

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from North Central Oil Corporation's Federal 1-22 well drilled in the NW1/4SW1/4
(1,980 feet FSL, 660 feet FWL) of sec 22, T 23 N, R 106 W, Sweetwater County, Wyoming

Surface elevation 6,692 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 coke		
Laramie	Their	Oil	Water	Spent shale	Gas + loss	Oil ¹ / Water			
SBR75-2202-28	10-280					No oil			
SBR75-2229-32	290-330					No oil			
SBR75-2233-5	450-480					No oil			
SBR75-2236-7	480-500					c			
SBR75-2238	500-510					No oil			
SBR75-2239	510-520	99234	2.4	3.2	93.2	1.2	6.3	7.7	None
SBR75-2240	520-530	99235	2.1	3.4	93.2	1.3	5.4	8.2	None
SBR75-2241	530-540	99236	3.4	3.4	91.8	1.4	9.0	8.1	0.907
SBR75-2242	540-550	99285	5.0	3.8	89.0	2.2	13.0	9.1	.917
SBR75-2243	550-560	99238	12.8	2.2	81.6	3.4	33.8	5.3	.908
SBR75-2244	560-570	99239	7.4	1.7	88.9	2.0	19.7	4.1	.905
SBR75-2245	570-580	99240	8.1	1.6	88.0	2.3	21.8	3.8	.893
SBR75-2246	580-590	99241	7.7	1.6	88.5	2.2	20.5	3.8	.906
SBR75-2247	590-600	99242	8.5	1.4	87.5	2.6	22.4	3.4	.908
SBR75-2248	600-610	99243	8.0	1.6	88.2	2.2	21.0	3.8	.910
SBR75-2249	610-620	99244	8.5	1.7	87.5	2.3	22.5	4.1	.909
SBR75-2250	620-630	99245	8.5	1.6	87.6	2.3	22.5	3.8	.908
SBR75-2251	630-640	99246	8.6	1.5	86.9	3.0	22.6	3.6	.911
SBR75-2252	640-650	99247	8.9	1.8	86.9	2.4	23.6	4.3	.907
SBR75-2253	650-660	99248	9.0	1.7	86.9	2.4	23.8	4.1	.907
SBR75-2254	660-670	99249	9.1	1.7	86.8	2.4	24.0	4.1	.907
SBR75-2255	670-680	99250	9.1	1.7	86.7	2.5	23.9	4.1	.908
SBR75-2256	680-690	99251	8.9	1.7	86.9	2.5	23.6	4.1	.908
SBR75-2257	690-700	99252	9.0	1.8	86.7	2.5	23.7	4.3	.910
SBR75-2258	700-710	99307	9.1	1.7	86.5	2.7	24.1	4.1	.907
SBR75-2259	710-720	99254	3.3	1.3	94.1	1.3	8.7	3.1	.906
SBR75-2260	720-730	99255	3.5	1.4	93.5	1.6	9.2	3.4	.907
SBR75-2261	730-740	99256	2.2	2.0	94.7	1.1	5.8	4.8	.907
SBR75-2262	740-750	99257	1.9	2.2	94.9	1.0	4.9	5.3	None
SBR75-2263	750-760	99258	1.2	2.2	95.6	1.0	3.2	5.3	None

See footnote at end of table.

Drill cutting samples received December 5, 1974; assays made on air-dried samples

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Samples from North Central Oil Corporation's Federal 1-22 well (con.)

Surface elevation 6,692 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	Water	coke	
SBR75-2264	760- 770	99259	1.2	2.0	96.0	0.8	3.0	4.8	None	
SBR75-2265	770- 780	99260	1.1	2.1	96.3	.5	2.7	5.0	None	
SBR75-2266	780- 790	99261	3.1	1.7	94.0	1.2	8.1	4.1	0.911	None
SBR75-2267	790- 800	99262	3.2	1.7	93.7	1.4	8.5	4.1	.911	None
SBR75-2268	800- 810	99263	3.5	1.7	93.4	1.4	9.3	4.1	.912	None
SBR75-2269	810- 820	99264	3.7	1.7	93.4	1.3	9.7	4.0	.910	None
SBR75-2270	820- 830	99265	1.6	2.1	95.4	.9	4.2	5.0		None
SBR75-2271	830- 840	99266	1.5	2.2	95.4	.9	3.9	5.3		None
SBR75-2272	840- 850	99267	6.6	1.8	89.8	1.8	17.5	4.3	.908	None
SBR75-2273	850- 860	99268	5.2	1.8	91.5	1.5	13.8	4.3	.911	None
SBR75-2274	860- 870	99269	6.5	1.5	89.8	2.2	17.3	3.6	.905	None
SBR75-2275	870- 880	99270	6.5	1.6	89.9	2.0	17.3	3.9	.903	None
SBR75-2276	880- 890	99271	8.4	1.6	87.7	2.3	22.3	3.8	.904	None
SBR75-2277	890- 900	99272	7.0	1.8	89.3	1.9	18.7	4.3	.902	None
SBR75-2278	900- 910	99273	8.0	1.8	88.1	2.1	21.2	4.3	.903	None
SBR75-2279	910- 920	99274	3.9	1.8	92.9	1.4	10.3	4.3	.906	None
SBR75-2280	920- 930	99275	3.2	1.7	94.0	1.1	8.4	4.1	.908	None
SBR75-2281	930- 940	99276	3.7	1.7	93.4	1.2	9.9	4.1	.905	None
SBR75-2282	940- 950	99277	2.7	1.5	94.9	.9	7.1	3.6	.908	None
SBR75-2283	950- 960	99278	2.9	1.8	94.1	1.2	7.7	4.3	.903	None
SBR75-2284	960- 970	99279	2.6	1.4	94.6	1.4	6.7	3.4		None
SBR75-2285	970- 980	99280	1.7	2.3	95.0	1.0	4.5	5.5		None
SBR75-2286	980- 990	99281	1.8	2.4	94.9	.9	4.7	5.8		None
SBR75-2287	990-1000	99282	1.6	2.4	95.0	1.0	4.2	5.8		None

1/ " " -1 to 3 gal oil/ton.

Drill cutting samples received December 5, 1974; assays made on air-dried samples