

Possibly 70' of 15' CR 240 ✓

**OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD**

Samples from Shamrock Oil and Gas Corporation's Government well 1-5 drilled in SW1/4NW1/4SE1/4  
1933 feet N/S 2062 feet W/E of sec. 5, T. 12 S., R. 22 E., Uintah County, Utah

Kelly Bushing elevation 6,264 feet

Mahogany Marker 4834(?)

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	Oil <sup>1/</sup>	Water			
Laramie	Their		Oil	Water							
SBR63-5312	410- 420						c				
SBR63-5313-16	430- 470						b				
SBR63-5317-19	470- 500						Trace				
SBR63-5320-28	500- 590						b				
SBR63-5329-30	590- 610						c				
SBR63-5331-34	630- 670						c				
SBR63-5335-36	670- 690						b				
SBR63-5337-47	690- 800						c				
SBR63-5348-50	830- 860						c				
SBR63-5351	860- 870	86927	0.6	1.3	97.6	0.5	1.6a	3.1		None	
SBR63-5352	900- 910	86928	1.7	1.2	96.1	1.0	4.5a	2.8		None	
SBR63-5353	920- 930	86929	1.6	1.1	96.2	1.1	4.2a	2.6		None	
SBR63-5354	950- 960	86930	1.5	.6	96.8	1.1	3.9a	1.4		None	
SBR63-5355	970- 980	86931	1.8	.6	96.5	1.1	4.6a	1.6		None	
SBR63-5356	980- 990	86932	1.8	1.0	96.3	.9	4.6a	2.4		None	
SBR63-5357	990-1000	86933	1.6	.9	96.3	1.2	4.2a	2.2		None	
SBR63-5358	1000-1010	86934	1.8	1.0	96.3	.9	4.7a	2.3		None	
SBR63-5359	1010-1020	86935	1.8	.9	96.2	1.1	4.6a	2.3		None	
SBR63-5360	1030-1040	86936	3.0	1.0	95.0	1.0	7.7	2.4	0.925	None	
SBR63-5361	1040-1050	86937	2.4	.9	95.6	1.1	6.0	2.2	.932	None	
SBR63-5362	1050-1060	86938	1.5	1.2	96.3	1.0	3.9a	2.9		None	
SBR63-5363	1060-1070	86939	1.2	1.1	96.8	.9	3.0a	2.6		None	
SBR63-5364	1070-1080	86940	1.0	1.1	96.7	1.2	2.6a	2.5		None	
SBR63-5365	1080-1090	86941	.9	1.0	97.0	1.1	2.4a	2.3		None	
SBR63-5366	1100-1110	86942	1.6	.9	96.4	1.1	4.1a	2.2		None	
SBR63-5367	1110-1120	86943	2.9	.7	95.0	1.4	7.4	1.7	.942	None	
SBR63-5368	1120-1130	86944	2.8	.8	95.1	1.3	7.0	1.9	.939	None	
SBR63-5369	1130-1140	86945	2.7	.7	95.5	1.1	6.8	1.7	.939	None	
SBR63-5370	1140-1150	86946	2.7	.7	95.4	1.2	6.9	1.7	.930	None	
SBR63-5371	1150-1160	86947	3.1	.7	94.7	1.5	8.0	1.8	.931	None	

See footnotes at end of table.

Drill cutting samples received May 9, 1962; assays made on air-dried samples

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Shamrock Oil and Gas Corporation's Government well 1-5 (con.)

Kelly Bushing elevation 6,264 feet

Mahogany		Run No.	Yield of product				Gal. per ton		Specific gravity of oil at 60°/60°F.	Properties of spent shale		Remarks
Sample number			Weight percent		Spent shale	Gas + loss	Oil <sup>1/</sup>	Water		Tendency to coke		
Laramie	Their		Oil	Water								
SBR63-5372	1160-1170	86948	3.1	0.8	95.1	1.0	8.0	1.8	0.931	None		
SBR63-5373	1170-1180	86949	2.3	.4	95.6	1.7	5.9	1.1	.932	None		
SBR63-5374	1180-1190	86950	2.4	.4	95.6	1.6	6.1	1.1	.931	None		
SBR63-5375	1190-1200	86951	2.0	.7	96.0	1.3	5.1a	1.7		None		
SBR63-5376	1200-1210	86952	2.4	.9	95.6	1.1	6.1	2.2	.933	None		
SBR63-5377	1210-1220	86953	2.0	.6	95.9	1.5	5.1a	1.6		None		
SBR63-5378	1220-1230	86954	2.2	.8	95.7	1.3	5.7	1.9	.930	None		
SBR63-5379	1230-1240	86955	2.8	.6	95.1	1.5	7.1	1.4	.933	None		
SBR63-5380	1240-1250	86956	2.5	.6	95.3	1.6	6.5	1.4	.929	None		
SBR63-5381	1250-1260	86957	3.7	.7	94.1	1.5	9.5	1.6	.932	None		
SBR63-5382	1260-1270	86958	3.7	.8	94.0	1.5	9.7	1.9	.927	None		
SBR63-5383	1270-1280	86959	3.6	.9	93.9	1.6	9.4	2.2	.925	None		
SBR63-5384	1280-1290	86960	3.7	1.0	93.7	1.6	9.5	2.4	.923	None		
SBR63-5385	1290-1300	86961	2.8	.7	95.0	1.5	7.3	1.7	.930	None		
SBR63-5386	1300-1310	86962	2.9	1.0	94.9	1.2	7.5	2.4	.930	None		
SBR63-5387	1310-1320	86963	2.5	.3	95.3	1.9	6.5a	.8		None		
SBR63-5388	1320-1330	86964	2.5	1.0	95.4	1.1	6.5	2.4	.934	None		
SBR63-5389	1330-1340	86965	2.1	.6	95.0	2.3	5.3a	1.5		None		
SBR63-5390	1340-1350	86966	2.4	.9	95.4	1.3	6.3	2.0	.930	None		
SBR63-5391	1350-1360	86967	2.7	1.1	95.1	1.1	7.0	2.6	.930	None		
SBR63-5392	1360-1370	86968	2.8	1.2	95.3	.7	7.1	2.9	.928	None		
SBR63-5393	1370-1380	86969	2.7	1.0	95.1	1.2	6.9	2.4	.929	None		
SBR63-5394	1380-1390	86970	3.0	1.1	94.9	1.0	7.9	2.6	.927	None		
SBR63-5395	1390-1400	86971	2.6	.9	95.3	1.2	6.7	2.3	.927	None		
SBR63-5396	1400-1410	86972	3.5	1.0	94.1	1.4	9.1	2.3	.926	None		
SBR63-5397	1410-1420	86973	4.3	.8	93.7	1.2	11.1	2.0	.923	None		
SBR63-5398	1420-1430	86974	5.2	.8	92.7	1.3	13.5	2.0	.920	None		
SBR63-5399	1430-1440	86975	5.1	.9	92.9	1.1	13.3	2.2	.920	None		
SBR63-5400	1440-1450	86976	4.5	.9	93.4	1.2	11.6	2.2	.923	None		
SBR63-5401	1450-1460	86977	4.4	1.0	93.8	.8	11.3	2.4	.921	None		

See footnotes at end of table.

Drill cutting samples received May 9, 1962; assays made on air-dried samples

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Shamrock Oil and Gas Corporation's Government well 1-5 (con.)

Kelly Bushing elevation 6,264 feet

Kelly Bushing elevation 8,264 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 <sup>1/</sup>	Water				
Laramie	Their											
SBR63-5402	1460-1470	86978	4.2	0.8	94.2	0.8	10.9	1.8	0.925	None		
SBR63-5403	1470-1480	86979	4.1	1.0	93.9	1.0	10.6	2.3	.925	None		
SBR63-5404	1480-1490	86980	2.8	.8	95.7	.7	7.2	1.9	.924	None		
SBR63-5405	1490-1500	86981	2.9	.9	95.6	.6	7.6	2.0	.925	None		
SBR63-5406	1500-1510	86982	3.1	.9	95.4	.6	8.1	2.0	.914	None		
SBR63-5407	1510-1520	86983	3.0	.9	95.5	.6	7.9	2.0	.915	None		
SBR63-5408	1520-1530	86984	2.8	1.0	95.5	.7	7.4	2.4	.913	None		
SBR63-5409	1530-1540	86985	3.0	.6	94.9	1.5	7.7	1.4	.921	None		
SBR63-5410	1540-1550	86986	2.9	.6	95.1	1.4	7.5	1.6	.921	None		
SBR63-5411	1550-1560	86987	2.9	.7	95.3	1.1	7.6	1.6	.918	None		
SBR63-5412	1560-1570	86988	1.1	.6	97.8	.5	3.0a	1.3		None		
SBR63-5413-15	1570-1600						c					

<sup>1/</sup> "a" indicates specific gravity estimated as 0.92. Oil yields were estimated by a rapid test-tube method: "Trace", "b"--less than 1 gal oil/ton, "c"--1 to 3 gal oil/ton.

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