

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Chorney Oil Company's Lombard Canyon Well C-1 drilled in
NW1/4NW1/4 of sec 25, T 25 N, R 108 W, Sweetwater County, Wyoming

Kelly Bushing elevation 6,858 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		Spent shale	Gas + loss				
Laramie	Their		Oil	Water					Oil ^{1/}	Water
SBR70-6931-32	0- 40						Trace			
SBR70-6933-41	40-220						No Oil			
SBR70-6942	220-240						c			
SBR70-6943-50	240-400						No Oil			
SBR70-6951-54	400-480						b			
SBR70-6955	500-520	52760	5.4	1.2	91.4	2.0	14.0	2.9	0.916	None
SBR70-6956	520-540	52761	3.0	1.7	94.1	1.2	7.9	4.0	.918	None
SBR70-6957	540-550	52762	12.9	1.5	82.8	2.8	34.0	3.6	.907	None
SBR70-6958	550-560	52763	4.8	1.8	91.9	1.5	12.7	4.3	.913	Slight
SBR70-6959	560-570	52764	8.2	1.5	88.1	2.2	21.9	3.6	.901	None
SBR70-6960	570-580	52765	8.0	1.0	86.8	4.2	21.0	2.4	.910	None
SBR70-6961	580-590	52766	6.9	.9	89.6	2.6	18.1	2.2	.912	None
SBR70-6962	590-600	52767	7.8	1.0	87.6	3.6	20.6	2.4	.912	None
SBR70-6963	600-610	52768	5.8	1.2	90.5	2.5	15.3	2.9	.912	None
SBR70-6964	610-620	52769	5.3	1.3	90.9	2.5	13.9	3.2	.912	None
SBR70-6965	620-630	52770	5.5	1.4	90.5	2.6	14.5	3.4	.912	None
SBR70-6966	630-640	52771	5.8	1.3	90.5	2.4	15.2	3.1	.915	None
SBR70-6967	640-650	52772	6.6	1.3	89.9	2.2	17.3	3.2	.914	None
SBR70-6968	650-660	52773	6.3	1.5	90.0	2.2	16.5	3.6	.919	None
SBR70-6969	660-670	52774	6.4	1.7	89.5	2.4	16.7	4.0	.918	None
SBR70-6970	670-680	52775	4.6	1.5	92.0	1.9	11.9	3.6	.917	None
SBR70-6971	680-690	52776	4.8	1.1	92.4	1.7	12.4	2.6	.921	None
SBR70-6972	690-700	52783	4.5	1.6	92.3	1.6	11.9	3.8	.909	None
SBR70-6973	700-710	52784	3.7	1.2	93.3	1.8	9.7	2.9	.911	None
SBR70-6974	710-720	52785	3.4	1.5	94.0	1.1	8.8	3.6	.912	None
SBR70-6975	720-730	52786	3.4	1.5	93.5	1.6	9.0	3.6	.911	None
SBR70-6976	730-740	52787	3.3	1.5	93.8	1.4	8.7	3.6	.909	None
SBR70-6977	740-750	52788	3.4	1.4	93.7	1.5	8.9	3.4	.911	None
SBR70-6978	750-760	52789	.3	1.2	97.7	.8	.6a	3.0		None
SBR70-6979	760-770	52790	.3	1.1	97.9	.7	.8a	2.5		None

See footnote at end of table.

Drill cutting samples received July 9, 1970; Assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Chorney Oil Company's Lombard Canyon C Well No. 1 (con.)

Kelly Bushing elevation 6,858 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 ^{1/}			Water			
SBR70-6980	770- 780	52791	0.2	0.8	98.2	0.8	0.5a	2.0	None	
SBR70-6981	780- 790	52792	.4	1.4	97.5	.7	1.0a	3.5	None	
SBR70-6982	790- 800	52793	.3	1.3	97.8	.6	.7a	3.1	None	
SBR70-6983	810- 820	52794	.4	1.2	97.9	.5	.9a	3.0	None	
SBR70-6984	820- 830	52795	.2	1.3	97.8	.7	.4a	3.2	None	
SBR70-6985	830- 840	52796	.1	1.9	98.2	.8	.4a	2.2	None	
SBR70-6986	840- 850	52797	.2	1.1	98.1	.6	.6a	2.6	None	
SBR70-6987	850- 860	52798	.4	1.5	97.8	.3	1.0a	3.7	None	
SBR70-6988	860- 870	52799	.6	1.4	97.5	.5	1.5a	3.4	None	
SBR70-6989	870- 880	52800	1.4	1.5	96.3	.8	3.6a	3.5	None	
SBR70-6990	880- 890	52801	1.4	1.1	95.0	2.5	3.7a	2.6	None	
SBR70-6991	890- 900	52802	1.1	1.5	95.9	1.5	3.0a	3.5	None	
SBR70-6992	900- 910	52803	.9	1.4	96.2	1.5	2.3a	3.2	None	
SBR70-6993	910- 920	52804	1.4	1.4	95.9	1.3	3.7a	3.4	None	
SBR70-6994	920- 930	52805	.8	1.6	96.6	1.0	2.2a	3.8	None	
SBR70-6995	930- 940	52806	1.1	1.6	96.0	1.3	2.9a	3.8	None	
SBR70-6996	950- 960	52807	2.4	1.3	94.9	1.4	6.4	3.1	0.909	None
SBR70-6997	960- 970	52808	3.1	1.1	93.9	1.9	8.1	2.6	.909	None
SBR70-6998	970- 980	52777	2.5	1.6	94.4	1.5	6.8	3.7	.901	None
SBR70-6999	990-1000	52778	2.5	1.7	94.7	1.1	6.7	4.1	.904	None
SBR70-7000	1000-1010	52779	1.8	1.8	95.2	1.2	4.7a	4.2		None
SBR70-7001	1010-1020	52780	1.4	1.5	95.4	1.7	3.7a	3.6		None
SBR70-7002	1020-1030	52781	1.3	1.5	96.0	1.2	3.4a	3.6		None
SBR70-7003	1030-1040	52782	1.4	1.8	96.4	.4	3.7a	4.2		None
SBR70-7004	1040-1050	52809	.7	2.2	96.2	.9	1.7a	5.3		None
SBR70-7005	1050-1060	52810	2.1	2.0	95.2	.7	5.7	4.8	.875	None
SBR70-7006	1060-1070	52811	.8	2.0	96.1	1.1	2.1a	4.8		None
SBR70-7007	1070-1080	52812	.6	1.9	96.2	1.3	1.6a	4.6		None
SBR70-7008	1080-1090	52813	.9	2.0	96.8	.3	2.3a	4.8		None
SBR70-7009	1090-1100	52814	.7	1.9	96.9	.5	1.8a	4.6		None

See footnote at end of table.

Drill cutting samples received July 9, 1970; Assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Chorney Oil Company's Lombard Canyon C Well No. 1 (con.)

Kelly Bushing elevation 6,858 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			Tendency to		
Laramie	Their		Oil	Water	Spent shale	Gas + loss	Oil ^{1/}	Water	coke	
SBR70-7010	1100-1110	52815	0.6	2.0	96.4	1.0	1.6a	4.8	None	
SBR70-7011	1110-1120	52816	1.0	1.9	96.2	.9	2.6a	4.7	None	
SBR70-7012	1120-1130	52817	.3	1.7	97.0	1.0	.9a	4.0	None	
SBR70-7013	1130-1140	52818	.5	2.5	96.3	.7	1.4a	6.0	None	
SBR70-7014	1140-1150	52819	.1	2.6	96.9	.4	.4a	6.2	None	
SBR70-7015	1150-1160	52820	.3	2.1	96.7	.9	.7a	5.2	None	
SBR70-7016	1160-1170	52821	.9	2.0	96.7	.4	2.2a	4.8	None	
SBR70-7017	1170-1180	52822	.3	2.0	97.2	.5	.9a	4.8	None	
SBR70-7018	1180-1190	52823	.4	2.2	96.9	.5	.9a	5.3	None	
SBR70-7019	1190-1200	52824	.5	2.0	96.6	.9	1.4a	4.8	None	
SBR70-7020	1200-1210	52825	.8	2.0	96.5	.7	2.1a	4.8	None	
SBR70-7021	1210-1220	52826	.6	2.1	96.6	.7	1.7a	5.0	None	
SBR70-7022	1220-1230	52827	.5	1.8	96.8	.9	1.2a	4.3	None	
SBR70-7023	1230-1240	52828	.7	2.0	96.5	.8	1.7a	4.8	None	
SBR70-7024	1240-1250						Trace			
SBR70-7025-29	1250-1300						No Oil			
SBR70-7030	1300-1310						b			
SBR70-7031	1310-1320						Trace			
SBR70-7032	1320-1330						b			
SBR70-7033	1330-1340						Trace			
SBR70-7034	1340-1350	52829	.5	1.5	97.2	.8	1.4a	3.6	None	
SBR70-7035	1350-1360	52830	1.1	1.7	96.1	1.1	2.9a	4.0	None	
SBR70-7036	1360-1370	52831	.8	1.7	96.7	.8	2.0a	4.2	None	
SBR70-7037	1370-1380	52832	1.2	1.1	96.1	1.6	3.1a	2.6	None	
SBR70-7038	1390-1400	52833	2.8	2.0	94.0	1.2	7.4	4.9	0.905	None
SBR70-7039	1400-1410	52834	3.2	2.2	93.6	1.0	8.4	5.3	.906	None
SBR70-7040	1410-1420	52835	2.4	2.2	94.6	.8	6.4	5.3	.904	None
SBR70-7041	1420-1430	52836	2.1	2.2	94.8	.9	5.5	5.3	.902	None
SBR70-7042	1440-1450	52838	2.6	2.0	93.8	1.6	6.9	4.8	.909	None
SBR70-7043	1450-1460	52839	2.5	2.0	94.4	1.1	6.5	4.8	.910	None

See footnote at end of table.

Drill cutting samples received July 9, 1970; Assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Chorney Oil Company's Lombard Canyon G Well No. 1 (con.)

Kelly Bushing elevation 6,858 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		Spent shale	Gas + loss				Gal per ton	
Laramie	Their		Oil	Water							
SBR70-7044	1460-1470	52840	1.9	2.0	95.1	1.0	5.0	4.8	0.909	None	
SBR70-7045	1470-1480	52841	1.4	2.0	96.0	.6	3.5a	4.8		None	
SBR70-7046	1480-1490	52842	1.2	2.0	95.9	.9	3.1a	4.8		None	
SBR70-7047	1490-1500	52843	.9	2.0	96.1	1.0	2.3a	4.8		None	
SBR70-7048	1500-1510	52844	1.2	2.9	95.9	1.0	3.1a	4.6		None	
SBR70-7049	1510-1520	52845	1.5	1.9	95.9	.7	3.8a	4.6		None	
SBR70-7050	1520-1530	52846	.9	2.1	96.1	.9	2.3a	5.2		None	
SBR70-7051	1530-1540	52847	1.2	1.9	96.0	.9	3.2a	4.6		None	
SBR70-7052	1540-1550	52848	1.2	1.6	95.9	1.3	3.1a	3.8		None	
SBR70-7053	1550-1560	52849	1.0	2.2	96.1	.7	2.5a	5.4		None	
SBR70-7054	1560-1570	52850	1.2	2.0	95.2	1.6	3.2a	4.8		None	
SBR70-7055	1570-1580	52851	.9	2.1	95.9	1.1	2.4a	5.0		None	
SBR70-7056	1580-1590	52852	1.1	1.7	96.0	1.2	2.8a	4.1		None	
SBR70-7057	1590-1600	52853	.9	1.4	95.4	2.3	2.2a	3.5		None	
SBR70-7058	1600-1610						b				
SBR70-7059	1610-1620						c				
SBR70-7060	1620-1630						b				
SBR70-7061	1630-1640						Trace				
SBR70-7062-68	1640-1710						No Oil				
SBR70-7069	1710-1720						b				
SBR70-7070-74	1720-1770						No Oil				
SBR70-7075	1780-1790	52854	2.7	2.0	93.9	1.4	7.0	4.8	.909	None	
SBR70-7076	1790-1800						No Oil				

1/ "a"--indicates specific gravity estimated as 0.92. Oil yields were estimated by a rapid test-tube method: "No oil", "Trace", "b"--less than 1 gal oil/ton, "c"--1 to 3 gal oil/ton.

Drill cutting samples received July 9, 1970; Assays made on air-dried samples