

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Davis Oil Company's North Fork-Federal Well No. 1 drilled in the  
CSW1/4 (1320 feet FSL, 1320 feet FWL) of sec. 14, T 17 N, R 97 W, Sweetwater County, Wyoming

Surface elevation: 6,973 feet

Sample number		Run No.	Yield of product				Specific gravity of oil at 60°/60° F	Properties of spent shale		Remarks
			Weight percent		Spent shale	Gas + loss		Gal per ton		
Laramie	Their		Oil	Water					Oil <sup>1/</sup>	Water
SBR76-10305	500-510						c			
SBR76-10306	510-520						b			
SBR76-10307-09	520-550						Trace			
SBR76-10310	550-560						b			
SBR76-10311-14	560-600						Trace			
SBR76-10315-28	600-740						No Oil			
SBR76-10329	740-750	23415	1.5	3.9	93.5	1.1	3.9a	9.3		None
SBR76-10330	750-760	23416	1.2	4.0	93.4	1.4	3.2a	9.6		None
SBR76-10331	760-770	23417	1.1	4.6	93.1	1.2	2.8a	11.0		None
SBR76-10332	770-780	23418	1.5	4.2	93.5	.8	4.0a	10.1		None
SBR76-10333	780-790	23419	2.0	4.4	92.2	1.4	5.1a	10.5		None
SBR76-10334	790-800	23420	1.5	4.1	90.7	3.7	4.0a	10.0		None
SBR76-10335	800-810	23421	1.9	4.2	93.0	.9	4.9a	10.0		None
SBR76-10336	810-820	23422	1.5	2.9	93.8	1.8	4.0a	6.9		None
SBR76-10337	820-830	23423	1.7	4.1	92.3	1.9	4.3a	9.8		None
SBR76-10338	830-840	23424	1.5	3.3	94.1	1.1	3.8a	7.9		None
SBR76-10339	840-850	23425	1.6	4.0	92.9	1.5	4.1a	9.7		None
SBR76-10340	850-860	23426	1.7	3.2	90.7	4.4	4.4a	7.8		None
SBR76-10341	860-870	23427	1.4	3.5	92.6	2.5	3.6a	8.4		None
SBR76-10342	870-880	23428	1.8	4.0	93.1	1.1	4.8a	9.5		None
SBR76-10343	880-890	23429	1.6	4.0	92.9	1.5	4.1a	9.5		None
SBR76-10344	890-900	23430	1.7	3.8	93.6	.9	4.5a	9.1		None
SBR76-10345	900-910	23431	1.9	3.9	93.0	1.2	4.8a	9.4		None
SBR76-10346	910-920	23432	1.2	4.4	93.5	.9	3.2a	10.4		None
SBR76-10347	920-930	23433	1.7	4.0	93.3	1.0	4.5a	9.5		None
SBR76-10348	930-940	23434	1.1	3.1	94.2	1.6	2.8a	7.6		None
SBR76-10349	940-950	23435	1.6	3.2	93.3	1.9	4.1a	7.7		None
SBR76-10350	950-960	23436	1.8	3.7	93.5	1.0	4.7a	8.8		None
SBR76-10351	960-970	23437	1.5	3.9	93.7	.9	3.9a	9.3		None
SBR76-10352	970-980	23438	2.5	2.4	93.7	1.4	6.7	5.8	0.892	None

See footnote at end of table.

Drill cuttings received May 3, 1976; assays made on air-dried samples

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Samples from Davis Oil Company's North Fork-Federal Well No. 1

Surface elevation: 6,973 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	
SBR76-10353	980-990	23439	2.8	2.6	92.5	2.1	7.4	6.2	None	
SBR76-10354	990-1000	23440	2.2	2.3	93.6	1.9	5.9	5.5	None	
SBR76-10355	1000-1010	23441	2.7	2.5	91.5	3.3	7.2	6.0	None	
SBR76-10356	1010-1020	23442	2.6	2.8	93.3	1.3	7.0	6.7	None	
SBR76-10357	1020-1030	23443	2.5	2.8	93.5	1.2	6.7	6.7	None	
SBR76-10358	1030-1040	23444	2.7	2.9	91.6	2.8	7.3	7.0	None	
SBR76-10359	1040-1050	23445	2.5	2.7	93.9	.9	6.8	6.4	None	
SBR76-10360	1050-1060	23446	2.5	2.9	92.8	1.8	6.6	7.0	None	
SBR76-10361	1060-1070	23447	2.6	2.8	93.3	1.3	6.8	6.7	None	
SBR76-10362	1070-1080	23448	2.6	2.6	93.6	1.2	7.0	6.2	None	
SBR76-10363	1080-1090						Trace			
SBR76-10364	1090-1100						b			
SBR76-10365	1100-1110						Trace			
SBR76-10366-69	1110-1150						b			
SBR76-10370-71	1150-1170						c			
SBR76-10372	1170-1180	23449	.3	2.7	96.3	.7	.7a	6.5	None	
SBR76-10373	1180-1190	23450	.0	2.1	97.2	.8	Trace	5.0	None	
SBR76-10374	1190-1200	23451	.3	2.7	96.5	.5	.7	6.5	None	
SBR76-10375	1200-1210						c			
SBR76-10376	1210-1220						b			
SBR76-10377	1220-1230	23452	.1	2.6	96.9	.4	.4a	6.2	None	
SBR76-10378	1230-1240	23453	.3	3.0	96.1	.6	.8a	7.1	None	
SBR76-10379	1240-1250	23454	.0	3.1	95.4	1.5	Trace	7.4	None	
SBR76-10380	1250-1260	23455	.5	3.0	96.0	.5	1.2a	7.1	None	
SBR76-10381	1260-1270						b			
SBR76-10382	1270-1280						c			
SBR76-10383	1280-1290						b			
SBR76-10384	1290-1300	23456	.1	2.9	95.8	1.2	.4a	6.9	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, "c"--1 to 3 gal oil/ton.

Drill cuttings received May 3, 1976; assays made on air-dried samples