

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Union Pacific Railroad Company's Granger No. 4-7 Corehole drilled
in CSE1/4 of sec 7, T 19 N, R 111 W, Sweetwater County, Wyoming

KB Elevation 6,406 feet
Surface 6,400 feet

Sample number		Run No.	Yield of product				Specific gravity of oil at 60°/60° F	Properties of spent shale		Remarks
			Weight percent		Gas + loss	Gal per ton		Tendency to coke		
Laramie	Their		Oil	Water		Spent shale			Oil ₁ /	Water
SBR71-8345-48	30- 70						No oil			
SBR71-8349	70- 80						c			
SBR71-8350-53	80- 120						No oil			
SBR71-8354-56	120- 150						Trace			
SBR71-8357-62	150- 210						No oil			
SBR71-8363	210- 220	61990	1.0	1.8	95.3	1.9	2.5a	4.3		None
SBR71-8364	220- 230	61991	1.2	2.3	94.9	1.6	3.0a	5.5		None
SBR71-8365	230- 240						b			
SBR71-8366-81	240- 400						No oil			
SBR71-8382-83	400- 420						b			
SBR71-8384	420- 430						Trace			
SBR71-8385-8411	430- 700						No oil			
SBR71-8412-17	770- 830						No oil			
SBR71-8418	880- 885						c			
SBR71-8419-20	885- 895						b			
SBR71-8421	895- 900						Trace			
SBR71-8422-23	900- 910						b			
SBR71-8424	910- 915						c			
SBR71-8425	915- 920						b			
SBR71-8426-33	920- 960						Trace			
SBR71-8434-35	960- 970						b			
SBR71-8436	970- 975						No oil			
SBR71-8437-38	975- 985						b			
SBR71-8439-53	985-1060						Trace			
SBR71-8454-55	1060-1070						b			
SBR71-8456	1070-1075	61992	1.4	1.8	95.4	1.4	3.5a	4.4		None
SBR71-8457	1075-1080	61993	1.4	1.9	94.7	2.0	3.8a	4.6		None
SBR71-8458	1080-1085	61994	3.5	1.7	92.3	2.5	9.2	4.1	0.912	None
SBR71-8459	1085-1090	61995	3.9	1.8	92.2	2.1	10.2	4.3	.909	None
SBR71-8460	1090-1095	61996	1.2	1.7	95.8	1.3	3.2a	4.0		None

See footnote at end of table.

Core and drill cutting samples received June 26, 1970; Assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Union Pacific Railroad Company's Granger No. 4-7 Corehole (con.)

KB Elevation 6,406 feet

Surface 6,400 feet

Sample number		Run No.	Yield of product				Specific gravity		Properties of spent shale		Remarks
			Weight percent		Spent shale	Gas + loss	Gal per ton		of oil at 60°/60° F	Tendency to coke	
Laramie	Their	Oil	Water	Oil ¹ /			Water				
SBR71-8461	1095-1100	61997	1.1	1.1	93.8	4.0	2.8a	2.8		None	
SBR71-8462	1100-1105	61998	.7	1.8	95.7	1.8	1.8a	4.4		None	
SBR71-8463	1105-1110	61999	.8	1.7	95.9	1.6	2.1a	4.1		None	
SBR71-8464	1110-1115	62000	.4	1.7	96.2	1.7	1.2a	4.1		None	
SBR71-8465	1115-1120	62001	.3	1.7	96.3	1.7	.8a	4.2		None	
SBR71-8466	1120-1125	62002	.6	1.3	97.0	1.1	1.5a	3.1		None	
SBR71-8467	1125-1130	62003	.6	1.7	96.6	1.1	1.6a	4.1		None	
SBR71-8468	1130-1135	62004	.3	1.9	97.0	.8	.7a	4.6		None	
SBR71-8469	1135-1140	62005	.4	2.0	97.5	.1	1.0a	4.8		None	
SBR71-8470	1140-1145	62006	.3	2.0	97.0	.7	.9a	4.8		None	
SBR71-8471	1145-1150	62007	.4	1.2	98.0	.4	1.0a	3.0		None	
SBR71-8472	1150-1155	62008	.2	1.3	98.3	.2	.6a	3.1		None	
SBR71-8473	1155-1160	62009	.2	1.3	98.1	.4	.5a	3.1		None	
SBR71-8474	1160-1165	62010	.3	1.2	97.3	1.2	.8a	2.9		None	
SBR71-8475	1165-1170	62011	.1	1.9	97.3	.7	.3a	4.6		None	
SBR71-8476	1170-1175	62012	.2	2.0	97.5	.3	.6a	4.8		None	
SBR71-8477	1175-1180	62013	.1	1.4	97.6	.9	.2a	3.5		None	
SBR71-8478-83	1180-1210						b				
SBR71-8484-85	1210-1220						Trace				
SBR71-8486-92	1220-1255						b				
SBR71-8493	1255-1260						Trace				
SBR71-8494-95	1260-1270						b				
SBR71-8496	1270-1275						c				
SBR71-8497	1275-1280						b				
SBR71-8498	1280-1285						c				
SBR71-8499-8504	1285-1315						b				
SBR71-8505	1315-1320	62014	.1	1.6	97.8	.5	.2a			None	
SBR71-8506	1320-1325						b				
SBR71-8507-09	1325-1340						c				
SBR71-8510-12	1340-1355						b				

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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		Gal per ton			Tendency to coke		
Laramie	Their		Oil	Water	Spent shale	Gas + loss	Oil ¹ / _c	Water		
SBR71-8513	1355-1360									
SBR71-8514-16	1360-1375									
SBR71-8517	1375-1380	62015	0.3	2.3	96.7	0.7	0.9a	5.5		None
SBR71-8518	1380-1385	62016	.8	1.3	96.7	1.2	2.2a	3.1		None
SBR71-8519	1385-1390	62017	.7	1.8	96.8	.7	1.8a	4.3		None
SBR71-8520	1390-1395	62018	1.0	1.6	97.1	.3	2.7a	3.8		None
SBR71-8521	1395-1400	62019	5.2	1.4	91.9	1.5	13.5	3.4	0.919	None
SBR71-8522	1403-1404	62020	5.8	2.2	89.6	2.4	15.2	5.3	.919	None
SBR71-8523	1404-1405	62021	3.2	2.9	92.1	1.8	8.3	7.0	.920	None
SBR71-8524	1405-1406	62022	1.2	5.1	91.8	1.9	3.2a	12.1		None
SBR71-8525	1406-1407	62023	1.1	5.8	91.3	1.8	2.8a	13.9		None
SBR71-8526	1407-1408	62024	.2	4.2	94.6	1.0	.6a	10.1		None
SBR71-8527	1408-1409	62025	1.8	.6	96.4	1.2	4.8a	1.3		None
SBR71-8528	1409-1410	62026	3.5	.2	94.6	1.7	8.9	.6	.927	None
SBR71-8529	1410-1411	62027	3.0	1.8	93.1	2.1	7.8	4.3	.933	None
SBR71-8530	1411-1412	62028	.9	6.0	91.3	1.8	2.4a	14.4		None
SBR71-8531	1412-1413	62029	.1	5.2	93.3	1.4	.1a	12.4		None
SBR71-8532	1413-1414	62030	.4	8.1	90.5	1.0	1.0a	19.4		None
SBR71-8533	1414-1415	62031	1.5	1.2	95.8	1.5	3.9a	3.0		None
SBR71-8534	1415-1416	62032	2.3	.9	95.0	1.8	5.8	2.2	.925	None
SBR71-8535	1416-1417	62033	.7	.8	96.4	2.1	1.7a	1.9		None
SBR71-8536	1417-1418	62034	.3	1.4	96.7	1.6	.9a	3.4		None
SBR71-8537	1418-1419	62035	1.0	2.4	95.2	1.4	2.6a	5.6		None
SBR71-8538	1419-1420	62036	3.0	1.6	92.8	2.6	7.8	4.0	.926	None
SBR71-8539	1420-1421	62037	.4	5.0	92.5	2.1	1.0a	12.0		None
SBR71-8540	1421-1422	62038	.0	5.3	92.5	2.2	Trace	12.7		None
SBR71-8541	1422-1423	62039	.0	4.1	94.0	1.9	Trace	9.7		None
SBR71-8542	1423-1424	62040	.0	4.3	94.3	1.4	Trace	10.2		None
SBR71-8543	1424-1425	62041	.0	5.0	93.8	1.2	Trace	11.9		None
SBR71-8544	1425-1426	62042	.0	4.2	94.4	1.4	Trace	9.9		None

See footnote at end of table.

Core and drill cutting samples received June 26, 1970; Assays made on air-dried samples

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Samples from Union Pacific Railroad Company's Granger No. 4-7 Corehole (con.)

ation 6,406 feet

6,400 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						
Their		Oil	Water	Spent shale	Gas + loss	Oil/	Water				
1545	1426-1427	62043	0.1	4.0	94.8	1.1	0.2a	9.6		None	
1546	1427-1428	62044	.4	9.4	88.7	1.5	.9a	22.5		None	
1547	1428-1429	62045	1.0	6.5	90.7	1.8	2.7a	15.6		None	
1548	1429-1430	62046	2.7	4.0	90.5	2.8	7.1	9.6	0.921	None	
1549	1430-1431	62047	5.5	1.2	90.6	2.7	14.2	3.0	.920	None	
1550	1431-1432	62048	4.4	1.1	92.1	2.4	11.3	2.6	.924	None	
1551	1432-1433	62049	3.1	1.0	93.5	2.4	8.1	2.4	.923	None	
1552	1433-1434	62050	2.8	1.3	94.0	1.9	7.3	3.1	.925	None	
1553	1434-1435	62051	2.6	1.4	94.0	2.0	6.6	3.4	.925	None	
1554	1435-1436	62052	2.0	1.4	95.8	.8	5.1a	3.4		None	
1555	1436-1437	62053	1.2	1.7	95.9	1.2	3.0a	4.1		None	
1556	1437-1438	62054	1.4	1.5	95.9	1.2	3.7a	3.6		None	
1557	1438-1439	62055	1.4	1.6	95.7	1.3	3.5a	3.8		None	
1558	1439-1440	62056	1.9	1.3	95.2	1.6	4.9a	3.1		None	
1559	1440-1441	62057	1.5	1.4	95.8	1.3	3.8a	3.4		None	
1560	1441-1442	62058	2.8	1.3	94.0	1.9	7.3	3.1	.922	None	
1561	1442-1443	62059	5.3	1.3	91.0	2.4	13.8	3.1	.917	None	
1562	1443-1444	62060	3.7	1.5	92.8	2.0	9.7	3.6	.915	None	
1563	1444-1445	62061	1.7	2.3	94.0	2.0	4.5a	5.5		None	
1564	1445-1446	62062	1.0	2.3	95.0	1.7	2.5a	5.5		None	
1565	1446-1447	62063	3.2	1.7	91.9	3.2	8.4	4.1	.922	None	
1566	1447-1448	62064	1.6	1.9	94.8	1.7	4.2a	4.6		None	
1567	1448-1449	62065	.0	.7	98.1	1.2	Trace	1.6		None	
1568	1449-1450	62066	.0	.5	98.6	.9	No oil	1.2		None	
1569	1450-1451	62067	.0	.5	98.4	1.1	Trace	1.1		None	
1570	1451-1452	62068	.4	1.1	97.5	1.0	.9a	2.6		None	
1571	1452-1453	62069	.0	.4	97.9	1.7	No oil	1.0		None	
1572	1453-1454	62070	.0	.4	98.1	1.5	Trace	.9		None	
1573	1454-1455	62071	.0	.5	98.6	.9	No oil	1.2		None	
1574	1455-1456	62072	.0	2.5	96.5	1.0	Trace	6.0		None	

Footnote at end of table.

Core and drill cutting samples received June 26, 1970; Assays made on air-dried samples

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KB Elevation 6,406 feet
Surface 6,400 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 ¹ /	Water		coke		
SBR71-8575	1456-1457	62073	1.7	1.4	95.2	1.7	4.3a	3.5		None		
SBR71-8576	1457-1458	62074	3.2	.5	94.3	2.0	8.6	1.2	0.908	None		
SBR71-8577	1458-1459	62075	3.3	.9	93.1	2.7	8.5	2.2	.924	None		
SBR71-8578	1459-1460	62076	.5	2.7	95.1	1.7	1.2a	6.5		None		
SBR71-8579	1460-1461	62077	.5	8.5	89.7	1.3	1.2a	20.4		None		
SBR71-8580	1461-1462	62078	2.1	1.8	94.5	1.6	5.5a	4.3		None		
SBR71-8581	1462-1463	62079	1.8	3.6	92.8	1.8	4.6a	8.6		None		
SBR71-8582	1463-1464	62080	.0	10.6	88.2	1.2	Trace	25.3		None		
SBR71-8583	1464-1465	62081	.0	15.3	82.4	2.3	Trace	36.6		None		
SBR71-8584	1465-1466	62082	1.8	5.8	89.7	2.7	4.7a	13.9		None		
SBR71-8585	1466-1467	62083	.6	7.0	90.5	1.9	1.6a	16.8		None		
SBR71-8586	1467-1468	62084	.0	6.8	91.6	1.6	No oil	16.2		None		
SBR71-8587	1468-1469	62085	.0	3.1	95.3	1.6	No oil	7.4		None		
SBR71-8588	1469-1470	62086	.0	4.9	94.4	.7	No oil	11.7		None		
SBR71-8589	1470-1471	62087	.1	8.0	90.4	1.5	.2a	19.2		None		
SBR71-8590	1471-1472	62088	1.4	7.1	90.7	.8	3.5a	17.0		None		
SBR71-8591	1472-1473	62089	.1	7.7	90.2	2.0	.2a	18.5		None		
SBR71-8592	1473-1474	62090	.0	6.8	92.0	1.2	Trace	16.3		None		
SBR71-8593	1474-1475	62091	.0	7.9	90.8	1.3	No oil	19.0		None		
SBR71-8594	1475-1476	62092	.0	3.5	95.5	1.0	No oil	8.3		None		
SBR71-8595	1476-1477	62093	.3	4.2	93.9	1.6	.9a	10.1		None		
SBR71-8596	1477-1478	62094	3.1	2.2	92.3	2.4	7.9	5.3	.926	None		
SBR71-8597	1478-1479	62095	6.1	1.6	89.4	2.9	16.0	3.7	.915	None		
SBR71-8598	1479-1480	62096	7.8	1.6	87.6	3.0	20.4	4.0	.913	None		
SBR71-8599	1480-1481	62097	4.6	1.6	90.9	2.9	12.0	3.8	.915	None		
SBR71-8600	1481-1482	62098	1.9	2.6	93.3	2.2	4.9a	6.2		None		
SBR71-8601	1482-1483	62099	1.1	2.7	94.7	1.5	2.9a	6.5		None		
SBR71-8602	1483-1484	62100	1.9	1.5	95.3	1.3	5.1a	3.5		None		
SBR71-8603	1484-1485	62101	4.3	1.2	92.0	2.5	11.2	2.8	.924	None		
SBR71-8604	1485-1486	62102	6.8	1.6	89.0	2.6	17.9	3.8	.912	None		

See footnote at end of table.

Core and drill cutting samples received June 26, 1970; Assays made on air-dried samples

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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 ₁ /	Water
SBR71-8605	1486-1487	62103	6.0	1.3	90.0	2.7	15.6	3.1	0.917	None
SBR71-8606	1487-1488	62104	6.5	1.3	89.7	2.5	16.9	3.2	.918	None
SBR71-8607	1488-1489	62105	3.4	.9	93.0	2.7	9.0	2.2	.919	None
SBR71-8608	1489-1490	62106	5.6	.9	90.5	3.0	14.5	2.3	.920	None
SBR71-8609	1490-1491	62107	5.0	1.2	91.7	2.1	13.1	2.8	.917	None
SBR71-8610	1491-1492	62108	3.4	.9	93.6	2.1	8.8	2.3	.921	None
SBR71-8611	1492-1493	62109	1.8	1.2	96.0	1.0	4.8a	2.8		None
SBR71-8612	1493-1494	62110	.8	.7	96.7	1.8	2.0a	1.8		None
SBR71-8613	1494-1495	62111	2.1	.7	95.4	1.8	5.4	1.8	.925	None
SBR71-8614	1495-1496	62112	12.6	1.3	82.9	3.2	33.1	3.1	.911	None
SBR71-8615	1496-1497	62113	4.2	1.3	92.1	2.4	11.0	3.1	.913	None
SBR71-8616	1497-1498	62114	.5	2.4	96.1	1.0	1.4a	5.8		None
SBR71-8617	1498-1499	62115	1.1	1.4	96.4	1.1	3.0a	3.4		None
SBR71-8618	1499-1500	62116	7.6	1.2	88.9	2.3	19.9	2.9	.916	None
SBR71-8619	1500-1501	62117	6.6	2.5	87.4	3.5	17.3	6.0	.917	None
SBR71-8620	1501-1502	62118	1.5	3.0	92.9	2.6	3.8a	7.2		None
SBR71-8621	1502-1503	62119	.2	4.9	93.6	1.3	.4a	11.7		None
SBR71-8622	1502-1504	62120	.1	3.0	95.4	1.5	.3a	7.1		None
SBR71-8623	1504-1505	62121	.2	9.0	88.8	2.0	.6a	21.6		None
SBR71-8624	1505-1506	62122	3.0	4.0	91.6	1.4	7.9	9.6	.925	None
SBR71-8625	1506-1507	62123	5.2	2.0	89.0	3.8	13.5	4.8	.922	None
SBR71-8626	1507-1508	62124	.4	6.0	90.3	3.3	1.0a	14.4		None
SBR71-8627	1508-1509	62125	.3	8.1	90.3	1.3	.8a	19.4		None
SBR71-8628	1509-1510	62126	.2	4.6	93.8	1.4	.5a	11.0		None
SBR71-8629	1510-1511	62127	.3	4.3	94.5	.9	.7a	10.3		None
SBR71-8630	1511-1512	62128	.1	4.2	94.2	1.5	.3a	10.1		None
SBR71-8631	1512-1513	62129	.0	9.6	86.1	4.3	No oil	23.1		None
SBR71-8632	1513-1514	62130	.0	17.7	72.4	9.9	No oil	42.4		None
SBR71-8633	1514-1515	62131	.0	2.1	93.1	4.8	No oil	5.1		None
SBR71-8634	1515-1516	62132	.0	12.0	82.5	5.5	No oil	28.7		None

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KB Elevation 6,406 feet
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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		Gal per ton			Tendency to		
Laramie	Their	Oil	Water	Spent shale	Gas + loss	Oil ^{1/}	Water	coke	
SBR71-8635	1516-1517	62133	0.1	12.6	79.5	7.8	0.2a	30.3	None
SBR71-8636	1517-1518	62134	5.8	3.4	85.2	5.6	15.2	8.1	0.923
SBR71-8637	1518-1519	62135	15.0	2.2	76.5	6.3	39.2	5.3	.915
SBR71-8638	1519-1520	62136	12.5	3.3	80.4	3.8	32.9	7.9	.909
SBR71-8639	1520-1521	62137	4.0	4.5	89.3	2.2	10.4	10.8	.921
SBR71-8640	1521-1522	62138	2.4	2.9	93.1	1.6	6.3	7.0	.916
SBR71-8641	1522-1523	62139	3.0	2.2	92.6	2.2	8.0	5.3	.919
SBR71-8642	1523-1524	62140	3.7	1.5	92.7	2.1	9.7	3.6	.920
SBR71-8643	1524-1525	62141	3.0	.9	92.0	4.1	7.8	2.2	.926
SBR71-8644	1525-1526	62142	2.2	2.6	92.7	2.5	5.6	6.2	.927
SBR71-8645	1526-1527	62143	1.1	3.0	94.6	1.3	2.8a	7.2	None
SBR71-8646	1527-1528	62144	2.1	4.6	91.5	1.8	5.5	11.0	.922
SBR71-8647	1528-1529	62145	5.1	1.9	90.3	2.7	13.3	4.6	.921
SBR71-8648	1529-1530	62146	.7	6.5	90.1	2.7	1.8a	15.6	None
SBR71-8649	1530-1531	62147	.0	3.1	95.5	1.4	Trace	7.4	None
SBR71-8650	1531-1532	62148	.0	1.7	96.9	1.4	No oil	4.0	None
SBR71-8651	1532-1533	62149	.0	1.9	96.9	1.2	No oil	4.6	None
SBR71-8652	1533-1534	62150	.0	2.6	96.2	1.2	No oil	6.2	None
SBR71-8653	1534-1535	62151	.0	3.6	94.8	1.6	No oil	8.7	None
SBR71-8654	1535-1536	62152	.0	3.6	94.9	1.5	Trace	8.6	None
SBR81-8655	1536-1537	62153	2.9	1.6	93.2	2.3	7.5	3.8	.917
SBR71-8656	1537-1538	62154	1.5	1.2	95.1	2.2	3.8a	2.9	None
SBR71-8657	1538-1539	62155	.0	1.8	97.0	1.2	No oil	4.3	None
SBR71-8658	1539-1540	62156	.0	1.3	97.2	1.5	No oil	3.2	None
SBR71-8659	1540-1541	62157	.0	1.4	97.4	1.2	No oil	3.2	None
SBR71-8660	1541-1542	62158	.1	1.4	97.1	1.4	.2a	3.5	None
SBR71-8661	1542-1543	62159	.1	1.8	96.1	2.0	.3a	4.4	None
SBR71-8662	1543-1544	62160	.0	1.4	97.1	1.5	No oil	3.4	None
SBR71-8663	1544-1545	62161	.0	2.1	96.7	1.2	No oil	5.0	None
SBR71-8664	1545-1546	62162	.0	1.9	97.0	1.1	No oil	4.6	None

See footnote at end of table.

Core and drill cutting samples received June 26, 1970; Assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from Union Pacific Railroad Company's Granger No. 4-7 Corehole (con.)

KB Elevation 6,406 feet

Surface 6,400 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/}	Water		
Laramie	Their									
SBR71-8665	1546-1547	62163	0.0	1.8	96.8	1.4	Trace	4.3	None	
SBR71-8666	1547-1548	62164	.1	1.4	96.9	1.6	.3a	3.4	None	
SBR71-8667	1548-1549	62165	.1	1.6	97.0	1.3	.3a	3.8	None	
SBR71-8668	1549-1550	62166	.1	1.9	96.9	1.1	.3a	4.6	None	
SBR71-8669	1550-1551	62167	.2	1.5	97.2	1.1	.6a	3.6	None	
SBR71-8670	1551-1552	62168	.1	2.0	96.6	1.3	.3a	4.8	None	
SBR71-8671	1552-1553	62169	1.7	1.3	95.7	1.3	4.4a	3.1	None	
SBR71-8672	1553-1554	62170	.0	1.2	98.5	.3	No oil	2.9	None	
SBR71-8673	1554-1555	62171	.0	1.0	98.7	.3	No oil	2.4	None	
SBR71-8674	1555-1556	62172	.0	1.0	99.0	.0	No oil	2.3	None	
SBR71-8675	1556-1557	62173	.0	4.8	94.9	.3	No oil	11.5	None	
SBR71-8676	1557-1558	62174	.0	4.0	95.2	.4	No oil	10.5	None	
SBR71-8677	1558-1559	62175	.0	6.4	93.4	.2	No oil	15.2	None	
SBR71-8678	1559-1560	62176	.0	4.5	95.2	.3	No oil	10.7	None	End core
SBR71-8679-81	1560-1590						b			

^{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 and drill cutting samples received June 26, 1970; Assays made on air-dried samples