

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Davis Oil Company's Welch Federal No. 1 well drilled in SW1/4NE1/4 (1980 feet S/N 1986 feet W/E) of sec 22, T 16 N, R 100 W, Sweetwater County, Wyoming

Kelly Bushing elevation 7,947 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 ^{1/}	Water	coke	
SBR70-7167	0- 70	52884	2.5	5.1	90.8	1.6	6.6	12.2	None	
SBR70-7168	70- 80	52885	2.8	4.4	91.8	1.0	7.5	10.5	None	
SBR70-7169	80- 90	52886	4.5	3.0	91.2	1.3	12.0	7.2	None	
SBR70-7170	90- 100	52887	.6	2.7	96.2	.5	1.6a	6.5	None	
SBR70-7171	100- 110	52888	.4	2.7	96.1	.8	1.0a	6.5	None	
SBR70-7172	110- 123	52889	.6	2.1	96.1	1.2	1.6a	5.0	None	
SBR70-7173	123- 128	52890	1.5	2.7	95.0	.8	3.8a	6.6	None	
SBR70-7174	128- 133	52891	.5	3.2	95.7	.6	1.3a	7.7	None	
SBR70-7175	133- 138	52892	.4	1.6	96.7	1.3	1.0a	4.0	None	
SBR70-7176	138- 145	52893	1.8	2.3	95.1	.8	4.6a	5.6	None	
SBR70-7177	145- 150	52894	3.0	2.1	93.4	1.5	7.8a	5.0	None	
SBR70-7178	150- 155	52895	2.2	2.3	94.2	1.3	5.7a	5.6	None	
SBR70-7179	155- 160	52896	4.2	2.5	91.6	1.7	11.0	6.0	None	
SBR70-7180	160- 165	52897	2.5	2.6	93.4	1.5	6.7	6.2	None	
SBR70-7181	165- 170	52898	2.9	2.1	93.9	1.1	7.5	5.0	None	
SBR70-7182	170- 175	52899	4.0	2.2	92.3	1.5	10.4	5.3	None	
SBR70-7183	175- 180	52900	4.9	2.5	90.9	1.7	12.6	6.0	None	
SBR70-7184	180- 185	52901	4.9	2.2	90.9	2.0	12.7	5.3	None	
SBR70-7185	185- 190	52902	5.7	2.0	90.5	1.8	14.6	4.8	None	
SBR70-7186	190- 195	52903	4.5	1.9	92.0	1.6	11.6	4.6	None	
SBR70-7187	195- 200	52904	4.8	.9	91.4	2.9	12.4	2.2	None	
SBR70-7188	200- 210	52905	7.3	3.2	86.6	2.9	18.9	7.6	None	
SBR70-7189	210- 240	52906	.8	3.8	94.4	1.0	2.2a	9.1	None	
SBR70-7190	240- 270	52907	1.1	3.2	94.8	.9	2.8a	7.7	None	
SBR70-7191	270- 300	52908	.9	3.7	94.6	.8	2.4a	8.9	None	
SBR70-7192	300- 330	52909	.8	2.9	94.8	1.5	2.2a	6.8	None	
SBR70-7193-94	330- 390						Trace			
SBR70-7195-97	1170-1200						c			
SBR70-7198	1200-1210						b			
SBR70-7199	1210-1215						c			

See footnote at end of table.

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		Weight percent		Gal per ton	Tendency to coke				
Laramie	Their	Oil	Water			Spent shale	Gas + loss	Oil $\frac{1}{2}$	Water
SBR70-7200	1215-1220					b			
SBR70-7201	1220-1225					Trace			
SBR70-7202	1225-1235					c			
SBR70-7203	1235-1240					No Oil			
SBR70-7204-05	1240-1273					c			
SBR70-7206-08	1273-1293					b			
SBR70-7209	1293-1305					Trace			
SBR70-7210-11	1305-1315					c			
SBR70-7212	1315-1320					b			
SBR70-7213	1320-1325					c			
SBR70-7214	1325-1330					Trace			
SBR70-7215	1330-1335					b			
SBR70-7216	1335-1340	52910	1.8	4.5	91.5	2.2	4.7a	10.8	None
SBR70-7217	1340-1363	52911	3.4	4.1	91.2	1.3	9.0	9.8	0.911
SBR70-7218	1363-1369	52912	4.0	4.0	91.1	.9	10.4	9.6	.915
SBR70-7219	1369-1383	52913	2.3	6.0	89.8	1.9	5.9	14.4	.918
SBR70-7220	1383-1388	52914	.1	4.0	95.2	.7	.2a	9.6	
SBR70-7221	1400-1410	52915	1.5	4.6	92.3	1.6	3.8a	11.0	
SBR70-7222	1410-1420	52916	.9	4.7	92.9	1.5	2.2a	11.3	
SBR70-7223	1420-1431	52917	1.4	4.3	93.2	1.1	3.8a	10.3	
SBR70-7224	1431-1441	52918	1.0	5.0	93.1	.9	2.5a	12.0	
SBR70-7225	1441-1451	52919	1.9	4.8	91.9	1.4	4.8a	11.5	
SBR70-7226	1451-1462	52920	2.2	4.0	92.0	1.8	5.9	9.6	.906
SBR70-7227	1462-1472	52921	2.6	4.4	91.6	1.4	6.9	10.5	.902
SBR70-7228	1472-1494	52922	2.9	4.4	91.1	1.6	7.6	10.5	.904
SBR70-7229	1494-1504	52923	1.3	4.8	92.1	1.8	3.5a	11.5	
SBR70-7230	1504-1515	52924	1.2	4.4	93.2	1.2	3.2a	10.5	
SBR70-7231	1515-1525	52925	.8	4.1	93.9	1.2	2.0a	9.8	
SBR70-7232	1525-1535	52926	.3	5.0	94.4	.3	.7a	12.0	
SBR70-7233	1535-1556	52927	.0	5.8	94.0	.2	Trace	13.9	

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			Weight percent		Gas + loss	Gal per ton				
Laramie	Their		Oil	Water		Spent shale		Oil ^{1/}	Water	
SBR70-7234	1588-1598	52928	0.0	3.3	94.6	2.1	Trace	7.8	None	
SBR70-7235-37	1598-1619						b			
SBR70-7238-39	1619-1639						c			
SBR70-7240	1639-1651						No Oil			
SBR70-7241	1651-1661						Trace			
SBR70-7242	1661-1671						No Oil			
SBR70-7243-45	1671-1699						Trace			
SBR70-7246	1699-1701						No Oil			

^{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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