1.2	.1	97.3	1.4	3.2a	.2	.920	None		
SBR76-465	242.9-244.1	15135	2.8	.1	96.5	.6	7.5	.2	.910	None		
SBR76-466	244.1-245.3	15136	.4	.1	98.8	.7	1.1a	.2	.920	None		
SBR76-467	245.3-246.4	15137	1.0	.6	97.5	.9	2.6a	1.4	.920	None		
SBR76-468	246.4-247.8	15138	6.5	.6	90.8	2.1	17.1	1.4	.914	None		
SBR76-469	247.8-248.8	15139	2.6	.6	96.0	.8	6.9	1.4	.900	None		
SBR76-470	248.8-249.8	15140	3.2	.4	95.5	.9	8.4	1.0	.903	None		
SBR76-471	249.8-251.1	15141	5.0	.3	93.1	1.6	13.5	.7	.898	None		
SBR76-472	251.1-253.0	15142	2.6	.4	96.2	.8	7.0	1.0	.904	None		
SBR76-473	253.0-254.1	15143	.9	1.0	97.5	.6	2.3a	2.4	.920	None		
SBR76-474	254.1-255.5	15144	1.7	.2	97.5	.6	4.5a	.5	.920	None		
SBR76-475	255.5-256.8	15145	2.6	.9	95.2	1.3	7.0	2.2	.906	None		
SBR76-476	256.8-258.1	15146	1.6	1.3	96.6	.5	4.3a	3.1	.920	None		
SBR76-477	258.1-259.8	15147	1.5	.7	96.8	1.0	4.0a	1.7	↓	None		
SBR76-478	259.8-260.9	15148	1.3	.1	97.5	1.1	3.3a	.2		None		
SBR76-479	260.9-262.2	15149	4.3	1.3	92.9	1.5	11.3	3.1	.906	None		
SBR76-480	262.2-264.0	15189	.0	1.1	98.3	.6	No Oil	2.5		None		
SBR76-481	264.0-265.1	15151	4.0	.7	93.9	1.4	10.4	1.7	.929	None		
SBR76-482	265.1-266.9	15152	2.3	.9	96.1	.7	6.0	2.2	.921	None		
SBR76-483	266.9-268.7	15153	5.7	.1	93.0	1.2	14.8	.2	.920	None	Tar sand	
SBR76-484	268.7-269.9	15154	2.9	.4	95.9	.8	7.5	1.0	.940	None	Mostly tar sand	
SBR76-485	269.9-271.5	15261	.2	.3	98.9	.6	.6a	.7	.920	None		
SBR76-486	271.5-272.5	15156	2.2	.0	97.5	.3	5.9	.1	.911	None	Tar sand	
SBR76-487	272.5-273.8	15157	.1	.5	98.8	.6	.3a	1.2	.920	None		

See footnote at end of table.

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

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from ERDA/LERC's Southern Uinta Basin Corehole 9

Surface elevation: 6,268 feet

Sample number		Run	Yield of product						Specific gravity of oil at 60°/60° F	Properties of spent shale	
			Weight percent		Gal per ton					Tendency to	
Laramie	Their	No.	Oil	Water	Spent shale	Gas + loss	Oil ^{1/}	Water		coke	Remarks
SBR76-488	273.8-274.8	15158	0.3	0.3	98.8	0.6	0.9a	.7	.920	None	Little tar sand
SBR76-489	274.8-276.2	15159	.8	.2	98.4	.6	2.0a	.5	.920	None	Little tar sand

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

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