

Logged

U-29

See next hole

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from National Farmer's Union Exploration Company's corehole No. 9, drilled in the NW1/4 of sec. 32, T. 10 S., R. 25 E., Uintah County, Utah

Surface elevation - 5,770 feet

Mahogany Marker not reached

Mahogany marker 5478.8

Mahogany marker 5478.8		Yield of product					Specific gravity		Properties of spent shale			
Sample number		Run No.	Weight percent		Spent shale	Gas + loss	Gal. per ton		of oil at 60°/60°F	Tendency to coke	Remarks	Remarks
Laramie	Their		Oil	Water			Oil	Water				
SBR59-1	210.0-245.5	59420	0.2	0.2	98.8	0.8	0.64	0.1	0.914	none		
SBR59-2	245.5-247.0	59421	2.2	1.1	95.7	1.0	5.7	2.5	0.917	none		
SBR59-3	247.0-248.0	59422	2.3	1.0	96.1	.6	5.9	2.1	0.914	none		
SBR59-4	248.0-249.0	59423	1.5	.2	98.0	.3	3.8	.6	.921	none		
SBR59-5	249.0-250.0	59424	2.1	.4	96.9	.6	5.3	1.1	.921	none		
SBR59-6	250.0-251.0	59425	2.4	.3	96.7	.6	6.1	.8	.921	none		
SBR59-7	251.0-252.0	59426	5.3	.3	93.3	1.1	13.8	1.0	.913	2.40	33.12	
SBR59-8	252.0-253.0	59427	5.5	.5	92.3	1.7	14.3	1.0	.923	2.39	34.18	
SBR59-9	253.0-254.0	59428	4.9	.6	93.1	1.4	12.6	1.0	.930	2.43	30.62	
SBR59-10	254.0-255.0	59429	4.5	.6	93.7	1.2	11.6	1.0	.930	2.45	28.42	
SBR59-11	255.0-256.0	59430	5.6	.5	92.6	1.3	14.3	1.0	.933	2.39	34.19	
SBR59-12	256.0-257.0	59431	6.0	.6	92.2	1.2	15.5	1.0	.924	2.37	36.73	
SBR59-13	257.0-258.0	59432	4.1	.1	95.0	.8	10.7	1.0	.914	2.46	26.32	
SBR59-14	258.0-260.0	59433	2.6	.3	96.4	.7	6.8	2.0	.924	5.18	34.68	
SBR59-15	260.0-262.0	59434	1.8	.3	97.2	.7	4.7	2.0	.924	5.18	24.25	
SBR59-16	262.0-264.0	59435	1.6	.3	97.3	.8	4.1	2.0	.924	5.22	21.40	
SBR59-17	264.0-266.0	59436	1.4	.2	97.7	.7	3.5	2.0	.924	5.24	18.34	
SBR59-18	266.0-268.0	59437	1.1	.3	98.0	.6	2.9	2.0	.924	5.26	15.25	
SBR59-19	268.0-270.0	59438	1.7	.3	97.5	.5	4.4	2.0	.924	5.20	22.88	
SBR59-20	270.0-271.6	59439	2.4	.6	96.3	.7	6.4	1.6	.925	4.08	26.11	
SBR59-21	271.6-272.6	59440	9.1	.9	88.2	1.8	23.6	1.0	.925	2.24	52.86	
SBR59-22	272.6-274.0	59441	3.5	.5	95.0	1.0	9.0	1.4	.934	3.50	31.50	
SBR59-23	274.0-275.0	59442	2.3	.2	96.7	.8	5.8	1.0	.934	2.56	14.85	
SBR59-24	275.0-276.0	59443	1.6	.1	97.7	.6	4.1	1.0	.934	2.61	10.70	
SBR59-25	276.0-278.0	59444	1.3	.1	97.9	.7	3.4	2.0	.934	5.24	17.82	
SBR59-26	278.0-280.0	59445	1.5	.3	97.5	.7	3.9	2.0	.934	5.22	20.36	
SBR59-27	280.0-281.0	59446	1.7	.2	97.7	.4	4.5	1.0	.934	2.60	11.70	
SBR59-28	281.0-282.0	59447	1.3	.4	97.7	.6	3.3	1.0	.934	2.62	8.65	
SBR59-29	282.0-284.0	59448	.7	.3	98.4	.6	1.9	2.0	.934	5.32	10.11	
SBR59-30	284.0-286.0	59449	2.4	.3	96.5	.8	6.2	2.0	.935	5.12	31.74	

a. - Specific gravity estimated due to insufficient oil.

Core samples received November 7, 1950 assays made on air-dried samples

Petroleum Research Center, Laramie, Wyoming

tration No. SBR-2592P

January 20, 1959

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

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Surface elevation - 5,770 feet

Mahogany Marker not reached

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	Thier	Oil	Water	Spent shale		Oil	Water							
SBR59-31	286.0-288.0	59450	2.4	0.2	96.5	0.9	6.1	2.0	0.6	2.56	0.936	5.12	none	31.23
SBR59-32	288.0-290.0	59451	2.2	.3	96.4	1.1	5.6	2.0	.8	2.57	.932	5.14	none	28.78
SBR59-33	290.0-291.2	59452	3.0	.2	95.8	1.0	7.8	1.2	.6	2.52	.925	5.04	none	37.31
SBR59-34	291.2-292.5	59453	13.3	.9	83.1	2.7	34.9	1.3	2.0	2.08	.916	4.16	none	145.18
SBR59-35	292.5-294.0	59454	4.1	.2	94.8	.9	10.5	1.5	.5	2.46	.932	4.92	none	51.66
SBR59-36	294.0-295.0	59455	2.7	.4	96.2	.7	7.0	1.0	.8	2.54	.933	2.54	none	17.78
SBR59-37	295.0-296.0	59456	2.6	.2	96.2	1.0	6.7	1.0	.5	2.53	.930	2.53	none	16.95
SBR59-38	296.0-297.0	59457	2.3	.2	96.6	.9	5.9	1.0	.4	2.56	.935	2.56	none	15.10
SBR59-39	297.0-298.0	59458	2.8	.3	95.8	1.1	7.3	1.0	.6	2.53	.935	2.53	none	18.47
SBR59-40	298.0-300.0	59459	2.9	.3	95.7	1.1	7.5	2.0	.6	2.53	.938	5.06	none	37.95
SBR59-41	300.0-301.0	59460	3.2	.3	95.4	1.1	8.3	1.0	.6	2.51	.932	2.51	none	20.83
SBR59-42	301.0-302.0	59461	3.5	.3	95.4	.8	8.8	1.0	.7	2.50	.936	2.50	none	22.00
SBR59-43	302.0-303.0	59462	3.5	.2	95.6	.7	8.9	1.0	.5	2.50	.936	2.50	none	22.25
SBR59-44	303.0-304.0	59463	3.2	.4	95.8	.6	8.3	1.0	.8	2.51	.933	2.51	none	20.83
SBR59-45	304.0-305.0	59464	3.1	.2	95.8	.9	7.9	1.0	.6	2.52	.931	2.52	none	19.91
SBR59-46	305.0-306.0	59465	3.3	.2	95.7	.8	8.4	1.0	.6	2.51	.935	2.51	none	21.08
SBR59-47	306.0-307.0	59466	4.4	.3	94.2	1.1	11.1	1.0	.7	2.46	.941	2.46	none	27.31
SBR59-48	307.0-308.0	59467	4.1	.4	94.3	1.2	10.5	1.0	1.0	2.46	.941	2.46	none	25.83
SBR59-49	308.0-309.0	59468	4.1	.3	94.7	.9	10.4	1.0	.7	2.46	.942	2.46	none	25.58
SBR59-50	309.0-310.0	59469	4.1	.4	94.6	.9	10.4	1.0	.8	2.46	.940	2.46	none	25.58
SBR59-51	310.0-312.0	59470	4.1	.2	94.8	.9	10.6	2.0	.5	2.46	.930	4.92	none	52.15
SBR59-52	312.0-314.0	59471	4.6	.3	94.2	.9	11.7	2.0	.8	2.45	.934	4.90	none	57.33
SBR59-53	314.0-315.0	59472	4.7	.2	93.9	1.2	12.0	1.0	.6	2.44	.935	2.44	none	29.28
SBR59-54	315.0-316.0	59473	4.4	.3	94.1	1.2	11.4	1.0	.6	2.45	.934	2.45	none	27.93
SBR59-55	316.0-318.0	59474	3.0	.1	95.9	1.0	7.7	2.0	.4	2.52	.926	5.04	none	38.81
SBR59-56	318.0-320.0	59475	3.0	.1	95.9	1.0	7.6	2.0	.4	2.52	.925	5.04	none	38.30
SBR59-57	320.0-321.0	59476	3.6	.2	95.0	1.2	9.3	1.0	.5	2.49	.935	2.49	none	23.16
SBR59-58	321.0-322.0	59477	3.7	.2	94.9	1.2	9.4	1.0	.6	2.49	.936	2.49	none	23.41
SBR59-59	322.0-323.0	59478	5.6	.3	93.0	1.1	14.3	1.0	.7	2.39	.934	2.39	none	34.18
SBR59-60	323.0-324.0	59479	5.6	.4	92.6	1.4	14.5	1.0	1.0	2.38	.932	2.38	none	34.51

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

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Surface elevation - 5,770 feet

Mahogany Marker not reached

Sample number		Run No.	Yield of product				Gal. per ton		Specific gravity of oil at 60°/60°F.	Properties of spent shale		Remarks
			Weight percent		Spent shale	Gas + loss	Oil	Water		Tendency to coke		
Laramie	Thier	Oil	Water	Oil					Water		Oil	Water
SBR59-61	324.0-325.0	59480	3.2	0.1	95.9	0.8	8.1	1.0	2.51	0.930	2.51	20.33
SBR59-62	325.0-326.0	59481	1.8	.2	97.3	.7	4.6	1.0	2.58		2.58	11.87
SBR59-63	326.0-327.0	59482	2.8	.2	96.1	.9	7.2	1.0	2.53	.926	2.53	18.22
SBR59-64	327.0-328.0	59483	3.0	.3	95.7	1.0	7.7	1.0	2.52	.927	2.52	19.40
SBR59-65	328.0-329.0	59484	4.3	.3	94.2	1.2	11.1	1.0	2.46	.930	2.46	27.31
SBR59-66	329.0-330.0	59485	3.6	.4	94.8	1.2	9.2	1.0	2.49	.943	2.49	22.91
SBR59-67	330.0-331.0	59489	4.2	.3	94.2	1.3	10.6	1.0	2.46	.931	2.46	26.08
SBR59-68	331.0-332.0	59490	4.4	.3	94.0	1.3	11.2	1.0	2.46	.936	2.46	27.55
SBR59-69	332.0-333.0	59491	4.5	.3	93.7	1.5	11.4	1.0	2.45	.940	2.45	27.93
SBR59-70	333.0-334.0	59492	4.3	.3	93.9	1.5	11.0	1.0	2.46	.940	2.46	27.06
SBR59-71	334.0-335.0	59493	3.8	.3	94.6	1.3	9.7	1.0	2.48	.929	2.48	24.06
SBR59-72	335.0-336.0	59494	3.7	.1	95.3	.9	9.5	1.0	2.48	.921	2.48	23.56
SBR59-73	336.0-337.0	59495	3.5	.3	95.5	.7	8.9	1.0	2.50	.941	2.50	22.25
SBR59-74	337.0-338.0	59496	4.6	.1	94.2	1.1	11.6	1.0	2.45	.936	2.45	28.42
SBR59-75	338.0-339.0	59497	5.1	.2	93.7	1.0	12.8	1.0	2.43	.942	2.43	31.10
SBR59-76	339.0-340.0	59498	3.9	.3	95.0	.8	10.0	1.0	2.48	.931	2.48	24.80
SBR59-77	340.0-341.0	59499	3.5	.4	95.2	.9	9.0	1.0	2.50	.931	2.50	22.50
SBR59-78	341.0-342.0	59500	3.5	.3	95.3	.9	9.1	1.0	2.50	.937	2.50	22.75
SBR59-79	342.0-343.0	59501	3.6	.3	95.4	.7	9.1	1.0	2.50	.936	2.50	22.75
SBR59-80	343.0-344.0	59502	4.2	.2	94.7	.9	10.7	1.0	2.46	.933	2.46	26.32
SBR59-81	344.0-345.0	59503	3.9	.4	94.7	1.0	10.0	1.0	2.48	.943	2.48	24.80
SBR59-82	345.0-346.0	59504	3.2	.3	95.4	1.1	8.1	1.0	2.51	.941	2.51	20.33
SBR59-83	346.0-347.0	59505	3.7	.3	95.2	.8	9.4	1.0	2.49	.941	2.49	23.41
SBR59-84	347.0-348.0	59506	3.7	.4	95.0	.9	9.5	1.0	2.49	.936	2.49	23.56
SBR59-85	348.0-349.0	59507	3.7	.3	95.1	.9	9.5	1.0	2.49	.937	2.49	23.56
SBR59-86	349.0-350.0	59508	3.7	.2	94.5	1.6	9.4	1.0	2.49	.939	2.49	20.33
SBR59-87	350.0-351.0	59509	7.9	.7	89.8	1.6	20.3	1.0	2.29	.936	2.29	46.49
SBR59-88	351.0-352.0	59510	3.6	.3	95.3	.8	9.1	1.0	2.50	.931	2.50	22.75
SBR59-89	352.0-353.0	59511	3.0	.5	95.6	.9	7.7	1.0	2.52	.935	2.52	19.40
SBR59-90	353.0-354.0	59512	2.0	.4	96.8	.8	5.2	1.0	2.58	.931	2.58	13.42

a. - Specific gravity estimated due to insufficient oil.

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

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Surface elevation - 5,770 feet

Mahogany Marker not reached

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							
Laramie	Thier		Oil	Water					Oil	Water		coke	
SBR59-91	354.0-355.0	59513	3.3	0.4	95.3	1.0	8.4	1.0	1.0	2.51	2.51	none	21.08
SBR59-92	355.0-356.0	59514	4.1	.5	94.2	1.2	10.4	1.0	1.1	2.46	2.46	none	25.58
SBR59-93	356.0-357.0	59515	5.2	1.3	91.2	2.3	13.0	1.0	3.1	2.42	2.42	none	31.46
SBR59-94	357.0-358.0	59516	4.3	.4	94.0	1.3	11.0	1.0	.8	2.46	2.46	none	27.06
SBR59-95	358.0-359.0	59517	4.1	.5	94.0	1.4	10.4	1.0	1.1	2.46	2.46	none	28.58
SBR59-96	359.0-360.0	59518	3.2	.4	95.7	.7	8.3	1.0	.8	2.51	2.51	none	20.83
SBR59-97	360.0-361.0	59519	2.4	.5	96.4	.7	6.1	1.0	1.2	2.54	2.54	none	15.62
SBR59-98	361.0-362.0	59520	2.8	.4	95.9	.9	7.1	1.0	1.0	2.53	2.53	none	17.96
SBR59-99	362.0-363.0	59521	2.9	.5	95.4	1.2	7.5	1.0	1.1	2.52	2.52	none	18.90
SBR59-100	363.0-364.0	59522	2.6	.3	96.0	1.1	6.6	1.0	.8	2.55	2.55	none	16.83
SBR59-101	364.3-365.4	59523	3.2	.5	95.1	1.2	8.3	1.1	1.1	2.51	2.76	none	22.91
SBR59-102	365.4-366.4	59524	6.9	.6	90.5	2.0	17.7	1.0	1.6	2.33	2.33	none	41.24
SBR59-103	366.4-367.4	59525	3.0	.5	95.5	1.0	7.7	1.0	1.2	2.53	2.53	none	19.48
SBR59-104	367.4-368.4	59526	2.8	.4	95.9	.9	7.1	1.0	1.1	2.53	2.53	none	17.96
SBR59-105	368.4-369.4	59527	2.4	.5	96.2	.9	6.0	1.0	1.2	2.56	2.56	none	15.36
SBR59-106	369.4-370.4	59528	2.3	.4	96.5	.8	6.0	1.0	1.0	2.56	2.56	none	15.36
SBR59-107	370.4-371.4	59529	2.6	.3	96.2	.9	6.6	1.0	.8	2.55	2.55	none	16.83
SBR59-108	371.4-372.4	59530	2.4	.4	96.4	.8	6.2	1.0	.8	2.56	2.56	none	15.87
SBR59-109	372.4-373.4	59531	2.4	.4	96.2	1.0	6.0	1.0	1.0	2.56	2.56	none	15.36
SBR59-110	373.4-374.4	59532	2.2	.4	96.4	1.0	5.8	1.0	1.0	2.56	2.56	none	14.85
SBR59-111	374.4-375.4	59533	2.3	.5	96.3	.9	5.9	1.0	1.3	2.56	2.56	none	15.10
SBR59-112	375.4-376.4	59534	2.5	.4	96.3	.8	6.5	1.0	1.0	2.55	2.55	none	16.57
SBR59-113	376.4-377.4	59535	2.5	.6	96.3	.6	6.4	1.0	1.3	2.55	2.55	none	16.32
SBR59-114	377.4-378.4	59536	2.9	.4	95.9	.8	7.5	1.0	.8	2.52	2.52	none	18.90
SBR59-115	378.4-379.4	59537	2.4	.5	96.2	.9	6.3	1.0	1.2	2.55	2.55	none	16.07
SBR59-116	379.4-380.4	59538	1.9	.5	96.9	.7	4.9	1.0	1.3	2.59	2.59	none	12.69
SBR59-117	380.4-381.4	59539	2.2	.5	96.4	.9	5.6	1.0	1.3	2.57	2.57	none	14.39
SBR59-118	381.4-383.0	59540	3.0	.4	95.4	1.2	7.6	1.6	1.0	2.53	4.65	none	30.78
SBR59-119	383.0-384.0	59541	8.1	.7	89.3	1.9	20.9	1.0	1.7	2.28	2.28	none	47.65
SBR59-120	384.0-385.0	59542	3.0	.5	95.6	.9	7.6	1.0	1.3	2.53	2.53	none	19.23

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			Weight percent		Gas + loss	Gal. per ton		of oil at 60°/60°F.	Tendency to coke				
Laramie	Thier		Oil	Water		Spent shale				Oil	Water		
SBR59-121	385.0-386.0	59543	2.4	0.8	95.9	0.9	6.1	1.0	2.54	.932	2.56	none	15.62
SBR59-122	386.0-387.0	59544	2.5	.4	96.2	.9	6.4	1.0	2.55	.932	2.55	none	16.32
SBR59-123	387.0-388.0	59545	2.4	.3	96.5	.8	6.1	1.0	2.56	.932	2.56	none	15.62
SBR59-124	388.0-389.0	59546	2.1	.4	96.5	1.0	5.5	1.0	2.57	.930	2.57	none	14.14
SBR59-125	389.0-390.0	59547	7.6	.6	90.0	1.8	19.8	1.0	2.30	.925	2.30	none	45.54
SBR59-126	390.0-391.0	59548	3.9	.6	94.3	1.2	10.0	1.0	2.48	.944	2.48	none	24.80
SBR59-127	391.0-392.0	59549	3.4	.9	94.7	1.0	8.7	1.0	2.50	.942	2.50	none	21.75
SBR59-128	392.0-393.0	59550	3.0	.9	95.2	.9	7.7	1.0	2.52	.939	2.52	none	19.40
SBR59-129	393.0-394.0	59551	2.6	1.0	95.7	.7	6.6	1.0	2.53	.940	2.53	none	16.83
SBR59-130	394.0-395.0	59552	3.0	.8	95.6	.6	7.5	1.0	2.53	.942	2.53	none	18.98
SBR59-131	395.0-396.0	59553	4.3	.5	94.3	.9	10.9	1.0	2.46	.941	2.46	none	26.81
SBR59-132	396.0-397.0	59554	4.2	.6	94.1	1.1	10.8	1.0	2.46	.936	2.46	none	26.57
SBR59-133	397.0-398.0	59555	3.2	.9	95.0	.9	8.3	1.0	2.51	.940	2.51	none	20.83
SBR59-134	398.0-399.0	59556	2.3	1.2	95.8	.7	5.9	1.0	2.56	.934	2.56	none	15.10
SBR59-135	399.0-400.0	59557	2.0	1.1	96.2	.7	5.1	1.0	2.59		2.59	none	13.21
SBR59-136	400.0-401.0	59558	2.2	.9	96.3	.6	5.8	1.0	2.56	.927	2.56	none	14.85
SBR59-137	401.0-402.0	59559	2.8	1.0	95.5	.7	7.3	1.0	2.53	.935	2.53	none	18.47
SBR59-138	402.0-403.0	59560	3.4	.7	95.1	.8	8.7	1.0	2.50	.935	2.50	none	21.75
SBR59-139	403.0-404.0	59561	3.6	.7	94.9	.8	9.2	1.0	2.49	.932	2.49	none	22.91
SBR59-140	404.0-405.0	59562	6.1	.7	91.8	1.4	15.7	1.0	2.37	.937	2.37	none	37.21
SBR59-141	405.0-406.0	59563	4.9	.8	92.9	1.4	12.6	1.0	2.43	.937	2.43	none	30.62
SBR59-142	406.0-407.0	59564	3.1	.4	95.3	1.2	7.9	1.0	2.52	.943	2.52	none	19.91
SBR59-143	407.0-408.0	59565	2.0	1.1	96.3	.6	5.1	1.0	2.59	.938	2.59	none	13.21
SBR59-144	408.0-409.0	59566	2.7	.6	96.0	.7	7.0	1.0	2.54	.931	2.54	none	17.78
SBR59-145	409.0-410.0	59567	4.1	.6	94.3	1.0	10.6	1.0	2.46	.938	2.46	none	26.08
SBR59-146	410.0-411.0	59568	3.3	.4	95.4	.9	8.4	1.0	2.51	.940	2.51	none	21.08
SBR59-147	411.0-412.0	59569	4.1	.4	94.5	1.0	10.5	1.0	2.46	.927	2.46	none	25.83
SBR59-148	412.0-413.0	59570	5.7	.6	92.1	1.6	14.8	1.0	2.38	.926	2.38	none	35.22
SBR59-149	413.0-414.0	59571	4.1	.6	94.1	1.2	10.6	1.0	2.46	.928	2.46	none	26.08
SBR59-150	414.0-415.0	59572	3.4	.6	94.7	1.3	8.7	1.0	2.50	.930	2.50	none	21.75

a. - Specific gravity estimated due to insufficient oil.

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

OIL-SHALE ASSAYS BY MODIFIED FISCHER RESTORT METHOD

Samples from National Farmer's Union Exploration Company's corehole No. 9, drilled in the NW1/4 of sec. 32, T. 10 S., R. 25 E., Uintah County, Utah

Surface elevation - 5,770 feet

Mahogany Marker not reached

Sample number		Run No.	Yield of product				Gal. per ton		Specific gravity of oil at 60°/60°F.	Properties of spent shale		Remarks		
			Weight percent		Spent shale	Gas + loss	Oil	Water		Tendency to coke				
Laramie	Their		Oil	Water										
SBR59-151	415.0-416.0	59573	2.6	1.0	95.4	1.0	6.8	1.0	2.4	2.54	0.928	2.54	none	
SBR59-152	416.0-417.2	59574	2.6	.6	96.0	.8	6.6	1.2	1.6	2.55	.926	3.06	none	
SBR59-153	417.2-418.2	59575	12.0	1.2	84.4	2.4	30.7	1.0	2.9	2.13	.934	2.13	none	
SBR59-154	418.2-419.2	59576	4.5	.5	93.8	1.2	11.6	1.0	1.2	2.45	.941	2.45	none	
SBR59-155	419.2-420.2	59577	2.8	.7	95.5	1.0	7.1	1.0	1.8	2.54	.937	2.54	none	
SBR59-156	420.2-421.2	59578	2.6	.5	95.8	1.1	6.6	1.0	1.3	2.55	.933	2.55	none	
SBR59-157	421.2-422.2	59579	2.7	.8	95.3	1.2	6.9	1.0	1.9	2.54	.936	2.54	none	
SBR59-158	422.2-423.2	59580	3.7	.9	94.2	1.2	9.5	1.0	2.0	2.48	.935	2.48	none	
SBR59-159	423.2-424.2	59581	6.7	.8	90.7	1.8	17.3	1.0	2.0	2.34	.931	2.34	none	
SBR59-160	424.2-425.2	59582	5.6	.7	92.6	1.1	14.2	1.0	1.7	2.40	.935	2.40	none	
SBR59-161	425.2-426.2	59583	3.6	1.1	94.3	1.0	9.3	1.0	2.6	2.51	.925	2.51	none	
SBR59-162	426.2-427.2	59584	3.5	.9	94.6	1.0	9.0	1.0	2.3	2.50	.926	2.50	none	
SBR59-163	427.2-428.2	59585	3.5	1.1	94.4	1.0	8.9	1.0	2.6	2.50	.930	2.50	none	
SBR59-164	428.2-429.2	59586	7.7	1.0	89.4	1.9	20.0	1.0	2.4	2.30	.925	2.30	none	
SBR59-165	429.2-430.2	59587	8.0	1.0	89.0	2.0	20.4	1.0	2.4	2.29	.937	2.29	none	
SBR59-166	430.2-431.2	59588	3.8	.8	94.3	1.1	9.6	1.0	2.0	2.48	.940	2.48	none	
SBR59-167	431.2-432.2	59589	3.6	.8	94.5	1.1	9.3	1.0	1.8	2.51	.941	2.51	none	
SBR59-168	432.2-433.2	59590	3.8	.8	94.4	1.0	9.7	1.0	1.9	2.48	.943	2.48	none	
SBR59-169	433.2-434.2	59591	4.7	.6	93.7	1.0	11.8	1.0	1.6	2.44	.944	2.44	none	
SBR59-170	434.2-435.2	59592	5.0	.6	93.2	1.2	12.8	1.0	1.3	2.42	.940	2.42	none	
SBR59-171	435.2-436.2	59593	4.9	.6	93.5	1.0	12.4	1.0	1.4	2.43	.942	2.43	none	
SBR59-172	436.2-437.2	59594	6.4	1.1	90.6	1.9	16.5	1.0	2.6	2.35	.925	2.35	none	
SBR59-173	437.2-438.2	59595	6.8	1.1	90.2	1.9	17.5	1.0	2.6	2.34	.933	2.24	none	
SBR59-174	438.2-439.2	59596	4.8	.8	93.1	1.3	12.2	1.0	1.8	2.44	.939	2.44	none	
SBR59-175	439.2-440.2	59597	5.2	.8	92.6	1.4	13.3	1.0	1.9	2.41	.944	2.41	none	
SBR59-176	440.2-441.2	59598	5.5	.5	93.1	.9	14.0	1.0	1.3	2.40	.937	2.40	none	
SBR59-177	441.2-442.2	59599	5.5	.7	92.9	.9	14.0	1.0	1.7	2.40	.938	2.40	none	
SBR59-178	442.2-443.2	59600	4.7	.3	94.0	1.0	12.1	1.0	.7	2.43	.934	2.43	none	
SBR59-179	443.2-444.2	59601	4.8	.5	93.8	.9	12.4	1.0	1.2	2.43	.933	2.43	none	
SBR59-180	444.2-445.2	59602	5.8	.5	92.7	1.0	14.7	1.0	1.2	2.39	.935	2.39	none	

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

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from National Farmer's Union Exploration Company's corehole No. 9, drilled in the NW1/4 of sec. 32, T. 10 S., R. 25 E., Uintah County, Utah

Surface elevation - 5,770 feet

Mahogany Marker not reached

Sample number		Run No.	Yield of product				Gal. per ton		Specific gravity		Properties of spent shale		Remarks	
			Weight percent		Spent shale	Gas + loss	Oil	Water	of oil at 60°/60°		Tendency to coke			
Laramie	Their	Oil	Water	Oil					Water	Oil		Water	Oil	Water
SBR59-181	445.2-446.2	59603	5.0	0.5	93.3	1.2	12.9	1.0	1.2	2.42	.935	2.42	none	
SBR59-182	446.2-447.2	59604	5.1	.6	93.2	1.1	13.1	1.0	1.3	2.41	.932	2.41	none	
SBR59-183	447.2-448.2	59605	4.9	.7	93.3	1.1	12.8	1.0	1.6	2.42	.922	2.42	none	
SBR59-184	448.2-449.2	59606	4.9	.9	93.0	1.2	12.7	1.0	2.2	2.42	.918	2.42	none	
SBR59-185	449.2-450.2	59607	5.4	1.2	91.9	1.5	14.2	1.0	2.9	2.40	.917	2.40	none	
SBR59-186	450.2-451.2	59608	4.8	1.2	92.3	1.7	12.4	1.0	3.0	2.43	.916	2.43	none	
SBR59-187	451.2-452.2	59609	4.6	1.0	92.9	1.5	12.1	1.0	2.3	2.44	.914	2.44	none	
SBR59-188	452.2-453.2	59610	5.2	.8	92.4	1.6	13.6	1.0	1.8	2.41	.920	2.41	none	
SBR59-189	453.2-454.2	59611	4.9	.8	92.7	1.6	12.7	1.0	2.0	2.42	.920	2.42	none	
SBR59-190	454.2-455.2	59612	5.8	.8	91.5	1.9	15.1	1.0	1.9	2.38	.918	2.38	none	
SBR59-191	455.2-456.2	59613	6.4	1.0	90.6	2.0	16.7	1.0	2.4	2.35	.917	2.35	none	
SBR59-192	456.2-457.2	59614	5.7	.8	92.0	1.5	15.0	1.0	1.8	2.38	.915	2.38	none	
SBR59-193	457.2-458.2	59615	5.9	.7	92.0	1.4	15.5	1.0	1.6	2.37	.920	2.37	none	
SBR59-194	458.2-459.2	59616	10.7	.9	86.0	2.4	27.9	1.0	2.3	2.17	.916	2.17	none	
SBR59-195	459.2-460.2	59617	7.7	.7	89.8	1.8	20.1	1.0	1.7	2.30	.917	2.30	none	
SBR59-196	460.2-461.2	59618	8.5	1.0	88.4	2.1	22.4	1.0	2.3	2.26	.911	2.26	none	
SBR59-197	461.2-462.2	59619	8.3	1.0	88.5	2.2	21.7	1.0	2.4	2.26	.914	2.26	none	
SBR59-198	462.2-463.2	59620	6.3	.9	91.0	1.8	16.4	1.0	2.3	2.35	.914	2.35	none	
SBR59-199	463.2-464.2	59621	5.2	1.0	92.3	1.5	13.5	1.0	2.4	2.41	.917	2.41	none	
SBR59-200	464.2-465.2	59622	3.8	1.4	94.0	.8	9.8	1.0	3.5	2.48	.922	2.48	none	
SBR59-201	465.2-466.2	59623	3.8	1.1	94.4	.7	9.8	1.0	2.8	2.48	.925	2.48	none	
SBR59-202	466.2-467.2	59624	5.0	1.2	92.5	1.3	13.1	1.0	2.9	2.41	.917	2.41	none	
SBR59-203	467.2-468.2	59625	4.5	1.2	93.3	1.0	11.7	1.0	3.0	2.44	.920	2.44	none	
SBR59-204	468.2-469.2	59626	3.1	1.6	94.2	1.1	8.1	1.0	3.7	2.51	.924	2.51	none	
SBR59-205	469.2-470.2	59627	2.8	1.3	95.0	.9	7.3	1.0	3.0	2.54	.925	2.54	none	
SBR59-206	470.2-471.2	59628	3.7	1.0	94.3	1.0	9.6	1.0	2.4	2.48	.921	2.48	none	
SBR59-207	471.2-472.2	59629	9.8	1.5	86.6	2.1	25.5	1.0	3.6	2.10	.923	2.10	none	
SBR59-208	472.2-473.2	59630	5.6	.9	92.0	1.5	14.7	1.0	2.2	2.39	.919	2.39	none	
SBR59-209	473.2-474.2	59631	3.7	1.4	93.7	1.2	9.6	1.0	3.5	2.48	.923	2.48	none	
SBR59-210	474.2-475.2	59632	3.4	1.0	94.5	1.1	8.7	1.0	2.4	2.51	.924	2.51	none	

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

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from National Farmer's Union Exploration Company's corehole No. 9, drilled in the NW1/4 of
sec. 32, T. 10 S., R. 25 E., Uintah County, Utah

Surface elevation - 5,770 feet

Mahogany Marker not reached

Sample number		Run No.	Yield of product				Specific gravity of oil at 60°/60°F.		Properties of spent shale Tendency to coke		Remarks			
			Weight percent		Spent shale	Gas + loss								
Laramie	Their		Oil	Water					Oil	Water				
SBR59-211	475.2-476.2	59633	3.0	1.0	95.0	1.0	7.9	1.0	2.3	2.52	.925	2.52	none	
SBR59-212	476.2-477.2	59634	3.4	1.5	93.9	1.2	8.9	1.0	3.6	2.50	.923	2.50	none	
SBR59-213	477.2-478.2	59635	5.3	1.0	92.1	1.6	13.9	1.0	2.4	2.40	.917	2.40	none	
SBR59-214	478.2-479.2	59636	2.9	1.5	94.4	1.2	7.6	1.0	3.5	2.53	.918	2.53	none	
SBR59-215	479.2-480.2	59637	1.8	2.0	95.2	1.0	4.8	1.0	4.8	2.58		2.58	none	
SBR59-216	480.2-481.6	59638	3.2	1.7	94.1	1.0	8.3	1.4	4.0	2.51	.925	3.51	none	

a. - Specific gravity estimated due to insufficient oil

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

Loggel

U-29

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from National Farmers Union Exploration Company's Corehole No. 9, drilled 413 feet E/W line, 2480 feet S/N line of sec. 32, T. 10 S., R. 25 E., Uintah County, Utah 1/

Surface elevation 5,746 feet

Mahogany marker at 623 feet

Mahogany marker 5109.4

Sample number		Run No.	Yield of product				Gal. per ton		Specific gravity of oil at 60°/60° F.	Properties of spent shale		Remarks
Laraine	Thair		Weight percent		Spent shale	Gas loss	Oil	Water		Tendency to		
			Oil	Water						coke		
SHR60-2857	482.0-483.9	66232	2.7	1.0	95.6	0.7	6.9	2.4	.925	None		
SHR60-2858	483.9-484.5	66233	9.7	1.3	86.9	2.1	25.1	3.1	.923	None		
SHR60-2859	484.5-486.0	66234	3.5	1.3	93.9	1.3	9.0	3.1	.927	None		
SHR60-2860	486.0-488.0	66235	3.1	1.4	94.2	1.3	8.1	3.4	.923	None		
SHR60-2861	488.0-490.0	66240	3.0	1.3	94.9	.8	7.9	3.1	.921	None		
SHR60-2862	490.0-491.5	66241	3.6	1.1	94.5	.8	9.3	2.6	.925	None		
SHR60-2863	491.5-492.5	66242	8.4	1.2	88.6	1.8	21.8	2.9	.923	None		
SHR60-2864	492.5-494.0	66243	2.8	1.3	95.2	.7	7.1	3.1	.932	None		
SHR60-2865	494.0-496.0	66244	3.0	1.2	95.0	.8	7.6	2.9	.938	None		
SHR60-2866	496.0-498.0	66245	4.1	1.0	94.3	.6	10.4	2.4	.939	None		
SHR60-2867	498.0-502.7	66246	4.4	1.3	93.2	1.1	11.5	3.1	.925	None		
SHR60-2868	502.7-503.8	66247	15.0	1.9	80.6	2.5	38.8	4.6	.925	Slight		
SHR60-2869	503.8-506.0	66248	3.1	1.1	95.0	.8	7.9	2.6	.934	None		
SHR60-2870	506.0-508.0	66249	2.8	1.0	95.5	.7	7.2	2.4	.933	None		
SHR60-2871	508.0-510.0	66250	3.5	.9	94.8	.8	9.1	2.0	.932	None		
SHR60-2872	510.0-512.0	66251	5.4	.9	93.1	.6	13.9	2.2	.922	None		
SHR60-2873	512.0-514.5	66252	4.3	1.1	93.5	1.1	11.1	2.6	.926	None		
SHR60-2874	514.5-515.6	66253	12.2	1.5	83.2	3.1	31.7	3.6	.922	None		
SHR60-2875	515.6-517.8	66254	3.5	.9	94.6	1.0	9.1	2.2	.920	None		
SHR60-2876	517.8-519.3	66255	.9	.9	97.5	.7	2.3a	2.2		None		
SHR60-2877	519.3-520.3	66256	3.3	1.0	94.8	.9	8.5a	2.4		None		
SHR60-2878	520.3-522.3	66257	6.3	.9	91.3	1.5	16.4	2.0	.923	None		
SHR60-2879	522.3-524.0	66258	4.0	.8	94.1	1.1	10.3	1.9	.929	None		
SHR60-2880	524.0-526.0	66259	4.3	1.0	93.6	1.1	11.1	2.4	.925	None		
SHR60-2881	526.0-528.0	66260	5.3	1.0	92.4	1.3	13.6	2.5	.931	None		
SHR60-2882	528.0-530.0	66261	4.2	.9	93.9	1.0	10.7	2.2	.934	None		
SHR60-2883	530.0-532.0	66262	3.5	.6	94.8	1.1	9.0	1.4	.936	None		
SHR60-2884	532.0-534.0	66263	4.3	.6	93.8	1.3	11.0	1.6	.932	None		
SHR60-2885	534.0-536.0	66264	5.3	.7	92.4	1.6	13.7	1.7	.925	None		
SHR60-2886	536.0-538.0	66265	4.5	.6	93.4	1.5	11.4	1.4	.936	None		

1/ Assays continued from SHR 2592P - 2599P

a - Specific gravity estimated due to insufficient oil.

Core samples received January 12, 1960; assays made on air-dried samples.

Laraine Petroleum Research Center, Laraine, Wyoming, Illustration No. SHR-1252P

May 13, 1960

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from National Farmers Union Exploration Company's Corehole No. 9, drilled 413 feet E/W line,
2480 feet S/W line of sec. 32, T. 10 S., R. 25 E., Uintah County, Utah 1/

Surface elevation 5,746 feet

Mahogany marker at 623 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		Spent shale	Gas + loss					
			Oil	Water			Oil	Water			
Laraine	Thier									coke	
SHR60-2887	538.0-540.0	66266	4.2	0.2	93.8	1.8	10.6	0.5	.942	None	
SHR60-2888	540.0-542.0	66267	4.6	.5	93.4	1.5	11.7	1.3	.934	None	
SHR60-2889	542.0-544.0	66268	4.0	.7	94.6	.7	10.1	1.7	.934	None	
SHR60-2890	544.0-546.0	66269	4.7	.6	93.6	1.1	12.2	1.3	.935	None	
SHR60-2891	546.0-548.0	66270	4.2	.8	94.2	.8	10.8	2.0	.928	None	
SHR60-2892	548.0-550.0	66271	5.7	.6	92.7	1.0	14.8	1.4	.923	None	
SHR60-2893	550.0-552.5	66272	3.5	.6	95.1	.8	9.1	1.3	.932	None	
SHR60-2894	552.5-553.5	66273	2.1	.4	96.9	.6	5.4	.8	.925	None	
SHR60-2895	553.5-555.0	66274	4.1	.4	94.7	.8	10.6	1.0	.930	None	
SHR60-2896	555.0-557.0	66275	5.3	.5	93.0	1.2	13.6	1.3	.931	None	
SHR60-2897	557.0-559.0	66276	3.7	.4	95.0	.9	9.4	1.0	.938	None	
SHR60-2898	559.0-560.5	66277	5.3	.8	93.0	.9	13.7	1.8	.932	None	
SHR60-2899	560.5-562.5	66278	2.0	3.0	94.0	1.0	5.1	7.2	.946	None	
SHR60-2900	562.5-564.0	66279	5.4	.4	93.7	.5	14.0	1.0	.932	None	
SHR60-2901	564.0-566.0	66280	6.2	.2	93.2	.4	16.0	.6	.923	None	
SHR60-2902	566.0-568.0	66281	6.9	.5	91.2	1.4	18.0	1.2	.924	None	
SHR60-2903	568.0-570.0	66282	4.5	.4	93.8	1.3	11.6	1.0	.930	None	
SHR60-2904	570.0-572.0	66283	3.0	.6	95.6	.8	7.7	1.4	.932	None	
SHR60-2905	572.0-574.0	66284	5.0	.4	93.6	1.0	12.8	1.0	.931	None	
SHR60-2906	574.0-576.0	66285	2.9	.5	95.8	.8	7.3	1.3	.934	None	
SHR60-2907	576.0-577.0	66286	3.4	.4	95.2	1.0	8.8	1.0	.933	None	
SHR60-2908	577.0-578.6	66287	2.7	.4	96.1	.8	7.0	.8	.926	None	
SHR60-2909	578.6-580.9	66288	5.4	.3	93.3	1.0	13.9	.8	.925	None	
SHR60-2910	580.9-583.2	66289	3.9	.2	94.9	1.0	10.0	.6	.927	None	
SHR60-2911	583.2-584.4	66290	13.4	.6	83.3	2.7	34.7	1.3	.928	Slight	
SHR60-2912	584.4-586.0	66291	5.0	.3	93.6	1.1	12.8	.7	.926	None	
SHR60-2913	586.0-588.0	66292	4.9	.3	93.6	1.2	12.8	.6	.923	None	
SHR60-2914	588.0-589.5	66293	5.5	.3	92.3	1.9	14.2	.7	.921	None	
SHR60-2915	589.5-591.5	66294	9.0	.5	88.4	2.1	23.5	1.2	.922	None	
SHR60-2916	591.5-592.4	66295	5.6	.4	92.3	1.7	14.8	.8	.914	None	

1/ Assays continued from SHR 2592P - 2599P

Core samples received January 12, 1960; assays made on air-dried samples.

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from National Farmers Union Exploration Company's Corehole No. 9, drilled 413 feet E/W line,
2480 feet S/W line of sec. 32, T. 10 S., R. 25 E., Uintah County, Utah 1/

Surface elevation 5,746 feet

Mahogany marker at 623 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	Thier		Oil	Water	Spent shale	Gas + loss	Oil	Water		coke	
SR60-2917	592.4-593.9	66296	9.6	0.5	87.2	2.7	25.1	1.3	.915	None	
SR60-2918	593.9-596.0	66297	2.4	.3	95.8	1.5	6.1	.8	.929	None	
SR60-2919	596.0-598.0	66298	1.6	.2	96.6	1.6	4.2a	.5		None	
SR60-2920	598.0-599.4	66299	2.2	.3	95.8	1.7	5.8	.7	.933	None	
SR60-2921	599.4-602.0	66300	1.5	.4	97.7	.4	3.9a	.8		None	
SR60-2922	602.0-603.4	66301	1.5	.5	97.2	.8	3.9a	1.3		None	
SR60-2923	603.4-605.6	66302	5.6	.6	92.5	1.3	14.8	1.3	.907	None	
SR60-2924	605.6-606.7	66303	14.9	1.0	81.2	2.9	39.6	2.4	.901	Slight	
SR60-2925	606.7-609.0	66304	6.2	.6	91.7	1.5	16.3	1.4	.916	None	
SR60-2926	609.0-610.4	66305	4.5	1.1	93.4	1.0	11.6	2.6	.921	None	
SR60-2927	610.4-612.5	66306	11.4	1.0	85.3	2.3	29.6	2.4	.925	None	
SR60-2928	612.5-614.2	66307	10.0	.6	87.3	2.1	26.4	1.3	.911	None	
SR60-2929	614.2-615.8	66308	15.2	1.4	80.5	2.9	40.0	3.4	.912	None	
SR60-2930	615.8-617.0	66309	8.4	1.1	88.8	1.7	22.2	2.6	.907	None	
SR60-2931	617.0-618.3	66310	6.8	1.1	90.2	1.9	17.7	2.6	.918	None	
SR60-2932	618.3-619.3	66311	4.4	.5	93.5	1.6	11.3	1.3	.925	None	
SR60-2933	619.3-621.0	66312	8.1	.6	89.2	2.1	21.3	1.6	.906	None	
SR60-2934	621.0-622.0	66313	4.3	.6	93.7	1.4	11.3	1.3	.917	None	
SR60-2935	622.0-624.0	66314	4.4	.6	93.6	1.4	11.3	1.4	.925	None	
SR60-2936	624.0-626.0	66315	4.2	.4	94.1	1.3	11.1	1.0	.910	None	
SR60-2937	626.0-627.5	66316	5.8	.5	92.6	1.1	15.4	1.2	.905	None	
SR60-2938	627.5-629.0	66317	16.7	1.2	78.2	3.9	43.4	2.9	.925	Medium	
SR60-2939	629.0-630.8	66318	8.1	.6	89.5	1.8	21.4	1.4	.905	None	
SR60-2940	630.8-632.3	66319	6.3	.3	91.7	1.7	16.6	.8	.909	None	
SR60-2941	632.3-634.0	66320	11.9	.6	85.3	2.2	31.1	1.4	.917	None	
SR60-2942	634.0-636.6	66321	14.5	.7	81.8	3.0	38.0	1.8	.913	Medium	
SR60-2943	636.6-637.6	66322	29.3	1.4	63.0	6.3	77.0	3.5	.912	Heavy	
SR60-2944	637.6-639.0	66323	28.3	1.3	63.7	6.7	74.2	3.1	.913	Heavy	
SR60-2945	639.0-640.0	66325	22.9	1.0	71.0	5.1	60.4	2.3	.910	Medium	
SR60-2946	640.0-641.0	66326	14.3	.7	81.7	2.8	39.3	1.6	.905	None	

1/ Assays from SR 2592P - 2599P. a - Specific gravity estimated due to insufficient oil.
Core samples received January 12, 1960; assays made on air-dried samples.

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from National Farmers Union Exploration Company's Corehole No. 9, drilled 113 feet E/W line,
2480 feet S/N line of sec. 32, T. 10 S., R. 25 E., Uintah County, Utah 1/

Surface elevation 5,746 feet

Mahogany marker at 623 feet

Sample number		Run No.	Yield of product				Specific gravity of oil at 60°/60° F.		Properties of spent shale tendency to coke		Remarks
			Weight percent		Gal. per ton						
Laramie	Thier		Oil	Water	Spent shale	Gas + loss	Oil	Water			
SBR60-2947	641.0-642.0	66327	24.1	1.1	70.2	4.6	63.5	2.6	0.910	Medium	
SBR60-2948	642.0-643.3	66328	18.0	1.1	77.5	3.4	46.4	2.5	.929	Slight	
SBR60-2949	643.3-645.0	66329	7.6	.5	90.1	1.8	19.5	1.3	.926	None	
SBR60-2950	645.0-647.0	66330	8.6	.3	88.6	2.5	22.4	.7	.924	None	
SBR60-2951	647.0-649.2	66331	10.8	.6	86.1	2.5	27.9	1.4	.925	None	
SBR60-2952	649.2-650.2	66332	20.0	.8	75.9	3.3	52.7	1.9	.907	Slight	
SBR60-2953	650.2-652.3	66333	16.5	.7	79.8	3.0	43.9	1.7	.903	Slight	
SBR60-2954	652.3-653.7	66334	6.7	.3	91.4	1.6	18.2	.6	.884	None	
SBR60-2955	653.7-655.2	66335	14.3	.7	82.4	2.6	38.2	1.6	.900	None	
SBR60-2956	655.2-657.0	66336	6.4	.4	91.6	1.6	16.9	.8	.913	None	
SBR60-2957	657.0-658.1	66337	9.0	.6	88.2	2.2	23.4	1.6	.919	None	
SBR60-2958	658.1-659.5	66338	17.0	1.2	78.0	3.8	43.7	2.9	.930	Slight	
SBR60-2959	659.5-661.4	66339	4.8	.6	92.7	1.9	12.3	1.6	.925	None	
SBR60-2960	661.4-663.4	66340	5.0	.3	93.2	1.5	13.1	.7	.919	None	
SBR60-2961	663.4-665.3	66341	14.4	.5	82.1	3.0	37.9	1.3	.910	Slight	
SBR60-2962	665.3-667.3	66342	11.0	.5	86.6	1.9	29.5	1.3	.892	None	
SBR60-2963	667.3-669.3	66343	9.1	.5	88.6	1.8	24.1	1.2	.907	None	
SBR60-2964	669.3-670.8	66344	10.2	.5	87.0	2.3	27.0	1.2	.902	None	
SBR60-2965	670.8-672.0	66345	7.3	.6	89.9	2.2	19.2	1.4	.911	None	
SBR60-2966	672.0-674.0	66346	4.6	.3	93.0	2.1	11.9	.8	.922	None	
SBR60-2967	674.0-675.7	66347	5.4	.5	92.0	2.1	14.2	1.2	.917	None	
SBR60-2968	675.7-676.6	66348	11.1	1.0	85.7	2.2	28.8	2.3	.925	None	
SBR60-2969	676.6-678.0	66349	4.8	.8	93.0	1.4	12.4	1.9	.928	None	
SBR60-2970	678.0-680.0	66350	2.7	.6	95.8	.9	6.9	1.6	.926	None	
SBR60-2971	680.0-681.5	66351	3.0	.4	95.8	.8	7.8	1.1	.920	None	
SBR60-2972	681.5-683.0	66352	7.0	.5	91.1	1.4	18.5	1.3	.902	None	
SBR60-2973	683.0-684.2	66353	2.3	1.6	95.5	.6	6.0	3.8	.914	None	
SBR60-2974	684.2-685.2	66354	3.6	.2	94.7	1.5	9.3	.6	.922	None	
SBR60-2975	685.2-686.3	66355	12.0	1.0	84.9	2.1	31.3	2.3	.923	None	
SBR60-2976	686.3-687.7	66356	2.7	.5	95.8	1.0	7.2	1.2	.914	None	

1/ Assays from SBR 2592P - 2599P

Core samples received January 12, 1960; assays made on air-dried samples.

La)ie Petroleum Research Center, Laramie, Wyoming,)ustration No. SBR-3255P

May 13, 196)

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from National Farmers Union Exploration Company's Corehole No. 9, drilled 413 feet E/W line,
2480 feet S/N line of sec. 32, T. 10 S., R. 25 E., Uintah County, Utah 1/

Surface elevation 5,746 feet

Mahogany marker at 623 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	Thier		Oil	Water							Oil
SBR60-2977	687.7-688.7	66357	4.5	0.4	93.8	1.3	11.6	1.1	.924	None	
SBR60-2978	688.7-689.8	66358	8.0	.7	89.1	2.2	20.9	1.8	.916	None	
SBR60-2979	689.8-690.8	66359	17.8	.8	78.3	3.1	46.6	1.9	.917	Slight	
SBR60-2980	690.8-692.0	66360	4.1	.5	93.9	1.5	10.6	1.3	.924	None	
SBR60-2981	692.0-694.0	66361	1.6	.8	96.7	.9	4.3a	1.8		None	
SBR60-2982	694.0-695.0	66362	2.0	.6	96.0	1.4	5.2	1.4	.936	None	
SBR60-2983	695.0-696.0	66363	6.5	1.1	90.4	2.0	16.7	2.6	.926	None	
SBR60-2984	696.0-697.7	66364	1.9	3.8	94.0	.3	5.0a	9.1		None	
SBR60-2985	697.7-698.7	66365	8.6	.8	89.3	1.3	22.5	1.9	.919	None	
SBR60-2986	698.7-700.0	66366	4.5	1.1	94.0	.4	11.8	2.6	.923	None	
SBR60-2987	700.0-702.0	66367	2.6	.7	95.9	.8	6.8	1.7	.932	None	
SBR60-2988	702.0-704.0	66368	2.8	.6	95.5	1.1	7.3	1.4	.933	None	
SBR60-2989	704.0-706.0	66369	2.3	.7	95.5	1.5	6.0	1.7	.931	None	
SBR60-2990	706.0-707.3	66370	2.6	.7	95.5	1.2	6.6	1.8	.930	None	
SBR60-2991	707.3-709.2	66371	3.6	1.4	93.5	1.5	9.2	3.4	.928	None	
SBR60-2992	709.2-711.7	66372	1.6	1.1	96.3	1.0	4.3a	2.6		None	
SBR60-2993	711.7-714.0	66373	3.0	2.1	94.4	.5	7.9	5.0	.917	None	
SBR60-2994	714.0-716.0	66374	3.7	2.0	93.5	.8	9.8	4.3	.905	None	
SBR60-2995	716.0-718.0	66375	3.3	.8	95.2	.7	8.7	2.0	.908	None	
SBR60-2996	718.0-720.5	66376	3.1	1.3	94.9	.7	8.1	3.1	.917	None	
SBR60-2997	720.5-722.5	66377	2.1	1.1	96.0	.8	5.5	2.6	.913	None	
SBR60-2998	722.5-726.0	66378	.8	.4	98.0	.8	2.2a	1.0		None	
SBR60-2999	726.0-730.0	66379	1.0	.8	97.8	.4	2.6a	1.9		None	
SBR60-3000	730.0-732.0	66380	2.1	1.3	95.8	.8	5.7	3.1	.901	None	
SBR60-3001	732.0-733.8	66381	.8	.8	97.8	.6	2.0a	2.0		None	
SBR60-3002	733.8-734.8	66382	2.6	.6	95.8	1.0	6.7	1.6	.925	None	
SBR60-3003	734.8-737.2	66383	1.1	.5	97.7	.7	3.0a	1.2		None	
SBR60-3004	737.2-739.1	66384	6.1	.6	91.9	1.4	15.9	1.4	.914	None	
SBR60-3005	739.1-740.2	66385	19.0	1.5	76.0	3.5	49.6	3.6	.918	Slight	
SBR60-3006	740.2-742.0	66386	4.7	.6	93.4	1.3	12.3	1.4	.913	None	

a - Specific gravity estimated due to inefficient oil.

1/ Assays from SER 2592P - 2599P.

Core samples received January 11, 1960; assays made on air-dried samples.

Laramie Petroleum Research Center, Laramie, Wyoming, Illustration No. SER-3256P

May 13, 1960

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from National Farmers Union Exploration Company's Corehole No. 9, drilled 413 feet E/W line,
2480 feet S/N line of sec. 32, T. 10 S., R. 25 E., Uintah County, Utah 1/

Surface elevation 5,746 feet

Mahogany marker at 623 feet

Sample number		Run No.	Yield of product				Gal. per ton		Specific gravity of oil at 60°/60° F.	Properties of spent shale		Remarks
			Weight percent		Spent shale	Gas loss				Tendency to coke		
Laramie	Their		Oil	Water					Oil		Water	
SBR60-3007	742.0-743.2	66387	3.9	0.8	93.9	1.4	10.2	1.9	.913	None		
SBR60-3008	743.2-744.6	66388	14.3	1.1	81.6	3.0	37.7	2.6	.906	Slight		
SBR60-3009	744.6-746.2	66389	6.5	1.5	90.3	1.7	17.2	3.6	.909	None		
SBR60-3010	746.2-748.2	66390	3.5	1.0	94.4	1.1	9.3	2.4	.915	None		
SBR60-3011	748.2-750.4	66391	5.5	.8	92.5	1.2	14.5	1.8	.909	None		
SBR60-3012	750.4-754.0	66392	1.8	.6	96.6	1.0	4.7a	1.6		None		
SBR60-3013	754.0-756.1	66393	4.4	1.0	93.2	1.4	11.7	2.3	.911	None		
SBR60-3014	756.1-758.6	66394	3.1	.9	94.2	1.8	8.0	2.2	.924	None		
SBR60-3015	758.6-759.7	66395	7.3	1.2	89.4	2.1	19.1	2.9	.919	None		
SBR60-3016	759.7-762.0	66396	2.9	.3	95.2	1.6	7.6	.7	.924	None		
SBR60-3017	762.0-763.3	66397	5.2	.5	93.1	1.2	13.8	1.3	.902	None		
SBR60-3018	763.3-765.0	66398	3.7	.4	94.6	1.3	9.9	.8	.900	None		
SBR60-3019	765.0-768.0	66399	3.5	.5	94.6	1.4	9.1	1.2	.915	None		
SBR60-3020	768.0-770.3	66400	5.7	1.7	90.5	2.1	15.0	4.1	.913	None		
SBR60-3021	770.3-773.0	66401	3.1	1.0	94.3	1.6	8.1	2.4	.922	None		
SBR60-3022	773.0-774.0	66402	10.2	1.1	86.3	2.4	26.9	2.6	.905	None		
SBR60-3023	774.0-775.0	66403	15.0	2.0	79.9	3.1	39.5	4.8	.907	Slight		
SBR60-3024	775.0-776.1	66404	7.4	1.2	89.9	1.5	19.6	2.8	.909	None		
SBR60-3025	776.1-777.8	66405	6.1	.7	90.2	3.0	15.6	1.7	.931	None		
SBR60-3026	777.8-778.9	66406	14.7	1.4	81.1	2.8	38.0	3.4	.927	Slight		
SBR60-3027	778.9-781.3	66407	2.3	1.3	95.7	.7	6.0	3.0	.924	None		
SBR60-3028	781.3-782.0	66408	9.1	1.5	87.5	1.9	23.3	3.6	.934	None		
SBR60-3029	782.0-784.5	66409	4.8	1.3	92.8	1.1	12.7	3.1	.913	None		
SBR60-3030	784.5-786.0	66410	6.7	1.7	89.8	1.8	17.4	4.2	.920	None		
SBR60-3031	786.0-788.0	66411	4.5	2.1	92.2	1.2	11.9	5.2	.903	None		
SBR60-3032	788.0-790.0	66412	5.4	1.1	92.2	1.3	13.9	2.6	.925	None		
SBR60-3033	790.0-791.4	66413	7.4	1.8	89.2	1.6	19.3	4.3	.923	None		
SBR60-3034	791.4-792.6	66414	1.8	1.5	95.9	.8	4.6a	3.6		None		
SBR60-3035	792.6-796.8	66415	1.8	1.3	96.0	.9	4.7a	3.1		None		
SBR60-3036	796.8-798.0	66416	5.7	1.3	91.2	1.8	14.8	3.1	.922	None		

a - Specific gravity estimated due to insufficient oil.

1/ Assays from SBR 2592P - 2599P

Core samples received January 12, 1960; assays made on air-dried samples.

Lar Petroleum Research Center, Laramie, Wyoming, Illustration No. SBR-3257P

May 13, 1960

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from National Farmers Union Exploration Company's Corehole No. 9, drilled 413 feet E/W line,
2480 feet S/N line of sec. 32, T. 10 S., R. 25 E., Uintah County, Utah 1/

Surface elevation 5,746 feet

Mahogany marker at 623 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	Water	
SBR60-3037	798.0-799.6	66417	5.4	2.0	91.0	1.6	14.0	4.8	0.915	None	
SBR60-3038	799.6-800.6	66418	14.2	2.0	79.5	4.3	37.3	4.8	.911	None	
SBR60-3039	800.6-802.0	66419	2.7	1.5	94.9	.9	7.0	3.6	.915	None	
SBR60-3040	802.0-804.0	66420	1.4	1.3	96.5	.8	3.7a	3.1		None	
SBR60-3041	804.0-806.0	66421	.4	2.9	96.0	.7	1.1a	7.0		None	
SBR60-3042	808.0-812.0	66422	.2	2.8	96.0	1.0	.6a	6.7		None	
SBR60-3043	812.0-815.3	66423	.2	2.2	95.9	1.7	.4a	5.3		None	
SBR60-3044	815.3-817.7	66424	1.1	1.9	96.4	.6	2.7a	4.6		None	
SBR60-3045	817.7-820.3	66425	.9	1.2	97.4	.5	2.2a	2.9		None	
SBR60-3046	820.3-822.0	66426	5.5	1.5	90.7	2.3	14.2	3.6	.933	None	
SBR60-3047	822.0-823.7	66427	8.0	2.2	87.9	1.9	20.8	5.3	.926	None	
SBR60-3048	823.7-825.6	66428	2.9	2.1	93.9	1.1	7.4	5.0	.928	None	
SBR60-3049	825.6-828.6	66429	1.3	1.0	96.8	.9	3.4a	2.4		None	
SBR60-3050	828.6-829.6	66430	2.8	2.0	94.0	1.2	7.2	4.8	.926	None	
SBR60-3051	829.6-830.6	66431	9.0	2.5	86.5	2.0	23.2	6.0	.926	None	
SBR60-3052	830.6-831.5	66432	8.7	2.3	86.7	2.3	22.8	5.5	.917	None	
SBR60-3053	831.5-832.0	66433	4.4	2.0	92.1	1.5	11.5	4.8	.926	None	
SBR60-3054	832.0-833.7	66434	1.1	.5	97.7	.7	2.8a	1.2		None	
SBR60-3055	833.7-835.3	66435	3.3	2.2	92.8	1.7	8.5	5.3	.926	None	
SBR60-3056	835.3-836.3	66436	9.3	2.1	86.5	2.1	24.0	5.0	.926	None	
SBR60-3057	836.3-837.7	66437	8.8	2.3	86.8	2.1	23.1	5.5	.916	None	
SBR60-3058	837.7-838.3	66438	3.8	1.9	93.1	1.2	10.0	4.4	.918	None	
SBR60-3059	838.3-839.3	66439	1.0	.9	97.7	.4	2.6a	2.2		None	
SBR60-3060	839.3-840.3	66440	2.4	1.0	95.4	1.2	6.4	2.4	.921	None	
SBR60-3061	840.3-841.6	66441	.6	.8	98.1	.5	1.5a	1.9		None	
SBR60-3062	841.6-844.0	66442	2.8	2.3	93.5	1.4	7.4	5.6	.898	None	
SBR60-3063	844.0-846.0	66443	2.1	2.4	94.5	1.0	5.4	5.9	.903	None	
SBR60-3064	846.0-848.0	66444	2.0	2.0	94.4	1.6	5.3a	4.8		None	
SBR60-3065	848.0-850.0	66445	1.4	2.5	95.2	.9	3.6a	6.0		None	
SBR60-3066	850.0-852.1	66446	1.5	2.9	94.6	1.0	4.0a	6.8		None	

a - Specific gravity estimated due to insufficient oil.

1/ Assays from SBR 2592P - 2599P

Core samples received January 12, 1960; assays made on air-dried samples.
Laramie Petroleum Research Center, Laramie, Wyoming, Illustration No. SBR-3258P

May 13, 1960

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from National Farmers Union Exploration Company's Corehole No. 9, drilled 413 feet E/W line,
2480 feet S/W line of sec. 32, T. 10 S., R. 25 E., Uintah County, Utah 1/

Surface elevation 5,746 feet

Mahogany marker at 623 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 60°/60° F.	Tendency to coke	
		Oil	Water	Oil			Water				
SBR60-3067	851.1-853.6	66447	0.7	1.3	97.0	1.0	1.8a	3.0		None	
SBR60-3068	853.6-856.0	66448	1.7	2.2	95.1	1.0	4.5a	5.2		None	
SBR60-3069	856.0-858.0	66449	1.3	2.5	95.4	.8	3.4a	6.0		None	
SBR60-3070	858.0-860.0	66450	1.4	2.8	94.6	1.2	3.6a	6.7		None	
SBR60-3071	860.0-862.0	66451	1.0	3.0	94.1	1.9	2.7a	7.1		None	
SBR60-3072	862.0-864.0	66452	1.4	3.4	93.6	1.6	3.7a	8.1		None	
SBR60-3073	864.0-866.0	66453	2.0	1.5	92.8	3.7	5.1	3.6	0.951	None	
SBR60-3074	866.0-867.0	66454	2.1	.6	96.9	.4	5.4	1.4	.925	None	
SBR60-3075	867.0-869.1	66455	.7	1.0	97.4	.9	1.7a	2.4		None	
SBR60-3076	869.1-870.5	66456	7.6	1.7	88.9	1.8	19.6	4.1	.924	None	
SBR60-3077	870.5-872.0	66457	4.5	2.6	91.7	1.2	11.6	6.2	.925	None	
SBR60-3078	872.0-874.1	66458	5.1	2.4	90.8	1.7	13.8	5.8	.894	None	
SBR60-3079	874.1-876.0	66459	2.7	1.7	93.8	1.8	7.2	4.1	.900	None	
SBR60-3080	876.0-877.5	66460	3.0	2.0	94.0	1.0	7.9	4.8	.925	None	
SBR60-3081	877.5-880.0	66461	1.2	1.8	96.5	.5	3.2a	4.3		None	
SBR60-3082	880.0-882.0	66462	2.9	1.9	94.2	1.0	6.4	4.6	.932	None	
SBR60-3083	882.0-884.0	66463	.9	2.6	95.4	1.1	10.0	6.2		None	
SBR60-3084	884.0-886.0	66464	.6	2.6	95.1	1.7	1.7a	6.2		None	
SBR60-3085	886.0-888.0	66465	1.3	2.7	94.4	1.6	3.4a	6.5		None	
SBR60-3086	888.0-890.0	66466	2.3	2.7	93.8	1.2	6.0	6.5	.926	None	
SBR60-3087	890.0-892.0	66467	3.7	2.3	92.5	1.5	9.7	5.5	.926	None	
SBR60-3088	892.0-893.2	66468	9.1	2.1	86.5	2.3	23.9	5.0	.915	None	
SBR60-3089	893.2-894.6	66469	3.9	1.4	93.3	1.4	10.0	3.4	.925	None	
SBR60-3090	894.6-896.0	66470	6.1	2.5	89.9	1.5	16.1	6.0	.913	None	
SBR60-3091	896.0-897.3	66471	5.8	2.5	89.9	1.8	15.3	6.0	.914	None	
SBR60-3092	897.3-899.3	66472	4.6	3.0	90.6	1.8	12.0	7.2	.919	None	
SBR60-3093	899.3-900.6	66473	9.1	2.8	86.3	1.8	23.7	6.7	.919	None	
SBR60-3094	900.6-902.0	66474	4.7	2.7	91.3	1.3	12.2	6.5	.924	None	
SBR60-3095	902.0-903.5	66475	5.6	2.8	90.0	1.6	14.6	6.7	.926	None	
SBR60-3096	903.5-906.0	66476	.4	1.0	98.5	.1	1.2a	2.4		None	

a - Specific gravity estimated due to insufficient oil.

1/ Assays from SBR 2592 - 2599P

Core samples received January 12, 1960; Assays made on air-dried samples.
Laramie Petroleum Research Center, Laramie, Wyoming, Illustration No. SBR-3259P May 13, 1960

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from National Farmers Union Exploration Company's Corehole No. 9, drilled 413 feet E/W line,
2480 feet S/N line of sec. 32, T. 10 S., R. 25 E., Uintah County, Utah 1/

Surface elevation 5,746 feet

Mahogany marker at 623 feet

Sample number		Run No.	Yield of product				Specific gravity of oil at 60°/60° F.		Properties of spent shale		Remarks
Laramie	Their		Weight percent		Gal. per ton				Tendency to		
			Oil	Water	Spent shale	Gas + loss	Oil	Water		coke	
SBR60-3097	906.0-908.0	66477	2.8	1.0	94.6	1.6	7.2	2.4	0.930	None	
SBR60-3098	908.0-910.0	66478	2.4	1.6	95.2	.8	6.4	3.8	.911	None	
SBR60-3099	910.0-912.2	66479	1.3	.4	97.9	.4	3.5a	1.0		None	
SBR60-3100	912.2-914.0	66480	3.3	1.1	94.8	.8	8.7	2.6	.907	None	
SBR60-3101	914.0-916.0	66481	3.2	1.1	94.8	.9	8.5	2.6	.909	None	
SBR60-3102	916.0-917.4	66482	4.2	1.4	93.3	1.1	10.9	3.4	.915	None	
SBR60-3103	917.4-920.6	66483	1.0	.5	97.8	.7	2.7a	1.1		None	
SBR60-3104	920.6-922.3	66484	3.4	.8	95.0	.8	8.8	1.9	.912	None	
SBR60-3105	922.3-923.5	66485	1.4	1.3	96.3	1.0	3.7a	3.1		None	
SBR60-3106	923.5-926.0	66486	.5	.7	98.2	.6	1.2a	1.8		None	
SBR60-3107	926.0-928.0	66487	.5	1.0	98.4	.1	1.2a	2.5		None	
SBR60-3108	928.0-930.0	66488	2.1	1.4	95.5	1.0	5.4	3.5	.915	None	
SBR60-3109	930.0-932.0	66489	2.3	2.0	95.1	.6	6.1	4.7	.905	None	
SBR60-3110	932.0-933.3	66490	2.1	2.3	94.9	.7	5.4	5.6	.915	None	
SBR60-3111	933.3-936.4	66491	1.1	.7	97.7	.5	2.8a	1.7		None	
SBR60-3112	936.4-938.0	66492	3.1	.7	96.1	.1	8.1	1.8	.914	None	
SBR60-3113	938.0-940.0	66493	.5	.5	98.3	.7	1.3a	1.2		None	
SBR60-3114	944.0-946.5	66494	2.4	1.1	95.3	1.2	6.5	2.6	.905	None	
SBR60-3115	946.5-949.6	66495	1.0	.6	97.6	.8	2.7a	1.3		None	
SBR60-3116	949.6-952.0	66496	1.7	.9	96.4	1.0	4.4a	2.2		None	
SBR60-3117	952.0-954.6	66497	1.5	.9	96.4	1.2	3.9a	2.2		None	
SBR60-3118	954.6-958.4	66498	.5	1.1	97.4	1.0	1.3a	2.6		None	
SBR60-3119	958.4-960.0	66499	3.3	1.7	93.5	1.5	8.8	4.1	.909	None	
SBR60-3120	960.0-961.3	66500	2.8	2.8	93.0	1.4	7.5	6.7	.900	None	
SBR60-3121	961.3-964.0	66501	.4	1.9	95.9	1.8	1.1a	4.6		None	
SBR60-3122	964.0-966.0	66502	1.3	1.3	96.5	.9	3.4a	3.0		None	
SBR60-3123	966.0-966.8	66503	1.9	1.9	91.7	1.5	12.9	4.6	.914	None	
SBR60-3124	966.8-968.4	66504	.9	1.0	97.2	.9	2.3a	2.3		None	
SBR60-3125	968.4-970.0	66505	1.2	2.2	95.6	1.0	3.3a	5.2		None	
SBR60-3126	970.0-972.0	66506	1.1	2.0	96.0	.9	2.9a	4.7		None	

a - Specific gravity estimated due to insufficient oil.

1/ Assays from SBR 2592 - 2599P

Core samples received January 12, 1960 Assays made on air-dried samples.

Laramie Petroleum Research Center, Laramie, Wyoming, Illustration No. SBR-3280P

May 13, 1960

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from National Farmers Union Exploration Company's Corehole No. 9, drilled 113 feet E/W line,
2480 feet S/W line of sec. 32, T. 10 S., R. 25 E., Uintah County, Utah 1/

Surface elevation 5,746 feet

Mahogany marker at 623 feet

Sample number		Run No.	Yield of product				Cal. per ton		Specific gravity of oil at 60°/60° F.	Properties of spent shale Tendency to coke	Remarks
			Weight percent		Spent shale	Gas + loss					
Laramie	Thier		Oil	Water					Oil	Water	
SBR60-3127	972.0-973.4	66507	2.4	1.2	95.0	1.4	6.3	2.9	.905	None	
SBR60-3128	973.4-974.6	66508	6.5	1.8	81.9	1.8	17.3	4.3	.904	None	
SBR60-3129	974.6-976.0	66509	.8	1.8	96.2	1.2	2.1a	4.3		None	
SBR60-3130	976.0-976.9	66510	7.5	2.4	88.9	1.2	19.9	5.8	.901	None	
SBR60-3131	976.9-977.9	66511	6.7	2.3	85.4	5.6	17.6	5.5	.906	None	
SBR60-3132	977.9-981.8	66512	1.3	.8	96.5	1.4	3.3a	2.0		None	
SBR60-3133	981.8-982.8	66513	10.1	2.5	84.6	2.8	26.7	6.0	.904	None	
SBR60-3134	982.8-983.8	66514	8.9	2.5	85.8	2.8	23.4	6.0	.912	None	
SBR60-3135	983.8-985.5	66515	2.0	1.9	94.7	1.4	5.1a	4.6		None	
SBR60-3136	985.5-986.5	66516	10.3	2.4	84.4	2.9	26.9	5.8	.915	None	
SBR60-3137	986.5-988.0	66517	7.8	2.7	87.3	2.2	20.2	6.5	.923	None	
SBR60-3138	988.0-989.8	66518	6.6	2.7	88.5	2.2	17.3	6.5	.921	None	
SBR60-3139	989.8-990.5	66519	3.0	.7	95.5	.8	7.7a	1.8		None	
SBR60-3140	990.5-991.8	66520	4.6	2.9	91.1	1.4	12.1	6.8	.911	None	
SBR60-3141	991.8-994.0	66521	1.1	1.6	96.5	.8	2.8a	3.8		None	
SBR60-3142	994.0-995.6	66522	4.9	1.1	92.4	1.6	12.9	2.6	.913	None	
SBR60-3143	995.6-999.5	66523	4.4	2.5	91.1	2.0	11.6	6.0	.909	None	
SBR60-3144	999.5-1004.5	66524	2.6	.7	96.0	.7	6.9	1.6	.911	None	
SBR60-3145	1004.5-1006.0	66525	3.5	1.8	92.0	2.7	9.3	4.2	.915	None	
SBR60-3146	1006.0-1008.0	66526	4.0	2.8	92.0	1.2	10.5	6.8	.909	None	
SBR60-3147	1008.0-1010.4	66527	8.4	2.8	87.0	1.8	22.3	6.7	.900	None	
SBR60-3148	1010.4-1012.2	66528	3.0	.7	95.6	.7	8.1	1.6	.903	None	
SBR60-3149	1012.2-1017.9	66529	4.9	2.4	91.5	1.2	13.0	5.8	.902	None	
SBR60-3150	1017.9-1018.9	66530	2.2	.5	96.2	1.1	5.9	1.1	.902	None	
SBR60-3151	1018.9-1020.5	66531	11.3	2.4	83.8	2.5	29.9	5.6	.907	None	
SBR60-3152	1020.5-1021.5	66532	1.1	.7	97.8	.4	3.0a	1.6		None	
SBR60-3153	1021.5-1024.4	66533	4.0	2.6	92.2	1.2	10.5	6.2	.908	None	
SBR60-3154	1024.4-1026.4	66534	.4	.5	93.9	.2	1.1a	1.1		None	
SBR60-3155	1026.4-1028.0	66535	2.9	1.1	95.4	.6	7.6	2.6	.908	None	
SBR60-3156	1028.0-1029.0	66536	3.8	2.0	87.2	2.0	23.6	4.8	.896	None	

a - Specific gravity estimated due to insufficient oil.

1/ Assays from SBR 2592 - 2599P

Core samples received January 12, 1960 Assays made on air-dried samples.

Laramie Petroleum Research Center, Laramie, Wyoming, Illustration No. SBR-3261P

May 13, 1960

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from National Farmers Union Exploration Company's Corehole No. 9, drilled 413 feet E/W line,
2480 feet S/N line of sec. 32, T. 10 S., R. 25 E., Uintah County, Utah 1/

Surface elevation 5,746 feet

Mahogany marker at 623 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
SBR60-3157	1029.0-1032.8	66537	1.6	0.6	97.1	0.7	4.0a	1.4			None	
SBR60-3158	1032.8-1033.8	66538	6.0	2.5	89.8	1.7	16.0	6.0	0.905		None	
SBR60-3159	1033.8-1036.1	66539	2.1	.5	96.9	.5	5.7	1.1	.906		None	
SBR60-3160	1036.1-1039.1	66540	8.4	2.1	87.4	2.1	22.0	5.0	.917		None	
SBR60-3161	1039.1-1040.2	66541	2.0	.5	97.0	.5	5.2a	1.3			None	
SBR60-3162	1040.2-1044.0	66542	5.2	2.3	91.1	1.4	13.5	5.5	.926		None	
SBR60-3163	1044.0-1047.5	66543	3.0	2.3	93.8	.9	8.0	5.5	.906		None	
SBR60-3164	1047.5-1049.3	66544	3.0	1.3	95.0	.7	8.0	3.1	.884		None	
SBR60-3165	1049.3-1055.0	66545	1.0	2.7	95.5	.8	2.6a	6.5			None	
SBR60-3166	1055.0-1060.0	66546	.3	3.0	95.3	1.4	.7a	7.2			None	
SBR60-3167	1060.0-1065.0	66547	.2	3.6	94.9	1.3	.6a	8.6			None	
SBR60-3168	1065.0-1070.0	66548	.4	4.2	94.7	.7	1.0a	10.1			None	
SBR60-3169	1070.0-1074.2	66549	.4	4.3	94.1	1.2	1.1a	10.3			None	
SBR60-3170	1074.2-1075.2	66550	4.5	3.7	90.3	1.5	11.7	8.9	.912		None	
SBR60-3171	1075.2-1077.0	66551	2.0	.7	96.7	.6	5.1a	1.8			None	
SBR60-3172	1077.0-1079.7	66552	8.0	2.0	88.3	1.7	21.2	4.8	.911		None	
SBR60-3173	1079.7-1081.0	66553	2.5	1.0	95.5	1.0	6.7	2.4	.911		None	
SBR60-3174	1081.0-1082.3	66554	6.4	2.6	89.3	1.7	16.7	6.2	.910		None	
SBR60-3175	1082.3-1086.4	66555	4.6	2.0	91.9	1.5	12.0	4.8	.909		None	
SBR60-3176	1086.4-1090.2	66556	2.5	1.4	95.6	.5	6.6	3.4	.907		None	
SBR60-3177	1090.2-1092.3	66557	5.0	2.7	91.4	.9	13.1	6.5	.910		None	
SBR60-3178	1092.3-1093.4	66558	2.0	.8	96.6	.6	5.1a	1.9			None	
SBR60-3179	1093.4-1094.1	66559	3.9	2.0	93.3	.8	10.2	4.8	.901		None	
SBR60-3180	1094.1-1098.5	66560	2.8	1.0	95.3	.9	7.5	2.4	.910		None	
SBR60-3181	1098.5-1101.1	66561	5.8	1.7	91.0	1.5	15.4	4.1	.907		None	
SBR60-3182	1101.1-1103.3	66562	2.1	.4	96.5	1.0	5.5	1.0	.925		None	
SBR60-3183	1103.3-1105.0	66563	8.1	2.0	87.6	2.3	21.3	4.8	.913		None	
SBR60-3184	1105.0-1108.0	66564	6.6	1.6	90.3	1.5	17.4	3.8	.912		None	
SBR60-3185	1108.0-1110.0	66565	3.6	1.9	93.6	.9	9.4	4.6	.916		None	
SBR60-3186	1110.0-1112.0	66566	4.5	2.8	91.5	1.2	11.7	6.7	.928		None	

a - Specific gravity estimated due to insufficient oil.

1/ Assays from SBR 2592 - 2599P

Core samples received January 12, 1960; Assays made on air-dried samples.
Laramie Petroleum Research Center, Laramie, Wyoming, Illustration No. SBR-3262P May 13, 1960

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from National Farmers Union Exploration Company's Corehole No. 9, drilled 413 feet E/W line, 2480 feet S/N line of sec. 32, T. 10 S., R. 25 E., Uintah County, Utah 1/

Surface elevation 5,746 feet

Mahogany marker at 623 feet

Sample number		Run No.	Yield of product				Specific gravity of oil at 60°/60° F.		Properties of spent shale Tendency to coke		Remarks
			Weight percent		Gal. per ton						
Laramie	Their		Oil	Water	Spent shale	Gas + loss	Oil	Water			
SBR60-3187	1112.0-1113.7	66567	5.0	2.5	91.1	1.4	12.9	6.0	0.917	None	
SBR60-3188	1113.7-1114.5	66568	3.7	.3	95.0	1.0	9.4	.8	.928	None	
SBR60-3189	1114.5-1115.5	66569	5.6	2.2	90.9	1.3	14.7	5.3	.911	None	
SBR60-3190	1115.5-1120.0	66570	1.4	1.3	96.0	1.3	3.7a	3.1		None	
SBR60-3191	1120.0-1122.5	66571	1.1	1.2	97.0	.7	2.8a	2.9		None	

a - Specific gravity estimated due to insufficient oil.

1/ Assays from SBR 2592 - 2599P

Core samples received January 12, 1960; assays made on air-dried samples.

Laramie Petroleum Research Center, Laramie, Wyoming, Illustration No. SER-3263P

May 13, 1960