

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Bureau of Mines Wyoming Corehole No. 2 drilled in NW1/4SE1/4 (1161 feet S/C  
1610 feet W/E) of sec 28, T 22 N, R 107 W, Sweetwater County, Wyoming

Surface elevation 6,721 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		Gal per ton					
Interval	Interval	Oil	Water	Spent shale	Gas + loss	Oil <sub>1</sub> /Water			
-3543-80	100.0-480.0					No Oil			
-3581-82	480.0-500.0					b			
-3583	500.0-505.0					Trace			
-3584	505.0-510.0					No Oil			
-3585-86	510.0-520.0					b			
-3587	520.0-525.0					No Oil			
-3588	525.0-530.0	70445	1.8	1.9	95.1	1.2	4.8a	4.6	None
-3589	530.0-535.0	70446	1.1	2.0	96.0	.9	2.9a	4.8	None
-3590	535.0-540.0	70447	1.6	2.1	95.7	.6	4.1a	5.0	None
-3591	540.0-545.0	70448	.7	2.2	96.4	.7	1.8a	5.3	None
-3592	545.0-550.0	70449	.0	2.2	97.4	.4	No Oil	5.3	None
-3593	550.0-555.0						No Oil		
-3594	555.0-560.0	70450	.0	1.7	98.2	.1	No Oil	4.1	None
-3595-3603							No Oil		
-3604	605.0-610.0	70451	.0	2.0	97.7	.3	Trace	4.8	None
-3605	610.0-615.0	70452	.5	1.4	97.4	.7	1.3a	3.4	None
-3606	615.0-620.0	70453	.8	1.7	96.9	.6	2.0a	4.1	None
-3607	620.0-625.0	70454	.0	1.9	97.7	.4	Trace	4.5	None
-3608-26	625.0-720.0						No Oil		
-3627	720.0-722.5	70455	.0	2.8	96.8	.4	Trace	6.6	None
-3628	722.5-725.8	70456	.0	2.1	97.3	.6	Trace	4.9	None
-3629	725.8-728.4	70457	.0	1.7	97.8	.5	Trace	4.1	None
-3630	728.4-729.6	70458	.2	2.4	96.9	.5	.4a	5.8	None
-3631	729.6-730.6	70459	.0	1.8	97.4	.8	No Oil	4.2	None
-3632	730.6-733.2	70460	.0	2.3	97.2	.5	Trace	5.4	None
-3633	733.2-735.6	70461	.0	2.4	97.4	.2	Trace	5.7	None
-3634	735.6-737.1	70462	.0	2.1	97.1	.8	No Oil	4.9	None
-3635	737.1-739.0	70463	.0	2.2	97.2	.6	No Oil	5.3	None
-3636	739.0-740.8	70464	.0	2.1	97.3	.6	No Oil	5.0	None
-3637	740.8-742.8	70465	.0	2.0	97.4	.6	No Oil	4.9	None

Footnote at end of table.

Core and drill cutting samples received September 13, 1971; Assays made on air-dried samples

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from USBM Wyoming Corehole No. 2 (Con.)

Surface elevation 6,721 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				Gal per ton						
		Laramie	Their	Oil	Water	Spent shale	Gas + loss	Oil <sup>1/</sup>				Water
SBR72-3638		742.8-744.9	70466	0.0	2.5	97.0	0.5	No Oil	5.9		None	
SBR72-3639		744.9-746.3	70467	.0	2.4	97.0	.6	Trace	5.7		None	
SBR72-3640		746.3-748.0	70468	.0	2.2	97.3	.5	No Oil	5.2		None	
SBR72-3641		748.0-750.0	70469	.0	2.3	97.1	.6	No Oil	5.4		None	
SBR72-3642		750.0-752.5	70470	.0	1.9	97.3	.8	No Oil	4.6		None	
SBR72-3643		752.5-755.9	70471	.0	2.6	97.0	.4	No Oil	6.3		None	
SBR72-3644		755.9-758.0	70472	.0	2.4	97.2	.4	No Oil	5.7		None	
SBR72-3645		758.0-761.0	70473	.0	2.0	97.6	.4	No Oil	4.7		None	
SBR72-3646		761.0-763.2	70474	.0	2.1	97.5	.4	No Oil	5.1		None	
SBR72-3647		763.2-765.3	70475	.0	2.5	97.0	.5	Trace	6.0		None	
SBR72-3648	770.1	765.3-768.0	70476	.0	2.5	97.0	.5	Trace	5.9		None	
SBR72-3649	772.8	768.0-771.8	70477	.0	4.0	95.6	.4	Trace	9.6		None	
SBR72-3650	776.6	771.8-773.0	70478	.4	3.0	95.8	.8	.9a	7.2		None	
SBR72-3651	777.8	773.0-774.0	70479	3.3	1.9	93.3	1.5	8.5	4.6	0.919	None	
SBR72-3652	778.8	774.0-775.0	70480	4.0	1.7	92.5	1.8	10.6	4.1	.911	None	
SBR72-3653	779.8	775.0-776.2	70481	5.3	1.6	91.3	1.8	14.4	3.8	.889	None	Footage correction
SBR72-3654		781.0-782.0	70482	2.8	2.4	93.4	1.4	7.5	5.8	.905	None	
SBR72-3655		782.0-785.0	70483	.0	2.3	97.3	.4	Trace	5.5		None	
SBR72-3656		785.0-787.1	70484	.0	2.6	97.3	.1	Trace	6.1		None	
SBR72-3657		787.1-789.0	70485	2.3	2.5	94.3	.9	5.8	6.0	.927	None	
SBR72-3658		789.0-792.7	70486	.4	2.0	97.1	.5	1.1a	4.8		None	
SBR72-3659		792.7-793.7	70487	.3	2.9	96.2	.6	.7a	7.0		None	
SBR72-3660		793.7-794.5	70488	.3	3.1	96.0	.6	.9a	7.4		None	
SBR72-3661		794.5-795.6	70489	.1	.3	99.4	.2	.2a	.7		None	
SBR72-3662		795.6-796.3	70490	1.9	2.4	94.4	1.3	5.0a	5.8		None	
SBR72-3663		796.3-797.9	70491	.2	2.4	96.9	.5	.6a	5.8		None	
SBR72-3664		797.9-800.3	70492	.0	1.7	97.7	.6	Trace	4.1		None	
SBR72-3665		800.3-801.3	70493	2.0	2.4	94.3	1.3	5.2a	5.8		None	
SBR72-3666		801.3-802.8	70494	2.5	2.7	93.5	1.3	6.6	6.5	.928	None	
SBR72-3667		802.8-804.3	70495	.0	.3	99.0	.7	No Oil	.8		None	

See footnote at end of table.

Core and drill cutting samples received September 13, 1971; Assays made on air-dried samples

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from USBM Wyoming Corehole No. 2 (Con.)

Surface elevation 6,721 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		Gal per ton			Tendency to		
			Oil	Water	Spent shale	Gas + loss	Oil <sup>1/</sup>	Water	coke	
SER72-3668	804.3-805.7	70496	0.3	0.7	98.5	0.5	0.8a	1.7	None	
SER72-3669	805.7-806.2	70497	.8	1.8	96.4	1.0	2.0a	4.4	None	
SER72-3670	806.2-807.2	70498	3.8	1.8	92.8	1.6	9.8	4.3	0.916	None
SBR72-3671	807.2-808.2	70499	4.6	1.7	91.9	1.8	12.2	4.1	.907	None
SBR72-3672	808.2-809.3	70500	4.4	1.4	92.1	2.1	11.9	3.2	.893	None
SBR72-3673	809.3-810.3	70501	2.4	2.4	93.7	1.5	6.4	5.8	.911	None
SER72-3674	810.3-811.3	70502	3.7	2.3	92.5	1.5	9.5	5.5	.928	None
SER72-3675	811.3-812.7	70503	1.9	2.5	94.6	1.0	4.8a	6.0		None
SER72-3676	812.7-813.7	70504	2.2	2.5	94.4	.9	5.8	6.0	.917	None
SER72-3677	813.7-814.7	70505	2.1	2.6	94.4	.9	5.5	6.2	.907	None
SER72-3678	814.7-815.7	70506	1.4	2.6	94.8	1.2	3.7a	6.2		None
SBR72-3679	815.7-816.8	70507	1.7	2.4	95.2	.7	4.4a	5.9		None
SBR72-3680	816.8-818.0	70508	3.7	1.9	93.3	1.1	9.6	4.6	.911	None
SER72-3681	818.0-819.0	70509	3.1	2.5	93.2	1.2	8.0	6.0	.919	None
SER72-3682	819.0-820.4	70512	2.4	2.3	94.2	1.1	6.3	5.5	.920	None
SER72-3683	820.4-821.4	70513	1.7	3.0	93.5	1.8	4.5a	7.2		None
SER72-3684	821.4-822.5	70514	1.8	2.8	94.1	1.3	4.6a	6.7		None
SER72-3685	822.5-823.5	70515	4.5	3.0	90.6	1.9	11.9	7.1	.912	None
SER72-3686	823.5-824.5	70516	4.9	2.4	90.5	2.2	12.9	5.9	.908	None
SER72-3687	824.5-825.5	70517	4.8	2.4	91.1	1.7	12.8	5.6	.906	None
SER72-3688	825.5-827.0	70518	4.3	2.7	91.1	1.9	11.3	6.6	.908	None
SER72-3689	827.0-828.4	70519	7.5	2.2	87.9	2.4	19.8	5.2	.908	None
SBR72-3690	828.4-829.7	70520	11.7	1.7	84.2	2.4	30.6	4.1	.913	None
SBR72-3691	829.7-830.7	70521	5.7	1.5	91.1	1.7	15.0	3.6	.907	None
SBR72-3692	830.7-831.6	70522	4.4	1.2	92.8	1.6	11.6	3.0	.906	None
SBR72-3693	831.6-832.6	70523	6.0	1.7	90.3	2.0	15.9	4.1	.897	None
SBR72-3694	832.6-833.6	70524	8.5	1.9	86.7	2.9	22.1	4.6	.921	None
SBR72-3695	833.6-834.7	70525	6.2	1.3	90.6	1.9	16.3	3.1	.913	None
SBR72-3696	834.7-835.9	70526	5.4	1.2	91.6	1.8	14.0	2.9	.914	None
SBR72-3697	835.9-837.0	70527	5.5	.8	91.9	1.8	14.4	1.9	.913	None

See footnote at end of table.

Core and drill cutting samples received September 13, 1971; Assays made on air-dried samples

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Surface elevation 6,721 feet

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		Weight percent				Gal per ton					
		Laramie	Their	Oil	Water	Spent shale	Gas + loss	Oil <sup>1/</sup>			
SBR72-3698	70528	837.0-838.4	7.0	1.1	89.6	2.3	18.2	2.6	0.919	None	
SBR72-3699	70529	838.4-839.5	7.9	.8	88.9	2.4	20.9	2.0	.904	None	
SBR72-3700	70530	839.5-840.3	5.9	1.1	91.1	1.9	15.3	2.6	.923	None	
SBR72-3701	70531	840.3-841.1	8.3	.7	88.5	2.5	21.7	1.8	.914	None	
SBR72-3702	70532	841.1-841.8	7.8	.8	89.4	2.0	20.5	1.9	.911	None	
SBR72-3703	70533	841.8-842.5	9.5	1.2	88.1	1.2	25.1	2.9	.903	None	
SBR72-3704	70534	842.5-843.8	7.3	1.2	89.9	1.6	19.3	2.9	.906	None	
SBR72-3705	70535	843.8-845.1	7.5	1.9	88.1	2.5	19.7	4.7	.910	None	
SBR72-3706	70536	845.1-846.5	7.9	1.7	87.7	2.7	20.8	4.1	.916	None	
SBR72-3707	70537	846.5-847.5	9.4	2.1	85.7	2.8	24.7	5.0	.915	None	
SBR72-3708	70538	847.5-848.1	13.2	2.5	80.6	3.7	34.4	6.0	.917	None	
SBR72-3709	70539	848.1-849.2	5.7	.9	92.1	1.3	15.1	2.2	.910	None	
SBR72-3710	70540	849.2-850.6	4.2	2.5	91.8	1.5	11.1	6.0	.911	None	
SBR72-3711	70541	850.6-852.2	8.1	2.1	88.0	1.8	21.1	5.2	.916	None	
SBR72-3712	70542	852.2-852.9	11.2	2.5	83.2	3.1	29.4	6.1	.912	None	
SBR72-3713	70543	852.9-853.9	8.9	1.7	86.9	2.5	23.3	4.2	.911	None	
SBR72-3714	70544	853.9-855.0	6.2	3.0	88.9	1.9	16.2	7.2	.912	None	
SBR72-3715	70545	855.0-856.0	1.8	3.2	94.2	.8	4.6a	7.7		None	
SBR72-3716	70546	856.0-857.0	3.2	2.3	93.1	1.4	8.4	5.5	.910	None	
SBR72-3717	70547	857.0-858.0	2.7	2.2	94.0	1.1	7.1	5.3	.912	None	
SBR72-3718	70548	858.0-859.3	4.6	1.8	91.8	1.8	12.1	4.2	.916	None	
SBR72-3719	70549	859.3-860.3	3.4	1.4	94.0	1.2	9.0	3.4	.919	None	
SBR72-3720	70550	860.3-861.4	2.0	1.7	95.1	1.2	5.3	4.1	.913	None	
SBR72-3721	70551	861.4-862.4	1.5	3.0	94.9	.6	4.0a	7.2		None	
SBR72-3722	70552	862.4-863.5	1.2	2.4	95.7	.7	3.1a	5.9		None	
SBR72-3723	70553	863.5-864.5	1.9	2.4	94.8	.9	5.0a	5.8		None	
SBR72-3724	70554	864.5-865.8	2.4	2.1	94.3	1.2	6.4	5.0	.916	None	
SBR72-3725	70555	865.8-866.9	4.0	1.9	92.5	1.6	10.5	4.6	.917	None	
SBR72-3726	70556	866.9-867.9	4.9	2.0	91.3	1.8	12.9	4.8	.912	None	
SBR72-3727	70557	867.9-868.9	4.6	2.1	92.8	.5	12.2	5.0	.910	None	

See footnote at end of table.

Core and drill cutting samples received September 13, 1971; Assays made on air-dried samples

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Samples from USEM Wyoming Corehole No. 2 (Con.)

Surface elevation 6,721 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		Gal per ton							
Laramie	Their	Oil	Water	Spent shale	Gas + loss	Oil <sup>1</sup> / <sub>Water</sub>					
SBR72-3728	868.9-869.9	70558	3.8	1.9	92.8	1.5	10.0	4.6	0.913	None	
SBR72-3729	869.9-870.9	70559	3.9	2.3	91.8	2.0	10.3	5.5	.919	None	
SBR72-3730	870.9-871.9	70560	5.1	2.5	90.3	2.1	13.4	6.0	.912	None	
SBR72-3731	871.9-872.9	70561	6.0	2.0	89.9	2.1	16.0	4.8	.902	None	
SBR72-3732	872.9-873.9	70562	9.3	2.6	85.0	3.1	24.5	6.2	.908	None	
SBR72-3733	873.9-874.9	70563	6.7	2.2	88.5	2.6	17.7	5.3	.913	None	
SBR72-3734	874.9-876.0	70564	4.4	1.7	91.9	2.0	11.5a	4.0		None	
SBR72-3735	876.0-877.0	70565	3.3	1.2	93.4	2.1	8.6	2.8	.917	None	
SBR72-3736	877.0-878.0	70566	6.4	2.5	88.8	2.3	16.8	6.0	.910	None	
SBR72-3737	878.0-879.2	70567	6.1	2.9	88.4	2.6	15.9	7.0	.913	None	
SBR72-3738	879.2-880.3	70568	11.1	3.3	82.1	3.5	29.2	7.9	.907	None	
SBR72-3739	880.3-881.5	70569	10.2	3.3	83.3	3.2	26.8	7.9	.910	None	
SBR72-3740	881.5-882.3	70570	4.8	2.2	91.1	1.9	12.7	5.3	.910	None	
SBR72-3741	882.3-884.1	70571	2.3	1.5	94.9	1.3	5.9	3.6	.920	None	
SBR72-3742	884.1-885.4	70572	2.6	1.4	94.6	1.4	6.8	3.4	.924	None	
SBR72-3743	885.4-886.5	70573	6.9	2.0	88.5	2.6	18.2	4.8	.915	None	
SBR72-3744	886.5-887.8	70574	12.9	2.3	81.0	3.8	33.9	5.5	.910	None	
SBR72-3745	887.8-889.3	70575	12.5	2.3	81.5	3.7	32.9	5.5	.909	None	
SBR72-3746	889.3-891.1	70576	8.8	2.0	86.2	3.0	23.3	4.8	.909	None	
SBR72-3747	891.1-893.0	70577	6.3	1.7	89.8	2.2	16.6	4.1	.914	None	
SBR72-3748	893.0-894.4	70578	4.0	1.5	92.9	1.6	10.5	3.6	.907	None	
SBR72-3749	894.4-895.4	70579	6.2	1.3	90.6	1.9	16.5	3.1	.902	None	
SBR72-3750	895.4-897.2	70580	7.3	1.6	88.7	2.4	19.4	3.7	.900	None	
SBR72-3751	897.2-898.2	70581	4.2	1.3	92.9	1.6	11.0	3.1	.909	None	
SBR72-3752	898.2-899.2	70582	3.3	.8	94.8	1.1	8.7	1.8	.908	None	
SBR72-3753	899.2-900.2	70583	4.3	1.4	92.6	1.7	11.5	3.2	.904	None	
SBR72-3754	900.2-901.2	70584	8.6	1.7	87.2	2.5	22.7	4.1	.902	None	
SBR72-3755	901.2-902.2	70585	11.2	1.9	84.1	2.8	29.7	4.6	.904	None	
SBR72-3756	902.2-904.0	70586	4.2	1.7	92.3	1.8	11.3	4.0	.903	None	
SBR72-3757	904.0-905.1	70587	3.7	.9	94.3	1.1	9.8	2.0	.907	None	

See footnote at end of table.

Core and drill cutting samples received September 13, 1971; Assays made on air-dried samples

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Surface elevation 6,721 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 <sup>1/</sup>	Water	of oil at 60°/60° F	coke		
SBR72-3758	905.1-905.8	70588	4.9	2.5	91.1	1.5	13.0	6.0	0.908	None		
SBR72-3759	905.8-907.2	70589	20.0	2.4	72.0	5.6	53.1	5.9	.903	Medium		
SBR72-3760	907.2-908.5	70590	20.0	2.3	72.3	5.4	53.1	5.6	.901	Medium		
SBR72-3761	908.5-909.4	70591	7.0	1.2	88.7	3.1	18.3	2.9	.915	None		
SBR72-3762	909.4-910.5	70592	4.8	2.2	91.0	2.0	12.6	5.3	.910	None		
SBR72-3763	910.5-911.5	70593	2.0	1.7	95.3	1.0	5.1a	4.2		None		
SBR72-3764	911.5-913.0	70594	6.9	1.1	89.8	2.2	18.1	2.6	.913	None		
SBR72-3765	913.0-914.0	70595	4.1	1.4	92.0	2.5	10.6	3.4	.915	None		
SBR72-3766	914.0-915.0	70596	3.4	1.7	92.7	2.2	8.8	4.1	.922	None		
SBR72-3767	915.0-916.0	70597	2.4	2.8	92.1	2.7	6.2	6.7	.922	None		
SBR72-3768	916.0-917.0	70598	1.9	1.9	95.1	1.1	5.0a	4.6		None		
SBR72-3769	917.0-918.1	70599	1.8	.9	96.0	1.3	4.8a	2.0		None		
SBR72-3770	918.1-919.4	70600	9.4	1.1	86.9	2.6	24.7	2.6	.909	None		
SBR72-3771	919.4-920.2	70601	14.2	1.3	80.6	3.9	37.5	3.0	.909	Slight		
SBR72-3772	920.2-921.1	70602	14.5	1.6	80.2	3.7	38.4	4.0	.902	Slight		
SBR72-3773	921.1-922.2	70603	4.0	.4	93.9	1.7	10.5	1.0	.904	None		
SBR72-3774	922.2-923.3	70604	3.6	.6	94.7	1.1	9.5	1.3	.911	None		
SBR72-3775	923.3-924.4	70605	9.7	.8	86.9	2.6	25.7	1.9	.907	None		
SBR72-3776	924.4-925.4	70606	15.1	1.5	79.8	3.6	40.0	3.5	.906	None		
SBR72-3777	925.4-926.4	70607	14.4	1.5	79.9	4.2	38.1	3.6	.905	None		
SBR72-3778	926.4-926.8	70608	9.6	1.1	86.8	2.5	26.0	2.6	.881	None	Banded tuff	
SBR72-3779	926.8-927.4	70609	13.3	1.2	81.7	3.8	35.3	2.9	.902	None		
SBR72-3780	927.4-928.4	70610	8.4	1.4	87.2	3.0	22.0	3.5	.911	None		
SBR72-3781	928.4-929.5	70611	6.5	.8	90.2	2.5	17.0	1.9	.915	None		
SBR72-3782	929.5-930.8	70612	2.0	.4	96.4	1.2	5.1a	1.0		None		
SBR72-3783	930.8-932.3	70613	2.2	.7	95.7	1.4	5.9	1.7	.920	None		
SBR72-3784	932.3-933.3	70614	2.2	.5	95.9	1.4	5.8	1.2	.915	None		
SBR72-3785	933.3-934.3	70615	10.0	.8	86.8	2.4	26.5	1.9	.904	None		
SBR72-3786	934.3-935.3	70616	17.8	1.4	77.2	3.6	47.1	3.4	.905	Medium		
SBR72-3787	935.3-936.4	70617	6.9	.8	90.1	2.2	18.2	1.9	.913	None		

See footnote at end of table.

Core and drill cutting samples received September 13, 1971; Assays made on air-dried samples

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from USBM Wyoming Corehole No. 2 (Con.)

Surface elevation 6,721 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 <sup>1/</sup>	Water	coke	
SBR72-3788	936.4-937.4	70618	1.9	0.4	96.0	1.7	5.0a	1.0	None	
SBR72-3789	937.4-938.5	70619	.9	4.1	93.6	1.4	2.2a	9.8	None	
SBR72-3790	938.5-939.6	70620	.6	3.5	95.1	.8	1.5a	8.4	None	
SBR72-3791	939.6-940.6	70621	2.4	.3	96.0	1.3	6.2	.8	0.915	None
SBR72-3792	940.6-941.6	70622	17.3	1.5	76.6	4.6	46.0	3.6	.904	Medium
SBR72-3793	941.6-942.6	70623	17.2	1.5	76.5	4.8	45.6	3.6	.906	Medium
SBR72-3794	942.6-943.6	70624	6.6	1.2	90.0	2.2	17.3	2.9	.913	None
SBR72-3795	943.6-944.6	70625	2.1	1.0	95.7	1.2	5.5	2.4	.909	None
SBR72-3796	944.6-946.2	70626	.7	1.3	97.4	.6	1.8a	3.1		None
SBR72-3797	946.2-947.2	70630	1.0	1.5	97.0	.5	2.5a	3.6		None
SBR72-3798	947.2-948.2	70631	3.3	1.4	93.9	1.4	8.6	3.4	.928	None
SBR72-3799	948.2-949.6	70632	1.8	1.5	95.7	1.0	4.7a	3.6		None
SBR72-3800	949.6-950.8	70633	.5	1.5	97.4	.6	1.2a	3.6		None
SBR72-3801	950.8-952.0	70634	.4	1.1	97.8	.7	1.1a	2.6		None
SBR72-3802	952.0-953.1	70635	1.0	3.0	95.4	.6	2.5a	7.2		None
SBR72-3803	953.1-954.1	70636	14.5	2.0	79.7	3.8	38.3	4.7	.907	None
SBR72-3804	954.1-955.1	70637	22.2	2.6	69.4	5.8	58.9	6.2	.904	Medium
SBR72-3805	955.1-956.1	70638	19.5	2.6	69.7	8.2	51.4	6.2	.909	Slight
SBR72-3806	956.1-957.2	70639	8.2	1.0	87.8	3.0	21.6	2.5	.908	None
SBR72-3807	957.2-958.2	70640	3.5	1.5	93.3	1.7	9.2	3.6	.914	None
SBR72-3808	958.2-959.5	70641	1.2	2.0	96.1	.7	3.1a	4.8		None
SBR72-3809	959.5-960.7	70642	1.8	1.6	95.6	1.0	4.6a	4.0		None
SBR72-3810	960.7-962.0	70643	2.0	1.4	95.2	1.4	5.2a	3.4		None
SBR72-3811	962.0-963.0	70644	5.9	1.2	89.7	3.2	15.6	2.9	.912	None
SBR72-3812	963.0-964.0	70645	9.5	1.2	85.7	3.6	25.0	2.8	.911	None
SBR72-3813	964.0-965.6	70646	7.1	1.2	89.0	2.7	18.7	2.8	.911	None
SBR72-3814	965.6-966.6	70647	8.4	1.2	87.4	3.0	22.0	3.0	.912	None
SBR72-3815	966.6-967.4	70648	4.3	1.1	92.8	1.8	11.2	2.8	.912	None
SBR72-3816	967.4-968.0	70649	2.0	2.1	94.1	1.8	5.2a	5.0		None
SBR72-3817	968.0-969.2	70650	1.9	2.4	93.9	1.8	5.0a	5.8		None

See footnote at end of table.

Core and drill cutting samples received September 13, 1971; Assays made on air-dried samples

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from USBM Wyoming Corehole No. 2 (Con.)

Surface elevation 6,721 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			Gal per ton						
Laramie	Their	Oil	Water	Spent shale	Gas + loss	Oil <sup>1/</sup>	Water				
SBR72-3818	969.2-970.5	70651	13.1	1.5	81.9	3.5	34.7	3.6	0.906	Slight	
SBR72-3819	970.5-971.7	70652	15.8	1.4	79.0	3.8	41.7	3.4	.905	Medium	
SBR72-3820	971.7-973.0	70653	12.4	1.4	82.8	3.4	32.9	3.4	.901	Medium	
SBR72-3821	973.0-973.7	70654	3.0	1.6	94.2	1.2	8.0	4.0	.892	None	
SBR72-3822	973.7-974.6	70655	1.1	1.8	96.0	1.1	2.8a	4.4		None	
SBR72-3823	974.6-975.1	70656	7.9	1.1	87.7	3.3	20.7	2.6	.915	None	
SBR72-3824	975.1-976.1	70657	9.3	1.6	86.4	2.7	24.7	3.8	.900	None	
SBR72-3825	976.1-977.0	70658	15.9	2.0	77.8	4.3	42.3	4.8	.900	None	
SBR72-3826	977.0-978.0	70659	5.2	.9	91.7	2.2	13.8	2.2	.906	None	
SBR72-3827	978.0-979.7	70660	1.9	2.2	94.8	1.1	5.0	5.2	.903	None	
SBR72-3828	979.7-980.6	70661	5.3	1.8	90.6	2.3	13.8	4.4	.914	None	
SBR72-3829	980.6-981.6	70662	5.4	1.6	90.2	2.8	14.1	3.8	.918	None	
SBR72-3830	981.6-982.1	70663	.2	.7	98.2	.9	.6a	1.7		None	Main tuff
SBR72-3831	982.1-983.0	70664	4.0	1.4	92.8	1.8	10.5	3.4	.919	None	
SBR72-3832	983.0-984.0	70665	2.1	1.7	94.8	1.4	5.7	4.1	.901	None	
SBR72-3833	984.0-985.5	70666	2.4	1.6	95.2	.8	6.4	3.8	.890	None	
SBR72-3834	985.5-986.6	70667	2.7	1.4	94.9	1.0	7.1	3.4	.898	None	
SBR72-3835	986.6-987.5	70668	3.7	1.2	94.0	1.1	9.8	2.9	.902	None	
SBR72-3836	987.5-988.4	70669	6.7	1.3	90.1	1.9	17.9	3.1	.899	None	
SBR72-3837	988.4-989.8	70670	4.6	1.4	92.1	1.9	12.0	3.4	.906	None	
SBR72-3838	989.8-991.0	70671	5.4	1.7	90.7	2.2	14.1	4.1	.914	None	
SBR72-3839	991.0-992.5	70672	4.5	1.4	92.1	2.0	11.7	3.4	.919	None	
SBR72-3840	992.5-993.9	70673	3.3	1.4	93.5	1.8	8.6	3.4	.919	None	
SBR72-3841	993.9-995.3	70674	1.9	1.7	95.1	1.3	5.1	4.1	.910	None	
SBR72-3842	995.3-996.3	70675	2.7	1.0	94.8	1.5	7.0	2.4	.912	None	
SBR72-3843	996.3-997.6	70676	4.1	1.4	92.9	1.6	10.5	3.4	.921	None	
SBR72-3844	997.6-998.8	70677	2.4	1.3	94.4	1.9	6.3	3.1	.918	None	
SBR72-3845	998.8-999.8	70679	2.2	1.3	94.5	2.0	5.7	3.1	.921	None	
SBR72-3846	999.8-1000.8	70680	2.2	.8	95.3	1.7	5.8	1.8	.921	None	
SBR72-3847	1000.8-1001.8	70681	2.1	.7	95.2	2.0	5.5	1.7	.927	None	

See footnote at end of table.

Core and drill cutting samples received September 13, 1971; Assays made on air-dried samples



## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from USBM Wyoming Corehole No. 2 (Con.)

Surface elevation 6,721 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 <sup>1/</sup>	Water	coke	
SBR72-3848	1001.8-1002.9	70682	3.6	0.9	93.2	2.3	9.3	2.3	None	
SBR72-3849	1002.9-1004.5	70683	9.1	1.2	86.8	2.9	24.3	2.9	None	
SBR72-3850	1004.5-1005.5	70684	10.4	1.6	84.7	3.3	27.9	3.7	None	
SBR72-3851	1005.5-1006.5	70685	8.6	1.5	86.7	3.2	22.8	3.7	None	
SBR72-3852	1006.5-1007.5	70686	5.6	1.8	89.6	3.0	14.8	4.3	None	
SBR72-3853	1007.5-1008.5	70687	5.2	1.9	90.0	2.9	13.6	4.6	None	
SBR72-3854	1008.5-1010.4	70688	2.6	1.1	94.5	1.8	6.7	2.8	None	
SBR72-3855	1010.4-1012.4	70689	1.9	2.2	94.2	1.7	5.0a	5.3	None	
SBR72-3856	1012.4-1013.7	70690	1.9	1.1	95.9	1.1	5.0a	2.6	None	
SBR72-3857	1013.7-1014.7	70691	2.6	1.4	94.5	1.5	6.7	3.4	None	
SBR72-3858	1014.7-1015.7	70692	4.4	1.4	92.3	1.9	11.4	3.4	None	
SBR72-3859	1015.7-1017.3	70693	7.9	1.6	88.0	2.5	20.9	3.8	None	
SBR72-3860	1017.3-1019.1	70694	5.3	1.6	90.6	2.5	14.0	3.8	None	
SBR72-3861	1019.1-1020.2	70695	4.1	1.3	93.0	1.6	10.5	3.1	None	
SBR72-3862	1020.2-1021.5	70696	5.0	1.5	91.3	2.2	12.9	3.7	None	
SBR72-3863	1021.5-1022.8	70697	7.3	2.4	87.6	2.7	19.1	5.8	None	
SBR72-3864	1022.8-1023.8	70698	2.2	1.1	95.4	1.3	5.8	2.6	None	
SBR72-3865	1023.8-1025.0	70699	3.2	1.5	94.0	1.3	8.4	3.6	None	
SBR72-3866	1025.0-1026.0	70700	3.0	1.8	94.0	1.2	8.0	4.2	None	
SBR72-3867	1026.0-1027.0	70701	2.0	2.0	94.8	1.2	5.1a	4.8	None	
SBR72-3868	1027.0-1028.6	70702	1.5	.8	96.5	1.2	4.0a	1.8	None	
SBR72-3869	1028.6-1030.2	70703	1.4	.9	96.5	1.2	3.6a	2.2	None	
SBR72-3870	1030.2-1031.7	70704	3.2	.8	94.8	1.2	8.2a	1.9	None	
SBR72-3871	1031.7-1032.9	70705	5.8	2.2	90.0	2.0	15.4	5.2	None	
SBR72-3872	1032.9-1033.9	70706	10.1	2.4	84.4	3.1	26.6	5.8	None	
SBR72-3873	1033.9-1035.0	70707	10.4	1.6	85.3	2.7	27.6	3.8	None	
SBR72-3874	1035.0-1036.1	70714	13.5	2.0	80.5	4.0	36.0	4.8	None	
SBR72-3875	1036.1-1037.1	70715	6.2	2.6	88.6	2.6	16.3	6.2	None	
SBR72-3876	1037.1-1038.7	70716	2.4	1.4	94.4	1.8	6.2	3.4	None	
SBR72-3877	1038.7-1040.3	70717	1.8	.9	95.7	1.6	4.8a	2.2	None	

See footnote at end of table.

Core and drill cutting samples received September 13, 1971; Assays made on air-dried samples

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from USBM Wyoming Corehole No. 2 (Con.)

Surface elevation 6,721 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 <sup>1/</sup>	Water	coke			
SBR72-3878	1040.3-1040.8	70718	5.5	1.6	90.7	2.2	14.4	3.8	0.913	None	
SBR72-3879	1040.8-1041.8	70719	9.4	2.1	85.3	3.2	24.9	4.9	.908	None	
SBR72-3880	1041.8-1042.4	70720	10.9	2.2	83.9	3.0	28.7	5.3	.908	None	
SBR72-3881	1042.4-1043.7	70721	13.4	2.0	81.1	3.5	35.4	4.8	.910	None	Footage correction
SBR72-3882	1045.0-1046.0	70722	3.4	1.6	92.0	3.0	8.9	3.8	.917	None	
SBR72-3883	1046.0-1048.0	70723	1.5	1.1	96.4	1.0	3.9a	2.6		None	
SBR72-3884	1048.0-1049.2	70724	1.8	1.0	96.0	1.2	4.8a	2.4		None	
SBR72-3885	1049.2-1050.2	70726	15.4	2.4	78.1	4.1	40.7	5.6	.908	Slight	
SBR72-3886	1050.2-1051.2	70727	14.8	2.4	78.1	4.7	38.9	5.8	.912	Slight	
SBR72-3887	1051.2-1052.3	70728	15.6	2.0	78.1	4.3	40.9	4.8	.914	Slight	
SBR72-3888	1052.3-1053.3	70729	15.9	3.3	77.2	3.6	42.0	7.9	.907	Slight	
SBR72-3889	1053.3-1054.7	70730	3.0	2.4	93.0	1.6	7.9	5.8	.919	None	
SBR72-3890	1054.7-1056.0	70731	1.8	1.0	95.9	1.3	4.7a	2.4		None	
SBR72-3891	1056.0-1057.3	70732	.8	3.0	95.4	.8	2.0a	7.2		None	
SBR72-3892	1057.3-1058.3	70733	10.4	2.5	83.5	3.6	27.7	6.0	.904	None	
SBR72-3893	1058.3-1059.4	70734	12.4	2.3	80.4	4.9	32.8	5.4	.907	Slight	
SBR72-3894	1059.4-1060.4	70735	14.5	2.2	79.4	3.9	38.4	5.3	.905	Slight	
SBR72-3895	1060.4-1061.4	70736	15.1	2.5	78.8	3.6	40.0	6.0	.903	Slight	
SBR72-3896	1061.4-1063.0	70737	3.4	1.2	94.1	1.3	8.9	3.0	.912	None	
SBR72-3897	1063.0-1064.0	70738	.8	.3	97.9	1.0	2.2a	.6		None	
SBR72-3898	1064.0-1065.3	70739	16.0	2.5	76.3	5.2	42.0	6.0	.911	None	
SBR72-3899	1065.3-1066.6	70740	19.1	3.0	71.6	6.3	50.4	7.2	.909	Slight	
SBR72-3900	1066.6-1067.6	70741	7.4	2.0	87.7	2.9	19.4	4.8	.911	None	
SBR72-3901	1067.6-1069.1	70742	5.6	2.3	89.4	2.7	14.7	5.4	.915	None	
SBR72-3902	1069.1-1070.2	70743	1.3	1.5	95.8	1.4	3.4a	3.6		None	
SBR72-3903	1070.2-1071.2	70744	.7	1.0	97.0	1.3	1.9a	2.4		None	
SBR72-3904	1071.2-1072.2	70745	1.3	.7	96.6	1.4	3.3a	1.7		None	
SBR72-3905	1072.2-1073.1	70746	12.6	2.2	80.8	4.4	33.1	5.3	.914	None	
SBR72-3906	1073.1-1073.7	70747	9.4	2.2	85.2	3.2	24.7	5.3	.910	None	
SBR72-3907	1073.7-1074.4	70748	9.0	3.4	84.3	3.3	23.5	5.8	.914	None	

See footnote at end of table.

Core and drill cutting samples received September 13, 1971; Assays made on air-dried samples

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from USEM Wyoming Corehole No. 2 (Con.)

Surface elevation 6,721 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 <sup>1/</sup>	Water	coke			
SBR72-3908	1074.4-1075.3	70749	6.4	2.9	87.9	2.8	16.8	7.1	0.914	None		
SBR72-3909	1075.3-1077.0	70750	.5	1.4	97.5	.6	1.3a	3.4		None		
SBR72-3910	1077.0-1079.0	70751	.2	2.2	97.2	.4	0.6a	5.3		None		
SBR72-3911	1079.0-1081.0	70752	.2	1.8	97.4	.6	.6a	4.3		None		
SBR72-3912	1081.0-1083.0	70753	.3	1.6	97.6	.5	.7a	3.8		None		
SBR72-3913	1083.0-1084.5	70754	1.2	1.5	96.9	.4	3.0a	3.6		None		
SBR72-3914	1084.5-1085.6	70755	11.2	2.0	84.2	2.6	29.4	4.8	.913	None		
SBR72-3915	1085.6-1086.0	70756	5.7	2.0	90.1	2.2	15.0	4.8	.913	None		
SBR72-3916	1086.0-1087.2	70757	.9	1.5	96.9	.7	2.4a	3.5		None		
SBR72-3917	1087.2-1088.1	70758	1.8	1.9	95.4	.9	4.6a	4.7		None		
SBR72-3918	1088.1-1089.0	70759	10.5	1.7	85.3	2.5	27.9	4.1	.900	None		
SBR72-3919	1089.0-1089.9	70760	14.1	2.2	80.2	3.5	37.7	5.3	.898	None		
SBR72-3920	1089.9-1090.9	70761	6.7	3.2	87.8	2.3	17.9	7.7	.900	None		
SBR72-3921	1090.9-1091.9	70762	2.7	2.1	93.0	2.2	7.1	5.0	.915	None		
SBR72-3922	1091.9-1092.9	70763	.7	2.5	95.7	1.1	1.7a	6.0		None		
SBR72-3923	1092.9-1094.1	70764	9.3	3.2	83.3	4.2	24.5	7.7	.912	None		
SBR72-3924	1094.1-1095.3	70765	7.1	2.7	87.9	2.3	18.9	6.5	.905	None		
SBR72-3925	1095.3-1096.4	70766	4.6	2.8	90.5	2.1	12.2	6.7	.911	None		
SBR72-3926	1096.4-1097.6	70767	.9	2.9	94.7	1.5	2.4a	7.0		None		
SBR72-3927	1097.6-1098.5	70768	11.8	2.8	82.1	3.3	31.1	6.7	.909	None		
SBR72-3928	1098.5-1099.4	70769	12.2	2.4	82.1	3.3	32.0	5.8	.910	None		
SBR72-3929	1099.4-1100.9	70770	3.7	2.9	91.3	2.1	9.6	7.0	.917	None		
SBR72-3930	1100.9-1102.0	70771	.1	4.5	93.4	2.0	.3a	10.8		None		
SBR72-3931	1102.0-1103.0	70772	.1	8.3	90.6	1.0	.3a	19.9		None		
SBR72-3932	1103.0-1104.7	70773	2.0	2.3	94.2	1.5	5.2	5.5	.916	None		
SBR72-3933	1104.7-1107.0	70774	1.0	3.6	94.6	.8	2.5a	8.6		None		
SBR72-3934	1107.0-1108.9	70775	.1	7.6	91.2	1.1	.4a	18.2		None		
SBR72-3935	1108.9-1110.2	70776	3.2	3.0	91.7	2.1	8.2	7.2	.930	None		
SBR72-3936	1110.2-1111.9	70777	.0	5.4	93.7	.9	Trace	12.9		None		
SBR72-3937	1111.9-1113.0	70778	.0	9.7	89.5	.8	No Oil	23.2		None		

See footnote at end of table.

Core and drill cutting samples received September 13, 1971; Assays made on air-dried samples

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from USDM Wyoming Corehole No. 2 (Con.)

Surface elevation 6,721 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 <sup>1/</sup>	Water	coke	
SBR72-3938	1113.0-1115.0	70779	0.0	11.3	87.8	0.9	No Oil	27.0	None	
SBR72-3939	1115.0-1117.2	70780	.0	10.1	88.0	1.9	No Oil	24.3	None	

<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.

Core and drill cutting samples received September 13, 1971; Assays made on air-dried samples