



## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from <sup>The</sup> Shamrock Oil and Gas Corporation's Alger Pass No. 1 well drilled  
in NW1/4SE1/4 of sec. 29, T. 11 S., R. 19 E., Uintah County, Utah

50' of 15g.

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				
Laramie	Their		Oil	Water					Oil <sup>1/</sup>	Water
SBR63-7242-43	0- 20						No Oil			
SBR63-7244	20- 30						Trace			
SBR63-7245	30- 40						No Oil			
SBR63-7246	40- 50						b			
SBR63-7247	50- 60						c			
SBR63-7248	70- 80						c			
SBR63-7249	100-110						c			
SBR63-7250	110-120						b			
SBR63-7251-61	120-230						c			
SBR63-7262	230-240	88197	1.2	1.7	95.9	1.2	3.0a	4.1		None
SBR63-7263	240-250	88198	1.2	1.7	96.2	.9	3.0a	4.1		None
SBR63-7264	250-260	88199	1.3	1.5	96.2	1.0	3.5a	3.6		None
SBR63-7265	260-270	88200	2.0	1.6	95.7	.7	5.4	3.8	0.902	None
SBR63-7266	270-280	88201	2.6	1.4	94.7	1.3	6.9	3.4	.910	None
SBR63-7267	280-290	88202	2.6	1.7	94.4	1.3	6.7	4.1	.910	None
SBR63-7268	290-300	88203	1.6	1.9	96.0	.5	4.3a	4.4		None
SBR63-7269	300-310	88204	1.7	1.6	95.4	1.3	4.5a	3.8		None
SBR63-7270	310-320	88205	1.4	2.0	96.0	.6	3.7a	4.7		None
SBR63-7271	320-330	88206	1.2	1.9	96.3	.6	3.1a	4.7		None
SBR63-7272	330-340	88207	1.4	2.2	95.8	.6	3.5a	5.3		None
SBR63-7273	340-350	88208	1.4	2.3	95.8	.5	3.7a	5.4		None
SBR63-7274	350-360	88209	1.3	1.2	96.5	1.0	3.5a	2.9		None
SBR63-7275	360-370	88210	1.7	1.3	96.2	.8	4.4a	3.1		None
SBR63-7276-77	370-390						c			
SBR63-7278	390-400	88211	1.1	1.5	96.9	.5	3.0a	3.6		None
SBR63-7279	400-410	88212	1.0	1.5	97.0	.5	2.6a	3.6		None
SBR63-7280	410-420	88213	1.1	1.4	97.0	.5	2.8a	3.4		None
SBR63-7281-82	420-440						c			
SBR63-7283	440-450	88214	1.3	1.5	96.4	.8	3.4a	3.6		None
SBR63-7284	450-460	88215	1.2	1.5	96.8	.5	3.0a	3.6		None

See footnotes at end of table.

Drill cutting samples received February 25, 1963; assays made on air-dried samples

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Shamrock Oil and Gas Corporation's Alger Pass No. 1 well (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		
Laramie	Their		Oil	Water					Oil <sup>1/</sup>	Water
SBR63-7285	460-470	88216	0.6	2.0	97.0	0.4	1.7a	4.8		None
SBR63-7286-87	470-490						c			
SBR63-7288	490-500	88217	.8	1.6	96.8	.8	2.1a	3.8		None
SBR63-7289	500-510	88218	1.0	1.7	96.4	.9	2.5a	4.1		None
SBR63-7290	510-520	88219	1.0	2.1	96.1	.8	2.5a	5.0		None
SBR63-7291	520-530	88220	1.0	2.4	95.8	.8	2.7a	5.8		None
SBR63-7292	530-540	88221	1.4	2.3	95.8	.5	3.6a	5.5		None
SBR63-7293	540-550	88222	1.4	3.2	94.1	1.3	3.7a	7.7		None
SBR63-7294	550-560	88223	2.0	2.4	94.6	1.0	5.1a	5.8		None
SBR63-7295	560-570	88224	1.3	3.0	94.9	.8	3.3a	7.2		None
SBR63-7296	570-580	88225	1.2	2.8	95.3	.7	3.0a	6.7		None
SBR63-7297-98	580-600						c			
SBR63-7299	600-610						Trace			
SBR63-7300	610-620	88226	.2	3.5	95.9	.4	.6a	8.4		None
SBR63-7301	620-630	88227	.8	2.4	96.0	.8	2.1a	5.8		None
SBR63-7302	630-640	88228	.6	2.6	96.4	.4	1.6a	6.2		None
SBR63-7303	640-650	88229	.8	1.8	96.7	.7	2.2a	4.3		None
SBR63-7304	650-660	88230	1.2	2.1	96.3	.4	3.0a	5.0		None
SBR63-7305	660-670	88231	1.2	2.0	96.3	.5	3.2a	4.8		None
SBR63-7306	670-680	88232	1.1	2.1	96.5	.3	2.9a	5.0		None
SBR63-7307	680-690	88233	1.5	1.0	96.2	1.3	3.9a	2.4		None
SBR63-7308	690-700	88234	1.5	1.4	96.2	.9	3.8a	3.4		None
SBR63-7309	700-710	88235	1.6	1.3	96.3	.8	4.1a	3.1		None
SBR63-7310	710-720						d			
SBR63-7311	720-730	88236	1.3	1.8	95.9	1.0	3.5a	4.3		None
SBR63-7312	730-740						c			
SBR63-7313	740-750	88237	1.1	1.0	95.8	2.1	2.8a	2.3		None
SBR63-7314	750-760	88238	1.4	1.7	96.0	.9	3.5a	4.1		None
SBR63-7315	760-770	88239	1.5	1.8	96.1	.6	4.0a	4.3		None
SBR63-7316	770-780	88240	1.3	1.3	96.4	1.0	3.5a	3.1		None

See footnotes at end of table.

Drill cutting samples received February 25, 1963; assays made on air-dried samples

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Shamrock Oil and Gas Corporation's Alger Pass No. 1 well (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		
Laramie	Thier		Oil	Water					Oil <sup>1/</sup>	Water
SBR63-7317	780- 790	88241	1.4	1.5	96.5	0.6	3.6a	3.6		None
SBR63-7318	790- 800	88242	1.5	1.1	96.7	.7	4.0a	2.6		None
SBR63-7319	800- 810	88243	1.6	1.3	96.4	.7	4.1a	3.1		None
SBR63-7320	810- 820	88244	1.5	1.5	96.5	.5	3.9a	3.6		None
SBR63-7321	820- 830	88245	1.2	.8	97.2	.8	3.2a	1.9		None
SBR63-7322	830- 840	88246	2.1	1.1	96.0	.8	5.3	2.6	0.926	None
SBR63-7323	840- 850	88247	2.6	1.1	95.2	1.1	6.8	2.6	.926	None
SBR63-7324	850- 860	88248	3.4	1.3	94.3	1.0	8.8	3.1	.924	None
SBR63-7325	860- 870	88249	2.6	1.0	95.7	.7	6.7	2.4	.926	None
SBR63-7326	870- 880	88250	2.5	.8	95.8	.9	6.4	2.0	.926	None
SBR63-7327	880- 890	88251	5.0	1.0	92.5	1.5	12.9	2.4	.923	None
SBR63-7328	890- 900	88252	6.2	1.3	90.7	1.8	16.2	3.1	.918	None
SBR63-7329	900- 910	88253	4.0	1.4	93.3	1.3	10.6	3.4	.914	None
SBR63-7330	910- 920	88254	4.2	1.4	93.1	1.3	10.9	3.5	.917	None
SBR63-7331	920- 930	88255	2.1	1.6	95.4	.9	5.4	4.0	.920	None
SBR63-7332	930- 940	88256	2.5	2.2	94.5	.8	6.4	5.3	.918	None
SBR63-7333	940- 950	88257	2.9	1.7	94.4	1.0	7.5	4.1	.924	None
SBR63-7334	950- 960	88258	1.7	1.7	95.8	.8	4.4a	4.1		None
SBR63-7335	960- 970	88259	1.6	1.3	96.5	.6	4.2a	3.1		None
SBR63-7336-37	970- 990						c			
SBR63-7338	990-1000	88260	1.5	1.5	96.3	.7	3.8a	3.6		None
SBR63-7339	1000-1010	88261	1.7	1.9	95.6	.8	4.5a	4.6		None
SBR63-7340	1010-1020	88262	2.6	2.2	94.5	.7	6.7	5.3	.925	None
SBR63-7341	1020-1030	88263	2.3	2.4	94.6	.7	5.9	5.8	.921	None
SBR63-7342	1030-1040	88264	2.1	2.2	94.7	1.0	5.4	5.3	.920	None
SBR63-7343	1040-1050	88265	2.8	1.8	93.8	1.6	7.4	4.3	.926	None
SBR63-7344	1050-1060	88266	1.9	1.8	95.6	.7	4.9a	4.3		None
SBR63-7345	1060-1070	88267	.9	2.2	96.3	.6	2.2a	5.3		None
SBR63-7346-48	1070-1100						c			
SBR63-7349	1100-1110	88268	1.1	1.7	96.7	.5	2.9a	4.1		None

See footnotes at end of table.

Drill cutting samples received February 25, 1963; assays made on air-dried samples

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Shamrock Oil and Gas Corporation's Alger Pass No. 1 well (con.)

Sample number		Run No.	Yield of product				Specific gravity of oil at 60°/60°F.		Properties of spent shale	Remarks
Laramie	Their		Weight percent		Spent shale	Gas + loss	Gal. per ton		Tendency to coke	
			Oil	Water			Oil <sup>1/</sup>	Water		
SBR63-7350	1110-1120	88269	1.9	1.2	95.7	1.2	5.0a	2.9		None
SBR63-7351	1120-1130	88270	1.6	1.0	96.2	1.2	4.2a	2.5		None
SBR63-7352	1130-1140	88271	2.8	1.1	95.0	1.1	7.3	2.7	0.919	None
SBR63-7353	1140-1150	88272	6.3	1.1	91.4	1.2	16.5	2.6	.911	None
SBR63-7354	1150-1160	88273	6.8	.3	90.0	2.9	17.9	.8	.912	None
SBR63-7355	1160-1170						d			
SBR63-7356	1170-1180	88274	5.4	.7	92.3	1.6	14.2	1.7	.912	None
SBR63-7357	1180-1190	88275	5.2	.8	92.8	1.2	13.5	1.9	.915	None
SBR63-7358	1190-1200	88276	4.4	.5	93.5	1.6	11.5	1.1	.918	None
SBR63-7359	1200-1210	88277	1.3	1.3	97.0	.4	3.4a	3.1		None
SBR63-7360	1210-1220	88278	.9	1.7	97.1	.3	2.4a	4.1		None
SBR63-7361-62	1220-1240						c			
SBR63-7363	1250-1260	88279	.7	.9	98.1	.3	1.9a	2.2		None
SBR63-7364	1260-1270	88280	6.2	.7	91.7	1.4	16.1a	1.6		None
SBR63-7365-66	1270-1290						c			
SBR63-7367	1290-1300						d			
SBR63-7368	1300-1310	88281	6.4	.8	90.6	2.2	16.6	1.8	.928	None
SBR63-7369	1310-1320	88282	3.4	.9	94.8	.9	8.7	2.3	.925	None
SBR63-7370	1320-1330	88283	1.6	1.1	96.8	.5	4.0a	2.6		None
SBR63-7371	1330-1340						c			
SBR63-7372	1340-1350	88284	1.1	1.2	97.6	.1	2.9a	2.9		None
SBR63-7373	1350-1360	88285	.9	.9	97.8	.4	2.4a	2.2		None
SBR63-7374	1360-1370	88286	1.0	.8	97.4	.8	2.7a	1.9		None
SBR63-7375	1370-1380	88287	.9	1.0	97.2	.9	2.2a	2.3		None
SBR63-7376	1380-1390						c			
SBR63-7377-80	1400-1440						c			
SBR63-7381	1440-1450	88288	1.3	1.5	96.8	.4	3.5a	3.6		None
SBR63-7382	1450-1460	88289	1.0	1.8	96.7	.5	2.7a	4.2		None
SBR63-7383	1460-1470	88290	.9	1.2	97.3		2.4a	2.9		None
SBR63-7384-86	1470-1500						c			

<sup>1/</sup> "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 February 25, 1963; assays made on air-dried samples