

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

4-36

224-15
68-25
38-30

Samples from General Petroleum Corporation's corehole 42-12 drilled 761.16 feet S. and 12.48 feet W.
from NE corner of Sec. 12, T. 10 S., R. 25 E., Uintah County, Utah

Surface elevation 6,472.73 feet

Mahogany marker at 153 feet

Sample number		Run No.	Yield of product				Specific gravity of oil at 60°/60°		Properties of spent shale		Remarks
Laramie	Their		Oil	Water	Spent shale	Gas loss	Oil	Water	Tendency to coke	Remarks	
SBR57-5609	21.0-25.5	51103	4.4	1.9	92.3	1.4	11.5	4.5	11.03	none	126.84
SBR57-5610	25.5-26.0	51104	15.4	2.3	78.7	3.6	39.7	0.5	1.00	"	166.54
SBR57-5611	26.0-38.0	51105	3.8	1.3	94.1	.8	9.9	12.0	30.00	"	42.03
SBR57-5612	38.0-39.0	51106	9.8	1.8	85.6	2.8	25.3	1.0	2.22	"	56.17
SBR57-5613	39.0-44.0	51107	2.5	.9	95.8	.8	6.4	5.0	12.80	"	601.63
SBR57-5614	44.0-54.0	51108	4.6	.9	93.5	1.0	11.8	10.0	24.40	"	287.92
SBR57-5615	54.0-64.0	51109	4.7	.8	93.5	1.0	12.0	10.0	24.40	"	1182.35
SBR57-5616	64.0-74.0	51110	4.6	.9	93.5	1.0	11.9	10.0	24.40	"	1472.71
SBR57-5617	74.0-82.0	51111	4.4	.8	93.7	1.1	11.3	8.0	19.60	"	1694.19
SBR57-5618	84.0-94.0	51112	5.0	.7	93.1	1.2	12.7	10.0	24.20	"	2001.53
SBR57-5619	94.0-101.0	51088	3.8	.8	94.3	1.1	9.7	7.0	17.29	"	2169.24
SBR57-5620	101.0-106.5	51089	4.8	.8	93.1	1.3	12.3	5.5	13.42	"	2334.31
SBR57-5621	106.5-108.0	51090	12.7	1.1	83.6	2.6	32.8	1.5	3.15	"	2437.63
SBR57-5622	108.0-113.0	51091	5.3	.9	92.6	1.2	13.5	5.0	12.15	"	2601.65
SBR57-5623	113.0-113.5	51092	15.0	1.4	80.5	3.1	38.8	0.5	1.02	"	2641.23
SBR57-5624	113.5-117.0	51093	6.7	.9	90.8	1.6	17.5	3.5	8.19	"	2784.55
SBR57-5625	117.0-118.0	51094	14.1	1.7	81.4	2.8	37.2	1.0	2.05	slight	2860.81
SBR57-5626	118.0-128.0	51095	2.5	.7	95.7	1.1	6.5	10.0	25.60	none	3027.21
SBR57-5627	128.0-134.5	51096	2.8	.7	95.7	.8	7.2	6.5	16.51	"	3146.08
SBR57-5628	134.5-135.5	51113	16.1	2.4	78.2	3.3	42.6	1.0	1.98	slight	3230.43
SBR57-5629	135.5-140.0	51114	5.9	1.6	91.1	1.4	15.5	4.5	10.66	none	3395.66
SBR57-5630	140.0-142.0	51115	10.5	2.0	85.5	2.0	27.2	2.0	4.38	"	3514.80
SBR57-5631	142.0-144.0	51116	10.0	1.1	86.9	2.0	26.6	2.0	4.40	"	3631.84
SBR57-5632	144.0-145.5	51117	15.2	2.2	79.6	3.0	40.0	1.5	3.02	slight	3752.64
SBR57-5633	145.5-153.0	51118	6.8	1.2	90.3	1.7	17.8	7.5	17.47	none	4062.61
SBR57-5634	153.0-153.5	51119	6.8	4.6	87.4	1.2	18.0	0.5	1.16	"	4084.49
SBR57-5635	153.5-159.5	51120	5.8	.6	92.4	1.2	15.2	6.0	14.28	"	4301.55
SBR57-5636	159.5-161.0	51121	15.0	1.5	79.7	3.8	38.8	1.5	3.05	slight	4419.89
SBR57-5637	161.0-164.0	51122	7.3	1.3	89.7	1.7	19.1	3.0	6.93	none	4552.25
SBR57-5638	164.0-165.0	51123	9.5	1.5	86.9	2.1	25.1	1.0	2.22	"	4607.97

Core samples received October 17, 1957; assays made on air-dried samples.

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Surface elevation 6,472.73 feet

Mahogany marker at 153 feet

Sample number		Run No.	Yield of product				Specific gravity		Properties of spent shale		Remarks	Sum				
			Weight percent		Spent shale	Gas loss	Gal. per ton		of oil at 60°/60°	Tendency to coke			At 50°			
Laramie	Their		Oil	Water							Oil	Water				
SBR57-5639	165.0-171.5	51124	19.2	2.1	74.6	4.1	50.6	6.5	5.0	1.88	0.911	12.22	medium	355.20	618.33	5226.3
SBR57-5640	171.5-172.5	51125	15.0	1.6	80.4	3.0	39.8	1.0	3.8	2.03	.905	2.03	slight	357.23	80.79	5307.0
SBR57-5641	172.5-173.5	51126	17.3	2.1	77.0	3.6	44.7	1.0	5.0	1.95	.929	1.95	"	359.18	87.16	5394.2
SBR57-5642	173.5-175.0	51127	6.9	1.2	89.8	2.1	17.7	1.5	3.0	2.33	.930	3.49	none	362.67	61.77	5456.0
SBR57-5643	175.0-176.5	51128	17.7	1.4	77.6	3.3	45.7	1.5	3.4	1.94	.928	2.91	medium	365.58	132.99	5589.0
SBR57-5644	176.5-178.0	51129	6.2	.6	91.8	1.4	16.2	1.5	1.4	2.36	.926	3.54	none	369.12	57.35	5646.3
SBR57-5645	178.0-179.5	51130	20.7	1.4	74.4	3.5	53.9	1.5	3.5	1.85	.918	2.78	slight	371.90	149.84	5796.2
SBR57-5646	179.5-180.5	51131	13.1	1.8	82.6	2.5	34.9	1.0	4.4	2.08	.898	2.08	none	373.90	72.59	5868.7
SBR57-5647	180.5-181.5	51132	17.1	1.4	78.1	3.4	44.7	1.0	3.4	1.95	.917	1.95	medium	375.93	87.17	5955.9
SBR57-5648	181.5-183.5	51133	7.3	1.5	89.8	1.4	19.6	2.0	3.6	2.30	.897	4.60	none	380.52	90.16	6046.1
SBR57-5649	183.5-184.0	51134	16.6	2.0	77.9	3.5	43.4	0.5	4.8	1.97	.915	0.98	slight	381.51	42.53	6088.5
SBR57-5650	184.0-187.0	51135	6.1	1.3	91.0	1.6	15.9	3.0	3.1	2.36	.922	7.08	none	388.59	112.57	6211.2
SBR57-5651	187.0-188.0	51136	15.8	2.0	78.6	3.6	40.7	1.0	4.8	2.00	.931	2.00	slight	390.59	81.40	6292.6
SBR57-5652	188.0-192.5	51137	4.8	1.2	92.8	1.2	12.5	4.5	2.9	2.43	.925	10.93	"	401.52	136.62	6429.2
SBR57-5653	192.5-194.0	51138	14.0	1.5	82.0	2.5	36.7	1.5	3.6	2.05	.914	3.08	none	404.60	113.04	6542.2
SBR57-5654	194.0-197.5	51139	10.5	1.3	86.4	1.8	27.7	3.5	3.1	2.17	.904	7.59	"	412.19	210.24	6752.5
SBR57-5655	197.5-202.5	51140	5.7	1.2	91.5	1.6	14.9	5.0	2.9	2.38	.919	11.96	"	424.09	177.31	6929.8
SBR57-5656	202.5-203.0	51141	10.4	1.2	86.2	2.2	26.8	0.5	2.9	2.19	.932	1.09	"	425.10	29.21	6959.0
SBR57-5657	203.0-209.0	51142	3.3	.9	94.8	1.0	8.5	6.0	2.2	2.51	.925	15.06	"	440.24	128.01	7087.0
SBR57-5658	209.5-211.0	51143	4.5	1.0	93.4	1.1	11.6	1.5	2.4	2.45	.925	3.68	"	443.92	42.69	7129.7
SBR57-5659	211.0-212.0	51144	11.0	.8	86.4	1.8	28.6	1.0	1.9	2.16	.920	2.16	"	446.08	61.78	7191.5
SBR57-5660	212.0-216.0	51145	4.4	.4	93.9	1.3	11.3	4.0	1.0	2.46	.919	9.84	"	455.92	111.19	7302.7
SBR57-5661	216.0-217.0	51146	13.8	1.3	82.3	2.6	35.8	1.0	3.1	2.06	.924	2.06	"	457.98	73.75	7376.4
SBR57-5662	217.0-221.5	51147	2.9	1.0	95.5	.6	7.4	4.5	2.4	2.53	.928	11.36	"	469.36	84.21	7460.6
SBR57-5663	221.5-222.0	51148	9.1	1.3	87.7	1.9	23.7	0.5	3.1	2.23	.921	1.11	slight	470.47	26.31	7486.9
SBR57-5664	223.0-224.5	51149	9.2	1.4	87.4	2.0	24.1	1.5	3.4	2.23	.920	3.35	none	473.82	80.73	7567.7
SBR57-5665	224.5-234.5	51150	3.4	1.2	94.3	1.1	8.6	10.0	2.9	2.51	.930	25.10	"	498.92	215.86	7783.5
SBR57-5666	234.5-244.5	51151	1.6	1.6	95.8	1.0	4.1	10.0	3.8	2.61		26.10	"	525.02	107.01	7890.5
SBR57-5667	244.5-254.5	51152	.9	.6	98.4	.1	2.2	10.0	1.6	2.66		26.60	"	551.62	58.52	7949.1
SBR57-5668	254.5-261.5	51153	2.0	.8	96.5	.7	5.1	7.0	1.9	2.59	.925	18.13	"	569.75	92.46	8041.5

a. Specific gravity estimated due to insufficient oil.

Core samples received October 17, 1957; assays made on air-dried samples.

Petroleum and Oil-Shale Experiment Station, Laramie, Wyo. Illustration No. SBR-2091P

October 23, 1957

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Samples from General Petroleum Corporation's corehole 42-12 drilled 761.16 feet S. and 12.48 feet W.
from NE corner of Sec. 12, T. 10 S., R. 25 E., Uintah County, Utah

Surface elevation 6,472.73 feet

Mahogany marker at 153 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			
				Weight percent		Spent shale	Gas + loss							4 x 59 cum	4 x 59 Remarks cum	4 x 59 Remarks cum	
Laramie	Their		Oil	Water					Oil	Water							
SBR57-5669	261.5 -262.5		51154	14.5	1.3	81.4	2.8	37.5	1.0	3.1	2.05	0.924	2.05	none	571.80	76.87	8118.43
SBR57-5670	262.5 -265.0		51155	3.9	.6	94.3	1.2	10.2	2.5	1.6	2.48	.913	6.20	none	578.00	63.24	8181.67
SBR57-5671	265.0 -266.3		51156	13.6	1.4	81.9	3.1	35.9	1.3	3.5	2.06	.909	2.68	none	580.68	96.21	8277.88

Core samples received October 17, 1957; assays made on air-dried samples.