

UE-14

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OIL-SHALE ASSAYS BY THE MODIFIED FISCHER RETORT METHOD
 Samples from Seaboard's Bitter Creek No. 1 Well,
 located in Sec. 10, T. 10 S., R. 22 E. Uinta County, Utah

Sample Number Laramie Their		Run No.	Yield of Products				Specific Gravity of Oil at 60°/60°F.		Properties of Spent Shale			Tendency to coke	Remarks
			Weight Percent		Spent Gas +	Gal. per ton			Percent of Orig. Shale				
			Oil	Water					Shale	Loss	Oil		
BR48-1563	400-410	5772	None	1.3	98.7	0.0	None	3.0		8.2	90.5	None	
BR48-1564	410-420	5773	Trace	1.2	98.7	.1	Trace	2.9		6.3	92.4	None	
BR48-1565	420-430	5774	None	2.2	97.7	.1	None	5.2		6.9	90.8	None	
BR48-1566	430-440	5775	None	2.0	97.3	.1	None	6.2		5.2	92.1	None	
BR48-1567	440-450	5776	Trace	2.8	97.1	.1	Trace	6.7		4.0	93.1	None	
BR48-1568	450-460	5777	Trace	2.8	97.1	.1	Trace	6.6		5.1	92.0	None	
BR48-1569	460-470	5778	Trace	2.5	97.4	.1	Trace	6.0		6.0	91.4	None	
BR48-1570	470-480	5779	Trace	2.8	97.0	.2	Trace	6.6		4.6	92.4	None	
BR48-1571	480-490	5784	None	2.6	97.1	.3	None	6.1		5.5	91.6	None	
BR48-1572	490-500	5785	None	2.9	96.8	.3	None	7.0		1.2	95.6	None	
BR48-1573	500-510	5786	None	2.7	96.8	.5	None	6.5		4.8	92.0	None	
BR48-1574	510-520	5787	None	2.4	97.2	.4	None	5.8		7.3	89.9	None	
BR48-1575	520-530	5788	0.3	2.1	97.1	.5	0.8*	5.0		15.9	81.2	None	
BR48-1576	530-540	5789	Trace	2.2	97.5	.3	Trace	5.3		9.0	88.5	None	
BR48-1577	540-550	5790	Trace	2.2	97.7	.1	Trace	5.3		6.9	90.8	None	
BR48-1578	550-560	5791	Trace	2.2	97.7	.1	Trace	5.3		9.0	88.7	None	
BR48-1579	560-570	5792	.2	1.8	98.0	.0	.4*	4.3		10.4	87.6	None	
BR48-1580	570-580	5793	Trace	2.2	97.8	.0	Trace	5.2		8.8	89.0	None	
BR48-1581	580-590	5794	Trace	2.2	97.8	.0	Trace	5.2		5.5	92.3	None	
BR48-1582	590-600	5795	Trace	2.2	97.7	.1	Trace	5.3		6.3	91.4	None	
BR48-1583	600-610	5797	.3	2.1	97.1	.5	.7*	5.0		11.0	86.1	None	
BR48-1584	610-620	5798	.2	2.1	96.9	.8	.5*	4.8		11.7	85.2	None	
BR48-1585	620-630	5799	.1	2.6	96.7	.6	.2*	6.2		6.8	89.9	None	
BR48-1586	630-640	5800	None	2.2	97.3	.5	None	5.3		6.2	91.1	None	
BR48-1587	640-650	5801	None	2.3	97.1	.6	None	4.6		6.1	91.0	None	
BR48-1588	650-660	5802	None	2.5	96.4	1.1	None	5.9		5.9	90.5	None	
BR48-1589	660-670	5803	None	2.5	97.1	.4	None	5.9		5.6	91.5	None	
BR48-1590	670-680	5804	None	2.3	97.7	.0	None	5.5		6.1	91.6	None	
BR48-1591	680-690	5805	Trace	1.9	98.0	.1	Trace	4.6		7.2	90.8	None	
BR48-1592	690-700	5806	None	2.2	97.8	.0	None	5.3		7.7	90.1	None	

Estimated

Samples received October 28, 1948 - assays made on samples "as received."

Petroleum and Oil-Shale Experiment Station, Laramie, Wyoming. Illustration No. S.E.R.-350P. January 14, 1949.

OIL-SHALE ASSAYS BY THE MODIFIED FISCHER RETORT METHOD
 Samples from Seaboard's Bitter Creek No. 1 Well,
 Located in Sec. 10, T. 110 S., R. 22 E. Uinta County, Utah

Sample Number Laramie Their		Run No.	Yield of Products				Specific Gravity of Oil at 60°/60°F.		Properties of Spent Shale			Tendency to coke	Remarks
			Weight Percent		Spent Shale	Gas + Loss			Gal. per ton		Percent of Orig. Shale		
			Oil	Water			Oil	Water	Ignition Loss	Ash			
SBR48-1593	700-710	5807	None	2.0	98.0	0.0	None	4.8		5.8	92.2	None	
SBR48-1594	710-720	5808	Trace	2.1	97.9	.0	Trace	5.0		6.3	91.6	None	
SBR48-1595	720-730	5809	None	1.8	98.2	.0	None	4.2		6.8	91.4	None	
SBR48-1596	730-740	5810	None	1.8	98.2	.0	None	4.3		7.0	91.2	None	
SBR48-1597	740-750	5811	Trace	2.1	97.9	.0	Trace	5.0		8.8	89.1	None	
SBR48-1598	750-760	5812	None	2.1	97.8	.1	None	5.0		0.0	91.8	None	
SBR48-1599	760-770	5813	Trace	2.9	97.0	.1	Trace	7.0		2.9	94.1	None	
SBR48-1600	770-780	5814	0.4	2.6	96.7	.3	1.1*	6.2		13.8	82.9	None	
SBR48-1601	780-790	5815	Trace	2.4	97.3	.3	Trace	5.8		6.6	88.7	None	
SBR48-1602	790-800	5816	.1	2.4	97.2	.3	.3*	5.8		8.4	88.8	None	
SBR48-1603	800-810	5817	None	2.1	97.7	.2	None	5.0		5.3	92.4	None	
SBR48-1604	810-820	5818	.1	2.0	97.7	.2	.2*	4.8		7.6	90.1	None	
SBR48-1605	820-830	5819	None	1.9	98.0	.1	None	4.6		0.1	91.9	None	
SBR48-1606	830-840	5823	None	1.9	97.9	.2	None	4.4		7.2	90.7	None	
SBR48-1607	840-850	5824	.5	2.3	96.7	.5	1.3*	5.5		11.4	85.3	None	
SBR48-1608	850-860	5825	Trace	1.8	97.8	.4	Trace	4.3		7.7	90.1	None	
SBR48-1609	860-870	5826	Trace	1.6	97.9	.5	Trace	3.8		6.5	91.4	None	
SBR48-1610	870-880	5827	Trace	1.7	98.0	.3	Trace	4.1		6.4	91.6	None	
SBR48-1611	880-890	5828	.2	1.4	98.3	.1	.4*	3.4		5.9	92.4	None	
SBR48-1612	890-900	5829	.3	1.7	97.8	.2	.8*	4.1		5.7	92.1	None	
SBR48-1613	900-910	5830	Trace	1.7	98.1	.2	Trace	4.1		7.6	90.5	None	
SBR48-1614	910-920	5831	.5	1.6	97.8	.1	1.2*	3.8		8.3	89.5	None	
SBR48-1615	920-930	5832	.2	1.4	98.2	.2	.6*	3.4		10.9	87.3	None	
SBR48-1616	930-940	5833	.4	2.0	97.3	.3	.9*	4.9		8.8	88.5	None	
SBR48-1617	940-950	5834	.6	1.5	97.7	.2	1.5*	3.6		15.5	82.2	None	
SBR48-1618	950-960	5835	.5	1.6	97.7	.2	1.3*	3.8		15.4	82.3	None	
SBR48-1619	960-970	5837	.3	1.2	98.4	.1	.8*	2.9		11.5	86.9	None	
SBR48-1620	970-980	5838	Trace	1.4	98.6	.0	Trace	3.2		4.0	94.0	None	
SBR48-1621	980-990	5839	.1	1.6	98.3	.0	.3*	3.8		5.7	92.6	None	
SBR48-1622	990-1000	5840	None	1.5	98.4	.1	None	3.6		3.0	95.4	None	

*Estimated

Samples received October 28, 1948 - assays made on samples "as received."

Petroleum and Oil-Shale Experiment Station, Laramie, Wyoming. Illustration No. S.B.R.-351P. January 14, 1949.

OIL-SHALE ASSAYS BY THE MODIFIED FISCHER RETORT METHOD
 Samples from Seaboard's Bitter Creek No. 1 Well,
 Located in Sec. 10, T. 110 S., R. 22 E. Uinta County, Utah

Sample Number		Run No.	Yield of Products						Specific Gravity of Oil at 60°/60°F.	Properties of Spent Shale			Tendency to coke	Remarks
			Weight Percent				Gal. per ton			Percent of Orig. Shale				
			Oil	Water	Spent Shale	Gas Loss	Oil	Water		Ignition Loss	Ash			
Laramie	Their													
SBR48-1623	1000-1010	5841	0.1	1.5	98.4	0.0	0.3*	3.6		5.0	97.4		None	
SBR48-1624	1010-1020	5842	.1	1.4	98.4	.1	.3*	3.4		7.5	90.9		None	
SBR48-1625	1020-1030	5843	None	.8	99.2	.0	None	1.8		5.0	94.2		None	
SBR48-1626	1030-1040	5845	.1	.9	98.9	.1	.2*	2.2		7.9	91.0		None	
SBR48-1627	1040-1050	5846	.1	1.8	98.0	.1	.2*	4.3		9.5	88.5		None	
SBR48-1628	1050-1060	5847	.1	1.5	98.4	.0	.2*	3.6		6.6	91.8		None	
SBR48-1629	1060-1070	5848	.3	1.8	97.7	.2	.9*	4.3		5.4	92.3		None	
SBR48-1630	1070-1080	5849	.1	1.7	97.9	.3	.2*	4.1		4.8	93.1		None	
SBR48-1631	1080-1090	5850	.2	1.5	98.2	.1	.4*	3.6		5.6	92.6		None	
SBR48-1632	1090-1100	5851	None	6.0	93.9	.1	None	14.4		8.1	85.8		None	
SBR48-1633	1100-1110	5854	.6	3.1	95.6	.7	1.5*	7.4		14.2	81.4		None	
SBR48-1634	1110-1120	5855	.1	3.6	95.8	.5	.2*	8.6		9.1	86.7		None	
SBR48-1635	1120-1130	5856	Trace	2.7	96.6	.7	Trace	6.4		8.3	88.3		None	
SBR48-1636	1130-1140	5857	Trace	2.2	97.0	.8	Trace	5.2		6.8	90.2		None	
SBR48-1637	1140-1150	5858	Trace	1.8	97.4	.8	Trace	4.3		8.1	89.3		None	
SBR48-1638	1150-1160	5859	Trace	1.3	97.8	.9	Trace	3.1		7.0	90.8		None	
SBR48-1639	1160-1170	5860	Trace	.8	99.1	.1	Trace	1.9		6.6	92.5		None	
SBR48-1640	1170-1180	5861	Trace	1.8	97.8	.4	Trace	4.2		7.6	90.2		None	
SBR48-1641	1180-1190	5862	.1	1.0	98.8	.1	.2*	2.4		7.5	91.3		None	
SBR48-1642	1190-1200	5863	.2	.8	99.0	.0	.4*	1.9		6.7	92.3		None	
SBR48-1643	1200-1210	5864	Trace	1.2	98.8	.0	Trace	2.9		7.2	91.6		None	
SBR48-1644	1210-1220	5865	.2	1.4	98.2	.2	.6*	3.4		8.9	89.3		None	
SBR48-1645	1220-1230	5866	.4	1.0	98.6	.0	1.0*	2.3		9.6	89.0		None	
SBR48-1646	1230-1240	5867	.2	1.1	98.6	.1	.6*	2.6		9.5	89.1		None	
SBR48-1647	1240-1250	5868	.6	1.1	98.1	.2	1.5*	2.8		10.0	88.1		None	
SBR48-1648	1250-1260	5869	.5	.7	98.7	.1	1.2*	1.8		9.5	89.2		None	
SBR48-1649	1260-1270	5870	1.2	2.9	95.6	.3	3.0*	6.8		15.9	79.7		None	
SBR48-1650	1270-1280	5871	1.8	.6	97.1	.5	4.5*	1.6		18.2	78.9		None	
SBR48-1651	1280-1290	5872	2.8	2.4	93.1	1.7	6.9*	5.8		19.9	73.2		None	
SBR48-1652	1290-1300	5873	1.8	.7	97.0	.5	4.6*	1.7		15.9	81.1		None	

*Estimated

Samples received October 28, 1948 - assays made on samples "as received."

OIL-SHALE ASSAYS BY THE MODIFIED FISCHER RETORT METHOD
 Samples from Seaboard's Bitter Creek No. 1 Well,
 Located in Sec. 10, T. 110 S., R. 22 E. Uinta County, Utah

Sample Number		Run No.	Yield of Products				Specific Gravity of Oil at 60°/60°F.		Properties of Spent Shale			Tendency to coke	Remarks
			Weight Percent		Gal. per ton				Percent of Orig. Shale		Ignition		
Laramie	Their		Oil	Water	Spent shale	Gas + Loss	Oil	Water	Loss	Ash			
SEB48-1053	1300-1310	5874	1.0	1.0	90.0	0.8	4.1*	2.3		17.4	79.2	None	
SEB48-1054	1310-1320	5875	1.1	1.3	97.0	.6	2.7*	3.1		10.0	81.0	None	
SEB48-1055	1320-1330	5076	1.7	.5	97.5	.3	4.4*	1.1		20.2	77.3	None	
SEB48-1056	1330-1340	5877	5.3	.3	93.8	.0	13.9	.8	0.916	18.5	75.3	None	
SEB48-1057	1340-1350	5878	.9	4.0	95.1	.0	2.2*	9.0		14.5	80.0	None	
SEB48-1058	1350-1360	5879	1.7	2.4	95.1	.8	4.4*	5.0		19.2	75.9	None	
SEB48-1059	1360-1370	5880	2.1	1.3	95.8	.8	3.3*	3.1		19.8	76.0	None	
SEB48-1060	1370-1380	5881	2.0	1.0	90.5	.5	4.9*	2.4		19.7	70.8	None	
SEB48-1061	1390-1400	5882	2.5	.6	90.2	.7	0.2*	1.0		19.3	70.9	None	
SEB48-1062	1400-1410	5883	1.2	5.2	93.1	.5	2.9*	10.8		15.8	77.3	None	
SEB48-1063	1410-1420	5986	2.0	.6	90.3	1.1	5.0*	1.0		18.0	78.3	None	
SEB48-1064	1420-1430	5987	1.4	0.3	90.5	1.8	3.5*	15.1		17.1	73.4	None	
SEB48-1065	1430-1440	5989	1.1	0.0	90.8	1.5	2.8*	15.7		15.9	74.9	None	
SEB48-1066	1440-1450	5990	1.0	0.0	92.2	.8	2.4*	14.4		17.0	75.2	None	
SEB48-1067	1450-1460	5991	.8	0.9	91.5	.8	2.0*	10.0		15.9	75.6	None	
SEB48-1068	1460-1470	5992	.9	7.8	90.7	.6	2.3*	18.7		14.5	76.2	None	
SEB48-1069	1470-1480	5993	.8	7.5	91.1	.6	1.9*	18.0		15.0	76.1	None	
SEB48-1070	1480-1490	5994	.9	7.6	90.9	.6	2.4*	18.2		14.5	76.4	None	
SEB48-1071	1490-1500	5995	.7	8.0	90.0	.7	1.9*	19.2		14.4	76.2	None	
SEB48-1072	1500-1510	5997	2.0	4.6	92.7	.7	5.0	11.0	.952	15.8	76.9	None	
SEB48-1073	1510-1520	5998	2.0	4.9	92.6	.5	5.2	11.6	.930	15.8	76.8	None	
SEB48-1074	1520-1530	5999	2.3	3.6	93.6	.5	5.9	8.6	.926	16.7	76.9	None	
SEB48-1075	1530-1540	6000	2.4	2.8	93.9	.9	6.2	0.7	.925	17.5	76.4	None	
SEB48-1076	1540-1550	6001	2.9	1.7	94.5	.9	7.5	1.1	.925	18.4	76.1	None	
SEB48-1077	1600-1610	6002	7.1	4.6	84.3	4.0	18.4	11.0	.927	20.2	64.1	None	40' miss.
SEB48-1078	1650-1660	6003	.3	8.4	90.3	1.0	.8*	20.1		10.1	80.2	None	
SEB48-1079	1660-1680	6004	3.4	12.1	75.4	9.1	8.1	29.0	.994	20.1	55.3	None	
SEB48-1080	1680-1690	6005	3.6	1.9	93.1	1.4	9.1	4.6	.948	20.9	72.2	None	
SEB48-1081	1690-1700	6006	3.3	1.4	91.8	3.5	8.5	3.2	.937	21.0	70.8	None	
SEB48-1082	1700-1710	6007	4.4	1.0	92.3	2.3	11.3	2.3	.934	23.1	69.2	None	

*Estimated Samples received October 28, 1948 - assays made on samples "as received."

OIL-SHALE ASSAYS BY THE MODIFIED FISCHER RETORT METHOD
 Samples from Seaboard's Bitter Creek No. 1 Well,
 Located in Sec. 10, T. 110 S., R. 22 E. Uinta County, Utah

Sample Number Laramie Their		Run No.	Yield of Products				Cal. per ton		Specific Gravity of Oil at 60°/60°F.	Properties of Spent Shale			Tendency to coke	Remarks
			Oil	Water	Spent Shale	Gas + Loss	Oil	Water		Percent of Orig. Shale	Ignition Loss	Ash		
SBR48-1683	1710-1720	6008	4.5	2.3	90.4	2.8	11.6	5.0	0.930	330-228	14.7	69.7	None	
SBR48-1684	1720-1730	6009	4.3	2.1	91.0	2.6	11.2	4.9	.928	330-228	14.8	70.6	None	
SBR48-1685	1730-1740	6010	4.9	1.4	91.6	2.1	12.7	3.2	.928	330-228	10.9	70.7	None	
SBR48-1686	1740-1750	6011	1.9	5.2	91.3	1.6	4.9*	12.4	.927	330-228	15.2	70.1	None	
SBR48-1687	1750-1760	6012	4.0	2.1	91.8	2.1	10.3	5.0	.927	330-228	15.0	70.8	None	
SBR48-1688	1760-1770	6013	4.2	2.2	92.0	1.6	11.07	5.3	.928	330-228	14.5	77.5	None	
SBR48-1689	1770-1780	6014	1.7	5.4	92.5	.4	4.4*	12.9	.928	330-228	18.4	74.1	None	
SBR48-1690	1780-1790	6015	2.0	5.5	92.0	.5	4.9*	13.2	.928	330-228	19.3	72.7	None	
SBR48-1691	1790-1800	6016	4.3	1.2	93.3	1.2	11.07	2.9	.932	330-228	20.6	72.7	None	
SBR48-1692	1800-1810	6017	4.2	.6	94.1	1.1	10.7	1.6	.927	330-228	21.3	72.8	None	
SBR48-1693	1810-1820	6018	2.5	4.0	92.8	.7	6.3*	9.6	.927	330-228	17.7	75.1	None	
SBR48-1694	1820-1830	6019	2.6	3.3	93.4	.7	6.7*	7.9	.927	330-228	18.6	74.8	None	
SBR48-1695	1830-1880	6020	4.0	2.0	93.9	50 .1	10.4	4.8	.929	330-228	20.4	73.5	None	
SBR48-1696	1880-1890	6021	3.9	1.7	93.8	.6	10.0	4.1	.925	330-228	21.2	72.6	None	
SBR48-1697	1890-1900	6022	4.1	1.2	94.2	.5	10.7	3.0	.918	330-228	21.4	72.8	None	
SBR48-1698	1900-1910	6023	5.6	.8	92.7	.9	14.6	1.8	.918	330-228	21.2	71.5	None	
SBR48-1699	1910-1920	6024	17.5	.7	81.2	0.6	46.0	1.7	.913	330-228	20.3	60.9	Slight	
SBR48-1700	1920-1930	6025	15.8	.7	80.8	32.7	41.4	1.7	.918	330-228	20.1	60.7	Slight	
SBR48-1701	1930-1940	6026	10.1	.5	87.9	1.5	26.4	1.3	.918	330-228	27.4	60.5	None	
SBR48-1702	1940-1950	6027	10.3	.6	87.8	1.3	27.0	1.4	.912	330-228	23.2	64.6	None	
SBR48-1703	1950-1960	6028	12.8	.6	84.0	2.6	33.8	1.6	.912	330-228	23.1	60.9	None	
SBR48-1704	1960-1970	6029	7.7	.4	89.8	2.1	20.3	1.0	.908	330-228	24.8	65.0	None	
SBR48-1705	1970-1980	6030	5.1	.6	92.6	1.7	13.4	1.4	.913	330-228	20.0	72.6	None	
SBR48-1706	1980-1990	6031	4.3	.5	93.6	1.6	11.4	1.2	.915	330-228	23.5	70.1	None	
SBR48-1707	1990-2000	6032	5.3	.7	92.6	1.4	13.9	1.7	.917	330-228	21.1	71.5	None	
SBR48-1708	2000-2010	6033	4.1	.7	93.7	1.5	10.7	1.6	.926	330-228	21.2	72.5	None	
SBR48-1709	2010-2020	6034	2.3	.6	95.8	1.3	5.7*	1.6	.926	330-228	17.6	78.2	None	
SBR48-1710	2020-2030	6036	1.4	.5	97.3	.8	3.6*	1.2	.926	330-228	18.7	78.6	None	
SBR48-1711	2030-2040	6037	2.2	1.1	96.0	.7	5.6*	2.6	.926	330-228	20.3	75.7	None	
SBR48-1712	2040-2050	6038	2.4	1.2	95.7	.7	6.1*	2.8	.926	330-228	19.9	75.8	None	

*Estimated Samples received October 28, 1948 - assays made on samples "as received."

OIL-SHALE ASSAYS BY THE MODIFIED FISCHER RETORT METHOD
 Samples from Seaboard's Bitter Creek No. 1 Well,
 Located in Sec. 10, T. 110 S., R. 22 E. Uinta County, Utah

Sample Number Laramie Their		Run No.	Yield of Products				Gal. per ton		Specific Gravity of Oil at 60°/60°F.	Properties of Spent Shale		Tendency to coke	Remarks	
			Weight Percent		Spent Shale	Gas + Loss				Percent of Orig. Shale				
			Oil	Water			Oil	Water		Ignition Loss	Ash			
SBR48-1713	2050-2060	0039	1.4	1.1	97.0	0.5	3.5*	2.6	0.919	17.2	79.8	None		
SBR48-1714	2060-2070	0040	5.9	.8	92.3	1.0	15.3	1.9		21.3	71.0	None		
SBR48-1715	2070-2080	0041	4.7	1.5	92.6	1.2	12.3	3.6		.921	17.5	75.1	None	
SBR48-1716	2080-2090	0042	4.8	.7	93.0	1.5	12.6	1.7	.919	25.3	67.7	None		
SBR48-1717	2090-2100	0043	12.1	.9	84.7	2.3	31.6	2.1	.920	22.7	62.0	None		
SBR48-1718	2100-2110	0045	12.1	.8	84.5	2.6	31.5	1.9	.922	20.5	64.0	None		
SBR48-1719	2110-2120	0046	5.0	1.2	91.9	1.3	14.5	2.9	.921	20.5	71.4	None		
SBR48-1720	2120-2130	0047	5.3	1.1	92.6	1.0	13.8	2.7	.918	24.7	67.9	None		
SBR48-1721	2130-2140	0048	2.4	2.0	95.0	.6	5.9*	4.8	.929	15.7	79.3	None		
SBR48-1722	2140-2150	0049	2.8	1.7	94.4	1.2	7.2	4.1		13.9	80.5	None		
SBR48-1723	2150-2160	0050	0.3	1.7	91.1	.9	16.2	4.1		.926	18.2	72.9	None	
SBR48-1724	2160-2170	0051	2.4	1.3	95.5	.8	6.2*	3.1	.918	20.1	75.4	None		
SBR48-1725	2170-2180	0053	3.2	1.5	94.2	1.1	8.5	3.5		19.0	74.6	None		
SBR48-1726	2180-2190	0054	.8	1.2	97.3	.7	2.0*	2.8		19.1	76.2	None		
SBR48-1727	2190-2200	0055	1.7	2.1	95.2	1.0	4.4*	5.0	.912	16.2	79.0	None		
SBR48-1728	2200-2210	0056	1.2	1.6	96.2	.8	3.1*	4.3		17.1	79.1	None		
SBR48-1729	2210-2220	0057	1.3	2.5	95.1	1.1	3.3*	6.0		15.1	80.0	None		
SBR48-1730	2220-2230	0058	2.1	1.9	94.8	1.2	5.2*	4.6	.922	18.5	76.3	None		
SBR48-1731	2230-2240	0059	5.2	1.7	91.5	1.6	13.0	4.1		19.6	71.9	None		
SBR48-1732	2240-2250	0061	6.3	2.4	90.4	.9	16.3	5.7		18.1	72.3	None		
SBR48-1733	2250-2260	0062	3.6	1.5	94.1	.8	9.3	3.6	.921	20.6	73.5	None		
SBR48-1734	2260-2270	0063	2.8	1.0	95.6	.6	7.3	2.4		.912	17.6	78.0	None	
SBR48-1735	2270-2280	0064	4.5	1.1	93.5	.9	11.7	2.6		.919	24.0	69.5	None	
SBR48-1736	2280-2290	0065	2.1	1.2	95.7	1.0	5.3*	2.9	.908	20.9	74.8	None		
SBR48-1737	2290-2300	0066	1.8	1.2	96.3	.7	4.6*	2.9		19.9	76.4	None		
SBR48-1738	2300-2310	0067	2.5	1.2	95.3	1.0	6.4*	2.9		24.9	70.4	None		
SBR48-1739	2310-2320	0069	1.2	.9	97.3	.6	3.0*	2.2	.908	23.5	73.8	None		
SBR48-1740	2360-2370	0070	3.1	2.1	93.8	1.0	8.2	5.0		11.6	82.2	None		
SBR48-1741	2370-2380	0071	3.1	2.1	93.8	1.0	6.1	5.0		11.6	82.2	None		
SBR48-1742	2380-2390	0072	2.8	1.8	94.3	1.1	7.1*	4.3		13.0	81.3	None		

*Estimated Samples received October 28, 1948 - assays made on samples "as received."
 petroleum and Oil-Shale Experiment Station, Laramie, Wyoming. Illustration No. S.B.R.-355P. January 14, 1949.

OIL-SHALE ASSAYS BY THE MODIFIED FISCHER RETORT METHOD
 Samples from Seaboard's Bitter Creek No. 1 Well,
 Located in Sec. 10, T. 110 S., R. 22 E. Uinta County, Utah

Sample Number		Run No.	Yield of Products				Specific Gravity of Oil at 60°/60°F.		Properties of Spent Shale			Remarks
			Weight Percent		Gas + Loss	Percent of Orig. Shale			Tendency to coke			
			Oil	Water		Spent Shale				Gal. per ton	Ignition Loss	
Laramie	Their		Oil	Water	Spent Shale	Loss	Oil	Water		Loss	Ash	
SBR48-1743	2390-2400	6073	2.7	1.8	94.3	1.2	6.8*	4.3		17.5	76.8	None
SBR48-1744	2400-2410	6074	2.7	1.7	95.0	.6	6.9*	4.1		17.3	77.7	None
SBR48-1745	2410-2420	6075	2.6	1.8	94.3	1.3	6.6*	4.3		16.5	77.8	None
SBR48-1746	2420-2430	6076	1.3	1.8	96.9	.0	3.4*	4.3		14.6	82.3	None
SBR48-1747	2430-2440	6077	1.7	1.5	96.6	.2	4.2*	3.6		15.3	81.3	None
SBR48-1748	2440-2450	6078	1.4	1.8	94.9	1.9	3.4*	4.4		14.5	80.4	None
SBR48-1749	2450-2460	6079	1.6	1.9	95.7	.8	4.0*	4.6		12.1	83.6	None
SBR48-1750	2460-2470	6080	.3	2.2	96.6	.9	.8*	5.3		9.3	87.3	None
SBR48-1751	2470-2480	6081	.4	2.1	97.0	.5	1.1*	5.1		9.6	87.4	None
SBR48-1752	2480-2490	6082	.6	2.6	95.8	1.0	1.5*	6.2		11.0	84.8	None
SBR48-1753	2490-2500	6083	1.0	2.8	95.2	1.0	2.7*	6.7		12.8	82.4	None
SBR48-1754	2500-2510	6085	2.0	2.7	94.4	.9	5.1*	6.5		16.4	78.0	None
SBR48-1755	2510-2520	6086	2.5	1.5	95.2	.8	6.2*	3.6		23.1	72.1	None
SBR48-1756	2520-2530	6087	5.2	1.6	91.7	1.5	13.8	3.7	0.908	22.3	69.4	None
SBR48-1757	2530-2540	6088	3.7	2.0	93.0	1.3	9.8	4.7	.909	17.8	75.2	None
SBR48-1758	2540-2550	6089	3.7	2.0	93.0	1.3	9.7	4.9	.906	17.8	75.2	None
SBR48-1759	2550-2560	6090	3.7	2.0	92.9	1.4	9.8	4.8	.907	17.3	75.6	None
SBR48-1760	2560-2570	6091	1.4	3.5	93.3	1.8	3.6*	8.4		15.5	77.8	None
SBR48-1761	2570-2590	6093	1.8	4.1	91.5	2.6	4.6*	9.8		16.0	75.5	None
SBR48-1762	2590-2600	6094	1.2	5.8	89.1	3.9	3.1*	13.9		14.6	74.5	None
SBR48-1763	2600-2610	6095	.1	2.8	95.9	1.2	.3*	6.6		13.2	82.7	None
SBR48-1764	2610-2620	6096	.5	1.8	96.7	1.0	1.2*	4.2		20.1	76.6	None
SBR48-1765	2620-2630	6097	.5	1.9	96.3	1.3	1.4*	4.4		16.6	79.7	None
SBR48-1766	2630-2640	6098	.1	2.2	96.5	1.2	.2*	5.3		12.0	84.5	None
SBR48-1767	2640-2650	6099	.3	.8	97.7	1.2	.7*	1.9		30.2	67.5	None
SBR48-1768	2650-2660	6106	.9	.7	97.6	.8	2.3*	1.7		29.4	68.2	None
SBR48-1769	2662	6107	.3	.6	98.7	.4	.6*	1.6		32.7	66.0	None
SBR48-1770	2660-2670	6108	.3	1.7	97.3	.7	.9*	4.0		19.6	77.7	None
SBR48-1771	2670-2680	6109	.5	1.6	96.9	1.0	1.3*	3.8		18.0	78.9	None
SBR48-1772	2680-2690	6110	.3	2.0	97.1	.6	.7*	4.9		11.6	85.5	None

*Estimated

Samples received October 28, 1948 - assays made on samples "as received."

OIL-SHALE ASSAYS BY THE MODIFIED FISCHER RETORT METHOD
 Samples from Seaboard's Bitter Creek No. 1 Well,
 Located in Sec. 10, T. 110 S., R. 22 E. Uinta County, Utah

Sample Number		Run No.	Yield of Products				Specific Gravity of Oil at 60°/60°F.		Properties of Spent Shale			Remarks
			Weight Percent		Gas + Spent Shale Loss	Gal. per ton			Percent of Orig. Shale		Tendency to coke	
			Oil	Water		Oil	Water	Ignition Loss	Ash			
Laramie	Thief											
SBR48-1773	2690-2700	6111	0.2	2.1	97.3	0.4	0.5*	4.9	10.9	86.4	None	
SBR48-1774	2730-2740	6112	.4	2.5	96.8	.3	.9*	6.0	10.5	86.3	None	
SBR48-1775	2740-2750	6113	.3	1.2	98.4	.1	.8*	2.9	10.1	86.3	None	
SBR48-1776	2750-2760	6114	.2	.8	98.9	.1	.6*	1.9	7.8	91.1	None	
SBR48-1777	2760-2770	6115	.3	.8	98.9	.0	.8*	1.8	8.4	90.5	None	
SBR48-1778	2770-2780	6117	.8	1.2	97.2	.8	2.1*	2.9	26.1	71.1	None	
SBR48-1779	2780-2785	6118	.5	1.2	97.9	.4	1.3*	2.8	16.3	81.6	None	
SBR48-1780	2785-2790	6119	.3	1.3	98.3	.1	.8*	3.0	12.9	85.4	None	
SBR48-1781	2790-2795	6120	.1	1.4	98.3	.2	.2*	3.5	12.6	85.7	None	
SBR48-1782	2781-2782	6121	Trace	.2	99.4	.4	Trace	.5	18.5	80.9	None	
SBR48-1783	2782-2783	6122	Trace	.6	98.9	.5	Trace	1.4	18.5	80.4	None	
SBR48-1784	2783-2784	6123	Trace	1.0	98.6	.4	Trace	2.3	8.2	90.4	None	
SBR48-1785	2784-2785	6124	Trace	2.2	97.6	.2	Trace	5.2	7.9	89.7	None	
SBR48-1786	2785-2786	6125	Trace	3.2	96.6	.2	Trace	7.7	5.8	90.8	None	
SBR48-1787	2786-2787	6126	Trace	2.7	97.2	.1	Trace	0.4	6.5	90.7	None	
SBR48-1788	2787-2788	6127	Trace	1.5	98.4	.1	Trace	3.5	6.5	91.9	None	
SBR48-1789	2788-2789	6128	None	.5	99.4	.1	None	1.2	7.5	91.9	None	
SBR48-1790	2789-2790	6129	Trace	2.9	96.8	.3	Trace	7.0	6.6	90.2	None	
SBR48-1791	2790-2791	6130	Trace	3.9	95.5	.6	Trace	9.2	6.3	89.2	None	
SBR48-1792	2791-2792	6131	None	3.3	96.2	.5	None	7.8	6.6	89.4	None	
SBR48-1793	2792-2793	6132	.1	1.5	97.7	.7	.2*	3.7	7.5	90.2	None	
SBR48-1794	2793-2794	6134	.1	2.7	96.5	.7	.2*	6.5	7.3	89.2	None	

*Estimated Samples received October 28, 1948 - assays made on samples "as received."

Petroleum and Oil-Shale Experiment Station, Laramie, Wyoming. Illustration No. S.B.R.-356P. January 14, 1949.

OIL-SHALE ASSAYS BY THE MODIFIED FISCHER RETORT METHOD
 Samples from Seaboard Oil Company's No. 1 Well
 Located in Sec. 10, T. 110 S., R. 22 E., Uintah County, Utah

Sample No.	Run No.	Yield of Products						Specific Gravity of Oil at 60°/60°F.	Properties of Spent Shale		Tendency to coke	Remarks	
		Weight Percent				Gal. per ton			Percent of Orig. Shale				
		Oil	Water	Spent Shale	Gas + Loss	Oil	Water		Ignition Loss	Ash			
Laramie	Their												
SBR49-865	2797-2800	6937	0.4	1.7	96.8	1.1	1.1*	4.1		13.0	83.8	None	
SBR49-866	2800-2810	6938	.5	1.6	97.0	.9	1.3*	3.7		14.2	82.8	None	
SBR49-867	2810-2820	6939	.4	1.6	97.3	.7	1.0*	3.8		19.9	77.4	None	
SBR49-868	2820-2830	6940	.3	.7	98.2	.8	.7*	1.7		9.2	89.0	None	
SBR49-869	2830-2840	6941	.2	.9	98.4	.5	.6*	2.0		11.1	87.3	None	
SBR49-870	2840-2850	6942	.2	1.5	97.1	1.2	.6*	3.6		10.5	86.6	None	
SBR49-871	2850-2860	6944	.3	1.0	97.7	1.0	.7*	2.5		9.8	87.9	None	
SBR49-872	2860-2870	6945	.4	1.4	96.9	1.3	1.1*	3.4		9.8	87.1	None	
SBR49-873	2870-2880	6946	1.1	2.0	95.3	1.6	2.7*	4.9		13.0	82.3	None	
SBR49-874	2880-2890	6947	.7	1.5	97.1	.7	1.7*	3.6		12.1	85.0	None	
SBR49-875	2890-2900	6948	.4	1.9	96.3	1.4	1.0*	4.6		10.5	85.8	None	
SBR49-876	2900-2910	6949	.4	1.5	97.4	.7	.9*	3.7		14.0	83.4	None	
SBR49-877	2910-2920	6950	.1	1.7	97.7	.5	.3*	4.0		15.3	82.4	None	
SBR49-878	2920-2930	6951	.2	1.0	98.6	.2	.6*	2.4		16.4	82.2	None	
SBR49-879	2930-2940	6952	.1	1.1	98.5	.3	.4*	2.6		17.1	81.4	None	
SBR49-880	2940-2950	6953	.5	1.2	98.1	.2	1.2*	3.0		15.6	82.5	None	
SBR49-881	2950-2960	6954	1.2	3.0	94.5	1.3	2.9*	7.2		14.7	79.8	None	
SBR49-882	2960-2970	6955	1.2	2.5	95.2	1.1	2.9*	6.0		15.3	79.9	None	
SBR49-883	2970-2980	6956	.8	2.0	96.3	.9	2.0*	4.9		13.9	82.4	None	
SBR49-884	2980-2990	6957	1.1	2.0	96.4	.5	2.6*	4.8		10.0	86.4	None	
SBR49-885	2990-3000	6958	.4	1.9	97.3	.4	1.0*	4.7		11.7	85.6	None	
SBR49-886	3000-3010	6959	.7	2.3	95.7	1.3	1.7*	5.5		12.9	82.8	None	
SBR49-887	3010-3020	6960	1.7	1.7	95.7	.9	4.4*	4.1		17.9	77.8	None	
SBR49-888	3020-3030	6961	1.4	1.9	95.7	1.0	3.5*	4.6		18.2	77.5	None	
SBR49-889	3030-3040	6962	1.5	1.8	95.8	1.2	3.9*	4.3		16.8	78.7	None	
SBR49-890	3040-3050	6963	.3	1.7	97.0	1.0	.8*	4.1		12.3	84.7	None	
SBR49-891	3050-3060	6964	.4	1.3	97.3	1.0	.9*	3.1		10.9	86.4	None	
SBR49-892	3060-3070	6965	.3	1.6	97.0	1.1	.6*	3.8		11.4	85.6	None	
SBR49-893	3070-3080	6966	.1	2.3	96.4	1.2	.3*	5.5		13.1	83.3	None	
SBR49-894	3080-3090	6967	1.3	1.5	96.7	.5	3.3*	3.6		19.0	77.7	None	

*Estimated Samples received November 24, 1943; assays made on air dried samples.

OIL-SHALE ASSAYS BY THE MODIFIED FISCHER RETORT METHOD
 Samples from Seaboard Oil Company's No. 1 Well
 Located in Sec. 10, T. 110 S., R. 22 E., Uintah County, Utah

Sample No.		Run No.	Yield of Products				Specific Gravity of Oil at 60°/60°F.		Properties of Spent Shale			Remarks	
			Weight Percent		Spent Shale	Gas + Loss			Gal. per ton		Percent of Orig. Shale		Tendency to coke
			Oil	Water			Oil	Water	Ignition Loss	Ash			
Laramie	Their												
SBR49-895	3110-3120	6968	1.0	1.7	97.0	0.3	2.4*	4.1		14.3	82.7	None	
SBR49-896	3120-3130	6969	1.1	1.7	96.3	.4	2.7*	4.1		14.4	82.4	None	
SBR49-897	3130-3140	6970	.2	2.0	97.6	.2	.4*	4.8		11.3	86.3	None	
SBR49-898	3140-3150	6971	.8	4.2	93.1	1.9	2.1*	10.1		14.8	78.3	None	
SBR49-899	3150-3160	6972	.4	1.8	97.5	.3	1.1*	4.3		13.9	83.6	None	
SBR49-900	3160-3170	6973	.4	2.1	97.2	.3	1.0*	5.2		11.8	85.4	None	
SBR49-901	3170-3180	6974	.1	1.8	98.1	.0	.3*	4.2		12.0	86.1	None	
SBR49-902	3180-3190	6975	.1	1.9	97.5	.6	.3*	4.6		10.2	87.3	None	
SBR49-903	3200-3210	6976	.1	2.0	97.3	.6	.4*	4.7		9.6	87.7	None	
SBR49-904	3210-3240	6977	.1	3.0	95.7	1.2	.1*	7.2		10.0	85.7	None	
SBR49-905	3240-3250	6978	.1	2.3	96.7	.7	.4*	5.5		9.4	87.5	None	
SBR49-906	3250-3260	6979	.2	2.0	97.3	.5	.6*	4.3		10.2	87.1	None	
SBR49-907	3260-3270	6980	.7	1.9	97.2	.2	1.0*	4.5		11.2	86.0	None	
SBR49-908	3270-3280	6981	.6	1.9	97.3	.2	1.6*	4.5		10.3	86.5	None	
SBR49-909	3280-3290	6982	2.1	4.0	92.1	1.8	5.2*	9.7		16.5	75.6	None	
SBR49-910	3290-3300	6983	.7	1.3	97.6	.4	1.8*	3.1		14.9	82.7	None	
SBR49-911	3300-3310	6984	.5	1.0	98.3	.2	1.1*	2.4		9.7	88.6	None	
SBR49-912	3310-3320	6985	.4	1.2	98.2	.2	1.1*	2.9		9.0	89.2	None	
SBR49-913	3320-3330	6986	.2	1.0	98.5	.3	.4*	2.4		7.7	90.8	None	
SBR49-914	3330-3340	6987	.1	1.0	98.3	.6	.3*	2.3		11.3	87.0	None	
SBR49-915	3340-3350	6988	.4	.9	98.5	.2	1.0*	2.2		8.9	89.6	None	
SBR49-916	3350-3360	6989	.5	1.0	98.3	.2	1.1*	2.4		8.9	89.4	None	
SBR49-917	3360-3370	6990	.4	1.1	98.2	.3	1.1*	2.6		6.9	91.3	None	
SBR49-918	3370-3380	6991	.6	1.3	97.9	.2	1.4*	3.2		3.0	99.0	None	
SBR49-919	3380-3390	6992	1.1	2.2	95.6	1.1	2.7*	5.3		12.1	83.5	None	
SBR49-920	3390-3400	6993	.2	2.2	96.8	.8	.6*	5.2		9.3	87.0	None	
SBR49-921	3400-3410	6994	.3	1.2	98.4	.1	.3*	2.9		9.0	90.4	None	
SBR49-922	3410-3420	6995	.3	1.7	97.9	.1	.7*	4.1		12.1	85.8	None	
SBR49-923	3420-3430	6996	.7	1.6	97.3	.4	1.7*	3.8		12.5	84.6	None	
SBR49-924	3430-3440	6997	.4	1.5	97.5	.6	1.1*	3.5		11.1	86.4	None	

*Estimated

Samples received November 24, 1948; assays made on air dried samples.

OIL-SHALE ASSAYS BY THE MODIFIED FISCHER-SHREVE METHOD
 Samples from Seaboard Oil Company's No. 1 Well
 Located in Sec. 10, T. 110 S., R. 22 E., Uintah County, Utah

Sample No.		Run No.	Yield of Products				Specific Gravity of Oil at 60°/60°F.		Properties of Spent Shale			Tendency to coke	Remarks
			Weight Percent		Spent Shale	Gas + Loss			Percent of Orig. Shale				
Laramie	Their		Oil	Water					Oil	Water	Ignition Loss	Ash	
SBR49-923	3440-3450	6996	0.3	1.4	98.0	0.3	0.6*	3.4	9.9	88.1	None		
SBR49-926	3450-3460	6999	.2	1.5	96.0	2.3	.6*	3.7	15.0	81.0	None		
SBR49-927	3460-3470	7000	1.4	1.1	96.9	.6	3.5*	2.5	13.7	83.2	None		
SBR49-928	3470-3480	7001	1.1	1.5	96.7	.7	2.7*	3.7	14.7	82.0	None		
SBR49-929	3480-3490	7002	1.3	1.5	96.7	.5	3.2*	3.6	14.9	81.8	None		
SBR49-930	3490-3500	7003	1.1	1.5	96.8	.6	2.7*	3.6	14.4	82.4	None		
SBR49-931	3500-3510	7004	1.0	1.5	96.8	.7	2.7*	3.5	12.8	84.0	None		
SBR49-932	3510-3520	7005	.8	1.6	97.6	.0	1.9*	3.7	12.0	85.6	None		
SBR49-933	3520-3530	7006	1.6	3.8	92.2	2.4	4.0*	9.1	13.5	78.7	None		
SBR49-934	3530-3540	7007	.9	6.9	88.0	4.2	2.3*	10.6	13.9	74.1	None		
SBR49-935	3540-3550	7008	.8	4.6	92.1	2.5	1.9*	11.0	13.2	78.9	None		
SBR49-936	3550-3560	7009	.8	2.6	95.7	.9	2.0*	6.1	13.6	82.1	None		
SBR49-937	3560-3570	7010	1.3	2.2	95.9	.6	3.3*	5.3	16.9	79.0	None		
SBR49-938	3570-3580	7011	1.1	2.4	95.6	.9	2.7*	5.8	14.4	81.2	None		
SBR49-939	3580-3590	7012	.9	2.4	95.7	1.0	2.3*	5.8	13.5	82.2	None		
SBR49-940	3590-3600	7013	.3	2.6	95.5	1.1	2.0*	6.2	13.4	82.1	None		
SBR49-941	3600-3610	7014	.5	2.6	95.9	1.0	1.2*	6.4	12.3	83.6	None		
SBR49-942	3610-3620	7015	.4	2.7	96.6	.3	1.0*	6.5	12.2	84.4	None		
SBR49-943	3620-3630	7016	1.2	2.1	96.0	.7	3.0*	5.2	12.9	83.1	None		
SBR49-944	3630-3640	7017	.6	2.7	95.9	.8	1.4*	6.6	11.8	84.1	None		
SBR49-945	3640-3650	7018	1.0	2.5	96.5	.0	2.4*	6.0	14.6	81.9	None		
SBR49-946	3650-3660	7019	1.2	2.4	95.9	.5	3.0*	5.8	14.3	81.1	None		
SBR49-947	3660-3670	7020	.8	2.9	95.3	1.0	2.0*	7.1	14.6	80.7	None		
SBR49-948	3670-3680	7021	1.2	2.1	96.5	.2	3.1*	4.9	16.5	80.0	None		
SBR49-949	3680-3690	7022	1.2	1.0	96.3	.1	3.0*	4.7	15.4	81.4	None		
SBR49-950	3690-3700	7023	1.0	2.0	96.5	.5	2.6*	4.6	15.1	81.4	None		
SBR49-951	3700-3710	7024	1.4	2.1	95.9	.6	3.4*	5.0	14.3	81.3	None		
SBR49-952	3710-3720	7025	1.1	2.2	95.8	.9	2.9*	5.3	14.4	81.4	None		
SBR49-953	3720-3730	7026	1.3	2.3	95.6	.3	3.4*	5.5	14.2	81.4	None		
SBR49-954	3730-3740	7027	1.2	2.2	95.8	.8	2.9*	5.3	14.1	81.7	None		

*Estimated

Samples received November 24, 1949; assays made on air dried samples.

OIL-SHALE ASSAYS BY THE MODIFIED FISCHER METHOD
 Samples From Seaboard Oil Company's No. 1 Well
 Located in Sec. 10, T. 110 S., R. 22 E., Uintah County, Utah

Sample no.	Run No.	Yield of Products				Specific Gravity of Oil at 60°/60°F.	Properties of Spent Shale							
		Weight Percent		Gal. per ton	Percent of Orig. Shale		Tendency to coke	Remarks						
		Oil	Water		Spent Shale				Gas + Loss	Oil	Water	Ignition Loss	Ash	
Laramie	Heir	No.	Oil	Water	Spent Shale	Gas + Loss	Oil	Water						
SBR49-955	3740-3750	7028	3.0	2.8	93.0	1.2	5.2	6.7	0.378	11.7	81.3	None		
SBR49-956	3750-3760	7029	3.3	3.0	92.5	1.2	5.1	7.2	.381	11.5	81.0	None		
SBR49-957	3760-3770	7030	2.3	3.2	92.5	1.1	7.6	7.7	.383	11.3	81.0	None		
SBR49-958	3770-3780	7031	3.0	3.3	92.5	1.2	3.2	7.0	.379	11.0	81.8	None		
SBR49-959	3780-3790	7032	3.1	3.3	92.3	1.3	5.4	7.8	.399	14.8	77.5	None		
SBR49-960	3790-3800	7033	2.7	3.1	92.0	1.1	7.2	6.0	.387	13.4	77.2	None		
SBR49-961	3800-3810	7034	1.1	5.4	91.5	1.3	4.4*	12.9		12.5	79.0	None		
SBR49-962	3810-3820	7035	2.0	2.8	94.4	1.0	5.0*	6.2		14.9	79.5	None		
SBR49-963	3820-3830	7036	1.3	3.2	94.4	1.1	3.4*	6.5		14.5	79.9	None		
SBR49-964	3830-3840	7037	1.5	2.8	94.5	1.2	3.9*	6.7		14.6	79.9	None		
SBR49-965	3840-3850	7038	4.0	1.7	92.0	1.7	10.0	4.0	.395	19.9	72.7	None		
SBR49-966	3850-3860	7039	1.7	2.2	95.1	1.0	4.3*	5.2		19.2	75.9	None		
SBR49-967	3860-3870	7040	.8	2.0	96.5	.7	2.0*	4.9		12.6	83.9	None		
SBR49-968	3870-3880	7041	.7	2.1	96.4	.8	1.7*	5.0		12.8	83.6	None		
SBR49-969	3880-3890	7042	.3	3.8	95.4	.5	.8*	9.1		9.7	85.7	None		
SBR49-970	3890-3900	7043	.4	6.2	90.7	.7	1.1*	19.5		8.4	62.3	None		
SBR49-971	3910-3920	7044	.7	3.6	95.0	.7	1.6*	3.6		9.6	85.4	None		
SBR49-972	3920-3930	7045	1.3	2.5	96.0	.2	3.3*	6.0		8.6	87.4	None		
SBR49-973	3930-3940	7046	.8	2.8	95.7	.7	2.1*	6.6		12.5	83.2	None		
SBR49-974	3940-3950	7047	.5	3.1	95.7	.7	1.2*	7.4		14.2	81.5	None		
SBR49-975	3950-3960	7048	.5	2.4	96.1	1.0	1.3*	5.8		10.7	85.4	None		
SBR49-976	3960-3970	7049	.3	2.2	96.9	.6	.7*	5.3		12.4	84.5	None		
SBR49-977	3970-3980	7050	.6	3.2	95.7	.5	1.4*	7.7		11.3	84.4	None		
SBR49-978	3980-3990	7051	.2	3.3	95.4	1.1	.6*	7.9		8.7	86.7	None		
SBR49-979	3990-4000	7052	.2	3.2	95.4	1.2	.4*	7.7		8.6	86.8	None		
SBR49-980	4000-4010	7053	.3	2.7	96.0	1.0	.3*	6.5		13.4	82.6	None		
SBR49-981	4010-4020	7054	.3	2.5	96.6	.6	.5*	6.0		15.3	81.3	None		
SBR49-982	4020-4030	7055	.7	1.5	96.5	1.0	1.3*	4.3		14.5	82.2	None		
SBR49-983	4030-4040	7056	.3	2.9	96.2	.6	.6*	7.0		12.1	84.1	None		
SBR49-984	4040-4050	7057	.1	3.5	95.8	.6	.2*	6.4		10.9	84.1	None		

*Estimated

Samples received November 24, 1940; assays made on air dried samples.