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Duplicate WR 187

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from El Paso Natural Gas Company's Southman Canyon Unit Well No. 4 drilled in the SW1/4, NE1/4
NE1/4 of sec. 29, T. 10 S., R. 24 E., Uintah County, Utah

5258 Dr.

bed 4267'

Sample number		Run No.	Yield of product				Gal. per ton		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	Water	
SBR58-5908	340-350						no oil				
SBR58-5909	350-360						b				
SBR58-5910	360-370	57303	0.5	2.8	96.4	0.3	1.3a	6.7		none	
SBR58-5911	370-380	57304	.9	2.4	96.3	.4	2.4a	5.6		none	
SBR58-5912	380-390	57305	2.2	1.7	95.5	.6	5.7	4.1	0.928	none	
SBR58-5913	390-400	57306	2.4	1.3	95.6	.7	6.2	3.0	.932	none	
SBR58-5914	400-410	57307	2.2	2.3	94.7	.8	5.6	5.5	.930	none	
SBR58-5915	410-420	57308	1.2	1.7	96.3	.8	3.2a	4.1		none	
SBR58-5916	420-430	57309	.6	1.0	98.1	.3	1.4a	2.5		none	
SBR58-5917	430-440	57310	.7	1.1	97.6	.6	1.9a	2.6		none	
SBR58-5918	440-450	57311	.4	.7	98.7	.2	1.1a	1.7		none	
SBR58-5919	450-460	57312	1.7	1.4	96.3	.6	4.4a	3.4		none	
SBR58-5920	460-470	57313	2.3	1.4	95.7	.6	5.8	3.4	.938	none	
SBR58-5921	470-480	57314	2.3	1.3	95.7	.7	5.8	3.1	.933	none	
SBR58-5922	480-490	57315	2.6	1.2	95.4	.8	6.8	2.9	.934	none	
SBR58-5923	490-500	57316	2.7	1.3	95.0	1.0	6.9	3.1	.934	none	
SBR58-5924	500-510	57317	5.0	1.2	92.4	1.4	12.9	2.9	.925	none	
SBR58-5925	520-530	57318	3.2	1.8	93.9	1.1	8.3	4.3	.936	none	
SBR58-5926	530-540	57319	1.9	2.0	95.7	.4	5.0a	4.9		none	
SBR58-5927	540-550	57320	1.6	2.2	95.6	.6	4.2a	5.3		none	
SBR58-5928	550-560	57321	5.7	3.4	89.6	1.3	14.7	8.1	.928	none	
SBR58-5929	590-600	57322	3.3	1.1	94.7	.9	8.7	2.6	.926	none	
SBR58-5930	600-610	57323	2.6	.9	95.4	1.1	6.7	2.2	.936	none	
SBR58-5931	610-620	57324	3.3	.9	95.0	.8	8.3	2.2	.935	none	
SBR58-5932	620-630	57325	3.8	1.1	93.3	1.8	9.8	2.6	.941	none	
SBR58-5933	630-640	57326	3.4	.5	95.0	1.1	8.6	1.2	.934	none	
SBR58-5934	640-650	57327	3.4	.4	95.3	.9	8.8	1.0	.932	none	
SBR58-5935	650-660	57328	3.2	.5	95.5	.8	8.2	1.2	.934	none	
SBR58-5936	660-670	57329	2.6	.7	95.9	.8	6.6	1.7	.931	none	
SBR58-5937	900-910	57330	6.9	.8	90.9	1.4	17.9	2.0	.923	none	

a.- Specific gravity estimated due to insufficient oil; b.-Less than 1.0 gal. of oil per ton of shale

Drill cutting samples received July 11 1958; assays made on air-dried samples.

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from El Paso Natural Gas Company's Southman Canyon Unit Well No. 4 drilled in the SW1/4, NE1/4
NE1/4 of sec. 29, T. 10 S., R. 24 E., Uintah County, Utah

Sample number		Run No.	Yield of product				Gal. per ton		Specific gravity of oil at 60°/60°F.	Properties of spent shale		Remarks
			Weight percent		Spent shale	Gas + loss				Tendency to		
Laramie	Their		Oil	Water					Oil	Water		coke
SBR58-5938	910-920	57331	7.2	0.9	90.2	1.7	18.6	2.3	0.921	none		
SBR58-5939	920-930	57332	8.3	2.6	87.1	2.0	21.6	6.2	.917	none		
SBR58-5940	930-940	57333	11.7	3.0	83.3	2.0	30.4	7.2	.917	none		
SBR58-5941	940-950	57334	9.5	4.0	84.7	1.8	25.0	9.6	.913	none		
SBR58-5942	950-960	57335	11.4	6.5	79.9	2.2	29.7	15.6	.920	none		
SBR58-5943	960-970	57336	13.0	5.4	79.3	2.3	34.1	12.9	.915	slight		
SBR58-5944	970-980	57337	21.2	1.8	73.0	4.0	55.6	4.3	.916	slight		
SBR58-5945	980-990	57338	12.8	5.5	79.3	2.4	33.6	13.2	.917	none		
SBR58-5946	990-1000	57339	5.3	7.5	86.1	1.1	13.9	18.0	.906	none		
SBR58-5947	1000-1010	57340	6.5	7.5	84.5	1.5	17.0	18.0	.918	none		
SBR58-5948	1010-1020	57341	6.5	6.0	86.0	1.5	16.9	14.3	.922	none		
SBR58-5949	1020-1030	57342	11.4	6.5	79.8	2.3	29.5	15.7	.922	none		
SBR58-5950	1030-1040	57343	3.1	6.0	89.9	1.0	8.1	14.4	.930	none		
SBR58-5951	1040-1050	57344	2.6	9.0	86.9	1.5	6.7	21.7	.935	none		
SBR58-5952	1050-1060	57345	5.5	5.2	86.7	2.6	14.1	12.6	.927	none		
SBR58-5953	1060-1070	57346	2.9	5.0	90.9	1.2	7.6	11.9	.923	none		
SBR58-5954	1070-1080	57347	4.7	6.5	87.5	1.3	12.2	15.6	.924	none		
SBR58-5955	1080-1090	57348	7.0	6.2	85.0	1.8	18.2	15.0	.915	none		
SBR58-5956	1090-1100	57349	1.3	9.0	88.7	1.0	3.4a	21.6		none		
SBR58-5957	1100-1110	57350	2.3	5.9	90.6	1.2	5.9	14.1	.938	none		
SBR58-5958	1110-1120	57351	13.0	3.1	81.3	2.6	34.5	7.4	.906	none		
SBR58-5959	1120-1130	57352	6.9	4.8	86.7	1.6	17.9	11.6	.920	none		
SBR58-5960	1130-1140	57353	10.2	4.6	82.9	2.3	26.3	11.0	.926	none		
SBR58-5961	1140-1150	57354	2.3	8.5	88.5	.7	6.0	20.4	.921	none		
SBR58-5962	1150-1160	57355	2.0	8.3	88.6	1.1	5.1	20.0	.924	none		
SBR58-5963	1160-1170	57356	4.1	3.4	91.2	1.3	10.7	8.1	.924	none		
SBR58-5964	1170-1180	57357	8.6	3.2	86.3	1.9	22.3	7.7	.924	none		
SBR58-5965	1180-1190	57358	11.3	3.4	82.2	3.1	29.2	8.1	.927	none		
SBR58-5966	1190-1200	57359	2.7	5.3	90.8	1.2	7.0	12.6	.925	none		
SBR58-5967	1200-1210	57360	2.4	4.2	92.4	1.0	6.2	10.0	.921	none		

a.-Specific gravity estimated due to insufficient oil.

Drill cutting samples received July 11, 1958; assays made on air-dried samples.

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from El Paso Natural Gas Company's Southman Canyon Unit Well No. 4 drilled in the SW1/4, NE1/4
NE1/4 of sec. 29, T. 10 S., R. 24 E., Uintah County, Utah

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			Tendency to coke
Laramie	Their		Oil	Water					Oil	Water	
SBR58-5968	1210-1220	57361	1.9	4.0	93.3	0.8	5.0a	9.5	0.925	none	
SBR58-5969	1220-1230	57362	4.3	3.4	90.9	1.4	11.2	8.1		none	
SBR58-5970	1230-1240	57363	4.8	2.9	90.9	1.4	12.5	6.8		.923	none
SBR58-5971	1240-1250	57364	2.7	3.7	92.4	1.2	7.0	8.9	.925	none	
SBR58-5972	1250-1260	57365	4.9	6.1	87.1	1.9	12.7	14.7	.923	none	
SBR58-5973	1260-1270	57366	6.3	3.8	87.9	2.0	16.3	9.1	.929	none	
SBR58-5974	1270-1280	57367	8.3	3.6	85.7	2.4	21.3	8.7	.927	none	
SBR58-5975	1280-1290	57368	4.1	3.0	91.0	1.9	10.7	7.0	.922	none	
SBR58-5976	1290-1300	57369	2.8	3.7	92.3	1.2	7.3a	8.8		none	
SBR58-5977	1300-1310	57370	3.0	3.2	92.8	1.0	7.7	7.8	.922	none	
SBR58-5978	1310-1320	57371	2.9	3.4	92.5	1.2	7.6	8.1	.918	none	
SBR58-5979	1320-1330	57372	2.5	3.2	93.5	.8	6.6	7.5	.917	none	
SBR58-5980	1330-1340	57373	5.2	2.0	90.2	2.6	13.7	4.7	.917	none	
SBR58-5981	1340-1350	57374	3.4	2.4	91.9	2.3	8.7a	5.7		none	
SBR58-5982	1350-1360	57375	5.4	2.5	90.5	1.6	14.2	6.1	.906	none	
SBR58-5983	1360-1370	57376	5.3	2.3	90.8	1.6	14.0	5.6	.911	none	
SBR58-5984	1370-1380	57377	6.2	2.4	89.0	2.4	16.2	5.7	.914	none	
SBR58-5985	1380-1390	57378	6.1	2.3	89.8	1.8	16.0	5.6	.910	none	
SBR58-5986	1390-1400	57379	13.1	1.7	81.2	4.0	34.4	4.0	.910	none	
SBR58-5987	1410-1420	57380	1.8	2.3	94.8	1.1	4.8a	5.4		none	
SBR58-5988	1480-1490	57381	4.0	2.1	92.8	1.1	10.6	5.0	.909	none	
SBR58-5989	1490-1500	57382	1.7	1.8	95.0	1.5	4.4a	4.3		none	
SBR58-5990	1500-1510	57383	1.8	1.6	95.3	1.3	4.7a	3.9		none	
SBR58-5991	1510-1520	57384	1.7	1.8	95.3	1.2	4.5a	4.3		none	
SBR58-5992	1520-1530	57385	2.2	3.3	93.6	.9	5.7a	7.8		none	
SBR58-5993	1530-1540	57386	2.3	3.3	93.2	1.2	6.0a	7.9		none	
SBR58-5994	1540-1550	57387	4.4	2.9	91.0	1.7	11.6	7.0	.920	none	
SBR58-5995	1550-1560	57388	3.1	1.6	93.3	2.0	8.2a	3.7		none	
SBR58-5996	1560-1570	57389	2.0	2.0	94.6	1.4	5.2a	4.7		none	
SBR58-5997	1570-1580	57390	2.0	1.8	94.9	1.3	5.3a	4.4		none	

a. - Specific gravity estimated due to insufficient oil.

Drill cutting samples received July 1, 1958; assays made on air-dried samples.

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from El Paso Natural Gas Company's Southman Canyon Unit Well No. 4 drilled in the SW1/4, NE1/4
NE1/4 of sec. 29, T. 10 S., R. 24 E., Uintah County, Utah

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		Tendency to coke	
Laramie	Their		Oil	Water					Oil	Water
SER58-5998	1580-1590	57391	1.9	1.6	96.0	0.5	4.8a	3.8		none
SER58-5999	1590-1600	57392	1.0	1.6	96.9	.5	2.6a	3.8		none
SER58-6000	1600-1610	57393	1.5	1.7	96.2	.6	3.9a	4.0		none
SER58-6001	1610-1620	57394	1.2	1.9	96.3	.6	3.2a	4.6		none
SER58-6002	1620-1630	57395	1.0	2.1	96.2	.7	2.5a	5.0		none
SER58-6003	1630-1640	57396	1.5	1.9	95.8	.8	3.8a	4.6		none
SER58-6004	1640-1650	57397	2.1	1.7	95.4	.8	5.5	4.1	0.913	none
SER58-6005	1650-1660	57398	1.2	1.7	96.4	.7	3.2a	4.0		none
SER58-6006	1660-1670						b			
SER58-6007	1670-1680						no oil			
SER58-6008-9	1680-1700						c			
SER58-6010	1700-1710						b			
SER58-6011-2	1710-1730						no oil			
SER58-6013	1730-1740						trace			
SER58-6014	1740-1750						no oil			
SER58-6015	1750-1760						trace			
SER58-6016-7	1760-1780						no oil			
SER58-6018	1780-1790						b			
SER58-6019-20	1790-1810						trace			
SER58-6021	1810-1820						no oil			
SER58-6022	1820-1830						trace			
SER58-6023-7	1830-1880						no oil			
SER58-6028	1880-1890						trace			
SER58-6029	1890-1900	57399	1.3	2.3	95.7	.7	3.4a	5.5		none
SER58-6030	1900-1910	57400	4.8	1.7	92.4	1.1	12.7	4.1	.906	none
SER58-6031-4	1910-1950						b			
SER58-6035-6	1950-1970						c			
SER58-6037	1970-1980						b			
SER58-6038-9	1980-2000						no oil			
SER58-6040	2000-2010						b			

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 July 1, 1958; assays made on air-dried samples.

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from El Paso Natural Gas Company's Southman Canyon Unit Well No. 4 drilled in the SW1/4, NE1/4
NE1/4 of sec. 29, T. 10 S., R. 24 E., Uintah County, Utah

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					Oil	Water
SBR58-6041	2020-2030						b			
SBR58-6042	2030-2040						trace			
SBR58-6043-5	2040-2070						b			
SBR58-6046	2070-2080						trace			
SBR58-6047-9	2080-2110						no oil			
SBR58-6050	2110-2120						trace			
SBR58-6051-2	2120-2140						no oil			
SBR58-6053	2140-2150						trace			
SBR58-6054-5	2150-2170						c			
SBR58-6056	2170-2180						b			
SBR58-6057	2180-2190						no oil			
SBR58-6058-9	2190-2210						b			
SBR58-6060-2	2210-2240						no oil			
SBR58-6063	2240-2250						b			
SBR58-6064-70	2250-2320						no oil			
SBR58-6071	2320-2330						b			
SBR58-6072	2330-2340	57401	4.5	2.7	91.7	1.1	12.2	6.5	0.896	none
SBR58-6073	2340-2350	57402	3.2	2.0	93.9	.9	8.5	4.8	.893	none
SBR58-6074	2350-2360	57403	3.0	2.0	94.0	1.0	8.1	4.8	.894	none
SBR58-6075	2360-2370	57404	1.7	2.3	95.2	.8	4.5a	5.4		none
SBR58-6076-9	2370-2410						no oil			
SBR58-6080-3	2410-2450						c			
SBR58-6084-7	2450-2500						no oil			
SBR58-6088	2500-2510						c			
SBR58-6089	2510-2520	57405	3.0	2.0	93.8	1.2	8.3	4.8	.872	none
SBR58-6090	2520-2530	57406	5.2	2.0	91.4	1.4	13.7	4.8	.907	none
SBR58-6091	2530-2540	57407	4.1	1.9	93.1	.9	10.9	4.6	.895	none
SBR58-6092	2540-2550	57408	5.0	2.6	90.8	1.6	13.4	6.2	.903	none
SBR58-6093	2550-2560	57409	4.1	2.2	92.6	1.1	11.1	5.2	.895	none
SBR58-6094	2560-2570	57410	3.1	2.3	93.5	1.1	8.4	5.5	.891	none

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 July 11, 1958; assays made on air-dried samples.

Petroleum and Oil Shale Experiment Station, Laramie, Wyoming, Illustration No. SBR-246P August 13, 1958

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from El Paso Natural Gas Company's Southman Canyon Unit Well No. 4 drilled in the SW1/4, NE1/4
NE1/4 of sec. 29, T. 10 S., R. 24 E., Uintah County, Utah

Sample number		Run No.	Yield of product				Gal. per ton		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	Water	
SBR58-6095	2570-2580	57411	3.1	2.0	93.8	1.1	8.2	4.8	0.894	none	
SBR58-6096	2580-2590	57412	3.0	2.0	94.1	.9	8.0	4.7	.895	none	
SBR58-6097	2590-2600	57413	2.3	1.8	95.0	.9	6.1	4.3	.892	none	
SBR58-6098-105	2600-2680						c				
SBR58-6106	2680-2690						b				
SBR58-6107	2690-2700						no 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 July 11, 1958; assays made on air-dried samples.