

highest value 8.0 gal 2' x 20's

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from S and P Corporation's Corehole AC-2 drilled in NW1/4NW1/4NW1/4  
(50 feet S/N 285 feet E/W) of sec 9, T 11 S, R 12 E, Duchesne County, Utah

Surface elevation 7,105 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			Tendency to coke		
				Oil	Water			Oil 1/2	Water				
Laramie	Their												
SBR65-12844	20.0- 23.0	9960	0.0	2.4	97.0	0.6	Trace	5.6	0.928	None	Tar Coated fractures		
SBR65-12845	23.0- 26.0	9961	.0	2.5	97.0	.5	No oil	6.0		None			
SBR65-12846	26.0- 28.9	9962	.1	3.2	96.0	.7	.1a	7.8		None			
SBR65-12847	32.0- 33.5	9963	1.3	.4	96.9	1.4	3.3a	1.0		None			
SBR65-12848	33.5- 36.0	9964	.0	1.5	97.7	.8	Trace	3.6		None			
SBR65-12849	36.5- 41.9	9965	2.3	.6	96.4	.7	5.9	1.6		None			
SBR65-12850	41.9- 43.4	9966	.2	1.8	97.3	.7	.4a	4.3		None			
SBR65-12851	43.4- 46.6	9967	.2	1.3	98.0	.5	.4a	3.1		None			
SBR65-12852	46.6- 47.6	9968	.9	2.1	96.4	.6	2.4a	4.9		None			
SBR65-12853	47.6- 49.7	9969	.3	.5	98.8	.4	.9a	1.2		None			
SBR65-12854	49.7- 51.8	9970	.2	.6	99.0	.2	.6a	1.3		None			
SBR65-12855	51.8- 54.0	9971	.1	2.2	97.5	.2	.3a	5.3		None			
SBR65-12856	54.0- 56.7	9972	.1	2.4	97.4	.1	.2a	5.8		None			
SBR65-12857	56.7- 60.0	9973	.0	1.3	98.5	.2	No oil	3.0		None			
SBR65-12858	60.0- 64.0	9974	.0	2.1	97.8	.1	No oil	5.1		None			
SBR65-12859	64.0- 66.0	9975	.0	.7	99.0	.3	No oil	.7	None	Tar Coated fractures			
SBR65-12860	66.4- 71.0	9976	.0	1.3	98.5	.2	No oil	3.0	None	Tar Coated fractures			
SBR65-12861	71.0- 72.1	9977	.0	1.7	97.9	.4	No oil	4.1	None	Tar Coated fractures			
SBR65-12862	72.1- 76.0	9978	.1	.1	99.0	.8	.2a	.4	None				
SBR65-12863	76.0- 77.0	9979	.1	.2	99.1	.6	.2a	.6	None				
SBR65-12864	77.0- 78.5	9980	.1	.2	98.8	.9	.2a	.5	None				
SBR65-12865	78.5- 80.0	9981	.1	.4	99.1	.4	.2a	1.0	None				
SBR65-12866	80.0- 85.0	9982	.0	1.4	98.0	.6	No oil	3.3	None	Tar Coated fractures			
SBR65-12867	85.0- 90.0	9983	.0	1.9	97.2	.9	No oil	4.5	None				
SBR65-12868	90.0- 93.0	9984	.1	1.6	97.6	.7	.1a	3.8	None				
SBR65-12869	93.0- 94.5	9985	.0	2.1	97.2	.7	No oil	5.1	None				
SBR65-12870	94.5- 95.5	9986	.0	2.7	96.1	1.2	No oil	6.6	None				
SBR65-12871	95.5- 97.0	9987	.1	.8	98.2	.9	.4a	1.9	None				
SBR65-12872	97.0- 99.5	9988	.0	.5	98.9	.6	No oil	1.1	None				
SBR65-12873	99.5-100.5	9989	.1	.4	99.0	.5	.2a	1.0	None				

See footnotes at end of table.

Core samples received October 5, 1965; assays made on air-dried samples

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from S and P Corporation's Corehole AC-2 (con.)

Surface elevation 7,105 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		Tendency to coke		
Laramie	Their		Oil	Water						Oil <sup>1/</sup>	Water
SBR65-12874	100.5-103.2	9990	0.1	0.2	99.3	0.4	0.2a	0.6		None	
SBR65-12875	103.2-107.2	9991	.1	2.0	97.5	.4	.2a	4.8		None	
SBR65-12876	107.2-108.7	9992	.0	2.4	97.1	.5	Trace	5.6		None	
SBR65-12877	108.7-110.0	9993	.1	.9	98.2	.8	.1a	2.3		None	
SBR65-12878	110.0-113.0	9994	.0	1.5	98.0	.5	Trace	3.6		None	
SBR65-12879	113.0-115.6	9995	.0	2.2	97.6	.2	No oil	5.2		None	
SBR65-12880	115.6-116.6	9996	.0	2.6	96.8	.6	No oil	6.1		None	
SBR65-12881	116.6-117.6	9997	.1	2.0	97.3	.6	.1a	4.8		None	
SBR65-12882	117.6-119.3	9998	.1	.7	98.9	.3	.2a	1.7		None	
SBR65-12883	119.3-120.3	9999	1.9	.2	96.5	1.4	5.0a	.4		None	
SBR65-12884	120.3-122.0	10000	.5	.2	98.4	.9	1.2a	.5		None	
SBR65-12885	122.0-124.0	10001	.1	1.1	98.2	.6	.2a	2.6		None	
SBR65-12886	124.0-126.0	10002	.1	2.0	97.3	.6	.4a	4.8		None	
SBR65-12887	126.0-130.0	10003	.0	1.6	98.1	.3	Trace	3.8		None	
SBR65-12888	130.0-134.0	10004	.0	2.0	98.0	.0	No oil	4.7		None	
SBR65-12889	134.0-136.0	10005	.0	2.1	97.3	.6	No oil	5.1		None	
SBR65-12890	136.0-137.5	10006	.0	1.8	98.0	.2	No oil	4.2		None	
SBR65-12891	137.5-138.7	10007	.0	1.1	98.9	.0	No oil	2.6		None	
SBR65-12892	138.7-140.3	10008	.0	.3	99.6	.1	No oil	.8		None	
SBR65-12893	140.3-141.3	10009	.8	.1	99.0	.1	2.2a	.1		None	
SBR65-12894	141.3-142.0	10010	3.2	.1	96.2	.5	8.3	.2	0.932	None	
SBR65-12895	142.0-143.6	10011	.6	.3	98.5	.6	1.5a	.7		None	
SBR65-12896	143.6-144.8	10012	.1	1.2	98.3	.4	.1a	3.0		None	
SBR65-12897	144.8-148.0	10013	.0	.6	98.7	.7	No oil	1.3		None	
SBR65-12898	148.0-149.4	10014	.0	.1	99.1	.8	No oil	.2		None	
SBR65-12899	149.4-150.6	10015	3.3	.1	95.6	1.0	8.4	.2	.931	None	
SBR65-12900	150.6-154.0	10016	.1	.4	98.9	.6	.3a	1.0		None	
SBR65-12901	154.0-158.0	10017	.1	.7	98.3	.9	.2a	1.7		None	
SBR65-12902	158.0-160.0	10018	.0	1.6	97.7	.7	No oil	3.9		None	
SBR65-12903	160.0-161.3	10019	.1	.4	99.0	.5	.3a	1.0		None	

See footnotes at end of table.

Core samples received October 5, 1965; assays made on air-dried samples

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from S and P Corporation's Corehole AC-2 (con.)

Surface elevation 7,105 feet

			Yield of product						Specific gravity of oil at 60°/60°F	Properties of spent shale		Remarks
Sample number		Run No.	Weight percent		Spent shale	Gas + loss	Gal per ton			Tendency to coke		
Laramie	Their		Oil	Water			Oil <sup>1/</sup>	Water				
SBR65-12904	161.3-162.3	10020	2.1	0.1	96.9	0.9	5.3	0.1	0.931	None		
SBR65-12905	162.3-165.0	10021	.0	.4	99.0	.6	No oil	.9		None		
SBR65-12906	165.0-170.0	10022	.0	1.0	98.1	.9	No oil	2.5		None		
SBR65-12907	170.0-172.0	10023	.0	.4	99.0	.6	No oil	.9		None		
SBR65-12908	172.0-175.5	10024	.0	1.2	98.0	.8	No oil	3.0		None		
SBR65-12909	175.5-180.0	10025	.0	1.8	98.0	.2	No oil	4.3		None		
SBR65-12910	180.0-181.5	10026	.1	2.1	97.6	.2	.2a	5.2		None		
SBR65-12911	181.5-183.0	10027	.0	1.7	97.9	.4	No oil	4.0		None		
SBR65-12912	183.0-187.0	10028	.0	1.8	97.9	.3	No oil	4.4		None		
SBR65-12913	187.0-190.0	10029	.0	1.3	98.3	.4	No oil	3.1		None		
SBR65-12914	190.0-195.0	10030	.0	1.2	98.7	.1	No oil	2.8		None		
SBR65-12915	195.0-199.0	10031	.0	1.1	98.3	.6	No oil	2.7		None		
SBR65-12916	199.0-200.2	10032	.3	.4	98.8	.5	.7a	1.1		None	Tar Sand	
SBR65-12917	200.2-202.8	10033	3.2	.0	96.2	.6	8.1	.0	.936	None	Tar Sand	
SBR65-12918	202.8-203.8	10034	.8	.0	98.9	.3	2.0a	.0		None	Tar Sand	
SBR65-12919	203.8-204.8	10035	.1	1.6	97.0	1.3	.2a	3.8		None		
SBR65-12920	204.8-206.0	10036	.2	1.8	97.6	.4	.6a	4.3		None		
SBR65-12921	206.0-209.0	10037	.0	1.1	98.2	.7	No oil	2.6		None		
SBR65-12922	209.0-210.5	10038	.0	2.5	97.0	.5	Trace	5.9		None		
SBR65-12923	210.5-212.0	10039	.0	1.7	97.8	.5	Trace	4.1		None		
SBR65-12924	212.0-214.0	10040	.0	1.6	97.7	.7	Trace	3.8		None		
SBR65-12925	214.0-216.0	10041	.0	1.6	97.8	.6	Trace	3.8		None		
SBR65-12926	216.0-218.5	10042	.0	.6	98.9	.5	No oil	1.5		None	Tar Coated fractures	
SBR65-12927	218.5-220.5	10043	.0	.3	99.6	.1	No oil	.6		None		
SBR65-12928	220.5-222.5	10044	3.4	.1	96.0	.5	8.8	.1	.932	None	Tar Sand	
SBR65-12929	222.5-223.5	10045	.9	.2	98.3	.6	2.3a	.6		None	Tar Coated fracture	
SBR65-12930	223.5-225.6	10046	.1	1.6	97.6	.7	.3a	3.7		None		
SBR65-12931	225.6-227.4	10047	2.8	.3	96.0	.9	7.3	.7	.934	None	Tar Sand	
SBR65-12932	227.4-228.8	10048	.6	1.8	96.9	.7	1.6a	4.2		None		
SBR65-12933	228.8-234.0	10049	.0	.4	99.4	.2	No oil	1.0		None		

See footnotes at end of table.

Core samples received October 5, 1965; assays made on air-dried samples

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from S and P Corporation's Corehole AC-2 (con.)

Surface elevation 7,105 feet

			Yield of product						Specific gravity of oil at 60°/60°F	Properties of spent shale Tendency to coke	Remarks
Sample number		Run No.	Weight percent		Spent shale	Gas + loss	Gal per ton				
Laramie	Thier		Oil	Water			Oil 1/	Water			
SBR65-12934	234.0-236.4	10050	0.0	0.9	98.4	0.7	No oil	2.2	None		
SBR65-12935	236.4-238.2	10051	.2	.4	98.9	.5	0.5a	1.1	None		
SBR65-12936	238.2-239.2	10052	.7	1.8	96.7	.8	1.8a	4.2	None		
SBR65-12937	239.2-241.6	10053	.1	1.7	97.0	1.2	.3a	4.0	None		
SBR65-12938	241.6-242.6	10054	.0	.4	98.9	.7	No oil	1.0	None		
SBR65-12939	242.6-244.6	10055	1.0	1.7	96.1	1.2	2.7a	4.1	None		
SBR65-12940	244.6-246.0	10056	.0	.8	98.1	1.1	No oil	1.8	None		
SBR65-12941	246.0-246.5	10057	.5	2.3	96.0	1.2	1.3a	5.4	None		
SBR65-12942	246.5-249.5	10058	.0	1.2	97.2	1.6	No oil	2.8	None		
SBR65-12943	249.5-250.5	10059	.1	2.1	96.0	1.8	.2a	5.0	None		
SBR65-12944	250.5-252.3	10060	.0	.3	99.2	.5	No oil	.7	None		
SBR65-12945	252.3-253.9	10061	.4	1.0	98.2	.4	1.0a	2.4	None		
SBR65-12946	253.9-255.2	10062	.4	1.8	97.4	.4	1.0a	4.3	None		
SBR65-12947	255.2-256.2	10063	.1	1.7	97.7	.5	.2a	4.1	None		
SBR65-12948	256.2-257.2	10064	.3	2.5	96.4	.8	.8a	6.0	None		
SBR65-12949	257.2-258.2	10065	.1	2.2	97.4	.3	.2a	5.3	None		
SBR65-12950	258.2-259.2	10066	.0	.6	99.1	.3	No oil	1.4	None		
SBR65-12951	259.2-261.2	10067	.0	.3	99.3	.4	No oil	.6	None		
SBR65-12952	261.2-263.2	10068	.0	.4	97.5	.1	No oil	.9	None		
SBR65-12953	263.2-265.2	10069	.1	1.5	98.2	.2	.2a	3.6	None		
SBR65-12954	265.2-266.2	10070	.0	2.0	97.4	.6	No oil	4.9	None		
SBR65-12955	266.2-267.3	10071	.0	1.1	98.2	.7	No oil	2.7	None		
SBR65-12956	267.3-270.0	10072	.1	.8	98.9	.2	.2a	1.9	None		
SBR65-12957	270.0-270.7	10073	.0	1.5	98.2	.3	No oil	3.6	None		
SBR65-12958	270.7-272.0	10074	.0	1.1	98.6	.3	No oil	2.6	None		
SBR65-12959	272.0-273.0	10075	.0	2.2	97.5	.3	No oil	5.2	None		
SBR65-12960	273.0-274.5	10076	.1	1.7	98.1	.1	.3a	4.0	None		
SBR65-12961	274.5-279.0	10077	.0	.6	99.1	.3	No oil	1.4	None		
SBR65-12962	279.0-282.3	10078	.0	1.8	98.1	.1	No oil	4.4	None		
SBR65-12963	282.3-284.0	10079	.0	.5	99.1	.4	No oil	1.2	None		

See footnotes at end of table.

Core samples received October 5, 1965; assays made on air-dried samples

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from S and P Corporation's Corehole AC-2 (con.)

Surface elevation 7,105 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			Tendency to coke
				Oil	Water				Oil <sup>1/</sup>	Water		
Laramie	Their											
SBR65-12964	284.0-290.0	10080	0.0	1.6	98.3	0.1	No oil	3.7		None		
SBR65-12965	290.0-295.2	10081	.0	1.8	98.0	.2	No oil	4.3		None		
SBR65-12966	295.2-296.2	10082	.1	2.2	97.4	.3	.2a	5.4		None		
SBR65-12967	296.2-302.0	10083	.0	1.7	98.2	.1	No oil	4.1		None		
SBR65-12968	302.0-307.0	10084	.0	2.6	97.3	.1	No oil	6.2		None		
SBR65-12969	307.0-310.0	10085	.0	1.4	98.0	.6	No oil	3.3		None		
SBR65-12970	310.0-314.0	10086	.0	2.2	97.7	.1	Trace	5.2		None		
SBR65-12971	314.0-317.9	10087	.0	1.1	98.8	.1	Trace	2.6		None		
SBR65-12972	317.9-319.8	10088	.0	2.7	97.2	.1	Trace	6.4		None		
SBR65-12973	319.8-323.0	10089	.0	1.0	99.0	.0	No oil	2.4		None		
SBR65-12974	323.0-329.0	10090	.0	2.1	97.5	.4	No oil	5.1		None		
SBR65-12975	329.0-330.5	10091	.0	2.3	97.5	.2	Trace	5.4		None		
SBR65-12976	330.5-332.0	10092	.0	1.6	98.3	.1	No oil	3.7		None		
SBR65-12977	332.0-334.0	10093	.0	1.0	98.8	.2	No oil	2.4		None		
SBR65-12978	334.0-340.9	10094	.0	1.2	98.7	.1	No oil	2.9		None		
SBR65-12979	340.9-342.0	10095	.0	2.7	97.1	.2	No oil	6.5		None		
SBR65-12980	342.0-343.3	10096	.0	2.0	97.8	.2	No oil	4.9		None		
SBR65-12981	343.3-345.7	10097	.0	1.2	98.7	.1	Trace	2.9		None		
SBR65-12982	345.7-346.3	10098	.1	1.5	97.9	.5	.2a	3.7		None		
SBR65-12983	346.3-348.2	10099	.0	.4	99.3	.3	No oil	.8		None		
SBR65-12984	348.2-352.3	10100	.0	1.5	98.3	.2	No oil	3.7		None		
SBR65-12985	352.3-353.5	10101	.0	2.0	97.8	.2	No oil	4.8		None		
SBR65-12986	353.5-357.7	10102	.0	.9	99.0	.1	No oil	2.1		None		
SBR65-12987	357.7-362.0	10103	.1	1.5	98.2	.2	.2a	3.7		None		
SBR65-12988	362.0-365.4	10104	.0	2.1	97.8	.1	Trace	4.9		None		
SBR65-12989	365.4-368.9	10105	.0	2.4	97.3	.3	No oil	5.8		None		
SBR65-12990	368.9-370.0	10106	.0	1.8	98.0	.2	Trace	4.3		None		
SBR65-12991	370.0-371.2	10107	.0	1.3	98.2	.5	No oil	3.2		None		
SBR65-12992	371.2-371.7	10108	.0	2.1	97.7	.2	No oil	4.9		None		
SBR66-1	371.7-372.9	10109	.0	1.6	97.6	.8	No oil	3.8		None		

See footnotes at end of table.

Core samples received October 5, 1965; assays made on air-dried samples

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from S and P Corporation's Corehole AC-2 (con.)

Surface elevation 7,105 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		Tendency to coke		
				Oil	Water			Oil <sup>1</sup> /			Water	
Laramie	Their											
SBR66- 2	372.9-374.4	10110	0.0	1.4	98.1	0.5	No oil	3.3		None		
SBR66- 3	374.4-375.6	10111	.0	1.7	97.7	.6	No oil	4.1		None		
SBR66- 4	375.6-376.7	10112	.0	.9	98.7	.4	No oil	2.3		None		
SBR66- 5	376.7-380.0	10113	.0	1.5	98.0	.5	No oil	3.5		None		
SBR66- 6	380.0-382.0	10114	.0	1.8	98.0	.2	No oil	4.4		None		
SBR66- 7	382.0-384.6	10115	.0	2.0	97.5	.5	No oil	4.9		None		
SBR66- 8	384.6-385.6	10116	.0	.4	99.2	.4	No oil	.9		None		
SBR66- 9	385.6-387.4	10117	.0	1.8	97.8	.4	No oil	4.3		None		
SBR66-10	387.4-388.5	10118	.0	1.2	98.3	.5	No oil	2.8		None		
SBR66-11	388.5-390.5	10119	.0	2.0	97.9	.1	No oil	4.7		None		
SBR66-12	390.5-392.1	10120	.0	1.9	97.9	.2	No oil	4.6		None		
SBR66-13	392.1-393.4	10121	.0	2.3	96.7	1.0	No oil	5.5		None		
SBR66-14	393.4-394.9	10122	.0	2.7	96.0	1.3	No oil	6.6		None		
SBR66-15	394.9-396.0	10123	.1	3.0	95.9	1.0	.3a	7.1		None		
SBR66-16	396.0-397.5	10124	.0	1.1	98.1	.8	No oil	2.7		None		
SBR66-17	397.5-400.0	10125	.0	.8	99.0	.2	No oil	1.9		None		
SBR66-18	400.0-403.0	10126	.0	1.1	98.4	.5	No oil	2.6		None		
SBR66-19	403.0-405.1	10127	.0	1.1	98.2	.7	No oil	2.7		None		
SBR66-20	405.1-406.2	10128	.0	1.7	97.2	1.1	No oil	4.0		None		
SBR66-21	406.2-407.5	10129	.0	1.7	97.7	.6	No oil	4.0		None		
SBR66-22	407.5-408.9	10130	.0	2.0	96.6	1.4	No oil	4.9		None		
SBR66-23	408.9-410.5	10131	.0	1.6	97.9	.5	No oil	3.7		None		
SBR66-24	410.5-411.5	10132	.0	2.1	97.0	.9	No oil	5.1		None		
SBR66-25	411.5-413.0	10133	.1	2.8	96.6	.5	.2a	6.7		None		
SBR66-26	413.0-414.0	10134	.0	2.2	97.4	.4	No oil	5.3		None		
SBR66-27	414.0-415.0	10135	.2	2.8	96.0	1.0	.6a	6.7		None		
SBR66-28	415.0-416.0	10136	.3	2.9	95.5	1.3	.8a	7.0		None		
SBR66-29	416.0-417.0	10137	.0	1.6	97.9	.5	No oil	3.7		None		
SBR66-30	417.0-418.4	10138	.0	2.7	96.4	.9	No oil	6.5		None		
SBR66-31	418.4-419.0	10139	.1	2.8	96.3	.8	.2a	6.8		None		

See footnotes at end of table.

Core samples received October 5, 1965; assays made on air-dried samples

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from S and P Corporation's Corehole AC-2 (con.)

Surface elevation 7,105 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					Oil <sup>1/</sup>	Water	
SBR66-32	419.0-420.5	10140	0.0	2.1	97.2	0.7	No oil	5.1		None	
SBR66-33	420.5-422.0	10141	.0	1.2	98.2	.6	No oil	2.8		None	
SBR66-34	422.0-423.7	10142	.0	1.2	98.6	.2	No oil	2.9		None	
SBR66-35	423.7-426.0	10143	.0	1.7	97.7	.6	No oil	4.1		None	
SBR66-36	426.0-426.5	10146	.8	1.8	96.6	.8	2.0a	4.3		None	
SBR66-37	426.5-427.5	10147	.0	1.0	98.2	.8	No oil	2.4		None	
SBR66-38	427.5-428.8	10148	.0	2.1	97.2	.7	No oil	5.0		None	
SBR66-39	428.8-429.4	10149	.0	1.7	97.7	.6	No oil	4.0		None	
SBR66-40	429.4-431.1	10150	.0	.7	98.8	.5	No oil	1.7		None	
SBR66-41	431.1-433.3	10151	.0	1.2	98.4	.4	No oil	2.9		None	
SBR66-42	433.3-435.0	10152	.0	1.4	98.1	.5	No oil	3.4		None	
SBR66-43	435.0-436.0	10153	.0	1.9	97.6	.5	No oil	4.6		None	
SBR66-44	436.0-438.3	10154	.0	1.7	97.8	.5	No oil	4.0		None	
SBR66-45	438.3-439.9	10155	.4	1.8	96.9	.9	1.0a	4.3		None	
SBR66-46	439.9-442.0	10156	.2	.5	98.9	.4	.5a	1.2		None	
SBR66-47	442.0-443.0	10157	.3	.8	98.1	.8	.7a	2.0		None	
SBR66-48	443.0-445.0	10158	.0	1.0	98.0	1.0	No oil	2.5		None	
SBR66-49	445.0-446.5	10159	.0	1.8	97.2	1.0	No oil	4.4		None	
SBR66-50	446.5-447.1	10160	.3	2.6	95.8	1.3	.7a	6.2		None	
SBR66-51	447.1-449.0	10161	.1	.5	98.6	.8	.2a	1.2		None	
SBR66-52	449.0-450.9	10162	.0	.9	98.6	.5	No oil	2.1		None	
SBR66-53	450.9-452.3	10163	.0	.9	98.1	1.0	No oil	2.0		None	
SBR66-54	452.3-455.0	10164	.0	.2	98.7	1.1	No oil	.5		None	
SBR66-55	455.0-459.8	10165	.0	.8	98.1	1.1	No oil	2.0		None	
SBR66-56	459.8-461.1	10166	.0	.6	98.2	1.2	No oil	1.4		None	
SBR66-57	461.1-463.6	10167	.0	1.7	97.7	.6	No oil	4.0		None	
SBR66-58	463.6-464.7	10168	.2	2.1	96.8	.9	.5a	5.0		None	
SBR66-59	464.7-466.0	10169	.0	2.7	97.0	.3	Trace	6.5		None	
SBR66-60	466.0-467.4	10170	.6	2.7	95.9	.8	1.7a	6.5		None	
SBR66-61	467.4-468.7	10171	.0	1.7	97.9	.4	Trace	4.0		None	

See footnotes at end of table.

Core samples received October 5, 1965; assays made on air-dried samples

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from S and P Corporation's Corehole AC-2 (con.)

Surface elevation 7,105 feet

Sample number			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		
			Oil	Water			Oil <sup>1</sup> / <sub>Water</sub>					
Laramie	Their	Run No.	Oil	Water	Spent shale	Gas + loss	Oil <sup>1</sup> / <sub>Water</sub>	Water				
SBR66-62	468.7-470.0	10172	0.0	0.7	99.0	0.3	Trace	1.7		None		
SBR66-63	470.0-471.0	10173	.0	.5	99.2	.3	No oil	1.2		None		
SBR66-64	471.0-472.5	10174	.0	1.2	98.3	.5	No oil	2.8		None		
SBR66-65	472.5-474.3	10175	.5	1.7	97.1	.7	1.3a	4.1		None		
SBR66-66	474.3-475.5	10176	1.2	2.6	95.2	1.0	3.2a	6.2		None		
SBR66-67	475.5-476.5	10177	.6	.7	98.1	.6	1.5a	1.7		None		
SBR66-68	476.5-478.7	10178	.0	.7	99.0	.3	Trace	1.7		None		
SBR66-69	478.7-479.7	10179	1.7	.4	96.5	1.4	4.4a	1.0		None		
SBR66-70	479.7-480.8	10180	1.2	1.8	96.4	.6	3.1a	4.3		None		
SBR66-71	480.8-482.9	10182	1.1	1.3	96.8	.8	2.9a	3.1		None		
SBR66-72	482.9-485.5	10183	.2	.3	98.7	.8	.5a	.7		None	Tar Coated fracture	
SBR66-73	485.5-487.4	10184	1.6	.4	97.3	.7	4.2a	.8		None	Tar Sand	
SBR66-74	487.4-491.0	10185	.2	.3	99.1	.4	.6a	.6		None		
SBR66-75	491.0-492.4	10186	1.4	.9	96.8	.9	3.6a	2.3		None	Some tar sand	
SBR66-76	492.4-493.8	10187	1.0	.7	97.3	1.0	2.6a	1.8		None		
SBR66-77	493.8-495.0	10188	.8	1.1	97.4	.7	2.0a	2.6		None		
SBR66-78	495.0-497.5	10189	.1	1.8	96.5	1.6	.3a	4.2		None		
SBR66-79	497.5-501.0	10190	.0	.5	98.8	.7	No oil	1.2		None		
SBR66-80	501.0-503.0	10191	.0	1.2	98.0	.8	No oil	3.0		None		
SBR66-81	503.0-507.0	10192	.0	1.4	97.9	.7	No oil	3.2		None		
SBR66-82	507.0-510.0	10193	.0	1.9	97.4	.7	No oil	4.5		None		
SBR66-83	510.0-515.0	10194	.0	1.2	98.1	.7	No oil	2.9		None		
SBR66-84	515.0-520.0	10195	.0	1.9	97.8	.3	Trace	4.4		None		
SBR66-85	520.0-525.0	10196	.0	1.9	97.6	.5	No oil	4.5		None		
SBR66-86	525.0-530.3	10197	.0	1.7	97.4	.9	No oil	4.0		None		
SBR66-87	530.3-532.9	10198	.0	.8	98.5	.7	No oil	1.9		None		
SBR66-88	532.9-537.0	10199	.0	1.1	98.1	.8	No oil	2.7		None		
SBR66-89	537.0-540.5	10200	.0	.3	98.9	.8	No oil	.7		None		
SBR66-90	540.5-544.0	10201	.6	.1	98.8	.5	1.6a	.1		None		
SBR66-91	544.0-546.3	10202	.0	.3	98.8	.9	No oil	.7		None		

See Footnotes at end of table.

Core samples received October 5, 1965; assays made on air-dried samples



## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from S and P Corporation's Corehole AC-2 (con.)

Surface elevation 7,105 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		Tendency to coke		
Laramie	Their		Oil	Water						Oil 1/2	Water
SBR66-92	546.3-548.0	10203	0.5	2.3	96.1	1.1	1.4a	5.4		None	
SBR66-93	548.0-550.4	10204	.0	2.3	97.0	.7	No oil	5.5		None	
SBR66-94	550.4-552.6	10205	.0	.7	98.1	1.2	No oil	1.7		None	
SBR66-95	552.6-554.2	10206	.0	2.6	97.0	.4	No oil	6.3		None	
SBR66-96	554.2-557.0	10207	.0	1.8	98.1	.1	No oil	4.3		None	
SBR66-97	557.0-561.1	10208	.0	2.2	97.7	.1	No oil	5.2		None	
SBR66-98	561.1-564.7	10209	.0	.7	98.9	.4	No oil	1.7		None	
SBR66-99	564.7-566.5	10210	.0	1.2	98.5	.3	No oil	2.8		None	
SBR66-100	566.5-567.8	10211	.7	1.6	97.3	.4	1.7a	3.8		None	
SBR66-101	567.8-568.6	10212	.5	2.5	96.2	.8	1.4a	6.0		None	
SBR66-102	568.6-570.2	10213	.0	1.4	98.2	.4	No oil	3.4		None	
SBR66-103	570.2-571.4	10214	.0	2.3	97.3	.4	No oil	5.4		None	
SBR66-104	571.4-572.9	10215	.0	1.6	97.4	1.0	No oil	3.8		None	
SBR66-105	572.9-575.0	10216	.0	.5	99.1	.4	No oil	1.2		None	
SBR66-106	575.0-576.7	10217	.0	1.3	98.1	.6	No oil	3.1		None	
SBR66-107	576.7-577.0	10218	.0	1.0	98.8	.2	No oil	2.4		None	
SBR66-108	577.0-580.0	10219	.0	2.2	97.2	.6	No oil	5.2		None	
SBR66-109	580.0-584.0	10220	.0	1.8	97.9	.3	No oil	4.2		None	
SBR66-110	584.0-586.0	10221	.0	1.6	97.4	1.0	No oil	3.9		None	
SBR66-111	586.0-588.8	10222	.0	1.7	97.9	.4	No oil	4.0		None	
SBR66-112	588.8-591.0	10223	.0	1.3	98.6	.1	No oil	3.1		None	
SBR66-113	591.0-593.0	10224	.0	1.1	98.8	.1	No oil	2.7		None	
SBR66-114	593.0-594.0	10225	.0	1.4	98.5	.1	No oil	3.3		None	
SBR66-115	594.0-597.0	10226	.0	2.2	97.7	.1	No oil	5.3		None	
SBR66-116	597.0-601.0	10227	.0	2.1	97.6	.3	No oil	5.0		None	
SBR66-117	601.0-602.5	10228	.0	1.5	98.2	.3	No oil	3.6		None	
SBR66-118	602.5-604.0	10229	.0	2.2	97.7	.1	No oil	5.2		None	
SBR66-119	604.0-605.3	10230	.0	2.3	96.7	1.0	No oil	5.5		None	
SBR66-120	605.3-606.3	10231	.0	1.4	98.1	.5	No oil	3.4		None	
SBR66-121	606.3-608.3	10232	.0	1.6	97.6	.8	No oil	3.8		None	

See footnotes at end of table.

Core samples received October 5, 1965; assays made on air-dried samples

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from S and P Corporation's Corehole AC-2 (con.)

Surface elevation 7,105 feet

			Yield of product						Specific gravity of oil at 60°/60°F	Properties of spent shale		Remarks
Sample number		Run No.	Weight percent		Spent shale	Gas + loss	Gal per ton			Tendency to coke		
Laramie	Their		Oil	Water			Oil <sup>1/</sup>	Water				
SBR66-122	608.3-610.2	10233	0.0	0.5	98.8	0.7	No oil	1.2		None		
SBR66-123	610.2-612.0	10234	.0	1.4	98.0	.6	No oil	3.4		None		
SBR66-124	612.0-614.3	10235	.0	.6	98.9	.5	No oil	1.4		None		
SBR66-125	614.3-615.6	10236	.0	1.7	97.4	.9	No oil	4.0		None		
SBR66-126	615.6-618.4	10237	.0	.9	98.2	.9	No oil	2.2		None		
SBR66-127	618.4-619.7	10238	.0	1.4	97.4	1.2	No oil	3.5		None		
SBR66-128	619.7-621.2	10239	.0	1.9	97.6	.5	No oil	4.6		None		
SBR66-129	621.2-622.2	10240	.0	1.9	97.6	.5	No oil	4.5		None		
SBR66-130	622.2-623.2	10241	.0	2.0	97.8	.2	No oil	4.7		None		
SBR66-131	623.2-625.5	10242	.0	1.4	98.4	.2	No oil	3.3		None		
SBR66-132	625.5-627.0	10243	.0	2.2	97.4	.4	No oil	5.3		None		
SBR66-133	627.0-629.0	10244	.0	2.2	97.3	.5	No oil	5.3		None		
SBR66-134	629.0-632.5	10245	.0	1.4	98.3	.3	No oil	3.3		None		
SBR66-135	632.5-635.0	10246	.0	1.2	98.3	.5	No oil	2.9		None		
SBR66-136	635.0-637.0	10253	.0	1.6	97.4	1.0	No oil	3.9		None		
SBR66-137	637.0-638.0	10254	.0	2.3	97.1	.6	Trace	5.4		None		
SBR66-138	638.0-640.0	10255	.0	2.6	97.0	.4	No oil	6.1		None		
SBR66-139	640.0-642.0	10256	.0	3.1	96.5	.4	No oil	7.4		None		
SBR66-140	642.0-643.8	10257	.0	3.0	96.3	.7	No oil	7.2		None		
SBR66-141	644.0-647.0	10258	.0	2.9	97.0	.1	No oil	6.9		None		
SBR66-142	647.0-648.5	10259	.0	2.2	97.4	.4	No oil	5.2		None		
SBR66-143	648.5-649.8	10260	.0	1.2	98.6	.2	No oil	2.9		None		
SBR66-144	649.8-650.9	10261	.0	1.5	98.2	.3	No oil	3.7		None		
SBR66-145	650.9-654.0	10262	.0	1.1	98.8	.1	No oil	2.7		None		
SBR66-146	654.0-657.0	10263	.0	1.2	98.3	.5	No oil	3.0		None		
SBR66-147	657.0-659.2	10264	.0	.9	98.8	.3	No oil	2.1		None		
SBR66-148	659.2-661.5	10265	.0	1.5	98.2	.3	No oil	3.6		None		
SBR66-149	661.5-663.3	10266	.0	2.0	96.8	1.2	No oil	4.7		None		
SBR66-150	663.3-664.6	10267	.0	2.2	97.1	.7	No oil	5.4		None		
SBR66-151	665.0-667.1	10268	.0	1.5	97.7	.8	No oil	3.5		None		

See footnotes at end of table.

Core samples received October 5, 1965; assays made on air-dried samples

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from S and P Corporation's Corehole AC-2 (con.)

Surface elevation 7,105 feet

			Yield of product						Specific gravity of oil at 60°/60°F	Properties of spent shale		Remarks
Sample number		Run No.	Weight percent		Spent shale	Gas + loss	Gal per ton			Tendency to coke		
Laramie	Their		Oil	Water			Oil 1/2	Water				
SBR66-152	667.1-669.5	10269	0.0	0.4	98.8	0.8	No oil	0.8		None		
SBR66-153	669.5-670.6	10270	.0	.9	98.7	.4	No oil	2.0		None		
SBR66-154	670.6-673.2	10271	.0	.1	99.5	.4	No oil	.3		None		
SBR66-155	673.2-674.6	10272	.0	.3	99.0	.7	No oil	.6		None		
SBR66-156	674.6-676.0	10273	.0	1.0	98.4	.6	No oil	2.3		None		
SBR66-157	676.0-677.0	10274	.0	.6	98.2	1.2	No oil	1.3		None		
SBR66-158	677.0-678.0	10275	.0	1.1	98.1	.8	No oil	2.5		None		
SBR66-159	678.0-680.6	10276	.0	.6	99.0	.4	No oil	1.5		None		
SBR66-160	680.6-684.0	10277	.0	1.2	98.6	.2	No oil	2.8		None		
SBR66-161	684.0-686.0	10278	.0	2.3	97.5	.2	No oil	5.5		None		
SBR66-162	686.0-688.9	10279	.0	2.7	97.1	.2	No oil	6.4		None		
SBR66-163	688.9-691.0	10280	.0	1.9	98.0	.1	No oil	4.5		None		
SBR66-164	691.0-692.2	10281	.0	2.2	97.8	.0	No oil	5.2		None		
SBR66-165	692.2-695.6	10282	.0	1.3	98.3	.4	No oil	3.2		None		
SBR66-166	695.6-697.4	10283	.0	2.8	97.0	.2	No oil	6.8		None		
SBR66-167	697.4-700.4	10284	.0	1.7	98.1	.2	No oil	4.1		None		
SBR66-168	700.4-705.0	10285	.0	1.3	98.3	.4	No oil	3.1		None		
SBR66-169	705.0-709.1	10286	.0	1.6	98.2	.2	No oil	3.8		None		
SBR66-170	709.1-709.9	10287	.0	2.1	96.9	1.0	No oil	5.1		None		
SBR66-171	709.9-711.4	10288	.0	1.9	98.0	.1	No oil	4.6		None		
SBR66-172	711.4-712.7	10337	.0	2.6	97.1	.3	No oil	6.1		None		
SBR66-173	712.7-714.7	10338	.0	1.4	98.0	.6	No oil	3.5		None		
SBR66-174	714.7-716.3	10339	.0	1.1	98.5	.4	No oil	2.7		None		
SBR66-175	716.3-718.5	10340	.0	1.6	98.0	.4	No oil	3.9		None		
SBR66-176	718.5-721.0	10341	.0	2.4	97.1	.5	No oil	5.8		None		
SBR66-177	721.0-723.5	10342	.0	1.9	97.9	.2	No oil	4.6		None		
SBR66-178	723.5-725.3	10343	.0	1.8	97.6	.6	No oil	4.4		None		
SBR66-179	725.3-727.4	10344	.0	1.6	97.7	.7	No oil	3.8		None		
SBR66-180	727.4-729.3	10345	.0	1.3	98.6	.1	No oil	3.1		None		
SBR66-181	729.3-730.3	10346	.0	1.8	97.2	1.0	No oil	4.4		None		

See footnotes at end of table.

Core samples received October 5, 1965; assays made on air-dried samples

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from S and P Corporation's Corehole AC-2 (con.)

Surface elevation 7,105 feet

Sample number		Run No.	Yield of product		Spent shale	Gas + loss	Gal per ton		Specific gravity of oil at 60°/60°F	Properties of spent shale Tendency to coke	Remarks
Laramie	Their		Oil	Water			Oil <sup>1/</sup>	Water			
SBR66-182	730.3-732.9	10349	0.0	1.0	98.9	0.1	No oil	2.4		None	
SBR66-183	732.9-733.9	10350	.0	1.9	97.9	.2	No oil	4.5		None	
SBR66-184	733.9-735.4	10351	.0	1.7	97.1	1.2	No oil	4.1		None	
SBR66-185	736.0-738.5	10352	.0	2.3	97.6	.1	No oil	5.6		None	
SBR66-186	738.5-740.2	10353	.0	.8	99.1	.1	No oil	1.9		None	
SBR66-187	740.2-741.2	10354	.0	2.0	97.5	.5	No oil	4.7		None	
SBR66-188	741.2-743.5	10355	.0	1.1	98.8	.1	No oil	2.7		None	
SBR66-189	743.5-744.5	10356	.0	2.0	97.9	.1	No oil	4.8		None	
SBR66-190	744.5-746.6	10357	.0	1.4	98.4	.2	No oil	3.4		None	
SBR66-191	746.6-750.4	10358	.0	1.1	98.6	.3	No oil	2.7		None	
SBR66-192	750.4-751.8	10359	.0	.9	98.1	1.0	No oil	2.1		None	
SBR66-193	751.8-753.2	10360	.0	1.2	98.4	.4	No oil	2.9		None	
SBR66-194	753.2-754.2	10361	.3	2.0	96.1	1.6	0.8a	4.8		None	
SBR66-195	754.2-755.2	10362	2.4	1.8	94.0	1.8	6.4	4.3	0.905	None	
SBR66-196	755.2-756.3	10363	.4	.5	98.0	1.1	1.0a	1.2		None	
SBR66-197	756.3-757.3	10364	.1	.6	98.3	1.0	.2a	1.4		None	
SBR66-198	757.3-759.3	10365	.0	.8	98.6	.6	No oil	1.8		None	
SBR66-199	759.3-761.7	10366	.0	1.4	97.9	.7	No oil	3.4		None	
SBR66-200	761.7-763.0	10367	.0	1.4	97.8	.8	No oil	3.3		None	
SBR66-201	763.0-766.1	10368	.0	.4	98.8	.8	No oil	.9		None	
SBR66-202	766.1-767.6	10369	.0	1.7	97.7	.6	No oil	4.0		None	
SBR66-203	767.6-772.7	10370	.0	1.5	97.5	1.0	No oil	3.5		None	
SBR66-204	772.7-775.2	10371	.0	.8	98.8	.4	No oil	1.9		None	
SBR66-205	775.2-776.4	10372	.0	1.7	97.9	.4	No oil	4.0		None	
SBR66-206	776.4-778.3	10373	.0	2.3	97.4	.3	No oil	5.5		None	
SBR66-207	778.3-781.0	10374	.0	1.3	97.9	.8	No oil	3.2		None	
SBR66-208	781.0-782.4	10375	.0	.6	99.0	.4	No oil	1.5		None	
SBR66-209	782.4-783.8	10376	.1	2.4	96.7	.8	.2a	5.9		None	
SBR66-210	783.8-785.0	10377	.0	1.0	98.4	.6	No oil	2.4		None	
SBR66-211	785.0-786.0	10378	.0	.7	99.0	.3	No oil	1.7		None	

1/ "a"--indicates specific gravity estimated as 0.92. ~~Oil yields were estimated by a rapid retort method.~~ "No oil", "Trace".

Core samples received October 5, 1965; assays made on air-dried samples

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