

132'-15
50'-25
28'-30

Samples from National Farmers Union Exploration Company's corehole No. 6 drilled in the SW1/4 of sec. 2, T. 13 S., R. 24 E., Uintah County, Utah

Mahogany marker at 109.2 feet

a. - Specific gravity estimated due to insufficient oil.

April 3, 1951

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from National Farmers Union Exploration Company's corehole No. 6 drilled in the SW1/4 of sec. 2, T. 13 S., R. 24 E., Uintah County, Utah

Surface elevation - 6,750 feet

Mahogany marker at 109.2 feet

Sample number		Run No.	Yield of product				Specific gravity of oil at 60°/60°		Properties of spent shale		Remarks				
			Weight percent		Gas + loss	Gal. per ton									
			Laramie	Their		Oil	Water	Spent Shale	Oil	Water		Tendency to coke			
SBR59-1523	79.3- 80.0	60487	14.9	1.4	80.5	3.2	39.1	0.7	3.2 2.02	0.915	14.1	slight	60.70	55.13	765.36
SBR59-1524	80.0- 81.0	60488	5.6	.9	92.1	1.4	14.5	1.0	2.2 2.39	.925	2.39	none	63.09	34.65	800.01
SBR59-1525	81.0- 82.9	60489	1.8	.9	96.6	.7	4.6	1.9	2.3 2.59		4.92	none	68.01	22.63	822.64
SBR59-1526	82.9- 84.4	60490	1.2	.6	97.4	.8	3.2	1.5	1.4 2.63		3.95	none	71.96	12.64	835.28
SBR59-1527	84.4- 86.2	60491	2.0	.7	96.4	.9	5.1	1.8	1.8 2.58		4.64	none	76.60	23.66	858.94
SBR59-1528	86.2- 88.0	60492	1.0	.8	97.4	.8	2.6	1.8	2.0 2.65		4.77	none	81.37	12.44	871.38
SBR59-1529	88.0- 89.9	60493	.8	.7	97.9	.6	2.0	1.9	1.7 2.66		5.05	none	86.42	10.10	881.48
SBR59-1530	89.9- 91.0	60494	5.2	.8	92.6	1.4	13.6	1.1	1.9 2.41	.914	2.65	none	89.07	36.04	917.52
SBR59-1531	91.0- 92.0	60495	4.6	1.1	93.1	1.2	12.0	1.0	2.6 2.44	.917	2.44	none	91.51	29.28	946.80
SBR59-1532	92.0- 92.8	60496	14.6	1.9	80.5	3.0	38.2	0.8	4.7 2.04	.914	1.63	slight	93.14	42.27	1009.07
SBR59-1533	92.8- 93.8	60497	6.2	1.1	91.0	1.7	16.1	1.0	2.6 2.36	.921	2.36	none	95.50	37.99	1047.06
SBR59-1534	93.8- 94.8	60498	5.1	.9	92.5	1.5	13.3	1.0	2.2 2.41	.920	2.41	none	97.91	32.10	1079.16
SBR59-1535	94.8- 96.2	60499	3.5	1.0	94.5	1.0	9.1	1.4	2.4 2.50	.923	3.50	none	101.41	31.85	1111.01
SBR59-1536	96.2- 97.2	60500	6.9	1.5	90.1	1.5	17.8	1.0	3.6 2.33	.931	2.33	none	103.74	41.47	1152.48
SBR59-1537	97.2- 98.2	60501	12.5	1.4	83.6	2.5	32.3	1.0	3.4 2.11	.926	2.11	slight	105.85	68.15	1220.63
SBR59-1538	98.2- 99.2	60502	8.9	.9	88.4	1.8	23.2	1.0	2.3 2.25	.919	2.25	none	108.10	52.20	1272.83
SBR59-1539	99.2-100.3	60503	17.0	1.3	78.6	3.1	45.2	1.1	3.0 1.95	.903	2.14	slight	110.24	96.73	1369.56
SBR59-1540	100.3-101.3	60504	15.7	1.7	79.7	2.9	41.2	1.0	4.1 1.99	.911	1.99	slight	112.23	81.99	1451.55
SBR59-1541	101.3-102.3	60505	8.1	1.0	89.1	1.8	21.5	1.0	2.4 2.27	.904	2.27	none	114.50	48.80	1500.35
SBR59-1542	102.3-104.3	60506	5.5	1.1	92.1	1.3	14.2	1.0	2.6 2.40	.922	2.40	none	116.90	34.08	1534.43
SBR59-1543	104.3-106.0	60507	6.4	.9	91.1	1.6	16.5	1.7	2.3 2.35	.923	2.00	none	120.90	66.00	1600.43
SBR59-1544	106.0-108.0	60508	4.6	.6	93.8	1.0	11.9	2.0	1.6 2.44	.922	4.88	none	125.78	58.07	1658.50
SBR59-1545	108.0-109.2	60509	3.8	1.0	94.0	1.2	9.9	1.2	2.3 2.48	.925	2.98	none	128.76	29.50	1688.00
SBR59-1546	109.2-110.2	60510	3.0	1.5	94.6	.9	7.6	1.0	3.6 2.53	.925	2.53	none	131.29	19.23	1707.23
SBR59-1547	110.2-111.5	60511	3.3	.5	94.9	1.3	8.5	1.3	1.2 2.51	.920	3.26	none	134.55	27.71	1734.94
SBR59-1548	111.5-112.5	60512	4.1	.7	94.1	1.1	10.8	1.0	1.7 2.45	.912	2.45	none	137.00	26.46	1761.40
SBR59-1549	112.5-113.6	60513	16.3	1.2	79.3	3.2	42.5	1.1	3.0 1.97	.919	2.17	slight	139.17	92.22	1853.62
SBR59-1550	113.6-114.6	60514	8.6	.7	88.6	2.1	22.6	1.0	1.8 2.25	.905	2.25	none	141.42	50.85	1904.47
SBR59-1551	114.6-115.6	60515	7.2	.6	90.2	2.0	19.0	1.0	1.4 2.31	.913	2.31	none	143.73	43.89	1948.36
SBR59-1552	115.6-116.6	60516	13.9	.9	82.3	2.9	36.2	1.0	2.3 2.06	.917	2.06	slight	145.79	74.57	2022.93

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, Wyo; Illustration No. SBR-2666P

) April 3, 1959

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from National Farmers Union Exploration Company's corehole No. 6 drilled in
the SW1/4 of sec. 2, T. 13 S., R. 24 E., Uintah County, Utah

Surface elevation - 6,750 feet

Mahogany marker at 109.2 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. x 59.	Tendency to coke	4 x 59. cum					
Laramie	Their	Oil	Water	Oil			ft. Water									
SBR59-1553	116.6-117.6	60517	14.4	0.9	81.7	3.0	37.4	1.0	2.2	2.05	0.922	2.05	slight	147.84	76.67	2099.60
SBR59-1554	117.6-118.6	60518	10.9	.5	86.7	1.9	28.6	1.0	1.2	2.16	.914	2.16	none	150.00	61.78	2161.38
SBR59-1555	118.6-119.6	60519	18.5	1.0	77.1	3.4	49.0	1.0	2.3	1.90	.906	1.90	medium	151.90	93.10	2254.48
SBR59-1556	119.6-120.6	60520	26.4	1.4	67.0	5.2	69.7	1.0	3.5	1.68	.907	1.68	heavy	153.58	117.10	2371.59
SBR59-1557	120.6-121.6	60521	28.6	1.7	63.9	5.8	75.6	1.0	4.2	1.62	.905	1.62	heavy	155.20	122.47	2494.05
SBR59-1558	121.6-122.8	60522	18.1	.9	77.6	3.4	47.7	1.2	2.0	1.91	.909	2.29	medium	157.49	109.23	2603.28
SBR59-1559	122.8-123.9	60523	23.1	1.5	70.8	4.6	60.3	1.1	3.5	1.78	.920	1.96	medium	159.45	118.19	2721.47
SBR59-1560	123.9-124.9	60524	7.8	1.1	89.1	2.0	20.0	1.0	2.6	2.29	.928	2.29	none	161.74	45.80	2767.27
SBR59-1561	124.9-126.3	60525	6.9	.6	90.5	2.0	17.9	1.4	1.4	2.33	.925	3.26	none	165.00	58.35	2825.62
SBR59-1562	126.3-127.3	60526	12.4	.8	84.8	2.0	32.2	1.0	2.0	2.12	.922	2.12	none	167.12	68.26	2893.88
SBR59-1563	127.3-128.5	60527	5.9	.4	92.3	1.4	15.2	1.2	.8	2.38	.930	2.86	none	169.98	43.47	2937.35
SBR59-1564	128.5-129.7	60528	7.0	.3	91.3	1.4	18.3	1.2	.7	2.33	.917	2.79	none	172.77	51.06	2988.41
SBR59-1565	129.7-131.2	60529	19.3	1.0	76.3	3.4	50.7	1.5	2.4	1.88	.913	2.82	slight	175.59	142.97	3131.38
SBR59-1566	131.2-132.8	60530	7.2	.7	90.7	1.4	19.3	1.6	1.7	2.32	.892	3.71	none	179.30	71.60	3202.98
SBR59-1567	132.8-133.8	60531	12.5	.7	84.5	2.3	32.9	1.0	1.8	2.10	.909	2.10	none	181.40	69.09	3272.07
SBR59-1568	133.8-135.0	60532	5.5	.4	92.6	1.5	14.3	1.2	1.0	2.40	.918	2.88	none	184.28	41.18	3313.25
SBR59-1569	135.0-136.0	60533	5.7	.4	92.5	1.4	14.7	1.0	1.0	2.39	.923	2.39	none	186.67	35.13	3348.38
SBR59-1570	136.0-137.0	60534	14.0	1.0	82.1	2.9	36.5	1.0	2.4	2.06	.921	2.06	slight	188.73	75.19	3423.57
SBR59-1571	137.0-138.0	60535	3.7	.5	94.1	1.7	9.6	1.0	1.2	2.48	.925	2.48	none	191.21	23.81	3447.38
SBR59-1572	138.0-139.0	60536	4.7	.3	93.8	1.2	12.3	1.0	.7	2.43	.919	2.43	none	193.64	29.89	3477.27
SBR59-1573	139.0-140.0	60537	5.2	.3	93.1	1.4	13.5	1.0	.8	2.41	.915	2.41	none	196.05	32.53	3509.80
SBR59-1574	140.0-141.0	60538	12.5	.9	84.1	2.5	32.8	1.0	2.0	2.10	.916	2.10	none	198.15	68.88	3578.68
SBR59-1575	141.0-142.0	60539	10.3	.6	87.1	2.0	27.6	1.0	1.3	2.18	.898	2.18	none	200.33	60.17	3638.85
SBR59-1576	142.0-143.0	60540	8.2	.4	89.7	1.7	21.5	1.0	1.1	2.27	.911	2.27	none	202.60	48.81	3687.66
SBR59-1577	143.0-144.0	60541	10.7	.7	86.3	2.3	28.2	1.0	1.7	2.17	.909	2.17	none	204.77	61.19	3748.85
SBR59-1578	144.0-145.0	60542	5.4	.5	92.8	1.3	14.2	1.0	1.1	2.40	.920	2.40	none	207.17	34.08	3782.93
SBR59-1579	145.0-146.0	60543	3.4	.4	95.2	1.0	8.9	1.0	1.0	2.50	.926	2.50	none	209.67	22.25	3805.18
SBR59-1580	146.0-147.5	60544	4.1	.4	94.3	1.2	10.8	1.5	.8	2.45	.922	3.67	none	213.34	39.64	3844.82
SBR59-1581	147.5-148.8	60545	7.1	.6	90.8	1.5	18.4	1.3	1.4	2.33	.925	3.03	none	216.37	55.75	3900.57
SBR59-1582	148.8-150.0	60546	2.5	.4	96.2	.9	6.4	1.2	1.1	2.55	.925	3.06	none	219.43	19.58	3920.15

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

Laramie Petroleum Research Center, Laramie, Wyo; Illustration No. SBR-2667P

April 3, 1958

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from National Farmers Union Exploration Company's corehole No. 6 drilled in the SW1/4 of sec. 2, T. 13 S., R. 24 E., Uintah County, Utah

Surface elevation - 6,750 feet

Mahogany marker at 109.2 feet

Sample number		Run No.	Yield of product				Specific gravity				Properties of spent shale		Remarks			
Laramie	Their		Weight percent		Spent shale	Gas + loss	Gal. per ton		of oil at 59.60°/60° F.	Tendency to coke						
		Oil	Water	oil			Water									
SBR59-1583	150.0-151.2	60547	2.0	0.5	96.7	0.8	5.3	1.2	1.1	2.58	0.919	3.10	none	222.53	16.43	3936.58
SBR59-1584	151.2-153.0	60548	3.4	1.5	94.1	1.0	8.8	1.0	3.6	2.50	.919	4.50	none	227.03	39.60	3976.18
SBR59-1585	153.0-154.0	60549	11.8	1.2	84.8	2.2	30.7	1.0	2.9	2.13	.922	2.13	slight	229.16	65.39	4041.57
SBR59-1586	154.0-155.6	60550	2.6	.4	96.2	.8	6.9	1.6	1.0	2.54	.915	4.06	none	233.22	28.01	4069.58
SBR59-1587	155.6-156.8	60551	8.7	.8	88.9	1.6	22.5	1.2	1.9	2.25	.922	2.70	none	235.92	60.75	4130.33
SBR59-1588	156.8-157.8	60552	1.0	.3	98.3	.4	2.5	1.0	.8	2.65		2.65	none		6.63	
SBR59-1589	157.8-158.8	60553	4.3	.5	94.0	1.2	11.2	1.0	1.2	2.45	.920	2.45	none		27.44	
SBR59-1590	158.8-160.4	60554	1.7	2.8	95.1	.4	4.3	1.6	6.7	2.60		4.16	none		17.89	
SBR59-1591	160.4-162.0	60555	1.7	.8	96.8	.7	4.4	1.6	2.0	2.60		4.16	none		19.30	
SBR59-1592	162.0-163.3	60556	1.9	.4	96.9	.8	5.0	1.3	.8	2.59			none			
SBR59-1593	163.3-164.6	60557	6.6	.2	92.6	.6	17.5	1.3	.4	2.34	.909		slight			
SBR59-1594	164.6-165.7	60558	.9	.2	98.6	.3	2.4	1.1	.5	2.65			none			
SBR59-1595	165.7-166.6	60559	6.5	.7	90.8	2.0	16.9	0.9	1.7	2.35	.920		none			
SBR59-1596	166.6-167.8	60560	2.7	.4	95.9	1.0	7.1	1.2	1.0	2.54	.909		none			
SBR59-1597	167.8-168.8	60561	5.7	.5	92.7	1.1	15.3	1.0	1.1	2.37	.901		none			
SBR59-1598	168.8-170.0	60562	2.5	.3	96.3	.9	6.6	1.2	.6	2.55	.917		none			
SBR59-1599	170.0-171.0	60563	2.5	.6	95.9	1.0	6.6	1.0	1.4	2.55	.914		none			
SBR59-1600	171.0-172.0	60564	1.5	.6	97.1	.8	4.0	1.0	1.4	2.61			none			
SBR59-1601	172.0-173.0	60565	2.4	.6	96.1	.9	6.3	1.0	1.4	2.56	.919		none			
SBR59-1602	173.0-174.0	60566	1.4	1.5	96.3	.8	3.8	1.0	3.6	2.60			none			
SBR59-1603	174.0-175.0	60567	1.8	1.6	95.6	1.0	4.6	1.0	3.8	2.59			none			
SBR59-1604	175.0-176.0	60568	.9	.7	97.8	.6	2.3	1.0	1.8	2.65			none			
SBR59-1605	176.0-177.0	60569	1.8	.2	97.2	.8	4.6	1.0	.6	2.59			none			
SBR59-1606	177.0-178.0	60570	5.8	1.3	91.6	1.3	15.3	1.0	3.1	2.30	.901		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, Wyo; Illustration No. SBR-2668P

April 3, 195)