

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Colorado Interstate Gas Exploration Company's Shute Creek Unit Well 31-23-112 drilled in the SE1/4NW1/4 (1980 feet FNL, 3300 feet FEL) of sec. 31, T 23 N, R 112 W, Lincoln County, Wyoming

Surface elevation: 6,602 feet

Sample number		Run No.	Yield of product				Specific gravity of oil at 60°/60° F	Properties of spent shale		Remarks
			Weight percent		Gas + loss	Gal per ton		Tendency to coke		
Laramie	Their		Oil	Water		Spent shale			Oil ^{1/}	Water
SBR76-11363-67	70-120						No oil			
SBR76-11368	120-130						Trace			
SBR76-11369-74	130-190						No oil			
SBR76-11375	190-200						Trace			
SBR76-11376-85	200-300						No oil			
SBR76-11386	300-310						Trace			
SBR76-11387	310-320						c			
SBR76-11388	320-330						b			
SBR76-11389-90	330-350						c			
SBR76-11391	350-360						b			
SBR76-11392-93	360-380						c			
SBR76-11394	380-390						b			
SBR76-11395-96	390-410						c			
SBR76-11397	410-420						b			
SBR76-11398	420-430						c			
SBR76-11399	430-440						b			
SBR76-11400	440-450	24290	0.3	2.3	96.7	0.7	0.8a	5.5		None
SBR76-11401	450-460	24291	.4	1.5	96.5	1.6	1.0a	3.6		None
SBR76-11402	460-470	24292	.4	2.4	96.6	.6	1.0a	5.7		None
SBR76-11403	470-480	24293	.4	2.4	96.9	.3	.9a	5.8		None
SBR76-11404	480-490	24294	.4	2.8	95.8	1.0	1.1a	6.7		None
SBR76-11405	490-500						No oil			
SBR76-11406	500-510						b			
SBR76-11407-12	510-570						No oil			
SBR76-11413-15	570-600						b			
SBR76-11416-17	600-620						No oil			
SBR76-11418	620-630						c			
SBR76-11419	630-640						b			
SBR76-11420-21	640-660						Trace			
SBR76-11422	660-670						c			

See footnote at end of table.

Drill cuttings received April 7, 1976; assays made on air-dried samples

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			Weight percent		Spent shale	Gas + loss			
Laramie	Their		Oil	Water					Oil ^{1/}
SBR76-11423	670-680						b		
SBR76-11424	680-690						Trace		
SBR76-11425-29	690-740						No oil		
SBR76-11430	740-750						Trace		
SBR76-11431	750-760						b		
SBR76-11432	760-770	24295	1.4	1.6	96.3	0.7	3.8a	3.7	None
SBR76-11433	770-780	24296	1.1	1.6	96.7	.6	2.9a	3.8	None
SBR76-11434-35	780-800						b		
SBR76-11436-65	800-1100						No oil		
SBR76-11466	1100-1110	24297	1.9	1.6	95.6	.9	5.0a	3.8	None
SBR76-11467	1110-1120	24298	1.1	1.7	95.7	1.5	2.7a	4.1	None
SBR76-11468-69	1120-1140						Trace		
SBR76-11470	1140-1150						c		
SBR76-11471	1150-1160	24299	.5	1.3	96.5	1.7	1.4a	3.1	None
SBR76-11472	1160-1170	24300	.7	1.8	97.0	.5	1.8a	4.3	None
SBR76-11473	1170-1180	24301	.4	2.2	96.9	.5	1.1a	5.3	None
SBR76-11474	1180-1190	24302	.3	1.9	97.1	.7	.9a	4.6	None
SBR76-11475	1190-1200	24303	.4	2.1	97.0	.5	1.2a	5.0	None
SBR76-11476-78	1200-1230						Trace		
SBR76-11479-507	1230-1520						No oil		
SBR76-11508	1520-1530						b		
SBR76-11509-20	1530-1650						No oil		
SBR76-11521-25	1650-1700						b		
SBR76-11526-35	1700-1800						Trace		
SBR76-11536-602	1800-2470						No oil		
SBR76-11603	2470-2480	24304	.0	1.6	97.7	.7	Trace	3.8	None
SBR76-11604-28	2480-2730						No oil		
SBR76-11629-30	2730-2750						c		
SBR76-11631-50	2750-2950						No oil		
SBR76-11651	2950-2960						Trace		

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			Weight percent		Gal per ton				
Laramie	Their		Oil	Water	Spent shale	Gas + loss	Oil ^{1/} Water		
SBR76-11652	2960-2970						b		
SBR76-11653	2970-2980						No oil		
SBR76-11654-55	2980-3000						b		

^{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.

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