

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from H. M. Byllesby's Byllesby Well No. 1 drilled in NW1/4, NW1/4, NW1/4, (415 feet S/N 415 feet E/W) of sec. 26, T. 12S., R. 20E., Uintah County, Utah

Surface elevation 5,638 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	
SBR62-5838	400-410	79919	10.2	2.0	85.6	2.2	26.8	4.8	0.908	None	
SBR62-5839	410-420	79920	9.1	1.8	86.7	2.4	23.9	4.3	.909	None	
SBR62-5840	420-430	79921	9.2	2.0	86.2	2.6	24.2	4.8	.909	None	
SBR62-5841	430-440	79922	6.8	1.8	89.7	1.7	17.7	4.3	.921	None	
SBR62-5842	440-450	79923	5.5	1.3	92.0	1.2	14.1	3.1	.924	None	
SBR62-5843	450-460	79924	5.7	1.3	91.6	1.4	14.8	3.1	.925	None	
SBR62-5844	460-470	79925	6.2	1.7	90.4	1.7	16.0	4.1	.921	None	
SBR62-5845	470-480	79926	6.1	2.4	89.7	1.8	16.1	5.8	.914	None	
SBR62-5846	480-490	79927	8.7	1.8	87.5	2.0	22.8	4.3	.920	None	
SBR62-5847	490-500	79928	4.7	3.0	90.6	1.7	12.3	7.2	.914	None	
SBR62-5848	500-510	79929	1.6	3.9	93.3	1.2	4.1a	9.3		None	
SBR62-5849	510-520	79930	1.0	3.8	93.6	1.6	2.5a	9.1		None	
SBR62-5850	520-530	79931	1.4	3.8	93.2	1.6	3.6a	9.1		None	
SBR62-5851	530-540	79932	2.1	3.3	93.5	1.1	5.5a	7.9		None	
SBR62-5852	540-550	79933	2.2	2.7	93.6	1.5	5.7a	6.5		None	
SBR62-5853	550-560	79934	3.7	2.5	92.3	1.5	9.8	6.0	.914	None	
SBR62-5854	560-570	79935	2.6	3.6	92.6	1.2	7.0	8.6	.907	None	
SBR62-5855	570-580						bl.0B				
SBR62-5856	580-590						23.0C				
SBR62-5857	590-600						bl.0B				
SBR62-5858	600-610	79936	.9	2.1	96.5	.5	2.4a	5.0		None	
SBR62-5859	610-620						bl.0B				
SBR62-5860	620-630	79937	.9	1.0	97.8	.3	2.3a	2.4		None	
SBR62-5861	630-640	79938	1.4	1.3	96.6	.7	3.7a	3.1		None	
SBR62-5862	640-650	79939	1.2	1.2	97.2	.4	3.1a	2.9		None	
SBR62-5863	650-660	79940	1.8	1.1	96.1	1.0	4.7a	2.6		None	
SBR62-5864	660-670	79941	.7	.7	97.7	.9	1.9a	1.7		None	
SBR62-5865-66	670-690						23.0C				
SBR62-5867	690-700						bl.0B				
SBR62-5868	700-710	79942	1.8	1.8	95.4	1.0	4.7a	4.3		None	

See footnotes at end of table.

Drill cutting samples received October 6, 1961; assays made on air-dried samples

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Samples from H. M. Byllesby's Byllesby Well No. 1 (Con.)

Surface elevation 5,638 feet

Sample number			Run No.	Yield of product			Specific gravity of oil at 60°/60°F.		Properties of spent shale		Remarks
				Weight percent		Gas + loss	Gal. per ton		Tendency to coke		
Laramie	Their		Oil	Water	Spent shale			Oil		Water	
SBR62-5869	710- 720	79943	1.4	2.1	95.0	1.5	3.6a	5.0		None	
SBR62-5870-71	720- 740						3.0c				
SBR62-5872-75	740- 780						1.0B				
SBR62-5876-77	780- 800						Trace				
SBR62-5878	800- 810						1.0B				
SBR62-5879	810- 820						Trace				
SBR62-5880-82	820- 850						1.0B				
SBR62-5883-92	850- 950						3.0c				
SBR62-5893	950- 960						No oil				
SBR62-5894-96	960- 990						Trace				
SBR62-5897	990-1000						3.0c				
SBR62-5898-99	1000-1020						1.0B				
SBR62-5900	1020-1030						Trace				
SBR62-5901	1030-1040						1.0b				
SBR62-5902	1040-1050						3.0c				
SBR62-5903	1050-1060						1.0B				
SBR62-5904	1060-1070	79944	.6	1.1	97.9	.4	1.5a	2.6		None	
SBR62-5905	1070-1080	79945	1.0	1.5	96.7	.8	2.5a	3.6		None	
SBR62-5906	1080-1090	79946	.8	1.0	97.8	.4	2.2a	2.4		None	
SBR62-5907	1090-1100						1.0B				
SBR62-5908	1100-1110						Trace				
SBR62-5909-13	1110-1160						No oil				
SBR62-5914	1160-1170						1.0B				
SBR62-5915	1170-1180	79947	1.3	1.2	97.3	.2	3.4a	2.9		None	
SBR62-5916	1180-1190	79948	1.3	1.4	97.0	.3	3.3a	3.4		None	
SBR62-5917	1190-1200	79949	.6	1.8	97.2	.4	1.5a	4.3		None	
SBR62-5918-19	1200-1220						1.0B				
SBR62-5920	1220-1230	79950	.8	.9	98.2	.1	2.1a	2.2		None	
SBR62-5921	1230-1240	79951	.8	1.7	97.1	.4	2.0a	4.1		None	
SBR62-5922	1240-1250	79952	.4	.4	99.0	.2	1.2a	1.0		None	

See footnotes at end of table.

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Samples from H. M. Byllesby's Byllesby Well No. 1 (Con.)

Surface elevation 5,638 feet

			Yield of product				Specific gravity of oil at 60°/60°F.		Properties of spent shale	
Sample number		Run No.	Weight percent		Spent shale	Gas + loss	Gal. per ton		Tendency to	
Laramie	Their		Oil	Water			Oil	Water	coke	Remarks
SBR62-5923	1250-1260	79953	0.9	0.6	98.3	0.2	2.2a	1.4	None	
SBR62-5924	1260-1270	79954	2.0	1.3	96.2	.5	5.1a	3.1	None	
SBR62-5925	1270-1280	79955	1.3	1.3	97.2	.2	3.3a	3.1	None	
SBR62-5926	1280-1290	79956	1.2	1.2	97.1	.5	3.2a	2.9	None	
SBR62-5927-28	1290-1310						b1.0B			
SBR62-5929	1310-1320	79957	.8	1.3	97.4	.5	2.1a	3.1	None	
SBR62-5930	1320-1330	79958	1.1	1.3	97.1	.5	3.0a	3.1	None	
SBR62-5931	1330-1340	79959	.9	1.0	97.4	.7	2.4a	2.4	None	
SBR62-5932	1340-1350	79960	.9	1.2	97.2	.7	2.4a	2.9	None	
SBR62-5933	1350-1360	79961	1.6	1.2	96.2	1.0	4.2a	2.9	None	
SBR62-5934	1360-1370	79962	1.4	1.1	96.9	.6	3.5a	2.6	None	
SBR62-5935	1370-1380	79963	2.1	1.3	95.6	1.0	5.4a	3.1	None	
SBR62-5936	1380-1390	79964	1.0	1.6	96.6	.8	2.7a	3.8	None	
SBR62-5937	1390-1400	79965	1.1	1.0	97.4	.5	2.8a	2.4	None	
SBR62-5938	1400-1410	79966	3.1	1.2	94.5	1.2	8.2	2.9	0.909	None
SBR62-5939	1410-1420	79967	2.8	1.5	94.6	1.1	7.3	3.6	.909	None
SBR62-5940-41	1420-1440						No oil			
SBR62-5942	1440-1450	79968	1.4	1.2	96.5	.9	3.7a	2.9	None	
SBR62-5943	1450-1460	79969	1.2	1.2	96.6	1.0	3.0a	2.9	None	
SBR62-5944	1460-1470						b1.0B			
SBR62-5945-47	1470-1500						No oil			
SBR62-5948	1500-1510						Trace			
SBR62-5949-59	1510-1620						No oil			
SBR62-5960-61	1620-1640						b1.0B			
SBR62-5962-67	1640-1700						No oil			
SBR62-5968-70	1700-1730						Trace			
SBR62-5971-77	1730-1800						No oil			
SBR62-5978	1800-1810						b1.0B			
SBR62-5979	1810-1820	79970	1.1	1.2	97.1	.6	2.8a	2.9	None	
SBR62-5980	1820-1830	79971	.3	.3	99.0	.4	.8a	.7	None	

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Laramie	Their		Weight percent		Spent shale	Gas + loss	Gal. per ton		Tendency to coke	
			Oil	Water			Oil	Water		
SBR62-5981-82	1830-1850						a 3.0c b 1.0B			
SBR62-5983-85	1850-1880									
SBR62-5986	1880-1890	79972	1.5	1.0	96.8	0.7	3.8a	2.4	None	
SBR62-5987	1890-1900						b 1.0B			
SBR62-5988	1900-1910	79973	.6	1.9	97.1	.4	1.5a	4.6	None	
SBR62-5989	1910-1920						No oil			
SBR62-5990-94	1920-1970						b 1.0B			
SBR62-5995	1970-1980	79974	3.7	2.4	92.9	1.0	9.4	5.8	0.935	None
SBR62-5996	1980-1990	79975	3.2	2.0	94.0	.8	8.0	4.8	.944	None
SBR62-5997	1990-2000	79976	2.6	2.5	94.0	.9	6.8	6.0	.925	None
SBR62-5998	2000-2010	79977	2.4	1.5	95.2	.9	6.3	3.6	.925	None
SBR62-5999	2010-2020	79978	.3	1.6	97.5	.6	.8a	3.8		None
SBR62-6000-03	2020-2060						Trace			
SBR62-6004	2060-2070						No oil			
SBR62-6005-06	2070-2090						b 1.0B			
SBR62-6007-09	2090-2120						No oil			
SBR62-6010	2120-2130						b 1.0B			
SBR62-6011	2130-2140						No oil			
SBR62-6012	2140-2150						b 1.0B			
SBR62-6013	2150-2160						a 3.0c			
SBR62-6014-15	2160-2180						b 1.0B			
SBR62-6016	2180-2190						Trace			
SBR62-6017	2190-2200						No oil			
SBR62-6018-19	2200-2220						b 1.0B			
SBR62-6020-21	2220-2240						Trace			
SBR62-6022-47	2240-2500						No oil			
SBR62-6048	2500-2510	79979	1.8	1.6	95.3	1.3	4.6a	3.7	None	
SBR62-6049-52	2510-2550						Trace			
SBR62-6053-87	2550-2900						No oil			

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.

Drill cutting samples received October 6, 1961; assays made on air-dried samples