

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from USBM Rock Springs Project Well No. 5-2 drilled in SE1/4SE1/4NW1/4 sec 15, T 18 N,
R 106 W, Sweetwater County, Wyoming

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	Water	coke	
SBR68-429	40.2-40.8	28015	10.6	2.3	84.7	2.4	27.5	5.5	None	
SBR68-430	40.8-41.4	28016	10.7	2.0	83.9	3.4	27.9	4.8	None	
SBR68-431	41.4-41.6	28052	7.3	1.6	88.8	2.3	18.9	3.7	None	
SBR68-432	41.6-42.6	28018	7.2	1.4	88.3	3.1	18.7	3.4	None	
SBR68-433	42.6-43.5	28019	7.2	1.3	89.1	2.4	18.7	3.1	None	
SBR68-434	43.5-43.9	28020	5.6	.7	91.3	2.4	14.7	1.7	None	
SBR68-435	43.9-44.6	28021	6.5	1.2	89.9	2.4	17.2	2.8	None	
SBR68-436	44.6-45.6	28022	7.6	1.9	87.3	3.2	19.9	4.6	None	
SBR68-437	45.6-46.6	28023	5.7	2.4	89.2	2.7	14.9	5.8	None	
SBR68-438	46.6-47.6	28024	4.4	2.4	90.0	3.2	11.6	5.8	None	
SBR68-439	47.6-47.8	28025	5.2	2.2	89.7	2.9	13.7	5.3	None	
SBR68-440	47.8-48.1	28026	6.0	2.7	88.9	2.4	15.7	6.5	None	
SBR68-441	48.1-48.8	28027	7.5	2.3	87.7	2.5	19.3	5.5	None	
SBR68-442	48.8-49.8	28028	8.5	2.5	85.2	3.8	22.0	6.0	None	
SBR68-443	49.8-50.1	28029	6.0	2.5	88.9	2.6	15.5	6.0	None	
SBR68-444	50.1-50.8	28030	6.6	2.2	87.8	3.4	17.1	5.3	None	
SBR68-445	50.8-51.8	28031	5.0	1.9	88.6	4.5	12.9	4.6	None	
SBR68-446	51.8-52.8	28032	5.2	2.2	88.6	4.0	13.3	5.3	None	
SBR68-447	52.8-53.4	28033	5.4	2.2	88.5	3.9	13.7	5.3	None	
SBR68-448	53.4-53.7	28034	3.4	3.8	90.3	2.5	8.7	9.1	None	
SBR68-449	53.7-54.7	28035	8.8	2.1	86.0	3.1	22.9	5.0	None	
SBR68-450	54.7-55.3	28036	9.8	1.7	85.0	3.5	23.4	4.1	None	
SBR68-451	55.3-56.3	28037	8.8	2.3	85.8	3.1	22.7	5.5	None	
SBR68-452	56.3-56.6	28038	11.5	2.2	81.7	4.6	29.8	5.3	None	
SBR68-453	56.6-57.6	28039	7.8	2.2	87.5	2.5	19.9	5.3	None	
SBR68-454	57.6-58.6	28040	8.4	2.5	86.7	2.4	21.3	6.0	None	
SBR68-455	58.6-59.6	28041	6.2	2.1	89.0	2.7	15.5	5.0	None	
SBR68-456	59.6-60.6	28042	7.5	2.5	86.6	3.4	19.1	6.0	None	
SBR68-457	60.6-60.9	28043	11.2	2.1	82.6	4.1	29.0	5.0	None	
SBR68-458	60.9-61.0	28044	9.4	2.0	85.1	3.5	24.2	4.8	None	

Core samples received January 4, 1967; assays made on air-dried samples

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Samples from USEM Rock Springs Project Well No. 5-2 (con.)

Sample number		Run No.	Yield of Product				Specific gravity of oil at 60°/60° F	Properties of spent shale		Remarks	
			Weight percent		Gas + Spent shale	Gal per ton		Tendency to coke			
Laramie	Their		Oil	Water			Oil ^{1/}		Water		
SBR68-459	61.0-62.0	28045	12.4	1.6	82.3	3.7	32.3	3.8	0.921	None	
SBR68-460	62.0-62.2	28046	12.6	1.4	82.6	3.4	32.9	3.4	.918	None	
SBR68-461	62.2-62.4	28047	9.8	.8	86.5	2.9	25.5	2.0	.921	None	
SBR68-462	62.4-63.0	28048	9.3	.6	86.7	3.4	24.1	1.4	.924	None	
SBR68-463	63.0-63.1	28049	8.9	.9	88.9	1.3	23.3	2.2	.919	None	
SBR68-464	63.1-64.1	28050	11.7	1.2	84.2	2.9	30.6	2.9	.918	None	
SBR68-465	64.1-64.8	28051	11.4	1.1	84.8	2.7	29.7	2.6	.917	None	
SBR68-466	64.8-65.8	28055	11.0	1.6	85.0	2.4	28.7	3.8	.917	None	
SBR68-467	65.8-66.1	28056	9.2	1.7	85.7	3.4	24.0	4.1	.922	None	
SBR68-468	66.1-66.2	28057	7.2	3.3	88.4	1.1	19.0	8.0	.908	None	
SBR68-469	66.2-66.6	28058	7.3	2.3	88.8	1.6	19.4	5.5	.908	None	
SBR68-470	66.6-67.4	28059	9.0	2.2	86.5	2.3	23.8	5.2	.910	None	
SBR68-471	67.4-68.1	28060	7.0	2.6	89.0	1.4	18.4	6.2	.914	None	
SBR68-472	68.1-68.9	28061	7.0	2.2	88.8	2.0	18.2	5.3	.925	None	
SBR68-473	68.9-69.5	28079	5.6	2.1	89.3	3.0	14.2	5.0	.935	None	
SBR68-474	69.5-70.5	28063	10.7	1.9	85.1	2.3	27.6	4.6	.928	None	
SBR68-475	70.5-70.8	28064	11.2	1.9	84.2	2.7	29.0	4.6	.923	None	
SBR68-476	70.8-71.2	28065	10.2	4.0	82.9	2.9	27.2	9.6	.898	None	
SBR68-477	71.2-71.6	28066	11.0	1.9	81.3	5.8	28.9	4.6	.912	None	
SBR68-478	71.6-72.6	28067	5.0	2.1	90.4	2.5	13.2	5.0	.912	None	
SBR68-479	72.6-73.2	28068	6.2	1.2	89.4	3.2	16.2	2.9	.926	None	
SBR68-480	73.2-73.3	28069	2.3	.3	95.4	2.0	6.0a	.8		None	
SBR68-481	73.3-73.4	28070	4.8	.1	90.0	5.1	12.4a	.3		None	
SBR68-482	73.4-73.5	28071	3.0	2.5	91.8	2.7	7.7a	6.1		None	
SBR68-483	73.5-74.2	28072	10.9	1.2	83.9	4.0	28.4	2.9	.920	None	
SBR68-484	74.2-74.8	28073	9.5	1.6	85.7	3.2	24.5	3.8	.925	None	
SBR68-485	74.8-74.9	28074	5.6	4.5	85.7	4.2	14.5	10.8	.925	None	
SBR68-486	74.9-75.9	28075	6.4	2.4	88.0	3.2	16.9	5.8	.911	None	
SBR68-487	75.9-77.0	28076	3.5	2.0	92.4	2.1	9.4	4.8	.896	None	
SBR68-488	77.0-77.2	28077	2.0	1.5	94.8	1.7	5.1a	3.6		None	

See footnotes at end of table.

Core samples received January 4, 1967; assays made on air-dried samples

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<u>Sample-number</u>		Run No.	Yield of Product				Specific gravity of oil at 60°/60° F	Properties of <u>spent shale</u> Tendency to coke	Remarks
			<u>Weight percent</u>		<u>Gal per ton</u>				
Laramie	Their		Oil	Water	Spent shale	Gas + loss	Oil ^{1/}	Water	
SBR68-489	77.2-78.1	28078	2.0	1.2	95.8	1.0	5.2a	2.9	None

^{1/} "a"--indicates specific gravity estimated as 0.92.

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