

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Forest Oil Corporation's Government well No. 1-7 drilled in NE1/4NE1/4 (660 feet S/N 1067 feet W/E) of sec 7, T 13 N, R 113 W, Uinta County, Wyoming

Kelly Bushing elevation 7,355 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		Gal per ton			
Laramie	Their		Oil	Water	Spent shale	Gas + loss	Oil <sup>1/</sup> / Water	
SRR67-6496-6537	0- 420						No Oil	
SBR67-6538-78	467- 870						No Oil	
SBR67-6579-81	870- 900						b	
SBR67-6582-84	900- 930						Trace	
SBR67-6585-93	930-1020						No Oil	
SBR67-6594-96	1020-1050						b	
SBR67-6597-6602	1050-1110						No Oil	
SBR67-6603-14	1110-1230						c	
SBR67-6615-17	1230-1260						b	
SBR67-6618-23	1260-1320						Trace	
SBR67-6624-29	1320-1380						b	
SBR67-6630-35	1380-1440						Trace	
SBR67-6636-41	1440-1500						b	
SBR67-6642-44	1500-1530						Trace	
SBR67-6645-47	1530-1560						b	
SBR67-6648-68	1560-1770						Trace	
SBR67-6669-71	1770-1800						No Oil	
SBR67-6672-74	1800-1830						Trace	
SBR67-6675-77	1830-1860						No Oil	
SBR67-6678-80	1860-1890						Trace	
SBR67-6681-6726	1890-2300						No Oil	
SBR67-6727-28	2300-2320						Trace	
SBR67-6729-47	2320-2510						No Oil	
SBR67-6748-74	2520-2790						No Oil	
SBR67-6775	2790-2800						Trace	
SBR67-6776-91	2800-2960						No Oil	
SBR67-6792-6808	2970-3140						No Oil	
SBR67-6809-14	3140-3200						b	
SBR67-6815-17	3200-3230						Trace	
SBR67-6818-20	3230-3260						No Oil	

See footnotes at end of table.

Drill cutting samples received June 30, 1967; Assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Forest Oil Corporation's Government well No. 1-7 (con.)

Kelly Bushing elevation 7,355 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 <sup>1</sup> /	Water
SBR67-6821	3260-3270						Trace			
SBR67-6822	3270-3280						b			
SBR67-6823	3280-3290	24827	0.3	3.1	95.1	1.5	0.7a	7.4		None
SBR67-6824	3290-3300	24828	2.9	2.8	93.0	1.3	7.6	6.7	0.916	None
SBR67-6825-26	3300-3320						Trace			
SBR67-6827	3320-3330	24829	1.3	2.8	94.3	1.6	3.4a	6.7		None
SBR67-6828	3330-3340	24830	1.5	3.5	93.6	1.4	3.9a	8.4		None
SBR67-6829	3340-3350	24831	1.2	2.7	94.9	1.2	3.1a	6.5		None
SBR67-6830	3350-3360	24832	1.5	3.4	93.9	1.2	3.8a	8.1		None
SBR67-6831	3360-3370	24833	2.3	3.4	92.8	1.5	6.3	8.1	.894	None
SBR67-6832	3370-3380	24834	2.7	3.0	92.9	1.4	7.3	7.2	.895	None
SBR67-6833	3380-3390	24835	1.7	3.1	93.7	1.5	4.4a	7.4		None
SBR67-6834	3390-3400	24836	1.7	2.7	94.3	1.3	4.3a	6.5		None
SBR67-6835	3400-3410	24837	.3	2.7	96.3	.7	.7a	6.5		None
SBR67-6836	3410-3420	24838	.5	1.9	96.8	.8	1.4a	4.6		None
SBR67-6837	3420-3430						b			
SBR67-6838	3430-3440						Trace			
SBR67-6839-40	3440-3460						b			
SBR67-6841	3460-3470						Trace			
SBR67-6842-44	3470-3500						b			
SBR67-6845	3500-3510	24839	1.0	2.9	95.3	.8	2.7a	7.0		None
SBR67-6846	3510-3520	24840	1.6	2.5	94.0	1.9	4.2a	5.9		None
SBR67-6847	3520-3530	24841	1.6	2.2	94.9	1.3	4.1a	5.3		None
SBR67-6848	3530-3540	24842	.9	2.0	96.5	.6	2.3a	4.9		None
SBR67-6849	3540-3550	24843	.6	2.2	96.6	.6	1.5a	5.3		None
SBR67-6850	3550-3560	24844	.3	2.3	96.6	.8	.7a	5.5		None
SBR67-6851	3560-3570	24845	.2	2.5	96.0	1.3	.6a	6.0		None
SBR67-6852	3570-3580						Trace			
SBR67-6853	3580-3590						No Oil			
SBR67-6854	3590-3600						c			

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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 <sup>1/</sup>	Water
SBR67-6855	3600-3610						b			
SBR67-6856-61	3610-3670						c			
SBR67-6862	3670-3680						b			
SBR67-6863	3680-3690						Trace			
SBR67-6864-65	3690-3710						b			
SBR67-6866	3710-3720						No Oil			
SBR67-6867	3720-3730						b			
SBR67-6868-69	3730-3750						No Oil			
SBR67-6870	3750-3760	24846	7.6	4.8	82.1	5.5	19.8a	11.5		None
SBR67-6871-72	3760-3780						No Oil			
SBR67-6873	3780-3790						Trace			
SBR67-6874	3790-3800	24847	4.9	5.9	84.0	5.2	12.9a	14.1		None
SBR67-6875	3800-3810						b			
SBR67-6876	3810-3820						Trace			
SBR67-6877	3820-3830	24848	4.3	3.2	89.1	3.4	10.3	7.7	0.999	None
SBR67-6878	3830-3840	24849	3.2	3.7	89.6	3.5	8.3a	9.0		None
SBR67-6879	3840-3850	24850	.1	3.3	95.2	1.4	.2a	7.9		None
SBR67-6880	3850-3860	24851	.1	3.3	95.0	1.6	.4a	8.0		None
SBR67-6881	3860-3870						Trace			
SBR67-6882-83	3870-3890						b			
SBR67-6884	3890-3900						c			
SBR67-6885-86	3900-3920						Trace			
SBR67-6887	3920-3930						b			
SBR67-6888	3930-3940						No Oil			
SBR67-6889	3940-3950	24852	2.1	2.9	93.5	1.5	5.5a	7.0		None
SBR67-6890	3950-3960	24853	2.6	3.1	93.4	.9	6.7	7.4	.911	None
SBR67-6891	3960-3970	24854	.3	3.3	95.8	.6	.9a	7.9		None
SBR67-6892	3970-3980	24855	.4	3.3	95.9	.4	.9a	8.0		None
SBR67-6893-94	3980-4000						b			
SBR67-6895-96	4000-4020						No Oil			

See footnotes at end of table.

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Kelly Bushing elevation 7,355 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 <sup>1/</sup>	Water
SBR67-6897	4020-4030						c			
SBR67-6898	4030-4040						No Oil			
SBR67-6899	4040-4050	24856	2.4	3.2	93.2	1.2	6.2a	7.7	0.923	None
SBR67-6900	4050-4060	24857	2.5	3.0	92.9	1.6	6.6	7.2		None
SBR67-6901	4060-4070	24858	9.4	6.0	77.1	7.5	24.5a	14.4		None
SBR67-6902	4070-4080	24859	8.6	4.5	76.4	10.5	22.5a	10.9		None
SBR67-6903	4080-4090						b			
SBR67-6904-05	4090-4110						c			
SBR67-6906	4110-4120						b			
SBR67-6907	4120-4130	24860	1.3	2.4	94.8	1.5	3.4a	5.8		None
SBR67-6908	4130-4140	24861	1.2	2.9	94.5	1.4	3.2a	7.0		None
SBR67-6909	4140-4150						Trace			
SBR67-6910	4150-4160						b			
SBR67-6911	4160-4170	24862	.2	3.4	95.2	1.2	.6a	8.1		None
SBR67-6912	4170-4180	24863	.3	2.5	95.2	2.0	.8a	6.0		None
SBR67-6913	4180-4190						b			
SBR67-6914	4190-4200						c			
SBR67-6915	4200-4210	24864	.1	2.2	95.6	2.1	.3a	5.3		None
SBR67-6916	4210-4220	24865	2.9	2.6	90.6	3.9	7.6a	6.2		None
SBR67-6917	4220-4230						Trace			
SBR67-6918-20	4230-4260						b			
SBR67-6921	4260-4270	24866	2.9	3.3	90.9	2.9	7.5a	7.9		None
SBR67-6922	4270-4280						b			
SBR67-6923	4280-4290	24867	.3	.8	97.1	1.8	.8a	1.9		None
SBR67-6924	4290-4300	24868	.1	1.6	97.4	.9	.3a	3.8		None
SBR67-6925	4300-4310	24869	4.3	2.6	88.8	4.3	11.2a	6.2		None
SBR67-6926	4310-4320	24870	.8	2.6	94.7	1.9	2.2a	6.2		None
SBR67-6927-29	4320-4350						No Oil			
SBR67-6930	4350-4360						b			
SBR67-6931-32	4360-4380						No Oil			

See footnotes at end of table.

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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 <sup>1/</sup>	Water
SBR67-6933-34	4380-4400						Trace			
SBR67-6935	4400-4410	24871	0.0	3.9	92.9	3.2	Trace	9.2		None
SBR67-6936	4410-4420	24872	.0	2.9	96.5	.6	No Oil	6.9		None
SBR67-6937-38	4420-4440						b			
SBR67-6939-44	4440-4500						No Oil			
SBR57-6945	4500-4510						c			
SBR67-6946	4510-4520						No Oil			
SBR67-6947	4520-4530						b			
SBR67-6948	4530-4540						No Oil			
SBR67-6949	4540-4550						b			
SBR67-6950	4550-4560	24873	.0	3.7	95.3	1.0	Trace	8.9		None
SBR67-6951	4560-4570	24874	.2	2.5	95.6	1.7	.5a	5.9		None
SBR67-6952	4570-4580						Trace			
SBR67-6953-54	4580-4600						No Oil			

<sup>1/</sup> "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.

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Laramie Petroleum Research Center, Laramie, Wyoming, Illustration No. SBR-4077P Sheet No. 5 of 5 sheets August 31, 1967