

25'-20  
25'-20  
25'-15

U-20

2230 A

85' of 15 gal.  
27' of 25 gal.  
17' of 30 gal.

# OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from H. M. Byllesby and Company, Inc. Windy Corehole drilled 1286.8 feet S. 7° 28' E. of W1/4 corner of Sec. 24, T. 12 S. R. 20 E., Uintah County, Utah

Elevation 5,503 feet

Mahogany marker

5322.6

Sample number		Run No.	Yield of product				Specific gravity of oil at 60°/60° F.		Properties of spent shale		Remarks
			Weight percent		Gas +		Gal. per ton		Tendency to		
Laramie	Their		Oil	Water	Spent shale	loss	Oil	Water		coke	
SBR59-4033	10 -11	62420	3.0	3.5	92.5	1.0	7.9	8.4	0.905	None	
SBR59-4034	11 -12	62421	2.3	2.7	94.0	1.0	6.0	6.5	.911	None	
SBR59-4035	12 -13	62422	1.7	2.9	94.3	1.1	4.4a	7.0		None	
SBR59-4036	13 -14	62423	2.7	2.6	93.8	.9	7.0	6.2	.905	None	
SBR59-4037	14 -15	62424	5.1	2.9	90.8	1.2	13.4	7.0	.904	None	
SBR59-4038	15 -16.7	62425	2.9	1.6	94.7	.8	7.5	3.8	.907	None	
SBR59-4039	16.7-18.0	62426	.9	2.9	95.7	.5	2.3a	7.0		None	
SBR59-4040	18.0-19.0	62427	.2	2.6	96.8	.4	.5a	6.2		None	
SBR59-4041	19.0-20.0	62428	.1	1.9	97.6	.4	.2a	4.7		None	
SBR59-4042	20.0-21.0	62429	.1	1.3	98.3	.3	.4a	3.1		None	
SBR59-4043	21.0-22.0	62430	.1	2.6	97.0	.3	.3a	6.2		None	
SBR59-4044	22.0-23.0	62431	.1	2.4	97.1	.4	.3a	5.6		None	
SBR59-4045	23.0-24.0	62432	.1	2.2	97.2	.5	.3a	5.2		None	
SBR59-4046	24.0-25.0	62433	.1	2.5	97.0	.4	.3a	5.9		None	
SBR59-4047	25.0-27.0	62434	.4	1.0	98.3	.3	1.0a	2.4		None	
SBR59-4048	27.0-29.0	62435	1.2	.2	98.0	.4	3.1a	1.1		None	
SBR59-4049	29.0-31.0	62436	.6	1.1	98.1	.2	1.5a	2.6		None	
SBR59-4050	31.0-33.0	62437	.6	1.6	97.3	.5	1.5a	3.8		None	
SBR59-4051	33.0-35.0	62438	.3	1.4	98.0	.3	.8a	3.2		None	
SBR59-4052	35.0-36.0	62439	.6	1.1	98.0	.3	1.5a	2.6		None	
SBR59-4053	36.0-37.6	62440	.8	1.7	96.9	.6	2.2a	4.0		None	
SBR59-4054	37.6-39.0	62441	1.1	2.1	96.0	.8	2.9a	5.0		None	
SBR59-4055	39.0-40.0	62442	.9	2.4	95.7	1.0	2.3a	5.9		None	
SBR59-4056	40.0-41.0	62443	1.8	2.6	94.5	1.1	4.6a	6.2		None	
SBR59-4057	41.0-42.0	62444	3.1	3.0	92.6	1.3	8.2	7.1	.914	None	
SBR59-4058	42.0-43.0	62445	2.8	2.3	94.2	.7	7.3	5.5	.912	None	
SBR59-4059	43.0-44.0	62446	2.1	2.1	95.0	.8	5.6	5.0	.911	None	
SBR59-4060	44.0-45.0	62447	2.2	2.6	94.7	.5	5.8	6.2	.911	None	
SBR59-4061	45.0-46.0	62448	3.4	2.0	93.9	.7	9.0	4.8	.915	None	
SBR59-4062	46.0-47.0	62449	2.2	1.9	95.1	.8	5.8	4.6	.925	None	

a - Specific gravity estimated due to insufficient oil.

Core samples received May 8, 1959; assays made on air-dried samples

Laramie Petroleum Research Center, Laramie, Wyoming, Illustration No. SBR-2842P

September 14, 1959

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from H. M. Byllesby and Company, Inc. Windy Corehole drilled 1286.8 feet S. 7° 28' E. of W1/4 corner of Sec. 24, T. 12 S. R. 20 E., Uintah County, Utah

Elevation 5,503 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			Tendency to coke
Laramie	Their		Oil	Water					Oil	Water	
SBR59-4063	47.0-48.0	62450	1.7	1.4	96.3	0.6	4.5a	3.4	0.925	None	
SBR59-4064	48.0-49.0	62451	2.1	1.5	95.9	.5	5.5a	3.6		None	
SBR59-4065	49.0-50.0	62452	1.9	1.5	96.0	.6	4.9a	3.6		None	
SBR59-4066	50.0-51.0	62453	2.1	2.2	95.0	.7	5.6	5.3	.922	None	
SBR59-4067	51.0-52.0	62454	3.3	3.1	92.8	.8	8.7	7.4	.919	None	
SBR59-4068	52.0-53.0	62455	3.9	1.7	93.9	.5	10.3	4.1	.912	None	
SBR59-4069	53.0-54.0	62456	2.9	3.0	93.2	.9	7.6	7.2	.921	None	
SBR59-4070	54.0-55.0	62457	2.9	3.4	93.0	.7	7.6	8.1	.917	None	
SBR59-4071	55.0-56.0	62458	2.2	3.2	94.0	.6	5.7	7.7	.917	None	
SBR59-4072	56.0-57.0	62459	2.9	3.6	92.7	.8	7.6	8.6	.913	None	
SBR59-4073	57.0-58.0	62460	2.4	2.3	94.3	1.0	6.3	5.5	.914	None	
SBR59-4074	58.0-59.0	62461	2.5	3.0	93.8	.7	6.6	7.2	.916	None	
SBR59-4075	59.0-60.0	62462	2.5	3.2	93.4	.9	6.5	7.7	.917	None	
SBR59-4076	60.0-61.4	62463	3.2	2.8	93.1	.9	8.3	6.7	.916	None	
SBR59-4077	61.4-63.0	62464	1.8	2.4	95.0	.8	4.7a	5.9		None	
SBR59-4078	63.0-65.0	62464	.6	3.1	95.8	.5	1.5a	7.5		None	
SBR59-4079	65.0-67.0	62466	.4	2.8	96.1	.7	1.1a	6.7		None	
SBR59-4080	67.0-69.0	62467	.5	2.5	96.2	.8	1.3a	6.0		None	
SBR59-4081	69.0-70.0	62468	.6	3.0	95.8	.6	1.6a	7.2		None	
SBR59-4082	70.0-71.5	62469	.8	2.6	96.0	.6	2.1a	6.2		None	
SBR59-4083	71.5-73.0	62470	2.1	3.2	93.8	.9	5.5	7.7	.916	None	
SBR59-4084	73.0-74.0	62471	3.7	2.5	92.8	1.0	9.6	6.0	.917	None	
SBR59-4085	74.0-75.0	62472	2.5	2.3	94.5	.7	6.5	5.5	.920	None	
SBR59-4086	75.0-76.0	62473	2.4	3.8	92.9	.9	6.2	9.1	.919	None	
SBR59-4087	76.0-77.0	62474	2.9	3.6	92.7	.8	7.5	8.6	.919	None	
SBR59-4088	77.0-78.4	62475	2.6	3.6	92.9	.9	6.8	8.6	.919	None	
SBR59-4089	78.4-80.2	62476	4.6	.4	94.3	.7	12.1	1.0	.903	None	
SBR59-4090	80.2-81.2	62478	2.8	2.2	94.2	.8	7.3	5.3	.917	None	
SBR59-4091	81.2-82.2	62479	3.0	1.8	94.2	1.0	7.9	4.3	.917	None	
SBR59-4092	82.2-84.0	62480	2.0	1.5	96.0	.5	5.2a	3.6		None	

a - Specific gravity estimated due to insufficient oil.

Core samples received May 8, 1959; assays made on air-dried samples.

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from H. M. Byllesby and Company, Inc. Windy Corehole drilled 1286.8 feet S. 7° 28' E. of W1/4 corner of Sec. 24, T. 12 S. R. 20 E., Uintah County, Utah

Elevation 5,503 feet

Sample number		Run No.	Yield of product				Specific gravity of oil at		Properties of spent shale		Remarks		
			Weight percent		Gas + loss	Gal. per ton	60°/60° F.	Tendency to					
Laramie	Thier	Oil	Water	Spent shale					Oil	Water	Spent shale	Gas + loss	Gal. per ton
SBR59-4093	84.0-85.0	62481	1.4	1.5	96.5	0.6	8.7a	3.5			None		
SBR59-4094	85.0-86.0	62482	2.4	2.0	95.0	.6	6.3	4.8		0.923	None		
SBR59-4095	86.0-87.0	62483	3.3	1.5	94.2	1.0	8.5	3.6		.924	None		
SBR59-4096	87.0-89.0	62484	1.1	1.6	96.0	1.3	2.8a	3.8			None		
SBR59-4097	89.0-91.0	62485	2.0	1.5	95.9	.6	5.2a	3.6			None		
SBR59-4098	91.0-92.4	62486	2.4	1.9	94.9	.8	6.3	4.6		.922	None		
SBR59-4099	92.4-94.0	62487	1.0	2.0	96.3	.7	2.6a	4.8			None		
SBR59-4100	94.0-95.0	62488	1.2	2.0	95.9	.9	3.1a	4.8			None		
SBR59-4101	95.0-96.0	62489	3.3	2.0	93.8	.9	8.6	4.8		.916	None		
SBR59-4102	96.0-97.0	62490	3.1	2.0	93.7	1.2	8.1	4.8		.920	None		
SBR59-4103	97.0-98.0	62491	2.1	1.6	95.3	1.0	5.3	3.8		.918	None		
SBR59-4104	98.0-99.0	62492	3.2	1.6	94.3	.9	8.1	3.8		.926	None		
SBR59-4105	99.0-100.0	62493	5.5	1.3	92.1	1.1	14.3	3.1	2.39	.918	2.39	None	
SBR59-4106	100.0-101.0	62494	3.2	1.6	94.4	.8	8.3	1.0	3.8	2.52	.923	2.52	None
SBR59-4107	101.0-102.0	62495	3.9	2.0	93.0	1.1	10.2	1.0	4.8	2.48	.920	2.48	None
SBR59-4108	102.0-103.0	62496	4.0	2.0	93.0	1.0	10.4	1.0	4.8	2.48	.919	2.48	None
SBR59-4109	103.0-104.0	62497	6.6	1.6	90.4	1.4	17.4	1.0	3.8	2.34	.912	2.34	None
SBR59-4110	104.0-105.0	62498	4.3	1.5	93.3	.9	11.2	1.0	3.6	2.45	.917	2.45	None
SBR59-4111	105.0-106.0	62499	5.7	1.1	91.9	1.3	15.1	1.0	2.6	2.38	.910	2.38	None
SBR59-4112	106.0-106.8	62500	4.4	1.6	92.9	1.1	11.5	0.8	3.8	2.45	.921	1.96	None
SBR59-4113	106.8-108.0	62501	1.3	1.3	96.8	.6	3.4a	1.2	3.1	2.63		3.16	None
SBR59-4114	108.0-109.8	62502	.9	1.7	97.0	.4	2.2a	1.8	4.1	2.66		4.79	None
SBR59-4115	109.8-111.0	62503	.6	1.2	97.9	.3	1.5a	1.2	2.9	2.67		3.20	None
SBR59-4116	111.0-113.0	62504	.2	1.7	98.4	.3	.6a	2.0	2.6	2.70		5.40	None
SBR59-4117	113.0-114.7	62505	.4	1.4	97.7	.5	1.1a	1.7	3.4	2.69		4.57	None
SBR59-4118	114.7-116.0	62506	1.0	2.6	95.9	.5	2.5a	1.3	6.2	2.65		3.44	None
SBR59-4119	116.0-117.0	62507	1.8	2.7	94.7	.3	4.7a	1.0	6.4	2.59		2.59	None
SBR59-4120	117.0-119.0	62508	.5	1.5	97.2	.8	1.3a	2.0	3.6	2.68		5.36	None
SBR59-4121	119.0-121.0	62509	.4	1.4	97.8	.4	.9a	2.0	3.4	2.69		5.38	None
SBR59-4122	121.0-123.0	62510	.7	1.1	97.5	.7	1.9a	2.0	2.6	2.66		5.32	None

a - Specific gravity estimated due to insufficient oil

Core samples received May 8, 1959; assays made on air-dried samples.

Laramie Petroleum Research Center, Laramie, Wyoming. Illustration No. SBR-2844P September 14, 1959

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from H. M. Byllesby and Company, Inc. Windy Corehole drilled 1286.8 feet S. 7° 28' E. of W1/4 corner of Sec. 24, T. 12 S. R. 20 E., Uintah County, Utah

Elevation 5,503 feet

Sample number		Run No.	Yield of Product				Specific gravity				Properties of spent shale				Remarks	ft <sup>3</sup> x 921	ft <sup>3</sup> x 921
			Weight percent		Spent shale	Gas + loss	Gal. per ton		of oil at 60°/60° F.	Tendency to	ft <sup>3</sup> x 921	ft <sup>3</sup> x 921					
Laramie	Their		Oil	Water									Oil	Water			
SBR59-4123	123.0-125.0	62511	0.6	1.6	97.2	0.6	1.68	2.0	3.8	2.67	5.34	5.34	None				
SBR59-4124	125.0-127.0	62512	.7	1.3	97.7	.3	1.88	2.0	3.1	2.67	5.34	5.34	None				
SBR59-4125	127.0-129.0	62513	.7	1.3	97.6	.4	1.78	2.0	3.1	2.67	5.34	5.34	None				
SBR59-4126	129.0-130.0	62514	.5	1.2	97.8	.5	1.48	1.0	2.9	2.68	2.68	2.68	None				
SBR59-4127	130.0-132.0	62515	.5	1.1	97.7	.7	1.28	2.0	2.6	2.68	5.34	5.34	None				
SBR59-4128	132.0-134.0	62516	.4	1.4	97.9	.3	1.18	2.0	3.4	2.69	5.38	5.38	None				
SBR59-4129	134.0-136.0	62517	.6	1.2	97.9	.3	1.58	2.0	2.9	2.68	5.36	5.36	None				
SBR59-4130	136.0-137.4	62518	.9	1.6	97.1	.4	2.38	1.4	3.7	2.65	3.71	3.71	None				
SBR59-4131	137.4-138.7	62519	4.9	2.3	91.6	1.2	12.9	1.3	5.5	2.42	0.906	3.15	None	3.15	40.64	40.64	
SBR59-4132	138.7-140.0	62520	2.3	2.2	94.6	.9	6.1	1.3	5.3	2.56	.913	3.33	None	6.48	20.31	60.95	
SBR59-4133	140.0-141.0	62521	4.7	2.8	91.2	1.3	12.3	1.0	6.7	2.43	.910	2.43	None	8.91	29.89	90.84	
SBR59-4134	141.0-142.0	62522	11.0	2.1	84.7	2.2	29.0	1.0	5.0	2.16	.909	2.16	None	11.07	62.64	153.48	
SBR59-4135	142.0-143.0	62523	4.3	1.8	92.6	1.3	11.3	1.0	4.2	2.45	.917	2.45	None	13.52	27.69	181.17	
SBR59-4136	143.0-144.0	62524	3.7	1.4	93.4	1.5	9.8	1.0	3.4	2.48	.911	2.48	None	16.00	24.30	205.47	
SBR59-4137	144.0-145.0	62525	3.0	1.3	94.8	.9	8.0	1.0	3.1	2.52	.911	2.52	None	18.52	20.16	225.63	
SBR59-4138	145.0-146.0	62526	4.6	2.4	91.7	1.3	11.9	1.0	5.9	2.44	.917	2.44	None	20.96	29.04	254.67	
SBR59-4139	146.0-147.0	62527	7.7	1.4	89.5	1.4	20.2	1.0	3.5	2.29	.914	2.29	None	23.25	46.26	300.93	
SBR59-4140	147.0-148.0	62528	7.0	1.6	89.8	1.6	18.4	1.0	3.8	2.33	.913	2.33	None	25.58	42.87	343.80	
SBR59-4141	148.0-149.0	62529	14.1	1.4	82.0	2.5	37.6	1.0	3.4	2.04	.898	2.04	None	27.62	76.70	420.50	
SBR59-4142	149.0-150.0	62530	7.8	1.0	89.4	1.8	20.7	1.0	2.5	2.28	.897	2.28	None	29.90	47.20	467.70	
SBR59-4143	150.0-152.0	62531	4.0	1.3	93.6	1.1	10.5	2.0	3.0	2.47	.912	4.94	None	34.84	58.89	519.57	
SBR59-4144	152.0-154.0	62532	2.4	1.0	95.5	1.1	6.1	2.0	2.5	2.56	.922	5.12	None	39.96	34.23	550.80	
SBR59-4145	154.0-155.5	62533	2.3	.8	96.1	.8	6.1	1.5	1.9	2.56	.921	3.84	None	43.80	23.42	574.22	
SBR59-4146	155.5-157.1	62534	5.0	1.0	92.6	1.4	13.2	1.6	2.3	2.42	.914	3.77	None	47.67	51.08	625.30	
SBR59-4147	157.1-159.0	62535	1.6	.6	96.9	.9	4.18	1.9	1.6	2.61		4.96	None	52.63	20.34	645.64	
SBR59-4148	159.0-161.0	62536	1.7	.9	96.8	.6	4.38	2.0	2.2	2.61		5.20	None	57.85	22.45	668.09	
SBR59-4149	161.0-163.0	62537	2.2	.9	96.2	.7	5.8	2.0	2.0	2.57	.905	5.14	None	62.99	29.81	697.90	
SBR59-4150	163.0-165.0	62538	1.3	.9	97.2	.6	3.58	2.0	2.2	2.62		5.24	None	68.23	18.34	716.24	
SBR59-4151	165.0-167.0	62539	1.6	.5	97.3	.6	4.18	2.0	1.2	2.61		5.122	None	73.45	21.40	737.64	
SBR59-4152	167.0-169.0	62540	1.3	.8	97.6	.3	3.48	2.0	1.9	2.62		5.24	None	78.69	17.82	755.46	

a - Specific gravity estimated due to insufficient oil.

Core samples received May 8, 1959; assays made on air-dried samples.

Laramie Petroleum Research Center, Laramie, Wyoming, Illustration No. SBR-2845P September 14, 1959

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from H. M. Byllesby and Company, Inc. Windy Corehole drilled 1286.8 feet S. 7° 28' E. of W1/4 corner of Sec. 24, T. 12 S. R. 20 E., Uintah County, Utah

Elevation 5,503 feet

Sample number		Run No.	Yield of product				Specific gravity		Properties of spent shale				Remarks			
			Weight percent		Spent shale	Gas + loss	Gal. per ton		of oil at 60°/60° F.	Tendency to	spent shale					
Laramie	Their		Oil	Water							Oil	Water				coke
SBR59-4153	169.0-170.8	62541	3.4	0.8	95.3	0.5	18.9	2.0	2.50	0.914	4.50	None	83.19	40.05	745.51	
SBR59-4154	170.8-171.8	62542	5.2	.9	93.1	.8	13.5	2.2	2.41	.921	2.41	None	85.60	32.54	828.05	
SBR59-4155	171.8-172.8	62543	14.7	1.6	81.3	2.4	38.4	4.0	2.03	.917	2.03	Slight	87.63	77.95	906.00	
SBR59-4156	172.8-174.0	62544	7.7	1.3	89.4	1.6	20.3	3.1	2.29	.912	2.75	None	90.38	55.83	961.83	
SBR59-4157	174.0-175.0	62545	6.6	1.0	91.3	1.1	17.6	2.4	2.34	.895	2.34	None	92.72	41.18	1003.01	
SBR59-4158	175.0-176.0	62546	6.8	.8	91.0	1.4	17.8	2.0	2.34	.907	2.34	None	95.06	41.65	1044.66	
SBR59-4159	176.0-177.0	62547	5.0	.9	92.9	1.2	13.3	2.0	2.41	.910	2.41	None	97.47	32.05	1076.71	
SBR59-4160	177.0-178.2	62548	12.1	1.4	84.4	2.1	31.7	3.5	2.12	.914	2.54	Slight	100.01	80.52	1157.25	
SBR59-4161	178.2-179.2	62549	9.3	1.0	87.7	2.0	24.6	2.4	2.23	.905	2.23	None	102.24	57.22	1214.25	
SBR59-4162	179.2-180.4	62550	19.8	1.6	74.6	4.0	52.8	3.8	1.86	.898	2.23	None	104.47	117.74	1332.29	
SBR59-4163	180.4-181.4	62551	23.0	1.4	68.9	6.7	61.1	3.4	1.77	.903	1.77	Slight	106.24	108.15	1440.44	
SBR59-4164	181.4-182.4	62552	20.3	1.5	73.9	4.3	53.9	3.6	1.84	.901	1.84	Slight	108.08	99.18	1539.62	
SBR59-4165	182.4-183.2	62553	10.1	.8	87.0	2.1	27.1	1.8	2.19	.894	1.75	None	109.83	47.43	1587.05	
SBR59-4166	183.2-184.0	62554	20.2	1.7	73.2	4.9	53.4	4.1	1.84	.905	1.47	None	111.30	78.50	1665.55	
SBR59-4167	184.0-185.0	62555	7.7	1.0	89.3	2.3	20.1	2.4	2.29	.914	2.29	None	113.59	46.03	1711.58	
SBR59-4168	185.0-186.4	62556	5.0	1.0	91.8	2.2	12.9	2.4	2.42	.921	3.39	None	116.98	43.73	1755.31	
SBR59-4169	186.4-187.4	62557	13.8	1.0	82.8	2.4	36.0	2.5	2.06	.919	2.06	None	119.04	74.16	1829.47	
SBR59-4170	187.4-188.4	62558	5.9	.8	91.9	1.4	15.2	2.0	2.38	.925	2.38	None	121.42	36.18	1865.65	
SBR59-4171	188.4-190.0	62559	5.3	.6	93.1	1.0	13.8	1.3	2.40	.922	3.84	None	125.26	52.99	1918.64	
SBR59-4172	190.0-191.0	62560	6.8	.4	91.6	1.2	17.8	1.1	2.33	.909	2.33	None	127.59	41.47	1960.11	
SBR59-4173	191.0-192.0	62561	13.9	1.2	82.3	2.6	37.0	2.9	2.05	.903	2.05	None	129.64	75.85	2035.96	
SBR59-4174	192.0-192.7	62562	13.5	.9	83.2	2.4	35.6	2.3	2.07	.905	1.45	None	131.09	51.62	2087.58	
SBR59-4175	192.7-194.0	62563	5.8	.6	92.4	1.2	15.4	1.3	2.37	.903	3.08	None	134.17	47.43	2135.01	
SBR59-4176	194.0-195.5	62564	7.1	.8	90.5	1.6	19.2	2.0	2.31	.883	3.47	None	137.64	66.62	2201.63	
SBR59-4177	195.5-196.1	62565	12.8	1.3	83.7	2.2	33.7	3.1	2.09	.912	1.25	None	138.89	42.13	2243.76	
SBR59-4178	196.1-197.3	62566	4.6	.9	93.2	1.3	12.0	2.3	2.44	.915	2.93	None	141.82	35.16	2278.92	
SBR59-4179	197.3-198.8	62567	2.8	.8	95.7	.7	7.4	1.9	2.53	.912	3.80	None	145.62	28.12	2307.04	
SBR59-4180	198.8-200.1	62568	8.4	1.3	88.7	1.6	22.0	3.1	2.26	.912	2.94	None	148.56	64.68	2371.72	
SBR59-4181	200.1-201.1	62569	7.6	.9	89.7	1.8	19.7	2.2	2.30	.923	2.30	None	150.81	45.31	2417.03	
SBR59-4182	201.1-202.0	62570	2.2	1.4	95.6	.8	5.7	3.4	2.57	.918	2.31	None	153.17	13.17	2430.20	

Core samples received May 8, 1959; assays made on air-dried samples.

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from H. M. Byllesby and Company, Inc. Windy Corehole drilled 1286.8 feet S. 7° 28' E. of W1/4 corner of Sec. 24, T. 12 S., R. 20 E., Uintah County, Utah

Elevation 5,503 feet

Sample number		Run No.	Yield of product				Specific gravity		Properties of spent shale		Remarks					
			Weight percent		Gas + loss	Gal. per ton		of oil at 60°/60° F.	Tendency to coke							
Laramie	Their	Oil	Water	Spent shale		Oil	Water			Sg	ft x sq. cm	ft x sq. cm				
SBR59-4183	202.0-203.0	62571	2.5	1.2	95.3	1.0	6.6	1.0	2.9	2.55	.916	2.55	None	155.72	16.83	2447.03
SBR59-4184	203.0-204.0	62572	2.5	.4	96.4	.7	6.5	1.0	1.1	2.55	.913	2.55	None	158.27	16.58	2463.61
SBR59-4185	204.0-205.0	62573	2.6	.1	96.6	.7	6.7	1.0	.2	2.55	.917	2.55	None	160.82	17.09	2480.70
SBR59-4186	205.0-206.0	62574	2.5	1.2	95.6	.7	6.5	1.0	2.9	2.55	.916	2.55	None	163.37	16.57	2497.27
SBR59-4187	206.0-207.0	62575	4.8	1.7	92.4	1.1	12.5	1.0	4.1	2.43	.912	2.43	None	165.80	30.38	2527.65
SBR59-4188	207.0-207.8	62576	6.8	1.9	89.8	1.5	17.9	0.8	4.6	2.33	.909	1.86	None	167.66	33.29	2560.94
SBR59-4189	207.8-208.8	62577	11.8	1.3	85.0	1.9	31.5	1.0	3.1	2.12	.894	2.12	None	169.78	66.78	2627.72
SBR59-4190	208.8-209.8	62578	10.1	.9	87.1	1.9	27.2	1.0	2.2	2.19	.889	2.19	None	171.97	59.57	2687.29
SBR59-4191	209.8-210.8	62579	7.8	1.0	89.4	1.8	20.8	1.0	2.4	2.28	.902	2.28	None	174.25	47.42	2734.71
SBR59-4192	210.8-211.8	62580	7.4	1.1	89.8	1.7	19.6	1.0	2.6	2.30	.906	2.30	None	176.55	45.08	2779.79
SBR59-4193	211.8-212.8	62581	10.0	1.1	86.9	2.0	26.7	1.0	2.6	2.19	.895	2.19	None	178.74	58.47	2838.26
SBR59-4194	212.8-213.8	62582	5.8	1.1	91.5	1.6	15.4	1.0	2.6	2.37	.901	2.37	None	181.11	36.50	2874.76
SBR59-4195	213.8-214.8	62583	4.4	1.0	92.9	1.7	11.4	1.0	2.4	2.45	.921	2.45	None	182.56	27.93	2902.69
SBR59-4196	214.8-215.8	62584	3.4	1.2	94.3	1.1	9.0	1.0	2.9	2.50	.920	2.50	None	186.06	22.50	2925.19
SBR59-4197	215.8-217.6	62585	2.0	.6	96.7	.7	5.1	1.0	1.6	2.58		4.64	None	190.70	23.66	2948.85
SBR59-4198	217.6-218.6	62586	2.5	.9	95.4	1.2	6.6	1.0	2.2	2.55	.925	2.55	None	193.25	16.83	2965.68
SBR59-4199	218.6-219.6	62587	4.5	1.1	93.3	1.1	11.9	1.0	2.6	2.44	.917	2.44	None	195.69	29.04	2994.72
SBR59-4200	219.6-220.4	62588	8.5	1.1	88.5	1.9	21.9	0.8	2.6	2.27	.925	1.82	None	197.51	39.86	3034.58
SBR59-4201	220.4-221.7	62589	2.9	.9	95.5	.7	7.6	1.3	2.0	2.53	.919	3.29	None	200.80	25.00	3059.58
SBR59-4202	221.7-223.0	62590	1.7	.6	97.2	.5	4.4	1.3	1.4	2.60		3.38	None	204.18	14.87	3074.45
SBR59-4203	223.0-225.0	62591	1.3	.2	98.2	.3	3.4	2.0	.6	2.62		5.24	None	209.42	17.87	3092.37
SBR59-4204	225.0-227.2	62592	1.6	.2	97.9	.3	4.2	2.2	.4	2.61		5.74	None	215.16	24.11	3116.43
SBR59-4205	227.2-228.2	62593	2.8	.6	95.9	.7	7.4	1.0	1.4	2.53	.900	2.53	None			
SBR59-4206	228.2-229.3	62594	6.8	.8	91.0	1.4	18.2	1.1	1.9	2.33	.899	2.56	None			
SBR59-4207	229.3-231.0	62595	1.3	.5	97.8	.4	3.3	1.7	1.2	2.62		4.45	None			
SBR59-4208	231.0-233.0	62596	1.1	1.2	97.3	.4	2.9	2.0	2.9	2.63		5.26	None			
SBR59-4209	233.0-233.9	62597	3.1	.9	95.2	.8	8.2	0.9	2.2	2.52	.908	2.27	None			
SBR59-4210	233.9-235.0	62598	11.6	1.0	85.1	2.3	30.6	1.1	2.4	2.14	.905	2.35	None			
SBR59-4211	235.0-236.0	62599	2.3	.8	95.8	1.1	6.0	1.0	1.8	2.56	.920	2.56	None			
SBR59-4212	236.0-238.0	62600	1.5	.8	97.0	.7	4.0	2.0	1.8	2.61		5.22	None			

a - Specific gravity estimated due to insufficient oil.

Core samples received May 8, 1959; assays made on air-dried samples.

Laramie Petroleum Research Center, Laramie, Wyoming

Illustration No. SBR-2847P

September 14, 1959

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from H. M. Byllesby and Company, Inc. Windy Corehole drilled 1286.8 feet S. 7° 28' E. of W1/4 corner of Sec. 24, T. 12 S., R. 20 E., Uintah County, Utah

Elevation 5,503 feet

Sample number		Run No.	Yield of product				Gal. per ton		Specific gravity of oil at 60°/60° F.	Properties of spent shale Tendency to coke	Remarks
			Weight percent		Spent	Gas +					
Laramie	Their		Oil	Water	shale	loss	Oil	Water			
SBR59-4213	238.0-239.5	62601	4.2	1.0	93.4	1.4	10.9	2.4	0.913	None	
SBR59-4214	239.5-240.1	62602	13.4	1.2	83.0	2.4	34.9	2.9	.920	None	
SBR59-4215	240.1-241.5	62603	.6	.6	98.4	.4	1.5a	1.6		None	
SBR59-4216	241.5-242.6	62604	1.0	1.2	97.0	.8	2.6a	2.9		None	
SBR59-4217	242.6-243.6	62605	3.6	.9	94.7	.8	9.3	2.3	.918	None	
SBR59-4218	243.6-245.4	62606	3.3	.7	95.2	.8	8.7	1.7	.916	None	
SBR59-4219	245.4-247.2	62607	2.1	1.1	96.0	.8	5.4	2.6	.923	None	
SBR59-4220	247.2-248.4	62608	1.5	.1	97.9	.5	3.9a	.1		None	
SBR59-4221	248.4-250.1	62609	.6	.1	98.9	.4	1.5a	.4		None	
SBR59-4222	250.1-252.0	62610	.6	.7	98.2	.5	1.5a	1.7		None	
SBR59-4223	252.0-254.0	62611	.0	.8	98.7	.5	No oil	1.8		None	
SBR59-4224	254.0-256.0	62612	.0	1.8	98.5	.5	No oil	2.3		None	
SBR59-4225	256.0-258.0	62613	.0	1.6	98.2	.2	No oil	4.0		None	
SBR59-4226	258.0-260.0	62614	.1	.6	99.0	.3	.3a	1.4		None	
SBR59-4227	260.0-262.0	62615	.0	1.3	98.5	.2	No oil	3.1		None	
SBR59-4228	262.0-264.0	62616	.5	.6	98.6	.3	1.4a	1.4		None	
SBR59-4229	264.0-265.2	62617	.0	1.6	98.1	.3	No oil	3.8		None	

a - Specific gravity estimated due to insufficient oil.

Core samples received May 8, 1959; assays made on air-dried samples.

Laramie Petroleum Research Center, Laramie, Wyoming, Illustration No. SBR-2848P

September 14, 1959

224.4  
137.4  
106.0