

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Belco Petroleum Corporation's Belco-Texota No. 1 well drilled in  
SW 1/4, NE 1/4, SW 1/4, (1332 feet N/S 1466 feet E/W) of sec. 8, T. 10 S., R. 23 E., Uintah County, Utah

Derrick Floor elevation 5,335 feet

Sample number		Run No.	Yield of product				Specific gravity		Properties of spent shale	Remarks
			Weight percent		Spent shale	Gas + loss	Gal. per ton			
Laramie	Their		Oil	Water					Oil	Water
SBR62-4742	1360-1370						c			
SBR62-4743	1370-1380	79469	2.1	0.5	97.1	0.3	5.4a	1.2		None
SBR62-4744	1400-1410	79470	3.2	.3	96.0	.5	8.3a	.6		None
SBR62-4745	1420-1430	79471	3.2	.3	96.2	.3	8.3a	.7		None
SBR62-4746	1430-1440	79472	3.3	.3	95.6	.8	8.6	.7	0.927	None
SBR62-4747	1440-1450	79473	3.0	.1	96.8	.1	7.7a	.3		None
SBR62-4748	1450-1460	79474	2.7	.3	96.5	.5	6.9	.7	.926	None
SBR62-4749	1460-1470	79475	3.1	.3	96.0	.6	8.0	.7	.925	None
SBR62-4750	1470-1480	79476	3.1	.3	95.9	.7	8.1	.6	.925	None
SBR62-4751	1630-1640	79477	4.9	.3	94.1	.7	12.7	.6	.932	None
SBR62-4752	1640-1650	79478	4.8	.4	93.7	1.1	12.5	.8	.929	None
SBR62-4753	1650-1660	79479	5.1	.6	93.7	.6	13.1	1.4	.931	None
SBR62-4754	1660-1670	79480	8.8	.8	88.9	1.5	23.1	1.9	.916	None
SBR62-4755	1670-1680	79481	2.7	.3	96.6	.4	7.2	.6	.916	None
SBR62-4756	1690-1700	79482	6.9	.9	90.4	1.8	18.1	2.1	.919	None
SBR62-4757	1700-1710	79483	2.8	.4	96.4	.4	7.2a	.9		None
SBR62-4758	1710-1720	79484	3.5	.4	95.5	.6	9.0	1.0	.925	None
SBR62-4759	1720-1730	79485	4.0	.5	93.9	1.6	10.3	1.2	.926	None
SBR62-4760	1730-1740	79486	4.3	.4	94.3	1.0	11.0	1.0	.925	None
SBR62-4761	1740-1750	79487	4.1	.5	94.0	1.4	10.6	1.2	.932	None
SBR62-4762	1750-1760	79488	4.6	.3	95.0	.1	11.9	.7	.932	None
SBR62-4763	1760-1770	79489	4.7	.1	94.5	.7	12.2	.2	.930	None
SBR62-4764	1770-1780	79490	4.6	.2	94.0	1.2	11.8	.6	.929	None
SBR62-4765	1780-1790	79491	4.6	.3	94.4	.7	11.8	.6	.923	None
SBR62-4766	1790-1800	79492	4.5	.3	94.0	1.2	11.7	.7	.924	None
SBR62-4767	1800-1810	79493	6.1	.8	91.8	1.3	15.8	2.0	.921	None
SBR62-4768	1810-1820	79494	6.1	.8	91.3	1.8	15.8	1.8	.924	None
SBR62-4769	1820-1830	79495	5.9	.5	91.9	1.7	15.4	1.2	.918	Slight
SBR62-4770	1830-1840	79496	6.0	.6	91.8	1.6	15.6	1.4	.920	None
SBR62-4771	1840-1850	79497	6.0	.8	91.2	2.0	15.7	1.8	.922	None

See footnotes at end of table.

Drill cutting samples received February 13, 1962; assays made on air-dried samples

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Belco Petroleum Corporation's Belco-Texota No. 1 well (Con.)

Derrick Floor elevation 5,335 feet

			Yield of product						Specific gravity of oil at 60°/60° F.	Properties of spent shale		Remarks
			Weight percent			Gal. per ton				Tendency to		
Sample number		Run No.	Oil	Water	Spent shale	Gas + loss	Oil	Water		coke		
Laramie	Their											
SBR62-4772	1850-1860	79498	5.8	0.8	91.1	2.3	15.1	1.8	0.921	None		
SBR62-4773	1860-1870	79499	6.4	.6	90.9	2.1	16.7	1.3	.922	None		
SBR62-4774	1870-1880	79500	6.2	.6	91.1	2.1	16.1	1.6	.921	None		
SBR62-4775	1880-1890	79501	6.4	.6	90.3	2.7	16.6	1.4	.918	None		
SBR62-4776	1890-1900	79502	6.5	.5	90.9	2.1	16.9	1.2	.924	None		
SBR62-4777	1900-1910	79503	6.7	.8	90.3	2.2	17.5	1.8	.919	None		
SBR62-4778	1910-1920	79504	6.5	.6	91.6	1.3	16.9	1.4	.914	None		
SBR62-4779	1920-1930	79505	5.9	.7	92.0	1.4	15.6	1.7	.915	None		
SBR62-4780	1940-1950	79506	4.8	.5	93.5	1.2	12.6	1.3	.911	None		
SBR62-4781	1950-1960	79507	4.9	.6	93.9	.6	12.9	1.3	.915	None		
SBR62-4782	1960-1970	79508	1.8	.3	96.9	1.0	4.6a	.7		None		
SBR62-4783	1970-1980	79509	2.0	.3	97.1	.6	5.1a	.7		None		
SBR62-4784	1980-1990	79510	2.1	.1	97.0	.8	5.6	.2	.913	None		
SBR62-4785	1990-2000	79511	2.1	.3	97.0	.6	5.5	.8	.913	None		
SBR62-4786	2000-2010	79512	1.8	.2	97.5	.5	4.8a	.6		None		
SBR62-4787	2010-2020	79513	3.5	.3	95.2	1.0	9.1	.7	.907	None		
SBR62-4788	2020-2030	79514	4.0	.5	94.6	.9	10.7	1.3	.902	None		
SBR62-4789	2030-2040	79515	4.2	.7	94.0	1.1	11.0	1.8	.911	None		
SBR62-4790	2040-2050	79516	2.9	1.0	95.4	.7	7.7	2.4	.910	None		
SBR62-4791	2050-2060	79517	4.6	.7	93.7	1.0	12.0	1.7	.914	None		
SBR62-4792	2060-2070	79518	4.6	.5	94.1	.8	12.2	1.2	.910	None		
SBR62-4793	2070-2080	79519	4.8	.5	93.6	1.1	12.7	1.2	.908	None		
SBR62-4794	2080-2090	79520	4.2	.3	94.3	1.2	10.9a	.8		None		
SBR62-4795	2090-2100	79521	2.0	1.6	96.0	.4	5.2a	3.8		None		
SBR62-4796	2100-2110	79522	1.8	1.5	96.1	.6	4.8a	3.6		None		
SBR62-4797	2110-2120	79523	3.5	1.0	94.7	.8	9.3	2.3	.914	None		
SBR62-4798	2150-2160	79524	.6	1.4	97.8	.2	1.6a	3.3		None		
SBR62-4799	2170-2180	79525	2.4	1.4	95.4	.8	6.3a	3.3		None		
SBR62-4800	2180-2190						Assay					
SBR62-4801	2190-2200	79526	2.4	1.3	95.6	.7	6.2a	3.0		None		

See footnotes at end of table.

Drill cutting samples received February 13, 1962; assays made on air-dried samples

Laramie Petroleum Research Center, Laramie, Wyoming, Illustration No. SBR-3581P, Sheet No. 2 of 6 sheets March 28, 1962

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Belco Petroleum Corporation's Belco-Texta No. 1 well (Con.)

Derrick Floor elevation 5,335 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		Spent shale	Gas + loss	Gal. per ton		Tendency to coke	
			Oil	Water			Oil	Water		
SBR62-4802	2200-2210	79527	2.3	1.0	96.4	0.3	5.9a	2.4		None
SBR62-4803	2110-2220						Assay			
SBR62-4804	2220-2230	79528	2.2	.8	96.7	.3	5.8a	2.0		None
SBR62-4805	2230-2240						Assay			
SBR62-4806	2240-2250	79529	1.6	.7	97.3	.4	4.2a	1.8		None
SBR62-4807	2250-2260	79530	2.5	1.0	96.1	.4	6.5a	2.3		None
SBR62-4808	2260-2270	79531	1.9	.8	97.0	.3	5.0a	1.8		None
SBR62-4809	2270-2280						Assay			
SBR62-4810	2280-2290	79532	2.2	1.1	96.1	.6	5.7a	2.7		None
SBR62-4811	2290-2300	79533	2.4	.8	96.7	.1	6.2a	2.0		None
SBR62-4812	2300-2310	79534	2.4	1.0	96.0	.6	6.2a	2.4		None
SBR62-4813	2310-2320	79535	2.4	1.0	95.8	.8	6.4a	2.3		None
SBR62-4814	2330-2340	79536	3.3	.8	93.8	2.1	8.5	2.0	0.915	None
SBR62-4815	2340-2350	79537	3.4	.9	94.5	1.2	8.7	2.3	.922	None
SBR62-4816	2350-2360	79538	3.5	1.0	94.9	.6	9.2	2.4	.921	None
SBR62-4817	2360-2370	79539	2.8	1.4	94.9	.9	7.4a	3.3		None
SBR62-4818	2370-2380	79540	.9	1.5	97.0	.6	2.2a	3.6		None
SBR62-4819	2380-2390						b			
SBR62-4820	2390-2400	79541	1.1	1.5	96.6	.8	2.8a	3.6		None
SBR62-4821	2400-2410	79542	1.1	1.5	96.8	.6	2.8a	3.6		None
SBR62-4822	2410-2420	79543	1.5	1.6	96.0	.9	4.0a	3.9		None
SBR62-4823	2420-2430	79544	1.3	1.7	96.1	.9	3.3a	4.2		None
SBR62-4824	2430-2440	79545	1.4	1.7	96.1	.8	3.7a	4.1		None
SBR62-4825	2440-2450	79546	1.7	1.7	95.5	1.1	4.3a	4.0		None
SBR62-4826	2450-2460	79547	2.1	1.8	95.2	.9	5.6	4.3	.900	None
SBR62-4827	2460-2470	79548	2.1	1.5	95.4	1.0	5.6	3.6	.900	None
SBR62-4828	2470-2480	79549	2.2	1.6	95.3	.9	5.8	3.8	.900	None
SBR62-4829	2480-2490	79550	1.3	1.5	95.4	1.8	3.5a	3.6		None
SBR62-4830	2490-2500						c			
SBR62-4831	2500-2510						b			

See footnotes at end of table.

Drill cutting samples received February 13, 1962; assays made on air-dried samples

# OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Belco Petroleum Corporation's Belco-Texota No. 1 well (Con.)

Derrick Floor elevation 5,335 feet

Sample number		Run No.	Yield of product						Specific gravity of oil at 60°/60° F.	Properties of spent shale Tendency to coke
			Weight percent		Spent shale	Gas + loss	Gal. per ton			
			Oil	Water			Oil	Water		
Laramie	Their									
SBR62-4832-39	2510-2590						c			
SBR62-4840	2590-2600						Assay			
SBR62-4841	2610-2620						Assay			
SBR62-4842	2620-2630	79551	1.8	1.5	96.0	0.7	4.6a	3.6		None
SBR62-4843	2630-2640	79552	2.3	1.1	96.1	.5	5.9a	2.7		None
SBR62-4844	2640-2650	79553	1.7	1.3	96.4	.6	4.5a	3.1		None
SBR62-4845	2650-2660	79554	1.9	1.3	96.1	.7	5.1a	3.1		None
SBR62-4846-51	2670-2730						c			
SBR62-4852-53	2730-2750						b			
SBR62-4854	2760-2770	79555	1.3	1.3	96.8	.6	3.4a	3.1		None
SBR62-4855	2770-2780	79556	.9	1.0	97.7	.4	2.3a	2.3		None
SBR62-4856	2780-2790	79557	1.3	2.7	95.2	.8	3.4a	6.4		None
SBR62-4857	2790-2800	79558	1.4	1.5	96.0	1.1	3.7a	3.6		None
SBR62-4858	2800-2810	79559	1.1	2.3	95.7	.9	2.7a	5.6		None
SBR62-4859-61	2810-2840						c			
SBR62-4862	2840-2850	79560	1.5	1.8	95.8	.9	3.9a	4.4		None
SBR62-4863	2860-2870	79561	1.7	1.6	95.9	.8	4.3a	3.9		None
SBR62-4864	2870-2880	79562	1.7	2.2	94.9	1.2	4.5a	5.3		None
SBR62-4865	2880-2890	79563	1.9	2.1	94.8	1.2	5.1a	5.1		None
SBR62-4866	2890-2900	79564	1.8	1.7	95.3	1.2	4.7a	4.1		None
SBR62-4867	2900-2910						Assay			
SBR62-4868	2910-2920	79565	1.0	1.5	97.0	.5	2.5a	3.6		None
SBR62-4869	2930-2940	79566	.7	1.5	97.1	.7	1.9a	3.5		None
SBR62-4870-73							c			
SBR62-4874	2980-2990	79567	1.2	1.3	97.1	.4	3.2a	3.1		None
SBR62-4875	2990-3000	79568	1.4	1.4	97.0	.2	3.5a	3.3		None
SBR62-4876	3000-3010	79569	1.4	1.3	96.8	.5	3.6a	3.1		None
SBR62-4877	3010-3020	79570	1.1	1.4	97.0	.5	2.9a	3.4		None
SBR62-4878-79	3020-3040						c			
SBR62-4880	3050-3060	79571	1.1	1.2	97.1	.6	2.9a	2.9		None

See footnotes at end of table.

Drill cutting samples received February 13, 1962; assays made on air-dried samples

Laramie Petroleum Research Center, Laramie, Wyoming, Illustration No. SBR-3581P, Sheet No. 4 of 6 sheets March 28, 1962

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Belco Petroleum Corporation's Belco-Texota No. 1 well (Con.)

Derrick Floor elevation 5,335 feet

Derrick Floor elevation 5,335 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
SBR62-4881	3060-3070	79572	1.4	1.3	96.6	0.7	3.7a	3.1		None
SBR62-4882	3070-3080	79573	.9	1.4	97.3	.4	2.4a	3.4		None
SBR62-4883-84	3080-3100						c			
SBR62-4885	3100-3110						b			
SBR62-4886-97	3110-3230						c			
SBR62-4898	3230-3240	79574	1.4	1.4	96.5	.7	3.5a	3.4		None
SBR62-4899	3240-3250	79575	1.3	1.4	96.5	.8	3.4a	3.3		None
SBR62-4900	3250-3260	79576	1.3	1.2	96.7	.8	3.4a	3.0		None
SBR62-4901	3260-3270	79577	1.3	1.5	96.1	1.1	3.5a	3.6		None
SBR62-4902	3270-3280	79578	1.4	1.4	96.2	1.0	3.6a	3.4		None
SBR62-4903-21	3290-3480						c			
SBR62-4922	3480-3490	79579	.8	1.4	96.7	1.1	2.1a	3.3		None
SBR62-4923	3490-3500	79580	2.3	1.8	94.7	1.2	5.9a	4.2		None
SBR62-4924	3500-3510	79581	2.2	1.9	94.6	1.3	5.8a	4.4		None
SBR62-4925	3510-3520	79582	2.2	1.3	94.6	1.9	5.7a	3.1		None
SBR62-4926	3520-3530	79583	1.9	2.1	94.7	1.3	5.0a	5.0		None
SBR62-4927	3530-3540						c			
SBR62-4928	3540-3550	79584	1.6	1.8	95.2	1.4	4.3a	4.2		None
SBR62-4929	3550-3560	79585	1.9	1.5	94.9	1.7	5.0a	3.4		None
SBR62-4930	3560-3570	79586	1.3	1.6	95.2	1.9	3.4a	3.9		None
SBR62-4931	3570-3580	79587	1.2	1.8	96.2	.8	3.1a	4.3		None
SBR62-4932	3580-3590	79588	1.2	1.7	96.7	.4	3.2a	4.1		None
SBR62-4933	3590-3600	79589	1.2	1.7	96.3	.8	3.1a	4.1		None
SBR62-4934	3600-3610	79590	1.3	1.7	96.2	.8	3.3a	4.2		None
SBR62-4935-38	3610-3650						c			
SBR62-4939	3650-3660	79590A	1.5	1.6	96.0	.9	4.0a	3.9		None
SBR62-4940	3660-3670	79591	1.5	1.6	96.3	.6	4.0a	3.8		None
SBR62-4941	3670-3680	79592	1.8	1.7	96.0	.5	4.6a	4.1		None
SBR62-4942	3680-3690	79593	2.2	2.1	95.4	.3	5.8a	5.0		None
SBR62-4943	3690-3700	79594	2.9	1.9	94.3	.9	7.9	4.6	0.879	None

See footnotes at end of table.

Drill cutting samples received February 13, 1962; assays made on air-dried samples

Laramie Petroleum Research Center, Laramie, Wyoming, Illustration No. SBR-3581P, Sheet No. 5 of 6 sheets March 28, 1962

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Belco Petroleum Corporation's Belco-Texta No. 1 well (Con.)

Derrick Floor elevation 5,335 feet

			Yield of product						Specific gravity of oil at 60°/60° F.	Properties of spent shale	
			Weight percent		Spent shale	Gas + loss	Gal. per ton			Tendency to coke	Remarks
Sample number	Run No.	Oil	Water	Oil			Water	Oil	Water		
Laramie	Their										
SBR62-4944	3700-3710	79595	2.7	1.8	94.9	0.6	7.1a	4.2	0.879	None	
SBR62-4945	3710-3720	79596	2.7	1.7	94.8	.8	7.5	4.1		None	
SBR62-4946	3720-3730	79597	2.6	1.8	94.6	1.0	7.1	4.3		.879	None
SBR62-4947	3730-3740	79598	2.5	1.7	95.1	.7	6.8	4.1	.878	None	
SBR62-4948	3740-3750	79599	2.2	1.8	95.0	1.0	5.7a	4.3		None	
SBR62-4949	3750-3760	79600	2.5	1.8	95.0	.7	6.6a	4.3		None	
SBR62-4950	3760-3770	79601	2.9	1.8	94.5	.8	7.5a	4.3		None	
SBR62-4951	3770-3780	79602	.8	1.6	97.0	.6	2.2a	3.8		None	
SBR62-4952-57	3780-3840						c				
SBR62-4958	3840-3850						b				
SBR62-4959-68	3850-3950						c				
SBR62-4969	3950-3960	79603	1.2	1.3	97.1	.4	3.0a	3.1		None	
SBR62-4970	3960-3970	79604	1.0	1.3	96.9	.8	2.5a	3.3		None	
SBR62-4971	3970-3980	79605	1.5	.3	97.8	.4	3.9a	.8		None	
SBR62-4972-73	3980-4000						c				
SBR62-4974-75	4010-4030						c				
SBR62-4976	4030-4040	79606	1.0	1.2	97.2	.6	2.7a	2.9		None	
SBR62-4977	4040-4050	79607	1.0	1.3	97.5	.2	2.5a	3.1		None	
SBR62-4978	4050-4060	79608	1.0	1.2	97.4	.4	2.5a	2.9		None	
SBR62-4979	4060-4070	79609	1.5	1.7	96.5	.3	3.9a	4.1		None	
SBR62-4980	4070-4080	79610	1.8	1.5	96.4	.3	4.6a	3.6		None	
SBR62-4981-87	4080-4150						b				
SBR62-4988-89	4150-4170						c				

a - Specific gravity estimated due to insufficient oil.

b - Less than 1.0 gallon of oil per ton of shale.

c - More than 1.0 but less than 3.0 gallons of oil per ton of shale.

Assay - Sample contained more than 3.0 gallons of oil per ton of shale.

Drill cutting samples received February 13, 1962; assays made on air-dried samples