

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from USBM Rock Springs Well No. 3-2 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	
OSCR-RS-3-2	40.0-41.0	11131	7.9	1.4	88.6	2.1	20.7	3.4	None	
	41.0-41.5	11132	6.5	1.5	90.1	1.9	17.0	3.6	None	
	41.5-42.3	11133	3.5	1.0	93.2	2.3	9.0a	2.4	None	
	42.3-43.2	11134	6.2	2.4	89.4	2.0	16.2	5.8	None	
	43.2-44.1	11135	5.1	2.8	90.2	1.9	13.4	6.7	None	
	44.1-45.1	11136	6.5	2.5	89.3	1.8	17.0	6.0	None	
	45.1-46.1	11137	4.7	2.6	91.6	1.1	12.3	6.2	None	
	46.1-47.0	11138	7.0	2.6	88.3	2.2	18.1	6.1	None	
	47.0-48.0	11139	8.1	2.8	86.4	2.7	20.9	6.7	None	
	48.0-48.3	11140	6.5	2.4	87.9	3.3	16.7	5.6	None	
	48.3-49.0	11141	6.4	2.7	88.6	2.3	16.4	6.5	None	
	49.0-49.1	11142	5.4	3.1	88.0	3.5	14.0	7.3	None	
	49.1-50.0	11143	8.7	2.5	85.2	3.6	22.4	6.0	None	
	50.0-50.8	11144	4.1	2.2	90.2	3.5	10.5	5.3	None	
	50.8-50.9	11145	4.8	3.1	89.9	2.2	12.2	7.4	None	
	50.9-51.9	11146	5.2	2.5	89.7	2.6	13.3	6.0	None	
	51.9-52.5	11147	7.0	2.2	88.6	2.2	17.8	5.3	None	
	52.5-52.7	11148	9.8	2.3	84.9	3.0	25.3	5.5	None	
	52.7-52.8	11149	5.4	1.3	92.0	1.4	13.9	3.0	None	
	52.8-53.5	11150	10.5	1.9	84.6	3.0	27.2	4.6	None	
	53.5-54.2	11151	9.4	2.0	86.0	2.6	24.3	4.8	None	
	54.2-55.3	11152	9.0	2.5	85.2	3.3	23.2	6.0	None	
	55.3-56.3	11153	7.5	2.5	88.1	2.0	19.0	6.0	None	
	56.3-57.3	11154	8.1	2.3	87.8	1.8	20.6	5.4	None	
	57.3-58.3	11155	5.9	2.5	89.3	2.3	14.9	5.9	None	
	58.3-59.0	11156	6.6	2.9	88.2	2.4	16.7	6.8	None	
	59.0-59.1	11157	5.5	1.5	91.0	2.0	14.1	3.6	None	
	59.1-59.6	11158	10.7	3.1	82.0	4.2	27.7	7.3	None	
	59.6-59.8	11159	4.7	6.0	87.7	1.6	12.1	14.4	None	
	59.8-59.9	11160	7.8	1.5	88.9	1.8	20.4	3.5	None	

Core samples received January 1966; assays made on as received basis

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from USBM Rock Springs Well No. 3-2 (con.)

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 ^{1/}	Water		coke		
OSCR-RS-3-2	59.9-60.0	11161	15.6	2.9	77.5	4.0	40.8	7.0	0.919	None		
	60.0-60.1	11162	11.0	2.3	83.4	3.3	28.4	5.5	.923	None		
	60.1-60.5	11163	10.8	2.0	83.7	3.5	28.2	4.8	.919	None		
	60.5-60.8	11164	11.6	2.1	82.6	3.7	30.3	5.0	.917	None		
	60.8-61.4	11165	10.7	2.2	84.6	2.6	28.0	5.3	.911	None		
	61.4-61.6	11166	10.0	1.2	86.7	2.1	26.4	2.9	.906	None		
	61.6-62.6	11167	10.2	1.7	85.4	2.7	26.9	4.1	.909	None		
	62.6-62.8	11168	10.7	1.6	85.0	2.7	28.1	3.8	.911	None		
	62.8-62.9	11169	4.1	.8	93.8	1.4	10.6	1.8	.918	None		
	62.9-63.9	11170	13.5	2.7	80.0	3.8	35.4	6.5	.911	None		
	63.9-64.7	11171	7.9	2.6	87.8	1.7	20.5	6.2	.919	None		
	64.7-64.9	11172	7.3	3.8	88.1	.9	19.0a	9.0		None		
	64.9-65.4	11173	5.9	2.8	90.6	.7	15.3a	6.7		None		
	65.4-65.8	11174	10.0	2.8	84.6	2.7	26.4	6.6	.907	None		
	65.8-65.9	11175	4.9	2.5	91.7	.9	12.8a	5.9		None		
	65.9-67.0	11176	4.9	1.7	91.0	2.4	12.9	4.1	.917	None		
	67.0-67.2	11177	8.3	3.0	87.3	1.4	21.5	7.2	.920	None		
	67.2-68.0	11178	6.6	2.0	89.8	1.6	17.2	4.8	.919	None		
	68.0-68.1	11179	5.3	1.7	91.4	1.6	13.9	4.1	.921	None		
	68.1-68.2	11180	7.4	1.9	98.7	2.0	19.3	4.5	.921	None		
	68.2-68.3	11181	3.5	.8	94.7	1.0	9.0	1.9	.925	None		
	68.3-69.4	11182	10.1	2.0	85.7	2.2	27.2	4.8	.892	None		
	69.4-69.8	11183	10.5	3.8	83.7	2.0	27.5	9.1	.913	None		
	69.8-70.2	11184	12.1	2.4	83.0	2.5	32.1	5.8	.903	None		
	70.2-71.2	11185	4.1	2.8	92.1	1.0	10.8	6.7	.920	None		
	71.2-71.6	11186	5.7	2.3	90.4	1.7	15.0	5.4	.908	None		
	71.6-72.1	11187	5.1	1.2	92.1	1.6	13.3	2.9	.919	None		
	72.1-72.2	11188	7.8	2.0	88.2	2.0	20.3	4.8	.917	None		
	72.2-72.3	11189	1.8	.5	97.4	.3	4.8a	1.2		None		
	72.3-72.5	11190	7.5	1.3	89.6	1.6	19.7	3.1	.910	None		

See footnotes at end of table.

Core samples received January 1966; assays made on as received basis

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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		shale			Oil	Water
OSCR-RS-3-2	72.5-72.9	11191	10.4	1.4	85.7	2.5	27.3	3.4	0.911	None
	72.9-73.3	11192	11.4	1.4	84.4	2.8	30.0	3.4	.912	None
	73.3-73.5	11193	8.3	1.0	88.2	2.5	21.8	2.4	.917	None
	73.5-74.0	11194	9.8	1.1	86.7	2.4	26.1	2.6	.895	None
	74.0-74.1	11195	5.7	4.0	89.3	1.0	15.0	9.6	.917	None
	74.1-75.0	11196	6.3	2.2	89.9	1.6	16.8	5.3	.891	None
	75.0-75.3	11197	2.2	2.8	93.0	2.0	5.8	6.7	.913	None

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

Core samples received January 1966; assays made on as received basis

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