

Logged

4-26

120'-15
36'-30
57'-25

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from National Farmers' Union Exploration Company's Corehole No. 5 drilled in the S1/2 of
sec. 2, T. 12 S., R. 24 E., Uintah County, Utah

Surface elevation - 6130 feet

Mahogany marker at 170 feet

mahogany marker 5948.5

Surface elevation - 5948.5			Yield of product				Specific gravity			Properties of spent shale				Remarks	
Sample number		Run No.	Weight percent		Spent shale	Gas + loss	Gal. per ton			of oil at 600/600F.	Tendency to fix coke	fix Sq. cum.	fix Sq. cum.	fix Sq. cum.	
Laramie	Their		Oil	Water			Oil	Water	Sg.						
SBR59-1397	150.0-152.0	60361	0.9	0.6	97.6	0.9	2.4	2.0	1.4	2.65	5.30	none		12.72	
SBR59-1398	152.0-153.4	60362	2.1	.8	96.0	1.1	5.5	1.4	1.9	2.58	0.914	3.61	none	19.86	
SBR59-1399	153.4-155.0	60363	5.3	1.0	91.7	2.0	13.8	1.6	2.4	2.40	.915	3.84	none	52.99	52.99
SBR59-1400	155.0-156.0	60364	7.0	1.5	89.3	2.2	18.3	1.0	3.6	2.32	.912	2.32	none	95.45	95.45
SBR59-1401	156.0-157.0	60365	9.2	1.2	86.4	3.2	24.1	1.0	2.9	2.24	.915	2.24	none	149.43	149.43
SBR59-1402	157.0-158.0	60366	6.6	1.6	90.0	1.8	17.4	1.0	3.8	2.34	.914	2.34	none	190.15	190.15
SBR59-1403	158.0-159.0	60367	4.4	1.1	93.4	1.1	11.3	1.0	2.6	2.45	.920	2.45	none	217.83	217.83
SBR59-1404	159.0-160.2	60368	6.4	1.8	90.4	1.4	16.6	1.2	4.3	2.35	.919	2.82	none	264.64	264.64
SBR59-1405	160.2-161.5	60369	9.9	1.3	86.9	1.9	26.0	1.3	3.0	2.20	.916	2.86	none	339.00	339.00
SBR59-1406	161.5-162.5	60370	11.2	1.2	85.2	2.4	29.6	1.0	2.9	2.15	.903	2.15	none	402.64	402.64
SBR59-1407	162.5-163.5	60371	17.3	1.7	77.9	3.1	45.8	1.0	4.1	1.94	.907	1.94	slight	491.49	491.49
SBR59-1408	163.5-164.5	60372	8.6	.9	88.5	2.0	22.8	1.0	2.2	2.25	.900	2.25	none	542.79	542.79
SBR59-1409	164.5-165.5	60373	6.8	1.1	90.1	2.0	17.7	1.0	2.8	2.33	.914	2.33	none	584.03	584.03
SBR59-1410	165.5-166.5	60374	4.0	.6	94.0	1.4	10.4	1.0	1.3	2.47	.927	2.47	none	609.72	609.72
SBR59-1411	166.5-167.5	60375	6.3	1.0	90.9	1.8	16.4	1.0	2.4	2.36	.923	2.36	none	648.42	648.42
SBR59-1412	167.5-168.5	60376	6.3	.7	91.0	2.0	16.4	1.0	1.8	2.36	.921	2.36	none	687.12	687.12
SBR59-1413	168.5-170.0	60377	4.2	.7	93.6	1.5	10.8	1.5	1.8	2.46	.921	3.69	none	726.97	726.97
SBR59-1414	170.0-170.5	60378	4.2	3.4	91.3	1.1	11.0	0.5	8.1	2.46	.902	1.23	none	740.50	740.50
SBR59-1415	170.5-172.0	60379	3.6	.7	94.2	1.5	9.3	1.5	1.7	2.44	.922	3.74	none	775.28	775.28
SBR59-1416	172.0-173.0	60380	3.3	.5	94.9	1.3	8.7	1.0	1.3	2.50	.912	2.50	none	797.03	797.03
SBR59-1417	173.0-174.0	60381	5.3	.6	92.8	1.3	13.8	1.0	1.6	2.40	.914	2.40	none	830.15	830.15
SBR59-1418	174.0-175.4	60382	14.0	1.0	82.0	3.0	36.9	1.4	2.4	2.05	.913	2.87	slight	936.05	936.05
SBR59-1419	175.4-176.4	60383	7.8	.5	89.8	1.9	20.8	1.0	1.2	2.28	.901	2.28	none	983.47	983.47
SBR59-1420	176.4-177.5	60384	6.6	.4	91.1	1.9	17.3	1.1	1.0	2.34	.910	2.57	none	1027.93	1027.93
SBR59-1421	177.5-178.5	60385	11.9	.7	85.0	2.4	31.7	1.0	1.6	2.12	.903	2.12	slight	1095.13	1095.13
SBR59-1422	178.5-179.5	60386	14.0	.6	82.8	2.6	36.8	1.0	1.4	2.05	.913	2.05	slight	1170.57	1170.57
SBR59-1423	179.5-180.5	60387	23.2	1.1	71.9	3.8	61.7	1.0	2.5	1.76	.901	1.76	medium	1279.16	1279.16
SBR59-1424	180.5-181.5	60388	21.7	1.2	73.0	4.1	57.5	1.0	3.0	1.81	.902	1.81	medium	1383.24	1383.24
SBR59-1425	181.5-182.5	60389	30.0	1.8	62.5	5.7	79.7	1.0	4.3	1.58	.903	1.58	heavy	1509.17	1509.17
SBR59-1426	182.5-183.5	60390	25.0	1.7	67.6	5.7	66.2	1.0	4.1	1.71	.907	1.71	medium	1622.37	1622.37

a. - Specific gravity estimated due to insufficient oil.

Core samples received November 7, 1958; assays made on air-dried samples

Laramie Petroleum Research Center, Laramie,

; Illustration No. SBR-2661P

March 25, 1959

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from National Farmers' Union Exploration Company's Corehole No. 5 drilled in the S1/2 of
sec. 2, T. 12 S., R. 24 E., Uintah County, Utah

Surface elevation - 6130 feet

Mahogany marker at 170 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 coke						
Laramie	Their	Oil	Water	Oil			Water	Oil			Water					
SBR59-1427	183.5-184.4	60391	14.6	0.8	81.4	3.2	38.7	0.9	1.9	2.03	0.906	1.83	slight	68.87	108.82	1693.19
SBR59-1428	184.4-185.4	60392	23.5	1.5	70.0	5.0	61.8	1.0	3.6	1.76	.913	1.76	slight	70.63	108.77	1801.96
SBR59-1429	185.4-186.4	60393	8.7	.6	88.7	2.0	22.6	1.0	1.6	2.25	.919	2.25	none	72.88	50.85	1852.81
SBR59-1430	186.4-187.5	60394	20.2	1.2	71.9	3.7	52.4	1.1	2.8	1.86	.926	2.05	slight	74.93	107.42	1960.23
SBR59-1431	187.5-188.5	60395	6.9	.3	91.0	1.8	18.0	1.0	.7	2.33	.917	2.33	none	77.26	41.94	2002.17
SBR59-1432	188.5-189.5	60396	24.3	.9	70.2	4.6	63.8	1.0	2.3	1.74	.912	1.74	slight	79.00	111.01	2113.18
SBR59-1433	189.5-190.8	60397	18.3	.9	76.7	4.1	47.7	1.3	2.3	1.91	.917	2.48	none	81.48	118.30	2231.48
SBR59-1434	190.8-192.0	60398	7.8	.4	90.0	1.8	21.1	1.2	1.0	2.28	.889	2.74	none	84.22	57.81	2289.29
SBR59-1435	192.0-192.8	60399	19.7	1.0	75.9	3.4	52.1	0.8	2.4	1.86	.907	1.49	none	85.71	77.63	2366.92
SBR59-1436	192.8-194.0	60400	6.1	.4	91.9	1.6	16.1	1.2	.8	2.36	.913	2.83	none	88.54	45.54	2412.48
SBR59-1437	194.0-194.9	60401	5.8	.4	92.1	1.7	15.3	0.9	1.0	2.39	.915	2.15	none	90.69	32.89	2445.37
SBR59-1438	194.9-196.0	60402	18.8	1.1	76.5	3.6	48.9	1.1	2.6	1.90	.921	2.09	slight	92.78	102.20	2547.57
SBR59-1439	196.0-197.0	60403	4.3	.4	93.9	1.4	11.2	1.0	1.0	2.46	.919	2.46	none	95.24	27.55	2575.12
SBR59-1440	197.0-198.0	60404	3.8	.3	94.4	1.5	9.8	1.0	.8	2.48	.922	2.48	none	97.72	24.30	2599.42
SBR59-1441	198.0-199.2	60405	6.8	.5	91.1	1.6	17.8	1.2	1.3	2.33	.912	2.80	none	100.52	49.84	2649.26
SBR59-1442	199.2-200.2	60406	11.2	.6	86.0	2.2	29.4	1.0	1.6	2.15	.909	2.15	none	102.67	63.21	2712.47
SBR59-1443	200.2-201.0	60407	13.7	.7	83.2	2.4	36.6	0.8	1.8	2.06	.895	1.65	slight	104.32	60.39	2772.86
SBR59-1444	201.0-202.0	60408	9.5	.4	88.3	1.8	25.5	1.0	1.1	2.21	.891	2.21	none	106.53	56.35	2829.21
SBR59-1445	202.0-203.0	60409	8.2	.6	89.3	1.9	21.7	1.0	1.3	2.26	.906	2.26	none	108.79	49.04	2878.25
SBR59-1446	203.0-204.0	60410	11.3	.8	85.7	2.2	30.4	1.0	1.8	2.14	.893	2.14	none	110.93	65.06	2943.31
SBR59-1447	204.0-205.0	60411	7.3	.6	90.2	1.9	19.3	1.0	1.6	2.32	.907	2.32	none	113.25	44.78	2988.09
SBR59-1448	205.0-206.0	60412	3.5	.6	94.4	1.5	9.2	1.0	1.3	2.49	.920	2.49	none	115.74	22.91	3011.00
SBR59-1449	206.0-207.0	60413	3.3	.3	95.0	1.4	8.6	1.0	.7	2.50	.926	2.50	none	118.24	21.50	3032.50
SBR59-1450	207.0-208.0	60414	5.3	.4	92.5	1.8	13.9	1.0	.8	2.40	.917	2.40	none	120.64	32.36	3065.86
SBR59-1451	208.0-209.2	60415	8.3	.7	89.3	1.7	21.4	1.2	1.7	2.28	.926	2.74	none	123.39	58.64	3124.50
SBR59-1452	209.2-210.2	60416	3.5	.4	91.9	1.2	9.0	1.0	1.1	2.50	.925	2.50	none	125.88	22.50	3147.00
SBR59-1453	210.2-211.8	60417	1.8	.4	97.0	.8	4.7	1.6	1.0	2.58		4.13	none	130.01	19.41	3166.41
SBR59-1454	211.8-213.0	60418	4.5	.5	93.7	1.3	11.8	1.2	1.2	2.44	.912	2.93	none	132.94	34.57	3200.98
SBR59-1455	213.0-214.0	60419	3.1	1.8	94.1	1.0	8.1	1.0	1.4	2.51	.922	2.51	none	135.45	20.33	3221.31
SBR59-1456	214.0-215.0	60420	9.9	.8	87.2	2.1	25.8	1.0	1.8	2.20	.922	2.20	slight	137.65	56.76	3278.07

a. - Specific gravity estimated due to insufficient oil.

Core samples received November 7, 1958; assays made on air-dried samples

Laramie Petroleum Research Center, Laramie, Wyoming; Illustration No. SBR-2662P

March 25, 1959

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from National Farmers' Union Exploration Company's Corehole No. 5 drilled in the S1/2 of sec. 2, T. 12 S., R. 24 E., Uintah County, Utah

Surface elevation - 6130 feet

Mahogany marker at 170 feet

			Yield of product				Specific gravity of oil at		Properties of spent shale							
Sample number		Run	Weight percent		Spent	Gas +	Gal. per ton		60°/60°F.	Tendency to		Remarks				
Laramie	Their	No.	Oil	Water	shale	loss	Oil	Water	60°/60°F.	64°/64°F.	coke	Remarks	Remarks			
SBR59-1157	215.0-216.2	60421	2.3	0.5	96.1	1.1	6.1	1.2	1.2	2.56	0.914	3.07	none	140.68	18.73	3296.80
SBR59-1158	216.2-217.2	60422	8.6	.8	88.8	1.8	22.5	1.0	1.8	2.25	.917	2.25	none	142.93	50.62	3347.42
SBR59-1159	217.2-218.8	60423	1.4	.6	97.3	.7	3.6	1.6	1.3	2.62		4.19	none	147.12	15.08	3362.50
SBR59-1160	218.8-219.8	60424	1.4	.6	93.8	1.2	11.4	1.0	1.4	2.45	.920	2.45	none	149.57	27.93	3390.43
SBR59-1161	219.8-221.5	60425	1.1	2.6	95.9	.4	2.9	1.7	6.1	2.63		4.47	none	154.04	12.96	3403.39
SBR59-1162	221.5-223.0	60426	2.7	1.4	94.8	1.1	6.9	1.5	3.5	2.54	.926	3.81	none	157.85	26.29	3429.68
SBR59-1163	223.0-224.9	60427	2.0	.2	96.9	.9	5.1	1.9	.6	2.58		4.90	none	162.75	24.99	3454.67
SBR59-1164	224.9-226.7	60428	1.8	.5	96.7	1.0	4.7	1.8	1.1	2.59		4.66	none	167.41	21.90	3476.57
SBR59-1165	226.7-228.4	60429	1.0	.4	97.8	.8	2.7	1.7	.8	2.63		4.47	none	171.88	12.07	3488.64
SBR59-1166	228.4-230.0	60430	4.5	.2	91.7	.6	11.6	1.6	.5	2.45	.926	3.92	none	175.80	45.47	3534.11
SBR59-1167	230.0-231.7	60431	.6	.5	98.4	.5	1.5	1.7	1.2	2.67		4.54	none	180.34	6.81	3540.92
SBR59-1168	231.7-233.1	60432	2.2	1.0	95.7	1.1	5.6	1.4	2.5	2.57	.926	3.60	none	183.94	20.16	3561.08
SBR59-1169	233.1-234.0	60433	8.4	.4	89.4	1.8	21.9	0.9	1.0	2.27	.916	2.04	none	185.98	44.68	3605.76
SBR59-1170	234.0-235.0	60434	2.8	.4	95.8	1.0	7.4	1.0	.8	2.54	.911	2.54	none	188.52	18.80	3624.56
SBR59-1171	235.0-236.0	60435	3.6	.5	94.7	1.2	9.6	1.0	1.1	2.49	.911	2.49	none	191.01	23.90	3648.46
SBR59-1172	236.0-238.0	60436	4.0	.3	94.8	.9	10.6	2.0	.6	2.46	.907	4.92	none	195.93	52.15	3700.61
SBR59-1173	238.0-240.0	60437	3.6	.3	95.0	1.1	9.4	2.0	.8	2.49	.913	4.98	none	200.91	46.81	3747.42
SBR59-1174	240.0-242.0	60438	1.8	.2	97.0	1.0	4.8	2.0	.5	2.59		5.18	none	206.09	24.86	3772.28
SBR59-1175	242.0-243.5	60439	2.3	.2	96.4	1.1	6.1	1.5	.5	2.56	.919	3.84	none	209.93	23.42	3795.70
SBR59-1176	243.5-244.6	60440	2.8	1.0	95.2	1.0	7.2	1.1	2.4	2.54	.915	2.79	none	212.72	20.09	3815.79
SBR59-1177	244.6-245.6	60441	2.1	.6	96.1	1.2	5.6	1.0	1.3	2.57	.908	2.57	none	215.28	14.39	3830.18
SBR59-1178	245.6-246.7	60442	2.5	1.1	95.2	1.2	6.5	1.0	2.6	2.55	.904	2.55	none	217.84	16.58	3846.76
SBR59-1179	246.7-248.0	60443	2.5	.2	96.0	1.3	6.5	1.3	.5	2.55	.920	3.31	none	221.15	21.51	3868.27
SBR59-1180	248.0-250.0	60444	1.8	1.0	96.1	1.1	4.7	2.0	2.4	2.59		5.18	none	226.33	24.35	3892.62
SBR59-1181	250.0-251.7	60445	5.5	.9	91.9	1.7	11.5	1.7	2.2	2.39	.910	4.06	none	230.39	58.87	3951.49
SBR59-1182	251.7-253.6	60446	5.2	.4	93.2	1.2	13.6	1.9	2.1	2.41	.919	4.58	none	234.97	62.29	4013.78
SBR59-1183	253.6-255.2	60447	3.9	.7	94.3	1.1	10.2	1.6	1.7	2.48	.925	3.97	none	238.94	40.49	4054.27
SBR59-1184	255.2-256.2	60448	6.2	.6	92.0	1.2	16.1	1.0	2.6	2.36	.925	2.36	none	241.30	38.00	4092.27
SBR59-1185	256.2-258.0	60449	4.2	.1	95.0	.7	11.0	1.8	.2	2.46	.919	4.43	none	245.73	48.73	4141.00
SBR59-1186	258.0-260.0	60450	1.0	.1	98.5	.4	2.6	2.0	.4	2.64		5.28	none	251.01	13.73	4154.73

a. - Specific gravity estimated due to insufficient oil.

Core samples received November 7, 1958; assays made on air-dried samples

Laramie Petroleum Research Center, Laramie, Wyoming; Illustration No. SBR-2663P

March 25, 1959

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from National Farmers' Union Exploration Company's Corehole No. 5 drilled in the S1/2 of sec. 2, T. 12 S., R. 24 E., Uintah County, Utah

Surface elevation - 6130 feet

Mahogany marker at 170 feet

Sample number		Run No.	Yield of product				Specific gravity of oil at 60°/60°F.		Properties of spent shale		Tendency to		Remarks			
			Weight percent		Gal. per ton											
Laramie	Their	No.	Oil	Water	Spent shale	Gas + loss	Oil	Water	Sq. ft	Sq. ft	Sq. ft	Sq. ft	Sq. ft	Sq. ft	Sq. ft	
SBR59-1187	260.0-261.3	60451	0.6	0.4	98.1	0.6	1.68	1.3	0.8	2.67	0.924	3.47	none	254.48	5.55	4160.28
SBR59-1188	261.3-263.6	60452	3.5	.1	95.7	.7	9.1	2.3	.2	2.50	0.924	5.75	none	260.23	52.33	4212.61
SBR59-1189	263.6-264.8	60453	.4	.3	98.8	.5	1.28	1.2	.7	2.60		3.22	none	263.45	3.86	4216.47
SBR59-1190	264.8-266.1	60454	2.8	.1	96.8	.3	7.3	1.3	.2	2.54	.924	3.30	none	266.75	24.09	4240.56
SBR59-1191	266.1-268.0	60455	3.0	.1	96.3	.6	7.9	1.9	.2	2.52	.923	4.79	none	271.54	37.84	4278.40
SBR59-1192	268.0-270.0	60456	.0	.5	99.2	.3	trace	1.1					none			

a. - Specific gravity estimated due to insufficient oil.

Core samples received November 7, 1958; assays made on air-dried samples

Laramie Petroleum Research Center, Laramie, Wyoming; Illustration No. SBR-2664P

March 25, 1959