

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Husky Oil Company of Delaware's State 4-36 well drilled in the  
NW1/4NW1/4 (663 feet FNL, 540 feet FWL) of sec. 36, T15N, R97W, Sweetwater County, Wyoming

Surface elevation 6,839 feet

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 <sup>1</sup> / Water	
SBR75-20843-71	281-1020						No Oil			340-360;400-420 missing
SBR75-20872	1020-1050						Trace			
SBR75-20873-77	1050-1200						No Oil			
SBR75-20878	1200-1230	13505	0.1	3.7	95.2	1.0	0.3a	8.9	None	
SBR75-20879-97	1230-1800						No Oil			
SBR75-20898	1800-1820	13506	.0	3.7	95.3	1.0	Trace	8.9	None	
SBR75-20899-911	1820-2080						No Oil			1530-1560;1660-1700 missing
SBR75-20912	2100-2120						Trace			
SBR75-20913-16	2120-2200						No Oil			
SBR75-20917-19	2200-2260						Trace			
SBR75-20920	2260-2280						b			
SBR75-20921	2280-2300	13507	.0	2.1	97.5	.4	Trace	5.0	None	
SBR75-20922	2300-2320						Trace			
SBR75-20923-28	2340-2460						No Oil			
SBR75-20929	2460-2480						Trace			
SBR75-20930-33	2480-2560						b			
SBR75-20934	2560-2580	13508	1.2	2.0	95.8	1.0	3.2a	4.8	None	
SBR75-20935	2580-2600	13511	1.0	1.9	95.7	1.4	2.6a	4.6	None	
SBR75-20936	2600-2620						No Oil			
SBR75-20937	2620-2640	13512	.9	1.8	95.9	1.4	2.3a	4.3	None	
SBR75-20938	2640-2660	13513	1.0	1.9	95.8	1.3	2.7a	4.6	None	
SBR75-20939	2660-2680	13514	.6	1.9	96.8	.7	1.6a	4.6	None	
SBR75-20940	2680-2700	13515	.6	1.9	95.7	1.8	1.6a	4.6	None	
SBR75-20941-43	2700-2760						b			
SBR75-20944	2760-2780	13516	2.5	1.4	94.1	2.0	6.8	3.4	0.890	None
SBR75-20945	2780-2800	13517	2.6	1.8	94.5	1.1	7.0	4.3	.883	None
SBR75-20946	2900-2920	13518	3.1	1.9	93.6	1.4	8.5	4.6	.884	None
SBR75-20947	2920-2940	13519	3.4	1.7	93.6	1.3	9.3	4.1	.882	None
SBR75-20948	2940-2960	13520	1.9	1.8	94.9	1.4	4.9a	4.3		None
SBR75-20949	2960-2980	13521	2.6	1.8	94.2	1.4	7.0	4.3	.887	None

See footnote at end of table.

Drill cuttings received: November 7, 1975: assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Husky Oil Company of Delaware's State 4-36 well drilled (con.)

Surface elevation 6,839 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 <sup>1/</sup>	Water	coke	
SBR75-20950	2980-3000	13522	2.9	2.2	93.6	1.3	7.8	5.3	None	
SBR75-20951	3000-3020	13523	3.0	2.2	92.7	2.1	8.0	5.3	None	
SBR75-20952	3020-3040	13524	3.4	2.0	93.2	1.4	9.1	4.8	None	
SBR75-20953	3040-3060	13525	2.4	1.9	93.2	2.5	6.4	4.6	None	
SBR75-20954	3080-3100	13526	3.3	2.4	93.0	1.3	8.9	5.8	None	
SBR75-20955	3100-3120	13527	3.7	2.1	91.6	2.6	9.9	5.0	None	
SBR75-20956	3120-3140	13528	5.5	2.7	89.0	2.8	14.6	6.5	None	
SBR75-20957	3140-3160	13529	4.6	2.5	91.3	1.6	12.4	6.0	None	
SBR75-20958	3160-3180	13530	5.4	2.3	90.5	1.8	14.3	5.5	None	
SBR75-20959	3180-3200	13531	3.0	1.3	93.7	2.0	8.0	3.1	None	
SBR75-20960	3200-3220	13532	1.4	1.1	94.6	2.9	3.6a	2.6	None	
SBR75-20961	3220-3240	13533	1.4	1.8	95.8	1.0	3.8a	4.2	None	
SBR75-20962	3240-3260	13534	1.6	1.6	95.9	.9	4.3a	3.8	None	
SBR75-20963	3260-3270	13535	3.0	2.8	92.8	1.4	7.9	6.7	None	
SBR75-20964	3270-3280	13536	1.6	5.7	88.1	4.6	4.2a	13.7	None	
SBR75-20965	3280-3290	13537	1.8	3.9	92.2	2.1	4.7a	9.3	None	
SBR75-20966	3290-3310	13538	1.2	3.5	93.3	2.0	3.1a	8.4	None	
SBR75-20967	3310-3340	13539	1.4	2.2	94.9	1.5	3.7a	5.3	None	
SBR75-20968	3340-3360	13540	2.7	1.9	93.7	1.7	7.2	4.6	None	
SBR75-20969	3360-3380	13541	.6	1.3	95.7	2.4	1.5a	3.1	None	
SBR75-20970	3380-3400									
SBR75-20971	3400-3420						b Trace			
SBR75-20972	3420-3440	13542	1.0	2.4	94.5	2.1	2.6a	5.8	None	
SBR75-20973	3440-3460	13543	.5	2.1	95.8	1.6	1.4a	5.0	None	
SBR75-20974	3460-3480	13544	.5	2.2	96.5	.8	1.2a	5.3	None	

<sup>1/</sup> "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.

Drill cuttings received: November 7, 1975: assays made on air-dried samples