

118-108



OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Shamrock Oil and Gas Corporation's Rainbow Unit well No. 6 drilled in
SE1/4NW1/4 of sec. 19, T. 11 S., R. 24 E., Uintah County, Utah

6064 of 15

5610 Gr. (from IWR sheet)
Maj. Mar. 1800'

2104' S/N line and 2148 E/W line

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
Laramie	Their		Weight percent		Spent shale	Gas + loss	Oil ^{1/}	Water			
			Oil	Water							
SBR63-5668-69	80-100						b				
SBR63-5670	100-110						c				
SBR63-5671-72	110-130						b				
SBR63-5673-74	130-150						Trace				
SBR63-5675	150-160						No Oil				
SBR63-5676-77	160-180						Trace				
SBR63-5678-79	180-200						No Oil				
SBR63-5680-81	200-220						Trace				
SBR63-5682	220-230						No Oil				
SBR63-5683	300-310	87148	2.4	0.5	96.1	1.0	6.2	1.1	0.929	None	
SBR63-5684	310-320	87149	2.3	.4	96.5	.8	6.0	1.0	.933	None	
SBR63-5685	320-330						c				
SBR63-5686	330-340	87150	2.2	.4	96.4	1.0	5.8	1.0	.923	None	
SBR63-5687	340-350	87151	4.4	.4	93.9	1.3	11.3	1.0	.932	None	
SBR63-5688	350-360	87152	4.5	.4	93.9	1.2	11.7	1.0	.930	None	
SBR63-5689	360-370	87153	4.4	.3	94.0	1.3	11.2	.7	.932	None	
SBR63-5690	370-380	87154	2.2	.3	96.4	1.1	5.7	.7	.928	None	
SBR63-5691	380-390	87155	2.2	.3	96.5	1.0	5.6	.8	.930	None	
SBR63-5692	390-400	87156	2.3	.3	96.5	.9	6.0	.6	.929	None	
SBR63-5693	400-410	87157	2.2	.4	96.7	.7	5.7	.8	.930	None	
SBR63-5694	410-420	87158	2.4	.3	96.2	1.1	6.3	.6	.927	None	
SBR63-5695	420-430	87159	2.5	.2	96.5	.8	6.4	.6	.927	None	
SBR63-5696	430-440	87160	4.5	.4	93.8	1.3	11.6	1.0	.933	None	
SBR63-5697	440-450	87161	4.4	.3	93.9	1.4	11.2	.8	.929	None	
SBR63-5698	520-530	87162	5.2	.6	92.8	1.4	13.4	1.4	.923	None	
SBR63-5699	540-550	87163	8.4	.8	88.5	2.3	21.9	1.9	.924	None	
SBR63-5700	550-560	87164	8.6	.9	88.3	2.2	22.5	2.0	.920	None	
SBR63-5701	560-570	87165	18.1	.9	76.5	4.5	47.0	2.0	.925	Slight	
SBR63-5702	570-580	87166	15.2	.9	80.1	3.8	39.4	2.1	.926	Slight	
SBR63-5703	580-590	87167	15.3	1.2	79.7	3.8	39.8	2.9	.924	Slight	

See footnotes at end of table.

Drill cutting samples received July 17, 1962; assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Shamrock Oil and Gas Corporation's Rainbow Unit well No. 6 (con.)

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	
SBR63-5704	590-600	87168	13.0	1.4	82.4	3.2	33.7	3.3	0.923	None	
SBR63-5705	600-610	87169	11.6	1.2	84.1	3.1	30.0	2.9	.924	None	
SBR63-5706	610-620	87170	12.5	1.2	83.0	3.3	32.5	2.9	.925	None	
SBR63-5707	620-630	87171	12.7	1.2	83.0	3.1	32.9	2.8	.925	Slight	
SBR63-5708	630-640	87172	15.6	.9	79.6	3.9	40.2	2.2	.927	Slight	
SBR63-5709	640-650	87173	17.5	1.1	77.5	3.9	45.3	2.6	.926	Slight	
SBR63-5710	650-660	87174	18.5	1.2	75.8	4.5	47.7	2.9	.931	Slight	
SBR63-5711	660-670 - 10'	87175	14.2	1.0	81.2	3.6	36.6	2.4	.927	None	
SBR63-5712	680-690	87176	18.2	1.2	76.4	4.2	47.5	2.8	.920	Slight	
SBR63-5713	690-700	87177	15.0	.7	80.7	3.6	38.7	1.7	.929	Slight	
SBR63-5714	700-710	87178	17.1	.6	78.9	3.4	44.9	1.5	.912	Slight	
SBR63-5715	710-720	87179	16.9	.6	79.3	3.2	44.4	1.4	.912	Slight	
SBR63-5716	720-730	87180	16.8	.6	79.0	3.6	44.0	1.3	.919	Slight	
SBR63-5717	730-740	87181	16.4	.7	79.1	3.8	43.1	1.6	.911	Slight	
SBR63-5718	740-750	87182	16.0	.7	79.8	3.5	42.1	1.6	.911	Slight	
SBR63-5719	750-760	87183	17.5	.9	78.0	3.6	45.3	2.2	.925	Slight	
SBR63-5720	760-770	87184	17.8	1.0	77.8	3.4	46.0	2.4	.925	Slight	
SBR63-5721	770-780	87185	17.0	.9	78.6	3.5	44.0	2.0	.927	Slight	
SBR63-5722	780-790	87186	17.0	.8	78.7	3.5	43.9	2.0	.926	Slight	
SBR63-5723	790-800	87187	18.5	1.0	76.3	4.2	48.0	2.4	.926	Slight	
SBR63-5724	800-810	87188	18.6	1.4	76.0	4.0	48.5	3.4	.918	Slight	
SBR63-5725	810-820	87189	19.2	1.4	75.5	3.9	50.1	3.4	.917	Slight	
SBR63-5726	820-830	87190	18.3	1.4	76.6	3.7	47.9	3.4	.917	Slight	
SBR63-5727	830-840	87191	17.9	1.5	76.8	3.8	46.8	3.5	.918	Slight	
SBR63-5728	840-850						d				
SBR63-5729	850-860	87192	14.3	1.8	80.8	3.1	37.2	4.4	.923	None	
SBR63-5730	860-870	87193	15.0	1.8	80.3	2.9	38.8	4.3	.924	None	
SBR63-5731	870-880	87194	14.0	1.8	81.3	2.9	36.3	4.3	.924	None	
SBR63-5732	880-890	87195	8.0	1.7	88.6	1.7	20.6	4.1	.923	None	
SBR63-5733	890-900	87196	7.9	1.6	88.9	1.6	20.4	3.8	.924	None	

See footnotes at end of table.

Drill cutting samples received July 17, 1962; assays made on air-dried samples

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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		Spent shale	Gas + loss	Gal. per ton				
Laramie	Their		Oil	Water					Oil ^{1/}	Water	
SBR63-5734	900- 910	87197	3.6	1.4	94.1	0.9	9.3	3.4	0.927	None	
SBR63-5735	910- 920	87198	4.8	2.0	91.7	1.5	12.4	4.9	.921	None	
SBR63-5736	920- 930	87199	4.9	2.1	91.4	1.6	12.6	5.0	.924	None	
SBR63-5737	930- 940	87200	4.9	2.2	91.4	1.5	12.7	5.3	.921	None	
SBR63-5738	940- 950	87201	3.2	2.1	92.8	1.9	8.3	5.0	.930	None	
SBR63-5739	950- 960	87202	3.4	2.1	92.7	1.8	8.7	5.0	.933	None	
SBR63-5740	960- 970	87203	3.4	2.2	92.9	1.5	8.9	5.3	.930	None	
SBR63-5741	970- 980	87204	3.5	2.6	92.4	1.5	8.9	6.4	.931	None	
SBR63-5742	980- 990	87205	3.0	2.1	93.4	1.5	7.8	4.9	.930	None	
SBR63-5743	990-1000	87206	3.0	2.3	93.4	1.3	7.8	5.4	.929	None	
SBR63-5744	1000-1010	87207	6.7	1.7	89.6	2.0	17.4	4.2	.919	None	
SBR63-5745	1010-1020	87208	6.2	1.5	90.1	2.2	16.2	3.6	.922	None	
SBR63-5746	1020-1030	87209	7.6	1.5	88.9	2.0	19.8	3.5	.921	None	
SBR63-5747	1030-1040	87210	7.4	1.4	89.0	2.2	19.4	3.4	.922	None	
SBR63-5748	1040-1050	87211	7.4	1.4	88.8	2.4	19.2	3.4	.920	None	
SBR63-5749	1050-1060	87212	5.7	1.9	90.9	1.5	14.9	4.5	.917	None	
SBR63-5750	1060-1070	87213	4.8	1.6	91.9	1.7	12.6	3.8	.914	None	
SBR63-5751	1070-1080	87214	5.3	2.0	91.3	1.4	13.8	4.8	.913	None	
SBR63-5752	1080-1090	87215	4.8	1.8	92.2	1.2	12.5	4.3	.913	None	
SBR63-5753	1090-1100	87216	2.3	1.4	94.9	1.4	5.9	3.4	.918	None	
SBR63-5754	1100-1110	87217	2.0	1.6	95.2	1.2	5.3	3.8	.915	None	
SBR63-5755	1110-1120	87218	2.2	1.4	95.2	1.2	5.9	3.4	.916	None	
SBR63-5756	1120-1130	87219	2.3	1.5	95.4	.8	5.9	3.6	.914	None	
SBR63-5757	1130-1140	87220	7.8	1.7	88.4	2.1	20.3	4.1	.915	None	
SBR63-5758	1140-1150	87221	7.5	1.7	88.5	2.3	19.6	4.1	.915	None	
SBR63-5759	1150-1160	87222	7.3	1.6	88.9	2.2	19.1	3.8	.918	None	
SBR63-5760	1160-1170	87223	.8	.2	98.7	.3	2.1a	.5		None	
SBR63-5761-64	1170-1210						c				

1/ "a" indicates specific gravity estimated as 0.92. Oil yields were estimated by a rapid test-tube method: "No oil", "Trace", "b"--less than 1 gal oil/ton, "c"--1 to 3 gal oil/ton, "d"--3+ gal oil/ton but sample insufficient for assay.

Drill cutting samples received July 17, 1962; assays made on air-dried samples