

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Devon Corporation's Big Ridge Unit Well No. 1 drilled in the SE1/4SE1/4 (810 feet FEL, 659 feet FSL) of sec 23, T 15 N, R 106 W, Sweetwater County, Wyoming

Kelly bushing elevation 8,069 feet

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		Gas + loss	Gal per ton				
Laramie	Their		Oil	Water		Spent shale		Oil <sup>1/</sup>	Water	
SBR75-2139-47	70-160						No oil			
SBR75-2148	160-170						Trace			
SBR75-2149	170-180						c			
SBR75-2150	180-190						b			
SBR75-2151	190-200						Trace			
SBR75-2152-5	200-240						No oil			
SBR75-2156-8	240-270						Trace			
SBR75-2159	270-280						b			
SBR75-2160	280-290						Trace			
SBR75-2161-2	290-310						No oil			
SBR75-2163	340-350	99205	4.1	1.6	93.1	1.2	10.7	3.8	0.918	None
SBR75-2164-6	390-440						No oil			
SBR75-2167	440-460						Trace			
SBR75-2168	460-480						No oil			
SBR75-2169	480-500						Trace			
SBR75-2170	500-520						No oil			
SBR75-2171	520-540	99206	.0	1.8	97.1	1.1	Trace	4.2		None
SBR75-2172	540-560	99207	1.1	2.6	95.1	1.2	2.9	6.3		None
SBR75-2173	560-580	99208	1.8	3.4	93.8	1.0	4.6	8.1		None
SBR75-2174	580-600	99209	1.4	4.0	93.4	1.2	3.5	9.6		None
SBR75-2175	600-620	99210	1.6	3.8	93.0	1.6	4.2	9.1		None
SBR75-2176	620-640	99211	1.2	3.8	94.1	.9	3.0	9.1		None
SBR75-2177	640-655	99212	2.9	4.0	91.4	1.7	7.3	9.6	.942	None
SBR75-2178	655-670	99213	1.9	3.7	93.6	.8	4.9	8.9		None
SBR75-2179	670-685	99214	1.2	3.7	94.3	.8	3.1	8.9		None
SBR75-2180	685-700	99215	1.6	4.5	92.9	1.0	4.1	10.8		None
SBR75-2181	700-715	99216	.6	2.8	96.1	.5	1.6	6.7		None
SBR75-2182	715-730	99217	.6	2.9	96.1	.4	1.7	7.0		None
SBR75-2183	730-740	99218	2.4	2.7	93.9	1.0	6.1	6.5	.920	None
SBR75-2184	740-755	99219	.6	2.8	95.9	.7	1.5	6.7		None

See footnote at end of table.

Drill cutting samples received November 19, 1974; assays made on air-dried samples

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Samples from Devon Corporation's Big Ridge Unit Well No. 1 (con.)

Kelly bushing elevation 8,069 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		
Laramie	Their		Oil	Water	Spent shale	Gas + loss	Oil <sup>1/</sup>	Water	coke	
SBR75-2185	755-770						c			
SBR75-2186-7	780-810						b			
SBR75-2188	800-815	99220	1.6	3.4	93.8	1.2	4.3	8.1	None	
SBR75-2189	815-850	99221	1.5	3.2	94.0	1.3	3.9	7.7	None	
SBR75-2190	850-860	99222	2.6	3.2	92.2	2.0	6.8	7.7	0.930	None
SBR75-2191	860-870	99223	3.2	3.0	92.0	1.8	8.3	7.2	.924	None
SBR75-2192	870-880	99224	10.1	2.6	84.9	2.4	26.6	6.2	.910	None
SBR75-2193	880-890	99225	8.9	2.6	86.3	2.2	23.5	6.2	.909	None
SBR75-2194	890-900	99226	7.3	2.7	88.0	2.0	19.1	6.5	.911	None
SBR75-2195	900-910	99227	5.5	3.2	89.8	1.5	14.4	7.7	.912	None
SBR75-2196	910-920	99228	5.3	3.3	89.9	1.5	13.8	7.9	.914	None
SBR75-2197	920-930	99229	5.5	3.2	89.8	1.5	14.5	7.7	.913	None
SBR75-2198	930-940	99230	5.0	3.2	90.2	1.6	13.2	7.7	.912	None
SBR75-2199	940-950	99231	4.0	2.5	92.2	1.3	10.3	6.0	.922	None
SBR75-2200	950-960	99232	3.8	2.6	92.1	1.5	10.0	6.2	.921	None
SBR75-2201	960-970	99233	4.2	2.2	92.4	1.2	11.0	5.3	.918	None

<sup>1/</sup> 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.

Drill cutting samples received November 19, 1974; assays made on air-dried samples