

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from U. S. Bureau of Mine's Wyoming Corehole No. 5, drilled in NE1/4 SW1/4
(irregular section) (1195 feet S/N, 1556 feet E/W) of sec 3, T 24 N, R 107 W, Sweetwater County, Wyoming

Surface elevation 6611.4 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	Water		
SBR74-10558-67	100 -200					No oil		Drill-cutting samples:	
SBR74-10568-69	200 -220					Trace			
SBR74-10570	220 -230					b			
SBR74-10571-75	230 -265					No oil			
SBR74-10576-84	270 -315					No oil			
SBR74-10585	315 -320					Trace			
SBR74-10586	320 -325	94691	0.3	2.5	96.8	0.4	.7a	6.0	None
SBR74-10587	325 -330	94692	.0	2.3	97.0	.7	Trace	5.4	None
SBR74-10588	330 -335	94695	.0	2.7	96.7	.6	Trace	6.4	None
SBR74-10589	335 -340	94696	.0	2.7	97.1	.2	Trace	6.5	None
SBR74-10590	340 -345	94697	.0	2.8	96.5	.7	Trace	6.7	None
SBR74-10591	345 -349	94698	.0	2.3	97.3	.4	.1a	5.5	None
SBR74-10592	349 -351.1	94699	.1	2.0	97.6	.3	.1a	4.8	None
SBR74-10593	351.1-352.2	94700	.4	3.0	96.3	.3	.9a	7.2	None
SBR74-10594	352.2-353.3	94701	.0	3.0	96.5	.5	.1a	7.2	None
SBR74-10595	353.3-354.7	94702	.6	2.4	96.2	.8	1.6a	5.8	None
SBR74-10596	354.7-356.0	94703	.7	2.9	96.0	.4	1.8a	7.0	None
SBR74-10597	356.0-360.1	94704	.0	2.3	97.0	.7	No oil	5.4	None
SBR74-10598	360.3-363.0	94705	.0	2.4	96.7	.9	No oil	5.8	None
SBR74-10599	363 -366	94706	.1	2.6	96.1	1.2	.4a	6.2	None
SBR74-10600	366.0-367.7	94707	.2	3.1	95.5	1.2	.5a	7.4	None
SBR74-10601	367.7-369.4	94708	2.4	2.7	93.5	1.4	6.3a	6.5	None
SBR74-10602	369.4-372.8	94709	.1	3.0	96.0	.9	.2a	7.2	None
SBR74-10603	372.8-376.4	94710	.1	2.5	96.3	1.1	.3a	6.0	None
SBR74-10604	376.4-377.5	94711	1.5	2.6	94.6	1.3	4.0a	6.2	None
SBR74-10605	377.5-378.5	94712	1.7	3.0	94.1	1.2	4.3a	7.2	None
SBR74-10606	378.5-379.6	94713	.7	2.6	95.9	.8	1.8a	6.2	None
SBR74-10607	379.6-381.3	94714	.0	2.0	96.7	1.3	Trace	4.8	None
SBR74-10608	381.3-382.3	94715	.9	2.9	95.2	1.0	2.3a	7.0	None
SBR74-10609	382.3-386.0	94716	.1	2.2	96.8	.9	.2a	5.3	None

See footnote at end of table.

Core samples received June 13, 1972; assays made on air-dried samples.

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from U. S. Bureau of Mine's Wyoming Corehole No. 5

Surface elevation 6611.4 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	Water			
SBR74-10610	386 -389	94717	0.0	2.5	96.4	1.1	No oil	5.9	None	
SBR74-10611	389 -393	94718	.2	2.1	96.5	1.2	.6a	5.0	None	
SBR74-10612	393.0-396.7	94719	.3	1.7	96.8	1.2	.9a	4.1	None	
SBR74-10613	396.7-397.7	94720	.1	3.0	95.8	1.1	.2a	7.2	None	
SBR74-10614	397.7-398.8	94721	2.4	2.5	93.6	1.5	6.3	6.0	0.925	None
SBR74-10615	398.8-400.0	94722	2.0	2.5	94.4	1.1	5.3a	6.0	None	
SBR74-10616	400.3-401.7	94723	1.4	2.4	95.3	.9	3.8a	5.8	None	
SBR74-10617	401.7-403.2	94724	1.3	2.4	95.4	.9	3.4a	5.8	None	
SBR74-10618	403.2-404.2	94725	3.8	2.0	92.8	1.4	9.9	4.8	.910	None
SBR74-10619	404.2-405.3	94726	2.7	1.5	94.3	1.5	7.0	3.6	.911	None
SBR74-10620	405.3-406.5	94728	3.5	1.9	92.6	2.0	9.3	4.6	.899	None
SBR74-10621	406.5-407.6	94729	4.6	2.3	91.6	1.5	12.5	5.5	.892	None
SBR74-10622	407.6-409.2	94730	4.8	2.5	91.2	1.5	12.9	6.0	.899	None
SBR74-10623	409.2-410.9	94731	3.2	2.4	93.3	1.1	8.3	5.8	.918	None
SBR74-10624	410.9-413.1	94732	.0	2.1	97.7	.2	.1a	5.0	None	
SBR74-10625	413.1-413.7	94733	4.3	2.0	92.2	1.5	11.1	4.8	.916	None
SBR74-10626	413.7-416.0	94734	.1	2.3	97.3	.3	.3a	5.5	None	
SBR74-10627	416.0-417.6	94787	.4	2.5	96.4	.7	.9a	6.0	None	
SBR74-10628	417.6-418.6	94736	6.6	2.4	89.4	1.6	17.4	5.8	.909	None
SBR74-10629	418.6-419.9	94737	7.5	2.1	88.4	2.0	20.0	5.0	.905	None
SBR74-10630	419.9-420.9	94738	9.3	2.0	86.5	2.2	24.8	4.8	.904	None
SBR74-10631	420.9-421.7	94739	7.8	1.6	89.0	1.6	20.7	3.8	.905	None
SBR74-10632	421.7-422.5	94740	5.4	1.3	92.2	1.1	14.3	3.0	.908	None
SBR74-10633	422.5-423.2	94741	7.3	1.4	89.6	1.7	19.3	3.4	.906	None
SBR74-10634	423.2-423.7	94742	2.3	.7	96.4	.6	6.1	1.8	.904	None
SBR74-10635	423.7-424.7	94743	12.2	1.5	84.0	2.3	32.3	3.6	.906	None
SBR74-10636	424.7-425.6	94744	13.8	2.0	81.1	3.1	36.5	4.8	.907	None
SBR74-10637	425.6-426.2	94745	10.7	1.9	84.5	2.9	28.3	4.6	.909	None
SBR74-10638	426.2-427.0	94746	5.2	2.4	90.9	1.5	13.7	5.8	.903	None
SBR74-10639	427 -428	95353	1.9	2.3	95.2	.6	4.9a	5.5	None	

See footnote at end of table.

Core samples received June 13, 1972; assays made on air-dried samples.

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from U. S. Bureau of Mine's Wyoming Corehole No. 5

Surface elevation 6611.4 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	Water	coke			
SBR74-10640	428.0-429.4	94748	4.0	1.0	93.5	1.5	10.7	2.4	0.907	None	
SBR74-10641	429.4-430.8	94749	2.7	1.3	95.0	1.0	7.1	3.1	.913	None	
SBR74-10642	430.8-431.8	94750	1.5	2.4	95.4	.7	3.8a	5.8		None	
SBR74-10643	431.8-432.8	94751	2.1	1.8	95.3	.8	5.6	4.3	.904	None	
SBR74-10644	432.8-433.8	94752	4.4	1.3	92.6	1.7	11.7	3.1	.906	None	
SBR74-10645	433.8-434.9	94753	3.4	1.4	93.8	1.4	8.8	3.4	.914	None	
SBR74-10646	434.9-436.4	94754	6.2	1.7	90.2	1.9	16.5	4.1	.900	None	
SBR74-10647	436.4-437.4	94755	10.6	1.2	85.2	3.0	28.2	2.9	.902	None	
SBR74-10648	437.4-438.0	94756	10.0	1.6	85.6	2.8	26.6	3.8	.903	None	
SBR74-10649	438.0-439.4	94757	6.6	1.4	89.8	2.2	17.4	3.5	.906	None	
SBR74-10650	440.3-441.7	94758	10.1	2.0	85.0	2.9	26.6	4.8	.907	None	
SBR74-10651	441.7-442.8	94759	11.8	2.0	83.2	3.0	31.4	4.8	.903	None	
SBR74-10652	442.8-443.8	94760	10.7	2.0	84.3	3.0	28.6	4.8	.900	None	
SBR74-10653	443.8-445.2	94761	6.0	1.8	90.4	1.8	16.0	4.3	.895	None	
SBR74-10654	445.2-445.8	94762	3.2	.8	94.0	2.0	8.3	1.9	.918	None	
SBR74-10655	445.8-447.0	94763	1.5	1.5	96.2	.8	4.0a	3.6		None	
SBR74-10656	447 -448	94764	10.1	.8	85.9	3.2	26.1	1.9	.925	None	
SBR74-10657	448.0-449.2	94765	10.5	1.4	85.7	2.4	27.7	3.4	.909	None	
SBR74-10658	449.2-450.2	94766	8.1	1.2	88.8	1.9	21.4	2.9	.910	None	
SBR74-10659	450.2-451.2	94767	8.1	.8	88.1	3.0	21.1	1.9	.920	None	
SBR74-10660	451.2-452.3	95354	5.1	.9	92.3	1.7	13.3	2.3	.911	None	
SBR74-10661	452.3-453.1	94769	3.0	1.1	95.0	.9	8.0	2.6	.903	None	
SBR74-10662	453.1-454.2	94770	6.5	1.1	90.7	1.7	17.3	2.6	.896	None	
SBR74-10663	454.2-455.2	95355	8.4	.7	88.9	2.0	22.4	1.7	.901	None	
SBR74-10664	455.2-456.4	94772	8.2	1.7	88.5	1.6	22.0	4.1	.893	None	
SBR74-10665	456.4-457.7	94773	4.4	1.6	92.7	1.3	11.7	3.8	.906	None	
SBR74-10666	457.7-458.8	94774	2.4	.9	95.6	1.1	6.6	2.2	.895	None	
SBR74-10667	458.8-460.5	94775	9.9	1.7	86.3	2.1	26.6	4.1	.895	None	
SBR74-10668	460.5-461.3	94776	3.6	1.5	93.8	1.1	9.5	3.6	.906	None	
SBR74-10669	461.3-462.3	94777	2.7	.6	95.8	.9	7.0	1.6	.908	None	

See footnote at end of table.

Core samples received June 13, 1972; assays made on air-dried samples.

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from U. S. Bureau of Mine's Wyoming Corehole No. 5

Surface elevation 6611.4 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	Water		coke		
SBR74-10670	462.3-463.3	94778	13.5	1.5	81.9	3.1	36.2	3.6	0.897	None		
SBR74-10671	463.3-464.3	94779	13.7	2.6	80.6	3.1	36.4	6.2	.900	Slight		
SBR74-10672	464.3-464.9	94780	11.0	2.0	83.9	3.1	29.1	4.8	.907	None		
SBR74-10673	464.9-465.7	94781	6.9	1.5	89.0	2.6	18.3	3.6	.911	None		
SBR74-10674	465.7-466.5	94782	2.4	.8	95.5	1.3	6.3	1.9	.917	None		
SBR74-10675	466.5-467.8	95356	6.2	1.1	90.0	2.7	16.3	2.6	.914	None		
SBR74-10676	467.8-468.8	94784	4.2	.6	93.5	1.7	11.1	1.6	.906	None		
SBR74-10677	468.8-469.8	94785	3.5	.5	94.5	1.5	9.1a	1.3		None		
SBR74-10678	469.8-471.1	94786	10.1	1.8	85.2	2.9	26.9	4.3	.902	None		
SBR74-10679	471.1-472.4	94788	12.0	2.0	83.0	3.0	32.0	4.8	.899	None		
SBR74-10680	472.4-473.5	94789	5.8	1.0	91.6	1.6	15.6	2.4	.892	None		
SBR74-10681	473.5-474.7	94790	5.0	.7	92.8	1.5	13.2	1.8	.905	None		
SBR74-10682	474.7-476.0	94791	12.8	2.0	82.2	3.0	33.8	4.8	.904	None		
SBR74-10683	476 -477	94792	13.2	2.0	81.8	3.0	35.2	4.8	.897	None		
SBR74-10684	477.0-477.9	94793	9.5	2.5	86.2	1.8	25.4	6.0	.894	None	Layered tuff	
SBR74-10685	477.9-478.9	94794	6.2	1.8	89.9	2.1	16.4	4.3	.912	None		
SBR74-10686	478.9-479.9	94795	2.2	1.5	95.2	1.1	5.7	3.6	.915	None		
SBR74-10687	479.9-480.9	94796	1.4	1.8	95.7	1.1	3.6a	4.3		None		
SBR74-10688	480.9-482.2	94797	4.0	2.0	92.5	1.5	10.4	4.8	.917	None		
SBR74-10689	482.2-483.1	94798	10.3	1.8	85.4	2.5	27.5	4.3	.900	None		
SBR74-10690	483.1-484.1	94799	8.5	2.0	87.1	2.4	22.6	4.8	.903	None		
SBR74-10691	484.1-485.3	94800	1.1	.9	96.9	1.1	2.9a	2.0		None		
SBR74-10692	485.3-486.2	94801	12.2	1.8	83.0	3.0	32.2	4.3	.911	None		
SBR74-10693	486.2-487.2	95357	16.4	1.7	77.6	4.3	43.2	4.0	.912	None		
SBR74-10694	487.2-487.9	94803	12.7	2.0	81.0	4.3	33.5	4.8	.911	None		
SBR74-10695	487.9-489.8	94804	1.3	1.1	97.1	.5	3.3a	2.6		None		
SBR74-10696	489.8-490.9	94805	2.0	1.2	95.8	1.0	5.2	3.0	.920	None		
SBR74-10697	490.9-491.9	94806	.3	1.0	98.1	.6	.9a	2.4		None		
SBR74-10698	491.9-493.5	94807	12.6	2.3	81.3	3.8	33.6	5.5	.899	Slight		
SBR74-10699	493.5-494.1	94808	8.5	1.9	87.0	2.6	22.5	4.6	.909	None		

See footnote at end of table.

Core samples received June 13, 1972; assays made on air-dried samples.

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from U. S. Bureau of Mine's Wyoming Corehole No. 5

Surface elevation 6611.4 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	Water				
SBR74-10700	494.1-495.1	94812	2.2	1.0	95.5	1.3	5.9	2.4	0.910	None	
SBR74-10701	495.1-496.3	94813	2.4	1.2	95.1	1.3	6.3	2.9	.913	None	
SBR74-10702	496.3-497.5	95359	11.6	1.5	83.8	3.1	30.7	3.6	.907	None	
SBR74-10703	497.5-499.0	94815	10.4	2.6	84.1	2.9	27.5	6.2	.910	None	
SBR74-10704	499.0-499.6	94816	2.1	1.1	95.7	1.1	5.6	2.6	.913	None	
SBR74-10705	500.1-500.8	94817	1.0	1.1	97.1	.8	2.7a	2.6		None	
SBR74-10706	500.8-502.2	94818	13.1	2.0	81.7	3.2	34.7	4.8	.903	None	
SBR74-10707	502.2-503.1	94819	9.0	2.7	85.8	2.5	23.8	6.5	.903	None	
SBR74-10708	503.1-503.7	94820	2.3	1.4	95.2	1.1	6.1	3.4	.905	None	
SBR74-10709	503.7-504.9	94821	8.0	1.5	87.4	3.1	21.2	3.6	.906	None	
SBR74-10710	504.9-506.1	94822	2.1	.9	95.7	1.3	5.6	2.0	.905	None	
SBR74-10711	506.1-507.2	94823	4.5	1.8	92.4	1.3	11.7	4.3	.918	None	
SBR74-10712	507.2-507.7	94824	.0	.5	99.3	.2	Trace	1.3		None	Main tuff
SBR74-10713	507.7-509.1	94825	1.2	.7	97.5	.6	3.0a	1.8		None	
SBR74-10714	509.1-510.1	94826	3.2	2.0	93.0	1.8	8.4	4.8	.907	None	
SBR74-10715	510.1-511.1	94827	3.3	1.5	93.7	1.5	8.8	3.6	.916	None	
SBR74-10716	511.1-511.8	94828	2.2	1.4	95.2	1.2	5.7	3.4	.911	None	
SBR74-10717	511.8-513.0	94829	3.8	1.5	93.2	1.5	9.8	3.6	.918	None	
SBR74-10718	513.0-513.7	94830	1.8	1.4	95.5	1.3	4.8a	3.4		None	
SBR74-10719	513.7-514.5	94831	2.4	1.4	95.2	1.0	6.2a	3.4		None	
SBR74-10720	514.5-515.5	94832	7.3	2.0	88.6	2.1	19.5	4.8	.902	None	
SBR74-10721	515.5-516.5	94833	8.2	1.7	87.8	2.3	21.8	4.1	.898	None	
SBR74-10722	516.5-517.8	94834	5.6	1.8	90.5	2.1	14.8	4.3	.901	None	
SBR74-10723	517.8-519.1	94835	3.3	2.6	92.3	1.8	8.7	6.2	.910	None	
SBR74-10724	519.1-520.1	94836	1.9	1.5	95.3	1.3	4.9a	3.6		None	
SBR74-10725	520.5-521.5	94837	2.4	2.3	94.0	1.3	6.3	5.5	.912	None	
SBR74-10726	521.5-522.5	94838	4.3	2.4	91.4	1.9	11.3	5.8	.909	None	
SBR74-10727	522.5-523.5	94839	5.6	2.5	89.8	2.1	14.9	6.0	.900	None	
SBR74-10728	523.5-524.6	94840	3.2	2.9	92.1	1.8	8.4	7.0	.902	None	
SBR74-10729	524.6-525.6	94841	4.2	2.7	91.0	2.1	11.1	6.5	.910	None	

See footnote at end of table.

Core samples received June 13, 1972; assays made on air-dried samples.

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from U. S. Bureau of Mine's Wyoming Corehole No. 5

Surface elevation 6611.4 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	Spent shale	Gas + loss	Oil	Water				
SBR74-10730	525.6-526.5	94842	2.4	1.7	94.7	1.2	6.2	4.1	0.915	None	
SBR74-10731	526.5-527.6	94843	2.6	2.8	93.4	1.2	6.8	6.7	.904	None	
SBR74-10732	527.6-528.3	94844	2.6	2.4	93.7	1.3	6.9	5.8	.911	None	
SBR74-10733	528.3-529.0	94845	1.3	1.7	96.3	.7	3.3a	4.1		None	
SBR74-10734	529.0-530.6	94846	.6	.9	97.9	.6	1.6a	2.0		None	
SBR74-10735	530.6-531.6	94847	4.1	2.4	91.8	1.7	10.8	5.8	.912	None	
SBR74-10736	531.6-532.6	94550	7.4	2.7	87.6	2.3	19.7	6.5	.903	None	
SBR74-10737	532.6-533.7	94551	11.7	2.4	82.6	3.3	31.2	5.8	.902	None	
SBR74-10738	533.7-534.9	94552	3.4	2.4	92.3	1.9	9.0	5.8	.908	None	
SBR74-10739	534.9-535.9	94553	.8	2.0	96.7	.5	2.0a	4.8		None	
SBR74-10740	535.9-536.9	94554	2.5	2.5	93.9	1.1	6.6	6.0	.912	None	
SBR74-10741	536.9-538.3	94555	8.2	3.5	85.6	2.7	21.6	8.4	.913	None	
SBR74-10742	538.3-539.0	94556	2.4	2.5	93.8	1.3	6.4	6.0	.915	None	
SBR74-10743	539.0-539.9	94557	.1	.9	98.8	.2	.2a	2.2		None	
SBR74-10744	540.3-541.5	94558	.4	1.4	97.7	.5	1.1a	3.4		None	
SBR74-10745	541.5-542.5	94559	4.9	2.9	90.6	1.6	13.0	7.0	.910	None	
SBR74-10746	542.5-543.7	94560	1.8	1.5	95.1	1.6	4.7a	3.6		None	
SBR74-10747	543.7-545.0	94561	11.2	3.0	83.1	2.7	29.9	7.2	.897	None	
SBR74-10748	545.0-546.2	94562	12.6	3.0	81.5	2.9	33.3	7.2	.906	None	
SBR74-10749	546.2-547.5	94568	2.3	2.2	94.4	1.1	6.1	5.3	.921	None	
SBR74-10750	547.5-548.8	94569	.5	1.9	97.0	.6	1.4a	4.6		None	
SBR74-10751	548.8-549.9	94570	10.2	3.5	83.7	2.6	26.8	8.4	.912	None	
SBR74-10752	549.9-551.0	94571	11.2	3.4	82.4	3.0	29.3	8.1	.914	None	
SBR74-10753	551.0-551.8	94572	3.2	3.0	92.4	1.4	8.4	7.2	.912	None	
SBR74-10754	551.8-553.0	94573	.2	2.4	96.9	.5	.4a	5.8		None	
SBR74-10755	553.0-554.1	94574	.5	1.3	97.4	.8	1.4a	3.1		None	
SBR74-10756	554.1-554.9	94580	8.9	2.5	86.6	2.0	23.4	6.0	.914	None	
SBR74-10757	554.9-556.3	95362	1.5	2.6	95.1	.8	3.9a	6.2		None	
SBR74-10758	556.3-557.3	94582	.2	2.4	97.1	.3	.4a	5.8		None	
SBR74-10759	557.3-558.4	94583	.2	1.8	97.5	.5	.6a	4.3		None	

See footnote at end of table.

Core samples received June 13, 1972; assays made on air-dried samples.

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from U. S. Bureau of Mine's Wyoming Corehole No. 5

Surface elevation 6611.4 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	Water	coke	
SBR74-10760	558.4-559.4	94848	0.2	1.9	97.6	0.3	0.5a	4.6	None
SBR74-10761	560.2-561.8	94849	1.1	2.0	95.2	1.7	2.8a	4.8	None
SBR74-10762	561.8-562.9	94850	4.1	1.7	93.3	.9	10.8	4.1	0.904
SBR74-10763	562.9-564.2	94856	1.6	1.7	95.8	.9	4.2a	4.1	None
SBR74-10764	564.2-565.2	95363	2.6	1.6	94.4	1.4	6.7	4.0	.916
SBR74-10765	565.2-567.0	94858	2.0	1.1	95.4	1.5	5.4	2.6	.906
SBR74-10766	567 -568	94859	3.5	1.9	93.0	1.5	9.6	4.6	.915
SBR74-10767	568 -569	94885	1.1	1.7	96.0	1.2	2.8a	4.1	None
SBR74-10768	569.0-570.2	94886	.4	3.0	96.0	.6	1.1a	7.2	None
SBR74-10769	570.2-571.2	94887	.9	1.5	97.0	.6	2.4a	3.6	None
SBR74-10770	571.2-572.9	94888	.0	4.1	95.7	.2	No oil	9.9	None
SBR74-10771	572.9-573.9	94889	1.3	1.8	96.2	.7	3.3a	4.3	None
SBR74-10772	573.9-574.9	94890	3.7	2.2	92.7	1.4	9.8	5.3	.904
SBR74-10773	574.9-575.9	94891	2.1	2.2	94.7	1.0	5.4	5.3	.916
SBR74-10774	575.9-577.3	94892	1.8	2.3	95.0	.9	4.8a	5.5	None
SBR74-10775	577.3-578.4	94893	3.0	2.8	92.9	1.3	8.0	6.7	.907
SBR74-10776	578.4-579.4	94894	1.2	2.3	95.8	.7	3.0a	5.5	None
SBR74-10777	580.5-581.9	94895	1.5	2.2	95.5	.8	4.0a	5.3	None
SBR74-10778	581.9-582.9	94896	2.2	2.0	95.1	.7	5.7	4.8	.911
SBR74-10779	582.9-583.9	94897	1.6	1.9	95.5	1.0	4.2a	4.5	None
SBR74-10780	583.9-585.2	94898	.2	2.5	96.6	.7	.5a	6.0	None
SBR74-10781	585.2-586.3	94899	.0	1.9	97.7	.4	No oil	4.5	None
SBR74-10782	586.3-587.2	94900	.9	1.6	96.5	1.0	2.4a	3.8	None
SBR74-10783	587.2-588.4	94901	4.5	2.0	91.7	1.8	11.8	4.8	.914
SBR74-10784	588.4-589.6	94902	3.8	2.2	92.1	1.9	9.9	5.3	.911
SBR74-10785	589.6-590.8	94903	3.0	2.2	93.2	1.6	8.0	5.3	.910
SBR74-10786	590.8-591.8	94904	1.7	1.7	95.7	.9	4.5a	4.1	None
SBR74-10787	591.8-592.5	94905	7.2	2.1	88.7	2.0	19.0	5.0	.914
SBR74-10788	592.5-593.1	94909	4.4	2.6	91.3	1.7	11.7	6.2	.904
SBR74-10789	593.1-594.5	94910	.1	2.9	96.3	.7	.3a	7.0	None

See footnote at end of table.

Core samples received June 13, 1972; assays made on air-dried samples.

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from U. S. Bureau of Mine's Wyoming Corehole No. 5

Surface elevation 6611.4 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	Water			
SBR74-10790	594.5-596.0	94911	0.2	1.9	97.1	0.8	0.6a	4.6	None	
SBR74-10791	596 -597	94912	.0	2.3	97.4	.3	No oil	5.4	None	
SBR74-10792	597 -598	94913	.0	2.3	97.4	.3	No oil	5.4	None	
SBR74-10793	598.0-599.1	94914	.0	2.1	97.6	.3	No oil	5.1	None	
SBR74-10794	599.1-600.2	94915	.0	1.5	98.2	.3	No oil	3.7	None	
SBR74-10795	600.5-601.6	94916	.0	2.0	97.5	.5	No oil	4.9	None	
SBR74-10796	601.6-602.7	94917	.0	3.9	95.7	.4	No oil	9.4	None	
SBR74-10797	602.7-604.3	94918	2.6	2.5	93.9	1.0	6.9	6.0	0.902	None
SBR74-10798	604.3-605.4	94919	1.5	1.6	95.3	1.6	3.8a	3.8		None
SBR74-10799	605.4-606.7	94920	.9	1.2	97.2	.7	2.4a	2.9		None
SBR74-10800	606.7-607.4	94921	3.9	2.2	92.5	1.4	10.3	5.2	.916	None
SBR74-10801	607.4-608.9	94922	.0	2.6	97.1	.3	No oil	6.2		None
SBR74-10802	608.9-609.9	94923	.0	2.5	97.5	.0	No oil	5.9		None
SBR74-10803	609.9-612.5	94924	.0	1.2	98.3	.5	No oil	2.9		None
SBR74-10804	612.5-615.0	94925	.0	1.6	98.3	.1	No oil	3.8		None
SBR74-10805	615.0-616.8	94926	.0	2.4	97.3	.3	No oil	5.8		None
SBR74-10806	616.8-617.8	94927	.0	2.1	97.7	.2	No oil	5.1		None
SBR74-10807	620.5-620.9	94928	.0	2.7	97.1	.2	No oil	6.4		None
SBR74-10808	620.9-623.5	94929	.0	2.1	97.8	.1	No oil	5.1		None
SBR74-10809	623.5-625.6	94930	.0	1.5	98.5	.0	No oil	3.7		None
SBR74-10810	625.6-627.9	94931	.0	2.1	96.9	1.0	No oil	5.1		None
SBR74-10811	627.9-628.4	94932	.0	2.9	97.0	.1	No oil	7.0		None
SBR74-10812	628.4-630.0	94933	.0	2.1	97.7	.2	No oil	5.0		None
SBR74-10813	630.0-631.4	94934	.0	1.8	98.1	.1	No oil	4.4		None
SBR74-10814	631.4-633.1	94935	.0	2.8	97.1	.1	No oil	6.6		None
SBR74-10815	633.1-635.3	94936	.0	2.1	97.9	.0	No oil	5.0		None
SBR74-10816	635.3-636.8	94937	.0	1.0	99.0	.0	No oil	2.4		None
SBR74-10817	639.8-642.0	94938	.0	2.7	96.7	.6	No oil	6.6		None
SBR74-10818	642 -644	94939	.0	3.0	96.8	.2	No oil	7.1		None
SBR74-10819	644.0-645.7	94940	.0	3.5	96.0	.5	No oil	8.4		None

See footnote at end of table.

Core samples received June 13, 1972; assays made on air-dried samples.

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from U. S. Bureau of Mine's Wyoming Corehole No. 5

Surface elevation 6611.4 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	Water	coke		
SBR74-10820	645.7-646.7	94941	0.1	4.6	94.3	1.0	0.4a	11.0	None		
SBR74-10821-22	646.7-648.7	94942	.1	2.4	97.0	.5	.3a	5.8	None	Two samples combined	
SBR74-10823	648.7-649.3	94943	.9	4.2	94.3	.6	2.2a	10.1	None	in one test	
SBR74-10824	649.3-651.0	94944	2.2	1.9	95.1	.8	5.8	4.6	0.904	None	
SBR74-10825	651.0-652.6	94945	2.7	2.0	94.4	.9	7.1	4.8	.894	None	
SBR74-10826	652.6-653.6	94946	.8	1.4	97.4	.4	2.0a	3.4		None	
SBR74-10827	653.6-654.6	94947	5.6	2.1	90.8	1.5	14.9	5.0	.899	None	
SBR74-10828	654.6-655.7	94948	1.4	2.0	95.9	.7	3.7a	4.8		None	
SBR74-10829	655.7-657.5	94949	1.0	2.4	95.9	.7	2.6a	5.8		None	
SBR74-10830	657.5-658.6	94950	8.1	2.5	87.3	2.1	21.2	6.0	.913	None	
SBR74-10831	658.6-660.2	94951	1.4	2.1	95.8	.7	3.6a	5.0		None	
SBR74-10832	660.2-662.1	94952	.0	1.2	98.7	.1	No oil	2.9		None	
SBR74-10833	662.1-665.0	94953	.0	1.1	98.8	.1	No oil	2.7		None	
SBR74-10834	665 -669	94954	.0	1.0	98.8	.2	No oil	2.5		None	
SBR74-10835	669 -674	94955	.0	1.8	97.8	.4	No oil	4.3		None	
	674.0-767.9		Barren rock, not assayed								

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.

Core samples received June 13, 1972; assays made on air-dried samples.