

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Skelly Oil Company's Federal-D Well 1 drilled in the NW1/4NE1/4 (1,980 feet FNL, 1,980 feet FEL (irreg. sec.)) of sec 2, T 16 N, R 100 W, Sweetwater County, Wyoming

Surface elevation 8,055 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	
SBR75-12289-90	30- 50						No Oil			
SBR75-12291	160-170	5651	5.3	2.1	90.4	2.2	14.1	5.0	0.904	None
SBR75-12292	180-190	5652	5.5	1.8	91.0	1.7	14.6	4.3	.904	None
SBR75-12293	190-200	5653	6.4	2.0	90.4	1.2	16.9	4.9	.906	None
SBR75-12294	200-210	5654	5.0	2.1	89.4	3.5	13.1	5.0	.910	None
SBR75-12295	210-220	5655	3.0	2.0	93.3	1.7	7.7a	4.8		None
SBR75-12296	220-230	5656	3.3	2.9	91.3	2.5	8.8	7.0	.909	None
SBR75-12297	230-240	5658	4.0	2.9	91.3	1.8	10.6	7.0	.912	None
SBR75-12298	240-250	5659	4.5	2.2	91.3	2.0	12.0	5.3	.912	None
SBR75-12299	250-260	5660	5.1	2.3	90.3	2.3	13.2	5.5	.925	None
SBR75-12300	260-270	5661	4.2	2.1	91.6	2.1	10.8	5.0	.929	None
SBR75-12301	270-280	5662	4.3	2.0	91.5	2.2	11.0	4.8	.934	None
SBR75-12302	280-290	5663	4.0	2.1	92.3	1.6	10.4	5.0	.926	None
SBR75-12303	290-300	5664	4.4	2.3	91.6	1.7	11.5	5.5	.916	None
SBR75-12304-6	430-460						c			
SBR75-12307-10	460-500						b			
SBR75-12311	500-510						Trace			
SBR75-12312-3	510-530						b			
SBR75-12314	530-540						Trace			
SBR75-12315-6	540-560						b			
SBR75-12317	560-570						c			
SBR75-12318	570-580						No Oil			
SBR75-12319-20	580-600						Trace			
SBR75-12321-2	600-620						b			
SBR75-12323	620-630						Trace			
SBR75-12324	630-640						No Oil			
SBR75-12325	640-650						c			
SBR75-12326-30	650-700						No Oil			
SBR75-12331-3	740-770						No Oil			
SBR75-12334	770-780						Trace			

See footnote at end of table.

Drill cutting samples received November 18, 1974; assays made on air-dried samples

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Surface elevation 8,055 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		Spent shale	Gas + loss				Gal per ton
Laramie	Their	Oil	Water					Oil <sup>1/</sup>	Water
SBR75-12335-7	780- 810					No Oil			
SBR75-12338	810- 820					Trace			
SBR75-12339-41	820- 850					No Oil			
SBR75-12342-3	850- 870					b			
SBR75-12344-5	880- 900					b			
SBR75-12346	900- 910					Trace			
SBR75-12347-9	910- 940					No Oil			
SBR75-12350	950- 960					No Oil			
SBR75-12351-3a	960- 990					b			
SBR75-12353b	990-1000					Trace			
SBR75-12354-5	1000-1020					No Oil			
SBR75-12356	1020-1030					Trace			
SBR75-12357-60	1030-1070					No Oil			
SBR75-12361	1070-1080					Trace			
SBR75-12362	1080-1090					No Oil			
SBR75-12363	1090-1100					b			
SBR75-12364	1100-1110					Trace			
SBR75-12365-72b	1110-1200					No Oil			
SBR75-12373	1200-1210					b			
SBR75-12374-5	1210-1230					No Oil			
SBR75-12376-7	1230-1250					c			
SBR75-12378	1250-1260					No Oil			
SBR75-12379-80	1260-1280					c			
SBR75-12381	1280-1290					b			
SBR75-12382	1290-1300					c			
SBR75-12383	1300-1310	5665	0.8	3.3	94.9	1.0	2.0a	7.9	None
SBR75-12384	1310-1320	5666	.9	2.8	95.7	.6	2.3a	6.7	None
SBR75-12385	1320-1330	5667	.6	3.2	95.4	.8	1.5a	7.7	None
SBR75-12386-7	1330-1350						Trace		
SBR75-12388	1350-1360						b		

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			Weight percent		Spent shale	Gas + loss			
Laramie	Their		Oil	Water					
SBR75-12389-90	1360-1380							Trace	
SBR75-12391	1380-1390							No Oil	
SBR75-12392-3	1390-1410							b	
SBR75-12394	1490-1500							c	
SBR75-12395-6	1500-1520							No Oil	
SBR75-12397-8	1520-1540							Trace	
SBR75-12399	1540-1550							b	
SBR75-12400	1550-1560							No Oil	
SBR75-12401	1560-1570							Trace	
SBR75-12402-3	1570-1590							b	
SBR75-12404a	1590-1600							Trace	
SBR75-12404b	1600-1610							No Oil	

<sup>1</sup>/<sub>1</sub> "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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