

31-15
74-25
37-40

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OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from General Petroleum Corporation's corehole 37-4, drilled 777.47 feet N and 1281.03 feet W of S 1/4 corner of sec. 4, T. 10 S., R. 25 E., Uintah County, Utah

Surface Elevation - 5,880.60 feet

Mahogany marker at 393.0 feet

Sample number	Run	No.	Yield of product				Specific gravity		Properties of spent shale	Remarks	
			Weight percent		Spent shale	Gas + loss	Gal. per ton				of oil at 60°/60° F.
Laramie	Their		Oil	Water					Oil	Water	
SBR57-5969	22 - 24	51344	2.7	1.3	94.9	1.1	6.9	3.1	2.54	0.946	none
SBR57-5970	24 - 33.5	51345	1.5	1.1	96.8	.6	3.7a	2.8	2.54		none
SBR57-5971	33.5- 40	51346	1.9	.8	96.6	.7	4.9a	1.8	2.54		none
SBR57-5972	40 - 45.5	51347	.7	.9	97.7	.7	1.8a	2.2	2.54		none
SBR57-5973	45.5- 55.5	51348	3.0	.4	95.6	1.0	7.7	.8	2.53	.933	none
SBR57-5974	55.5- 65.5	51349	3.6	.3	95.1	1.0	9.1	.8	2.53	.934	none
SBR57-5975	65.5- 70.5	51350	4.7	.4	93.8	1.1	12.1	.8	2.54	.941	none
SBR57-5976	70.5- 72.01/	51351	3.5	.4	95.0	1.1	9.0	1.0	2.54	.936	none
SBR57-5977	72.0- 80.5	51352	3.8	.3	95.1	.8	9.9	.7	2.54	.936	none
SBR57-5978	80.5- 90	51353	3.3	.3	95.7	.7	8.5	.6	2.54	.939	none
SBR57-5979	90 - 92.51/	51354	3.6	.2	95.2	1.0	9.2	.5	2.54	.929	none
SBR57-5980	92.5-102.5	51355	3.8	.2	95.3	.7	9.6	.6	2.54	.935	none
SBR57-5981	102.5-112.5	51356	3.6	.3	95.1	1.0	9.3	.7	2.54	.932	none
SBR57-5982	112.5-122.5	51357	3.1	.1	95.5	1.3	7.9	.4	2.54	.939	none
SBR57-5983	122.5-132.5	51358	3.0	.4	95.7	.9	7.8	1.0	2.54	.935	none
SBR57-5984	132.5-141.5	51359	2.6	.4	96.2	.8	6.6	1.1	2.54	.934	none
SBR57-5985	141.5-142.5	51360	9.5	.6	87.9	2.0	24.7	1.3	2.54	.925	none
SBR57-5986	142.5-148.5	51392	2.3	.5	96.5	.7	6.0	1.2	2.56	.929	none
SBR57-5987	148.5-149.5	51393	9.8	.9	87.2	2.1	25.4	2.2	2.56	.929	none
SBR57-5988	149.5-159.0	51394	3.2	1.2	95.0	.6	8.1	2.9	2.57	.940	none
SBR57-5989	159.0-169.0	51395	3.2	1.2	94.8	.8	8.3	2.9	2.57	.941	none
SBR57-5990	169.0-177.5	51396	3.8	.9	94.4	.9	9.7	2.2	2.58	.933	none
SBR57-5991	177.5-178.5	51397	12.8	1.7	83.0	2.5	33.0	4.1	2.58	.930	none
SBR57-5992	178.5-188.5	51398	4.0	1.2	93.9	.9	10.3	2.8	2.57	.937	none
SBR57-5993	188.5-198.5	51399	5.0	.9	92.6	1.5	12.9	2.0	2.57	.936	none
SBR57-5994	198.5-208.5	51400	4.7	.6	92.8	1.9	12.1	1.3	2.57	.938	none
SBR57-5995	208.5-218.5	51401	5.2	1.3	92.2	1.3	13.4	3.1	2.57	.925	none
SBR57-5996	218.5-228.5	51402	6.5	1.3	90.7	1.5	16.9	3.2	2.58	.919	none
SBR57-5997	228.5-238.5	51403	3.8	1.6	93.6	1.0	10.0	3.8	2.58	.925	none
SBR57-5998	238.5-241.5	51404	2.9	1.8	94.5	.8	7.6	4.3	2.58	.928	none

1/ Oil contamination on surface of core.

a. - Specific gravity estimated due to insufficient oil.

Core samples received October 25 at

1957; assays made on air-dried samples

Pet. and Oil-Shale Experiment Station, Laramie,

Fig. Illustration No. SBR-2113P

November 6,

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from General Petroleum Corporation's corehole 37-4, drilled 777.47 feet N and 1281.03 feet W of S 1/4 corner of sec. 4, T. 10 S., R. 25 E., Uintah County, Utah

Surface Elevation - 5,880.60 feet

Surface Elevation - 5,880.60 feet			Yield of product					Mahogany marker at 393.0 feet		Specific gravity of oil at 60°/60° F.	Properties of spent shale Tendency to coke	Remarks	
Sample number		Run No.	Weight percent		Spent shale	Gas + loss	Gal. per ton						
Laramie	Their		Oil	Water			Oil	Water					
SBR57-5999	241.5-242.5	51405	9.9	2.1	85.3	2.7	25.6	10.0	5.0	2.10	0.928	none	
SBR57-6000	242.5-248.5	51406	3.2	1.9	93.6	1.3	8.1	6.0	4.6	3.1	.931	none	
SBR57-6001	248.5-249.5	51407	10.2	1.9	85.3	2.6	26.3	10.0	4.6	2.2	.925	none	
SBR57-6002	249.5-254.5	51408	2.7	1.3	94.6	1.4	6.8	5.0	3.1	2.55	.938	none	
SBR57-6003	254.5-255.5	51409	11.1	1.9	84.8	2.2	28.7	10.0	4.4	2.2	.928	none	
SBR57-6004	255.5-260.5	51410	4.4	1.1	93.7	.8	11.3	5.0	2.6	2.1	.930	none	
SBR57-6005	260.5-261.5	51411	16.3	1.7	79.2	2.8	42.3	10.0	4.1	1.1	.924	none	
SBR57-6006	261.5-271.5	51412	4.1	1.0	94.2	.7	10.5	10.0	2.4	2.45	.931	none	
SBR57-6007	271.5-273.5	51413	3.6	1.6	93.5	1.3	9.3	10.0	3.8	2.4	.927	none	
SBR57-6008	273.5-274.5	51414	12.6	1.3	83.8	2.3	32.7	10.0	3.2	1.35	.921	none	
SBR57-6009	274.5-280	51415	2.8	.7	95.5	1.0	7.1	5.5	1.8	2.24	.928	none	
SBR57-6010	280 -281	51416	9.3	.8	87.8	2.1	24.1	10.0	1.9	1.1	.926	none	
SBR57-6011	281 -291	51417	4.4	.7	93.9	1.0	11.2	10.0	1.7	2.4	.931	none	
SBR57-6012	291 -301	51418	4.8	.7	93.3	1.2	12.3	10.0	1.7	2.4	.934	none	
SBR57-6013	301 -308.5	51419	4.5	.7	93.5	1.3	11.6	10.0	1.7	2.4	.934	none	
SBR57-6014	308.5-311.5	51420	5.3	.5	92.5	1.7	13.7	10.0	1.2	2.4	.930	none	
SBR57-6015	311.5-313.5	51421	2.6	.6	95.4	1.4	6.6	10.0	1.4	2.4	.934	none	
SBR57-6016	313.5-321.0	51422	4.9	.8	92.7	1.6	12.6	10.0	1.9	2.4	.931	none	
SBR57-6017	323.5-333.5	51423	4.9	.6	92.6	1.9	12.7	10.0	1.3	2.4	.930	none	
SBR57-6018	333.5-340.5	51424	3.5	.4	94.6	1.5	9.0	10.0	.8	2.4	.936	none	
SBR57-6019	340.5-342.5	51425	5.7	.8	92.0	1.5	14.7	10.0	1.8	2.4	.929	none	
SBR57-6020	342.5-345.5	51426	3.2	.2	94.6	2.0	8.2	10.0	.5	2.4	.933	none	
SBR57-6021	345.5-347	51427	12.4	1.0	83.7	2.9	32.2	10.0	2.4	2.4	.927	none	
SBR57-6022	347 -352.5	51428	5.4	.4	92.3	1.9	13.9	10.0	1.0	2.4	.925	none	
SBR57-6023	352.5-353.5	51429	13.8	.7	83.1	2.4	35.7	10.0	1.7	2.4	.926	none	
SBR57-6024	353.5-356	51430	5.5	.4	92.1	2.0	14.4	10.0	.8	2.4	.921	none	
SBR57-6025	356 -357	51431	14.4	.9	80.8	3.9	37.6	10.0	2.3	2.4	.915	slight	
SBR57-6026	357 -358	51432	6.5	.7	91.5	1.3	17.0	10.0	1.6	2.4	.920	none	
SBR57-6027	358 -364	51433	2.2	.4	96.8	.6	5.6	10.0	.8	2.4	.935	none	
SBR57-6028	364 -370	51434	1.6	.3	97.6	.5	4.0	10.0	.7	2.4	.927	none	

a. - Specific gravity estimated due to insufficient oil.

Core samples received October 25 and 31, 1957; assays made on air-dried samples

Petroleum and Oil-Shale Experiment Station, Laramie, Wyoming, Illustration No. SBR-2114P

November 6, 1957

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from General Petroleum Corporation's corehole 37-4, drilled 777.47 feet N and 1281.03 feet W of S 1/4 corner of sec. 4, T. 10 S., R. 25 E., Uintah County, Utah

Surface Elevation - 5,880.60 feet

Mahogany marker at 393.0 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						
Laramie	Their	No.	Oil	Water	Spent shale	Gas + loss	Oil	Water	Tendency to coke		
SBR57-6029	370 -373	51435	6.7	1.4	90.5	1.4	17.830	3.4	.906	none	
SBR57-6030	373 -373.5	51436	14.6	1.4	81.0	3.0	38.700	3.4	.907	slight	37.47 9.09
SBR57-6031	373.5-377.5	51437	5.4	.8	91.4	2.4	14.140	1.9	.919	none	135.26 144.40
SBR57-6032	377.5-381.5	51438	10.3	1.3	86.1	2.3	26.740	3.1	.919	none	633.89 414.34
SBR57-6033	381.5-383.5	51439	15.0	1.9	79.4	3.7	39.120	4.6	.916	slight	159.97 56.69
SBR57-6034	383.5-392.5	51440	6.9	.9	90.9	1.3	18.290	2.2	.913	none	44.40 381.07
SBR57-6035	392.5-393	51441	4.6	4.0	90.9	.5	12.000	9.6	.917	none	14.14 76.00
SBR57-6036	393 -397.5	51442	5.6	.6	93.1	.7	14.845	1.3	.904	none	15.00 14.18
SBR57-6037	397.5-398.5	51443	17.5	1.6	77.9	3.0	45.640	3.8	.919	slight	54.27 12.13
SBR57-6038	398.5-400	51444	8.1	.4	89.5	2.0	21.460	1.1	.905	slight	61.67 103.30
SBR57-6039	400 -401	51445	14.7	1.0	81.7	2.6	38.710	2.4	.914	slight	54.72 130.18
SBR57-6040	401 -401.5	51446	8.3	.6	89.6	1.5	21.800	1.6	.907	slight	24.73 124.15
SBR57-6041	401.5-404.5	51447	15.7	.9	80.0	3.4	41.130	2.0	.917	slight	24.77 124.15
SBR57-6042	404.5-405	51448	15.1	.5	80.5	3.9	39.800	1.2	.908	slight	10.00 124.16
SBR57-6043	405 -408	51449	26.4	1.3	67.0	5.3	69.900	3.1	.906	heavy	76.00 370.00
SBR57-6044	408 -409	51450	13.1	.5	83.7	2.7	34.710	1.2	.904	slight	74.00 10.00
SBR57-6045	409 -411	51451	18.7	.8	76.8	3.7	48.820	1.9	.919	slight	10.44 20.00
SBR57-6046	411 -414.5	51452	8.1	.4	89.5	2.0	21.130	1.1	.916	slight	16.75 244.61
SBR57-6047	414.5-415.5	51453	15.4	.7	80.5	3.4	40.100	1.7	.920	slight	20.00 20.00
SBR57-6048	415.5-419	51454	6.8	.3	91.0	1.9	17.635	.8	.921	slight	40.00 20.00
SBR57-6049	419 -422	51455	16.3	.8	78.8	4.1	42.900	1.8	.913	slight	124.74 294.90
SBR57-6050	422 -424	51456	8.5	.3	89.5	1.7	23.100	.7	.887	none	111.22 112.00
SBR57-6051	424 -425	51457	16.5	1.2	78.8	3.5	43.300	2.9	.913	none	112.00 84.87
SBR57-6052	425 -429.5	51458	5.8	.5	92.0	1.7	15.240	1.1	.918	none	
SBR57-6053	429.5-430.5	51459	10.7	1.0	85.6	2.7	27.900	2.3	.919	none	
SBR57-6054	430.5-435	51460	5.3	.6	92.7	1.4	13.900	1.6	.917	none	
SBR57-6055	435 -441.5	51461	11.1	.8	85.8	2.3	29.160	2.0	.912	none	
SBR57-6056	441.5-446.5	51462	6.1	.9	91.2	1.8	15.600	2.2	.926	none	
SBR57-6057	446.5-447	51463	13.3	1.1	82.6	3.0	34.200	2.6	.933	none	
SBR57-6058	447 -451.5	51464	3.1	.3	94.9	1.7	8.000	.7	.935	none	

Core samples received October 25 and 26, 1957; assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from General Petroleum Corporation's corehole 37-4, drilled 777.47 feet N and 1281.03 feet W of S 1/4 corner of sec. 4, T. 10 S., R. 25 E., Uintah County, Utah

Surface Elevation - 5,880.60 feet

Mahogany marker at 393.0 feet

Sample number		Run No.	Yield of product				Gal. per ton		Specific gravity of oil at 60°/60° F.	Properties of spent shale Tendency to coke	Remarks
			Weight percent		Spent shale	Gas loss					
Laramie	Their		Oil	Water			Oil	Water			
SBR57-6059	451.5-453	51465	5.5	0.5	92.0	2.0	14.5	1.2	0.916	none	
SBR57-6060	453 -453.5	51466	5.0	.5	93.2	1.3	13.3	1.2	.905	none	
SBR57-6061	454 -455	51467	3.5	.6	94.7	1.2	9.0	1.6	.921	none	
SBR57-6062	455 -456.5	51468	9.5	.4	86.8	3.3	24.6	1.1	.926	none	
SBR57-6063	456.5-459.5	51469	3.9	.3	94.1	1.7	10.0	.8	.921	none	
SBR57-6064	459.5-461	51470	16.2	1.1	79.5	3.2	41.9	2.6	.925	slight	
SBR57-6065	461 -466	51471	2.3	.8	95.7	1.2	6.0	1.9	.937	none	
SBR57-6066	466 -467	51472	11.1	1.5	85.4	2.0	28.7	3.6	.925	none	
SBR57-6067	468.5-469	51473	12.9	1.3	83.5	2.3	33.8	3.1	.917	slight	
SBR57-6068	469 -471	51474	5.6	1.1	92.0	1.3	14.5	2.6	.920	none	
SBR57-6069	471 -479	51475	2.6	1.0	95.5	.9	6.8	2.4	.930	none	
SBR57-6070	479 -481.5	51476	3.5	1.5	93.7	1.3	9.1	3.6	.918	none	
SBR57-6071	481.5-486.3	51477	1.6	1.2	96.2	1.0	4.1	2.9		none	

a. - Specific gravity estimated due to insufficient oil.

Core samples received October 25 and 26, 1957; assays made on air-dried samples

Petroleum and Oil-Shale Experiment Station, Laramie, Wyoming, Illustration No. SBR-2116P

November 6, 1957