

## OIL-SHALE ASSAYS BY THE MODIFIED FISCHER RETORT METHOD

Samples from Continental Oil Company's Watson Unit No. 2. Located in the SW 1/4, SW 1/4 of Sec. 14, T. 10 S., R. 24 E.  
 Uintah County, Utah Starting elevation 5247 feet

Elevation 5247'

mahogany marker #397'

				Yield of product						Specific	Properties of spent shale			
				Weight percent		Gas *		Gal. per ton		gravity	Percent of orig. shale			
Sample number	Run				Spent	Gas				of oil at	Ignition	Ash	Tendency	Remarks
Laramie	Their	No.	Oil	Water	shale	Loss	Oil	Water	60°/60°F.	loss				
SBR52-28	270-280	16184	0.4	1.1	98.2	0.3	0.9*	2.6			11.3	86.9	None	
SBR52-29	280-290	16185	.2	2.9	96.4	.5	.4*	7.0			11.9	84.5	"	
SBR52-30	290-300	16186	.8	1.9	96.9	.4	1.9*	4.6			14.2	82.7	"	
SBR52-31	300-310	16187	1.1	1.1	97.0	.8	2.7*	2.6			13.1	83.9	"	
SBR52-32	310-320	16188	1.2	1.4	97.2	.2	2.9*	3.5			14.1	83.1	"	
SBR52-33	320-330	16189	1.8	1.4	96.3	.5	4.4*	3.2			18.7	77.6	"	
SBR52-34	330-340	16190	2.2	1.2	96.1	.5	5.6	2.9	0.933		20.7	75.4	"	
SBR52-35	340-350	16191	2.2	1.1	96.0	.7	5.6	2.6	.938		19.7	76.3	"	
SBR52-36	350-360	16192	2.4	1.2	95.9	.5	6.2	2.8	.941		19.5	76.4	"	
SBR52-37	360-370	16193	2.5	.6	95.9	1.0	6.4	1.4	.944		20.6	75.3	"	
SBR52-38	370-380	16194	.9	1.6	97.2	.3	2.3*	3.8			11.5	85.7	"	
SBR52-39	430-440	16195	4.3	.6	94.1	1.0	11.2	1.3	.929		18.3	75.8	"	
SBR52-40	440-450	16196	2.2	.3	97.0	.5	5.6	.7	.930		18.4	78.6	"	
SBR52-41	450-460	16197	3.0	.4	95.7	.9	7.6	.8	.930		18.8	76.9	"	
SBR52-42	460-470	16198	2.3	.2	96.7	.8	5.8	.5	.932		19.9	76.8	"	
SBR52-43	470-480	16199	3.5	.2	95.4	.9	8.9	.5	.931		22.3	73.1	"	
SBR52-44	480-490	16200	4.4	.4	94.6	.6	11.3	.8	.929		20.9	73.7	"	
SBR52-45	490-500	16201	3.5	.3	95.6	.6	8.9	.7	.929		22.5	73.1	"	
SBR52-46	500-510	16202	3.5	.4	95.0	1.1	9.1	.8	.935		22.6	72.4	"	
SBR52-47	510-520	16203	4.2	.3	94.5	1.0	10.8	.7	.935		25.7	68.8	"	
SBR52-48	520-530	16204	3.9	.2	95.1	.8	10.1	.5	.931		25.0	70.1	"	
SBR52-49	530-540	16205	3.6	.3	95.1	1.0	9.3	.6	.931		21.4	73.7	"	
SBR52-50	540-550	16206	3.2	.1	95.9	.8	8.2	.2	.924		22.4	73.5	"	
SBR52-51	550-560	16207	3.4	.1	95.7	.6	8.8	.6	.927		25.0	70.7	"	
SBR52-52	560-570	16208	2.5	.4	96.3	.8	6.4	.8	.930		20.9	75.4	"	
SBR52-53	570-580	16209	2.5	.5	96.5	.5	6.4	1.1	.930		19.2	77.3	"	
SBR52-54	580-590	16210	3.1	.3	95.7	.9	7.8	.7	.934		21.3	74.4	"	
SBR52-55	590-600	16211	3.7	.3	95.1	.9	9.5	.7	.937		22.5	72.6	"	
SBR52-56	600-610	16212	3.3	.3	95.0	.9	9.7	.8	.923		21.0	74.0	"	
SBR52-57	610-620	16213	3.2	.3	95.8	.7	8.1	.7	.926		21.0	74.8	"	

\*Estimated

Core drill cuttings received October 19, 1951; assays made on air-dried samples.

Petroleum

-Shale Experiment Station, Laramie, Wyoming, Illustration No. S.B.R.-46P

February

## OIL-SHALE ASSAYS BY THE MODIFIED FISCHER RETORT METHOD

Samples from Continental Oil Company's Watson Unit No. 2. Located in the SW 1/4, SW 1/4 of Sec. 14, T. 10 S., R. 24 E.  
 Uintah County, Utah Starting elevation 5247 feet

Sample number		Run No.	Yield of product				Specific gravity of oil at 60°/60°F.		Properties of spent shale			Remarks	
			Weight percent		Gal. per ton				Percent of orig. shale		Tendency to coke		
Laramie	Their		Oil	Water	Spent shale	Gas + loss	Oil	Water	Ignition loss	Ash			
SBR52-58	620-630	16214	3.7	0.4	95.2	0.7	9.5	0.8	0.925	21.5	73.7	None	
SBR52-59	630-640	16215	3.7	.3	95.1	.9	9.4	.7	.931	22.6	72.5	"	
SBR52-60	640-650	16216	4.4	.4	94.0	1.2	11.4	30 1.0	.922	23.8	70.2	"	
SBR52-61	650-660	16217	7.0	.6	90.7	1.7	18.4	159 1.4	.916	21.1	69.6	"	
SBR52-62	660-670	16218	6.3	.6	91.6	1.5	16.4	1.3	.920	20.3	71.3	"	
SBR52-63	670-680	16219	3.7	.6	94.7	1.0	9.8	1.4	.919	18.1	75.9	"	
SBR52-64	680-690	16220	3.5	.5	94.8	1.2	9.2	1.1	.920	20.0	74.8	"	
SBR52-65	690-700	16221	3.8	.6	94.5	1.1	9.8	1.3	.922	20.7	73.3	"	
SBR52-66	700-710	16222	4.9	.6	93.1	1.4	12.7	1.4	.924	19.2	73.9	"	
SBR52-67	710-720	16223	3.5	.5	94.9	1.1	9.1	1.2	.925	22.3	76.6	"	
SBR52-68	720-730	16224	5.4	.6	92.7	1.3	14.0	1.3	.922	22.9	69.8	"	
SBR52-69	730-740	16225	4.4	.4	94.1	1.1	11.5	1.0	.925	21.5	72.6	"	
SBR52-70	740-750	16226	4.3	.4	94.3	1.0	11.1	1.0	.932	24.7	69.6	"	
SBR52-71	750-760	16227	3.7	.3	95.0	1.0	9.4	.7	.927	25.8	69.2	"	
SBR52-72	760-770	16228	4.4	.3	94.1	1.2	11.3	.7	.930	25.1	69.0	"	
SBR52-73	770-780	16229	5.1	.4	93.0	1.5	13.3	.8	.925	25.4	67.6	"	
SBR52-74	780-790	16230	3.4	.3	95.1	1.2	8.8	.6	.930	22.9	72.2	"	
SBR52-75	790-800	16231	6.5	.3	91.6	1.6	16.8	220 1.6	.926	25.1	66.5	"	
SBR52-76	800-810	16232	5.1	.2	93.6	1.1	13.2	159 1.5	.919	25.9	67.7	"	
SBR52-77	810-820	16233	2.7	.3	96.0	1.0	7.0	.6	.921	21.6	74.4	"	
SBR52-78	820-830	16234	6.6	.5	91.1	1.8	17.2	1.2	.920	23.9	67.2	"	
SBR52-79	830-840	16235	8.0	.5	89.5	2.0	20.8	1.2	.915	22.2	67.3	"	
SBR52-80	840-850	16236	8.4	.5	89.5	1.6	22.0	22+ 1.1	.913	25.1	64.4	"	
SBR52-81	850-860	16237	11.2	.6	85.2	3.0	29.3	259 1.4	.918	23.7	61.5	Slight	
SBR52-82	860-870	16238	7.6	.4	90.2	1.8	19.8	1.0	.925	28.3	61.9	None	
SBR52-83	870-880	16239	7.6	.4	90.5	1.5	19.8	1.8	.918	28.0	62.5	"	
SBR52-84	880-890	16240	6.0	.3	92.6	1.1	15.8	9 1.6	.914	25.1	67.5	"	
SBR52-85	890-900	16241	7.9	.3	90.3	1.5	20.5	.7	.917	27.7	62.6	"	
SBR52-86	900-910	16242	5.0	.3	93.2	1.5	13.1	.7	.920	24.2	69.0	"	
SBR52-87	910-920	16243	4.6	.6	93.6	1.2	12.2	1.3	.915	24.9	68.7	"	

\*Estimated Core drill cuttings received October 19, 1951; assays made on air-dried samples.

## OIL-SHALE ASSAYS BY THE MODIFIED FISCHER RETORT METHOD

Samples from Continental Oil Company's Watson Unit No. 2. Located in the SW 1/4, SW 1/4 of Sec. 14, T. 10 S., R. 24 E.  
 Uintah County, Utah Starting elevation 5247 feet

Sample number		Run No.	Yield of product					Specific gravity of oil at 60°/60°F.	Properties of spent shale			Remarks	
			Weight percent		Gal. per ton		Percent of orig. shale						
			Oil	Water	Spent shale	Gas + loss	Oil		Water	Ignition loss	Ash		Tendency to coke
Laramie	Their												
SBR52-88	920-930	16244	3.6	0.7	95.1	0.6	9.2	1.6	0.928	25.4	69.7	None	
SBR52-89	930-940	16245	3.8	.8	94.6	.8	9.7	1.9	.927	23.2	71.4	"	
SBR52-90	940-950	16246	1.7	1.2	96.5	.6	4.4*	2.9		16.6	79.9	"	
SBR52-91	950-960	16247	1.6	.8	97.3	.3	4.1*	1.8		19.8	77.5	"	
SBR52-92	960-970	16248	1.0	.9	97.7	.4	2.5*	2.0		19.4	78.3	"	
SBR52-93	970-980	16249	4.4	.6	93.9	1.1	11.6	1.4	.917	23.3	70.6	"	
SBR52-94	980-990	16250	3.5	.6	95.0	.9	9.1	1.3	.915	25.7	69.3	"	
SBR52-95	990-1000	16251	3.3	.5	95.4	.8	8.5	1.2	.916	25.5	69.9	"	
SBR52-96	1000-1010	16252	4.7	.8	93.1	1.4	12.3	1.8	.914	24.2	68.9	"	
SBR52-97	1010-1020	16253	4.7	.9	93.3	1.1	12.3	2.0	.921	24.2	69.1	"	
SBR52-98	1020-1030	16254	3.2	.8	95.4	.7	8.3	1.8	.919	25.2	70.2	"	
SBR52-99	1030-1040	16255	4.3	1.3	93.4	1.0	11.2	3.1	.918	23.9	69.5	"	
SBR52-100	1040-1050	16256	2.3	1.5	95.3	.9	6.0	3.6	.923	19.3	76.0	"	
SBR52-101	1050-1060	16257	.9	1.8	96.6	.7	2.3*	4.3		13.9	82.7	"	
SBR52-102	1060-1070	16258	2.2	1.5	95.4	.9	5.6	3.6	.929	19.4	76.0	"	
SBR52-103	1070-1080	16259	3.7	1.3	94.1	.9	9.6	3.1	.928	24.8	69.3	"	
SBR52-104	1080-1090	16260	4.0	1.2	93.8	1.0	10.4	2.9	.922	25.4	68.4	"	
SBR52-105	1090-1100	16261	2.0	2.3	94.6	1.1	5.3	5.5	.906	14.7	79.9	"	
SBR52-106	1100-1110	16262	1.3	1.8	96.2	.7	3.4	4.3		19.1	77.1	"	
SBR52-107	1110-1120	16263	1.1	2.7	95.5	.7	2.8	6.5		12.0	83.5	"	
SBR52-108	1120-1130	16264	3.9	1.7	93.6	.8	10.3	4.0	.917	19.2	74.4	"	
SBR52-109	1130-1140	16265	2.5	1.8	94.8	.9	6.5	4.3	.927	18.6	76.2	"	
SBR52-110	1140-1150	16266	2.5	2.2	94.0	1.3	6.5	5.3	.922	12.1	81.9	"	
SBR52-111	1150-1160	16267	4.7	2.7	91.2	1.4	12.3	6.5	.913	13.0	78.2	"	
SBR52-112	1160-1170	16268	2.4	1.1	95.7	.8	6.4	2.6	.918	21.4	74.3	"	
SBR52-113	1170-1180	16269	2.1	.8	96.3	.8	5.4	1.8	.913	22.1	74.2	"	
SBR52-114	1180-1190	16270	1.0	.9	97.6	.5	2.5*	2.2		20.2	77.4	"	
SBR52-115	1190-1200	16271	1.9	1.2	96.3	.6	4.7*	2.9		18.3	78.0	"	
SBR52-116	1200-1210	16272	1.8	.8	96.8	.6	4.5*	1.8		22.1	74.7	"	
SBR52-117	1210-1220	16273	1.7	.9	96.7	.7	4.2*	2.2		22.3	74.4	"	

\*Estimated Core drill cuttings received October 19, 1951; assays made on air-dried samples.

## OIL-SHALE ASSAYS BY THE MODIFIED FISCHER RETORT METHOD

Samples from Continental Oil Company's Watson Unit No. 2. Located in the SW 1/4, SW 1/4 of Sec. 14, T. 10 S., R. 24 E.  
 Uintah County, Utah Starting elevation 5247 feet

Sample number		Run No.	Yield of product				Specific gravity of oil at 60°/60°F.	Properties of spent shale			Remarks		
			Weight percent		Gal. per ton			Percent of orig. shale		Tendency to coke			
			Oil	Water	Spent shale	Gas + loss		Oil	Water			Ignition loss	Ash
Laramie	Their												
SBR52-118	1220-1226	16274	1.3	1.6	96.3	0.8	3.2*	3.8		18.9	77.4	None	
SBR52-119	1226-1240	16275	1.8	1.4	96.0	.8	4.5*	3.4		17.8	78.2	"	
SBR52-120	1240-1250	16276	1.5	1.2	96.8	.5	3.8*	2.9		23.3	73.5	"	
SBR52-121	1250-1260	16277	3.3	2.0	94.0	.7	8.6	4.8	0.913	21.2	72.8	"	
SBR52-122	1260-1270	16278	4.0	1.5	93.5	1.0	10.4	3.6	.912	20.1	73.4	"	
SBR52-123	1270-1280	16279	3.7	1.3	94.0	1.0	9.7	3.1	.914	19.0	75.0	"	
SBR52-124	1280-1287	16280	4.4	2.0	92.4	1.2	11.6	4.8	.909	13.1	79.3	"	
SBR52-125	1287-1295	16281	4.3	1.5	93.0	1.2	11.4	3.6	.907	20.4	72.6	"	
SBR52-126	1295-1300	16282	5.6	1.5	91.8	1.1	14.7	3.6	.908	20.5	71.3	"	
SBR52-127	1300-1310	16283	3.9	1.4	94.1	.6	10.2	3.2	.913	20.8	73.3	"	
SBR52-128	1310-1320	16284	4.1	1.3	92.4	2.2	10.8	3.1	.910	23.1	69.3	"	
SBR52-129	1320-1330	16285	3.1	1.6	94.3	1.0	8.2	3.3	.906	21.4	72.9	"	
SBR52-130	1330-1340	16286	1.3	2.3	95.4	1.0	3.4*	5.5		17.6	77.8	"	
SBR52-131	1340-1350	16287	.4	3.0	95.5	1.1	1.1*	7.2		11.3	84.2	"	
SBR52-132	1350-1360	16288	2.9	1.8	94.3	1.0	7.5	4.3	.917	21.5	72.8	"	
SBR52-133	1360-1370	16289	3.3	1.5	94.0	1.2	8.6	3.6	.916	23.3	70.7	"	
SBR52-134	1370-1380	16290	2.9	1.5	94.5	1.1	7.6	3.6	.908	20.3	74.2	"	
SBR52-135	1380-1390	16291	5.3	1.6	91.5	1.6	13.9	3.8	.912	20.7	70.8	"	
SBR52-136	1390-1400	16292	3.5	2.0	92.3	1.7	9.2	4.8	.914	15.6	77.2	"	
SBR52-137	1400-1407	16293	1.4	1.4	96.5	.7	3.5*	3.4		26.2	70.3	"	
SBR52-138	1407-1420	16294	.9	1.7	96.7	.7	2.1*	4.2		21.3	75.4	"	
SBR52-139	1420-1430	16295	3.1	1.7	94.3	.9	8.1	4.1	.908	21.4	72.9	"	
SBR52-140	1430-1440	16296	2.7	1.3	94.9	1.1	7.2	3.0	.907	24.1	70.8	"	
SBR52-141	1440-1450	16297	.8	1.5	97.0	.7	1.9*	3.6		21.7	75.3	"	
SBR52-142	1450-1460	16298	1.1	1.8	96.4	.7	2.9*	4.4		19.0	77.4	"	
SBR52-143	1460-1470	16299	1.5	1.7	96.1	.7	3.7*	4.1		20.5	75.6	"	
SBR52-144	1470-1480	16300	1.1	1.0	97.2	.7	2.7*	2.4		25.6	71.6	"	
SBR52-145	1480-1490	16301	.6	1.2	97.6	.6	1.5*	2.9		18.5	79.1	"	
SBR52-146	1490-1500	16302	.4	1.3	97.6	.7	1.0*	3.1		13.2	84.4	"	
SBR52-147	1500-1510	16303	.1	1.9	97.5	.5	.2*	4.6		10.9	86.6	"	

\*Estimated Core drill cuttings received October 19, 1951; assays made on air-dried samples.

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Samples from Continental Oil Company's Watson Unit No. 2. Located in the SW 1/4, SW 1/4 of Sec. 14, T. 10 S., R. 24 E.  
 Uintah County, Utah Starting elevation 5247 feet

Sample number	Run	No.	Yield of product				Cal. per ton		Specific gravity of oil at 60°/60°F.	Properties of spent shale			Remarks	
			Weight percent		Spent shale	Gas loss	Oil	Water		Percent of orig. shale	Ignition loss	Ash		Tendency to coke
			Oil	Water										
Laramie	Their													
SBR52-148	1510-1520	16304	0.4	2.1	96.7	0.8	1.1*	5.0			16.5	80.2	None	
SBR52-149	1520-1530	16305	.2	1.4	97.5	.9	.6*	3.4			13.4	84.1	"	
SBR52-150	1530-1540	16306	.1	1.6	97.8	.5	.1*	3.8			8.4	89.4	"	
SBR52-151	1540-1550	16307	.1	2.4	96.7	.8	.2*	5.8			7.9	88.8	"	
SBR52-152	1550-1560	16308	.2	2.5	96.7	.6	.6*	6.0			11.9	84.8	"	
SBR52-153	1560-1570	16309	.7	1.7	97.0	.6	1.7*	4.1			17.8	79.2	"	
SBR52-154	1570-1580	16310	.3	1.8	97.5	.4	.7*	4.2			17.2	80.3	"	
SBR52-155	1580-1590	16311	Trace	1.9	97.5	.6	Trace	4.6			17.2	80.3	"	
SBR52-156	1590-1600	16312	.1	1.2	98.3	.4	.3*	2.9			12.2	86.1	"	
SBR52-157	1600-1610	16313	None	.5	99.1	.4	None	1.2			8.2	90.9	"	
SBR52-158	1610-1620	16314	None	.9	98.9	.2	None	2.2			9.3	89.6	"	
SBR52-159	1620-1630	16315	.1	1.1	98.2	.6	.2*	2.6			10.1	88.1	"	
SBR52-160	1630-1640	16316	.3	1.8	97.7	.2	.6*	4.3			12.3	85.4	"	
SBR52-161	1640-1650	16317	.1	1.9	97.3	.7	.3*	4.6			15.6	81.7	"	
SBR52-162	1650-1660	16318	.3	.8	98.5	.4	.8*	1.9			19.1	79.4	"	
SBR52-163	1660-1670	16319	Trace	1.3	98.5	.2	Trace	3.1			20.1	78.4	"	
SBR52-164	1670-1680	16320	.1	1.0	98.7	.2	.3*	2.3			20.7	78.0	"	
SBR52-165	1680-1690	16321	.2	1.1	98.4	.3	.4*	2.6			14.7	83.7	"	
SBR52-166	1690-1700	16322	Trace	1.3	98.7	.0	Trace	3.1			15.9	82.8	"	
SBR52-167	1700-1710	16323	.2	1.1	98.4	.3	.5*	2.6			11.4	87.0	"	
SBR52-168	1710-1720	16324	.2	1.2	98.0	.6	.6*	2.9			10.4	87.6	"	
SBR52-169	1720-1730	16325	1.2	2.0	95.7	1.1	3.1*	4.7			10.3	85.4	"	
SBR52-170	1730-1740	16326	.6	1.4	97.5	.5	1.4*	3.4			13.1	84.4	"	
SBR52-171	1740-1750	16327	1.0	1.2	97.2	.6	2.4*	2.8			10.9	86.3	"	
SBR52-172	1750-1760	16328	.5	1.7	97.3	.5	1.2*	4.1			13.0	84.3	"	
SBR52-173	1760-1770	16329	1.7	1.9	95.5	.9	4.2*	4.6			16.2	79.3	"	
SBR52-174	1770-1780	16330	3.4	1.3	94.5	.8	9.1	3.1	0.902		23.8	70.7	"	
SBR52-175	1780-1790	16331	.8	1.4	97.3	.5	1.9*	3.4			18.9	78.4	"	
SBR52-176	1790-1800	16332	.3	1.5	97.8	.4	.8*	3.6			15.8	82.0	"	
SBR52-177	1800-1810	16333	.2	2.1	97.3	.4	.4*	5.0			12.0	85.3	"	

\*Estimated

Core drill cuttings received October 19, 1951; assays made on air-dried samples.

## OIL-SHALE ASSAYS BY THE MODIFIED FISCHER RETORT METHOD

Samples from Continental Oil Company's Watson Unit No. 2. Located in the SW 1/4, SW 1/4 of Sec. 14, T. 10 S., R. 24 E.  
 Uintah County, Utah Starting elevation 5247 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		Percent of orig. shale		Tendency to coke
Laramie	Their		Oil	Water					Oil	Water	Ignition loss	Ash	
SBR52-178	1810-1820	16334	2.0	1.6	95.8	0.6	5.4	3.8	0.904	25.1	70.7	None	
SBR52-179	1820-1830	16335	.7	1.5	97.6	.2	1.7*	3.6		18.3	79.3	"	
SBR52-180	1830-1840	16336	.4	.9	98.1	.6	1.1*	2.1		12.5	85.6	"	
SBR52-181	1840-1850	16337	.2	.4	99.3	.1	.5*	1.0		7.8	91.5	"	
SBR52-182	1850-1860	16338	.3	1.6	97.6	.5	.7*	3.8		10.3	87.3	"	
SBR52-183	1860-1870	16339	.1	2.0	97.6	.3	.1*	4.8		10.8	86.8	"	
SBR52-184	1870-1880	16340	.2	.8	99.0	.0	.5*	1.9		19.9	79.1	"	
SBR52-185	1880-1890	16341	.1	1.8	98.1	.0	.2*	4.3		15.2	82.9	"	
SBR52-186	1890-1900	16342	1.2	1.2	97.5	.1	3.1*	2.9		14.3	83.2	"	
SBR52-187	1900-1910	16343	.5	1.1	98.2	.2	1.4*	2.6		12.4	85.8	"	
SBR52-188	1910-1920	16344	.4	1.1	98.4	.1	1.1*	2.6		11.0	87.4	"	
SBR52-189	1920-1930	16345	.4	.9	98.2	.5	.9*	2.0		9.1	89.1	"	
SBR52-190	1930-1940	16346	.2	2.3	96.9	.6	.5*	5.6		8.6	88.3	"	
SBR52-191	1940-1950	16347	None	1.2	98.7	.1	None	2.9		8.6	90.1	"	
SBR52-192	1950-1960	16348	None	1.7	97.6	.7	None	4.1		9.5	88.1	"	
SBR52-193	1960-1970	16349	.3	.8	98.3	.6	.8*	1.9		9.4	88.9	"	
SBR52-194	1970-1980	16350	.8	1.3	97.1	.8	2.1*	3.1		11.6	85.5	"	
SBR52-195	1980-1990	16351	.5	1.5	97.3	.7	1.2*	3.6		11.1	86.2	"	
SBR52-196	1990-2000	16352	.2	1.1	97.9	.8	.6*	2.6		8.1	89.8	"	
SBR52-197	2000-2010	16353	.3	.4	99.0	.3	.6*	.8		6.3	92.7	"	
SBR52-198	2010-2020	16354	.1	1.8	97.4	.7	.3*	4.3		8.3	89.1	"	
SBR52-199	2020-2030	16355	1.8	1.3	96.3	.6	4.6*	3.1		20.0	76.3	"	
SBR52-200	2030-2040	16356	1.0	1.2	97.3	.5	2.4*	2.9		19.4	77.9	"	
SBR52-201	2040-2050	16357	.4	1.3	97.8	.5	1.1*	3.1		9.5	88.3	"	
SBR52-202	2050-2060	16358	.1	.5	99.1	.3	.1*	1.1		8.1	91.0	"	
SBR52-203	2060-2070	16359	.1	.7	99.1	.1	.2*	1.6		11.6	87.5	"	
SBR52-204	2070-2080	16360	.6	1.3	97.5	.6	1.5*	3.1		13.8	83.7	"	
SBR52-205	2080-2090	16361	.8	1.1	97.8	.3	2.0*	2.6		12.4	85.4	"	
SBR52-206	2090-2100	16362	.4	1.0	97.7	.9	1.0*	2.4		10.9	86.8	"	
SBR52-207	2100-2110	16363	1.2	1.4	96.8	.6	3.0*	3.4		10.4	86.4	"	

\*Estimated Core drill cuttings received October 19, 1951; assays made on air-dried samples.

## OIL-SHALE ASSAYS BY THE MODIFIED FISCHER RETORT METHOD

Samples from Continental Oil Company's Watson Unit No. 2. Located in the SW 1/4, SW 1/4 of Sec. 14, T. 10 S., R. 24 E.  
 Uintah County, Utah Starting elevation 5247 feet

Sample number		Run No.	Yield of product				Specific gravity of oil at 60°/60°F.		Properties of spent shale			Remarks
			Weight percent		Gal. per ton				Percent of orig. shale		Tendency to coke	
Laramie	Their		Oil	Water	Spent shale	Gas + loss	Oil	Water	Ignition loss	Ash		
SBR52-208	2110-2120	16364	0.3	1.5	97.8	0.4	0.8*	3.6	16.6	81.2	None	
SBR52-209	2120-2130	16365	.5	1.8	97.2	.5	1.2*	4.3	15.4	81.8	"	
SBR52-210	2130-2140	16366	.1	1.8	97.7	.4	.2*	4.2	9.3	83.4	"	
SBR52-211	2140-2150	16367	.1	1.6	98.0	.3	.2*	3.8	9.5	88.5	"	
SBR52-212	2150-2160	16368	.1	1.8	97.8	.3	.3*	4.3	10.4	87.4	"	
SBR52-213	2160-2170	16369	.6	2.0	97.1	.3	1.5*	4.8	11.3	85.8	"	
SBR52-214	2170-2180	16370	.5	2.0	97.1	.4	1.2*	4.8	18.2	78.9	"	

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Petroleum and Oil-Shale Experiment Station, Laramie, Wyoming, Illustration No. S.B.R.-852P

February 15, 1952