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Core samples from LPDA/LERC Southern Uinta Basin  
 Corehole 11 drilled in the NW 1/4 NE 1/4 (2474 feet FNL, 3215 feet FEL)  
 Elevation: 6427' of sec 10, T13S, R22E, S.L.B. & M., Uintah County, Utah

Sample Nos.	Weight Percent		Gals/Ton		Specific Gravity	Tendency to Coke	Remarks				
	Laramie	Ther	Water	Spent Solk							
1	1366	159.2-160.2	28	1.9	94.0	1.3	71	4.6	924	None	
2	1367	160.2-161.2	27	1.9	94.3	1.1	69	4.6	927		
3	1368	161.2-162.2	29	2.1	93.8	1.2	76	5.0	925		
4	1369	162.2-163.2	32	1.8	93.5	1.5	83	4.3	927		
5	1370	163.2-164.2	14	1.6	94.1	0.9	37	3.8	929		
6	1371	164.2-165.2	15	1.6	93.9	1.0	38	3.8	930		
7	1372	165.2-166.2	26	1.9	94.3	1.2	68	4.6	928		
8	1373	167.3-168.7	41	2.9	93.5	1.5	105	2.2	933		
9	1374	168.7-169.2	17	1.7	95.9	0.7	44	4.1	930		
10	1375	169.2-170.2	10	1.4	96.7	0.9	25	3.4	930		
11	1376	170.2-171.5	05	1.3	97.6	0.6	14	3.1	930		
12	1377	171.5-172.5	14	1.2	96.8	0.6	36	2.9	930		
13	1378	172.5-173.5	14	1.4	96.6	0.6	37	3.4	930		
14	1379	173.5-174.5	19	1.8	93.5	0.8	50	4.3	930		
15	1380	174.5-175.5	25	2.6	94.0	0.8	67	6.2	925		
16	1381	175.5-176.5	30	1.8	94.5	0.7	76	4.3	932		
17	1382	176.5-178.0	29	1.5	94.8	0.8	74	3.6	931		
18	1383	178.0-178.7	20	1.2	94.6	0.2	51	4.7	926		
19	1384	178.7-180.0	22	2.2	94.9	0.7	58	5.3	922		
20	1385	180.0-181.0	25	1.8	94.9	0.8	65	4.3	926		
21	1386	181.0-182.0	32	1.4	95.3	0.1	84	3.4	925		
22	1387	182.0-183.0	16	2.4	95.3	0.7	43	5.8	920		
23	1388	183.0-183.6	11	2.4	95.8	0.7	30	5.8	920		
24	1389	183.6-185.0	27	2.0	95.0	0.3	71	4.8	923		
25	1390	185.0-186.0	25	2.0	94.2	0.3	65	4.8	926		
26	1391	186.0-187.0	30	1.6	95.0	0.4	78	3.3	924		
27	1392	187.0-188.0	18	2.1	94.7	0.4	46	5.0	920		
28	1393	188.0-189.0	22	2.4	95.1	0.6	58	5.3	913		
29	1394	189.0-190.5	24	2.4	94.5	0.7	63	5.8	921		
30	1395	190.5-191.9	15	1.8	95.1	0.6	37	4.3	920		
31	See footnote at end of table										
32	Core Samples received: October 5, 1977; assays made on air dried samples										
33	Assay completed: August 1, 1980										
34	Laramie Energy Technology Center, Laramie, Wyoming										
35	Page 1 of 15										
36	a - specific gravity estimated as 0.92.										
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Elevation: 6427'

Samples from EPDA/ERL Southern Upland Basin  
Cachote II drilled in the SW 1/4 NE 1/4 (211) T1N, 20S R1E  
of sec. 10, T13S, R22E, Uintah County, Utah.

Sample Nos.	Weight Percent				Gal./Ton				Specific Gravity	Acidimetric G.C.	Remarks
	Dynamic	Ther	Run No.	Oil	Water	Gravel	Clay	Gast/Loss	Oil	Water	
1	1376	191.9-192.9	63217	5.8	1.1	92.5	1.1	1.1	1.27	1.6	92.1
2	1377	192.9-193.5	63218	10.8	1.1	88.1	1.0	1.0	1.27	1.6	92.1
3	1378	193.5-194.5	63219	10.8	1.1	88.1	1.0	1.0	1.27	1.6	92.1
4	1379	194.5-195.5	63220	10.8	1.0	88.0	1.2	1.2	1.27	1.6	92.0
5	1400	195.5-196.5	63221	10.8	1.0	88.0	1.2	1.2	1.27	1.6	92.0
6	1401	196.5-197.5	63222	10.8	1.0	88.0	1.2	1.2	1.27	1.6	92.0
7	1402	197.5-198.5	63223	10.8	1.0	88.0	1.2	1.2	1.27	1.6	92.0
8	1403	198.5-199.5	63224	10.8	1.0	88.0	1.2	1.2	1.27	1.6	92.0
9	1404	199.5-200.5	63225	10.8	1.0	88.0	1.2	1.2	1.27	1.6	92.0
10	1405	200.5-201.5	63226	10.8	1.0	88.0	1.2	1.2	1.27	1.6	92.0
11	1406	201.5-202.5	63227	10.8	1.0	88.0	1.2	1.2	1.27	1.6	92.0
12	1407	202.5-203.5	63228	10.8	1.0	88.0	1.2	1.2	1.27	1.6	92.0
13	1408	203.5-204.5	63229	10.8	1.0	88.0	1.2	1.2	1.27	1.6	92.0
14	1409	204.5-205.5	63230	10.8	1.0	88.0	1.2	1.2	1.27	1.6	92.0
15	1410	205.5-206.5	63231	10.8	1.0	88.0	1.2	1.2	1.27	1.6	92.0
16	1411	206.5-207.5	63232	10.8	1.0	88.0	1.2	1.2	1.27	1.6	92.0
17	1412	207.5-208.5	63233	10.8	1.0	88.0	1.2	1.2	1.27	1.6	92.0
18	1413	208.5-209.5	63234	10.8	1.0	88.0	1.2	1.2	1.27	1.6	92.0
19	1414	209.5-210.5	63235	10.8	1.0	88.0	1.2	1.2	1.27	1.6	92.0
20	1415	210.5-211.5	63236	10.8	1.0	88.0	1.2	1.2	1.27	1.6	92.0
21	1416	211.5-212.5	63237	10.8	1.0	88.0	1.2	1.2	1.27	1.6	92.0
22	1417	212.5-213.5	63238	10.8	1.0	88.0	1.2	1.2	1.27	1.6	92.0
23	1418	213.5-214.5	63239	10.8	1.0	88.0	1.2	1.2	1.27	1.6	92.0
24	1419	214.5-215.5	63240	10.8	1.0	88.0	1.2	1.2	1.27	1.6	92.0
25	1420	215.5-216.5	63241	10.8	1.0	88.0	1.2	1.2	1.27	1.6	92.0
26	1421	216.5-217.5	63242	10.8	1.0	88.0	1.2	1.2	1.27	1.6	92.0
27	1422	217.5-218.5	63243	10.8	1.0	88.0	1.2	1.2	1.27	1.6	92.0
28	1423	218.5-219.5	63244	10.8	1.0	88.0	1.2	1.2	1.27	1.6	92.0
29	1424	219.5-220.5	63245	10.8	1.0	88.0	1.2	1.2	1.27	1.6	92.0
30	1425	220.5-221.5	63246	10.8	1.0	88.0	1.2	1.2	1.27	1.6	92.0
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Core Samples Rec'd: 10/15/77

Assay Completed: 2/1/80

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Elevation: 647'

Samples from ERDA/ERC's Southern Uintah Basin  
 Corehole 11 drilled in the SW 1/4 NE 1/4 (2474' ENL, 2215' ENL)  
 of Sec. 10, T13S, R22E, Uintah, County, Utah.

WILSON JONES MADE IN USA	Sample Nos.	Laramie	Ther	Run No	Weight Percent		Gas & Loss	Gals/Ton		Specific Gravity	Tendency to Coke	Remarks
					Oil	Water		Oil	Water			
1	SBP 80 142.6	227.0-228.0	63251	1.7	1.9	96.0	0.4	45a	46	920	None	
2	142.7	225.0-226.0	63252	1.7	1.8	96.1	0.4	46a	43	920	"	
3	142.8	226.0-227.0	63253	2.0	1.6	95.8	0.6	53	3.8	923	"	
4	142.9	227.0-228.0	63254	1.1	1.2	96.3	1.4	32a	2.9	920	"	
5	143.0	228.0-229.0	63255	1.5	1.6	96.4	0.5	40a	3.8	920	"	
6	143.1	229.0-230.0	63256	1.1	1.8	96.6	0.5	49a	4.3	920	"	
7	143.2	230.0-230.7	63257	1.2	1.8	96.5	0.5	32a	4.3	920	"	
8	143.3	230.7-232.6	63258	2.2	1.8	95.3	0.7	5.8	4.3	919	"	
9	143.4	232.6-233.1	63259	8.4	0.9	95.9	1.8	21.8	2.2	923	"	
10	143.5	233.1-235.0	63260	2.2	1.7	95.5	0.6	5.8	4.1	915	"	
11	143.6	235.0-236.0	63261	1.9	1.8	95.5	0.8	4.8	4.3	920	"	
12	143.7	236.0-237.0	63262	1.8	1.9	95.6	0.7	4.7a	4.6	920	"	
13	143.8	237.0-238.0	63263	1.5	2.3	95.6	0.6	3.9a	5.5	920	"	
14	143.9	238.0-239.0	63264	1.6	2.3	95.5	0.6	4.3a	5.5	920	"	
15	144.0	239.0-240.0	63265	1.6	2.2	95.6	0.6	4.2a	5.3	920	"	
16	144.1	240.0-240.5	63266	4.4	0.7	92.6	4.3	11.6	1.7	915	"	
17	144.2	240.5-241.0	63267	4.3	1.4	95.8	0.5	5.9	5.4	924	"	
18	144.3	241.0-243.0	63268	1.7	1.4	95.7	1.0	4.3a	3.4	920	"	
19	144.4	243.0-244.0	63269	1.5	1.4	96.0	1.1	4.0a	3.4	920	"	
20	144.5	244.0-245.0	63270	1.6	1.3	95.2	1.9	4.1a	3.1	920	"	
21	144.6	245.0-246.0	63271	3.4	1.2	93.7	2.7	5.8	2.7	920	"	
22	144.7	246.0-247.0	63272	3.3	1.1	93.2	1.4	5.4	2.6	925	"	
23	144.8	247.0-248.0	63273	2.2	1.5	94.7	1.3	5.5	4.3	925	"	
24	144.9	248.0-248.6	63274	1.5	2.0	95.3	1.2	4.0a	4.5	920	"	
25	145.0	248.6-249.7	63275	1.5	1.8	96.0	0.7	3.9a	4.3	920	"	
26	145.1	249.7-251.5	63276	1.3	1.5	96.4	0.5	3.5a	3.6	920	"	
27	145.2	251.5-253.0	63277	1.8	1.8	95.4	1.0	3.7a	4.3	920	"	
28	145.3	253.0-254.0	63278	1.8	1.7	95.7	1.8	4.7a	4.1	920	"	
29	145.4	254.0-254.5	63279	2.6	1.9	96.4	1.1	4.9	4.6	921	"	
30	145.5	254.5-255.9	63280	6.9	1.7	97.9	1.9	18.0	3.1	924	"	
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7013 11

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Sample Number	Weight	Percent	Gravimetric	Loss	Gravimetric	Loss	Gravimetric	Loss	Gravimetric	Loss	Gravimetric
Lat. Amine	Ther.	Run No.	O.I.	Water	Spent shale	Gas + Loss	Oil L	Water	Specific Gravity	Tendency To Coke	Remarks
1	1456	251.9-256.0	63281	1.9	1.8	95.2	1.0	51.2	1.0	1.020	None
2	1457	256.0-257.9	63282	2.7	1.1	96.5	1.5	2.5a	1.0	1.020	
3	1458	257.9-258.9	63283	1.3	2.1	96.0	0.6	3.2a	1.0	1.020	
4	1459	258.9-260.0	63284	3.1	1.4	96.7	0.8	8.0	1.0	1.020	
5	1460	260.0-261.0	63285	2.0	2.4	96.9	0.7	5.2a	1.0	1.020	
6	1461	261.0-261.4	63286	2.4	2.2	96.6	0.8	6.2	1.0	1.020	
7	1462	261.4-262.3	63287	2.9	1.8	96.1	1.2	7.0	1.0	1.020	
8	1463	262.3-263.3	63288	2.3	1.6	95.3	0.8	6.0	1.0	1.020	
9	1464	263.3-263.7	63289	1.5	1.4	96.2	0.9	3.9a	1.0	1.020	
10	1465	263.7-265.0	63290	1.5	1.1	96.4	0.7	3.7a	1.0	1.020	
11	1466	265.0-265.8	63291	1.4	1.3	96.3	1.0	3.5a	1.0	1.020	
12	1467	265.8-266.6	63292	2.8	1.1	95.2	0.9	7.3	1.0	1.020	
13	1468	266.6-267.0	63293	8.1	0.9	85.9	2.1	2.0	1.0	1.020	
14	1469	267.0-267.4	63294	2.7	1.2	95.2	0.9	7.0	1.0	1.020	
15	1470	267.4-268.0	63295	1.6	1.1	96.8	0.5	5.2a	1.0	1.020	
16	1471	268.0-269.0	63296	1.4	1.0	97.2	0.4	3.6a	1.0	1.020	
17	1472	269.0-270.0	63297	1.5	0.8	97.3	0.4	3.9a	1.0	1.020	
18	1473	270.0-271.0	63298	1.7	0.8	96.7	0.6	4.5a	1.0	1.020	
19	1474	271.0-272.0	63299	1.8	1.2	96.4	0.6	5.8a	1.0	1.020	
20	1475	272.0-272.5	63300	3.2	3.0	93.9	0.7	8.3	1.0	1.020	
21	1476	272.5-273.0	63301	5.0	0.7	76.4	2.7	12.7	1.0	1.020	
22	1477	273.0-274.0	63302	2.5	1.6	95.1	0.8	6.5	1.0	1.020	
23	1478	274.0-275.0	63303	1.6	1.5	96.1	0.8	8.2a	1.0	1.020	
24	1479	275.0-276.6	63304	1.9	1.8	95.5	0.8	5.0a	1.0	1.020	
25	1480	276.6-277.1	63305	2.3	1.8	96.7	1.7	1.8a	1.0	1.020	
26	1481	277.1-278.0	63306	2.3	1.5	95.5	0.7	5.9	1.0	1.020	
27	1482	278.0-279.0	63307	1.9	1.6	95.8	0.7	5.0a	1.0	1.020	
28	1483	279.0-280.0	63308	2.4	1.5	95.4	0.7	6.2	1.0	1.020	
29	1484	280.0-281.0	63309	2.9	1.8	95.8	0.8	7.5	1.0	1.020	
30	1485	281.0-282.0	63310	3.0	1.9	93.7	1.2	7.8	1.0	1.020	

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WILSON JONES MADE IN USA	Sample Numbers		1	2	3	4	5	6	7	8	9	10	11	12
	LAPARIC	Thier	Run No.	Oil	Water	Spent Shale	Gas Loss	Oil L	Water	Specific Gravity	Tendency TO COKE	Remarks		
1	SB 801186	2870-2830	63312	32	17	942	0.9	82	41	.922	NONE			
2	1487	2830-2820	63313	35	15	940	1.0	90	36	.924				
3	1488	2840-2850	63314	23	15	941	2.1	60	36	.924				
4	1489	2850-2860	63315	36	21	933	1.0	94	50	.925				
5	1490	2860-2870	63316	37	20	926	1.7	87	48	.924				
6	1491	2870-2880	63317	36	19	933	1.2	84	46	.911				
7	1492	2880-2890	63318	33	19	926	2.3	81	46	.908				
8	1493	2890-2900	63319	34	17	933	1.4	81	46	.907				
9	1494	2900-2910	63320	29	15	944	0.9	76	43	.906				
10	1495	2910-291.9	63321	33	15	936	1.3	88	46	.908				
11	1496	291.9-292.9	63322	40	23	929	1.3	106	55	.910				
12	1497	292.9-2940	63323	43	17	925	1.5	113	41	.909				
13	1498	2940-2950	63329	45	18	921	1.6	120	43	.908				
14	1499	2950-2960	63325	45	17	929	1.4	117	41	.911				
15	1500	2960-296.6	63326	42	11	929	2.8	216	26	.903				
16	1501	296.6-2970	63327	58	17	927	1.8	153	41	.910				
17	1502	2970-2979	63328	64	16	920	2.0	169	58	.909				
18	1503	2979-298.6	63329	52	15	921	1.2	137	36	.906				
19	1504	298.6-2990	63330	33	11	934	2.3	86	26	.905				
20	1505	2990-300.0	63331	33	17	920	1.0	88	41	.907				
21	1506	3000-300.5	63332	31	16	916	0.7	81	39	.911				
22	1507	300.5-301.5	63333	37	15	935	1.1	103	36	.908				
23	1508	301.5-302.6	63334	20	19	953	0.8	52a	46	.920				
24	1509	302.6-303.9	63335	25	15	947	1.3	65	36	.908				
25	1510	303.9-3040	63336	40	11	938	1.1	104	26	.910				
26	1511	3040-3052	63337	47	17	931	1.3	128	41	.910				
27	1512	3052-3060	63338	29	18	940	1.3	78	43	.906				
28	1513	3060-306.5	63339	41	17	929	1.3	107	41	.910				
29	1514	306.5-307.9	63340	49	23	953	1.0	37a	55	.920				
30	1515	307.9-308.6	63341	26	21	944	0.9	68	50	.911				
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	Sample Numbers		Weight		Percent		Gals/Ton		Oil L		Water		Specific Gravity		Tendency to Coke		Remarks					
	Litramia	lb air	Run No.	Oil	Water	Spent Shale	Gas + Loss															
1	56880	1516	309.6-309.0	63342	53	1.9	91.1	1.7	14.0	4.6			.910		NONE							
2		1517	309.0-310.0	63343	50	1.7	92.1	1.2	13.3	4.1			.909									
3		1518	310.0-310.5	63344	38	2.0	93.3	0.9	12.0	3.8			.906									
4		1519	310.5-312.0	63345	1.8	1.9	95.7	0.6	9.2	3.6			.920									
5		1520	312.0-312.9	63346	1.3	1.9	96.3	0.5	8.4	3.6			.920									
6		1521	312.9-314.0	63347	2.7	2.1	94.1	1.1	7.0	5.0			.910									
7		1522	314.0-314.4	63348	1.9	2.1	95.1	0.9	6.8	5.0			.920									
8		1523	314.4-315.3	63349	1.8	1.8	95.5	0.9	6.2	4.7			.920									
9		1524	315.3-317.1	63350	2.9	1.2	95.6	2.3	7.4	2.9			.912									
10		1525	317.1-318.0	63351	1.7	1.8	95.3	1.0	6.1	4.3			.920									
11		1526	318.0-318.4	63352	2.0	1.8	95.2	1.0	5.1	4.3			.920									
12		1527	318.4-319.7	63353	2.5	2.0	94.5	1.0	4.4	4.8			.918									
13		1528	319.7-320.1	63354	1.8	1.6	94.1	1.5	12.7	3.8			.912									
14		1529	320.1-321.0	63355	1.7	2.0	95.5	0.8	13.3	3.8			.920									
15		1530	321.0-321.6	63356	1.4	2.2	95.8	0.6	3.0	5.3												
16		1531	321.6-322.0	63357	1.7	2.6	95.1	0.6	2.9	6.2												
17		1532	322.0-323.0	63358	2.3	2.3	94.0	0.8	5.9	5.5			.922									
18		1533	323.0-323.9	63359	1.9	2.5	94.8	0.8	5.0	6.0			.920									
19		1534	323.9-324.8	63360	2.0	1.5	94.7	1.8	18.1	3.6			.921									
20		1535	324.8-326.0	63361	1.7	1.6	95.8	0.9	4.5	3.8			.920									
21		1536	326.0-327.0	63362	1.4	0.8	94.4	1.4	3.0	1.9												
22		1537	327.0-327.8	63363	1.9	2.0	95.2	0.9	5.0	4.8												
23		1538	327.8-328.7	63364	5.3	1.9	91.1	1.7	13.8	4.6			.924									
24		1539	328.7-329.3	63365	2.6	1.9	91.7	0.8	6.8	4.6			.927									
25		1540	329.3-330.3	63366	2.0	1.1	95.7	1.2	5.2	2.6			.927									
26		1541	330.3-331.0	63367	1.7	1.4	94.2	0.7	1.6	3.4			.920									
27		1542	331.0-331.6	63368	1.7	1.7	94.0	0.6	5.5	3.1												
28		1543	331.6-333.2	63369	1.6	2.7	93.8	0.7	4.2	2.0												
29		1544	333.2-334.2	63370	3.7	2.4	93.1	0.8	7.6	5.8			.915									
30		1545	334.2-335.0	63371	2.3	2.4	94.6	0.7	6.1	3.8			.918									
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WILSON JONES MADE IN U.S.A.	Sample Numbers		Weight		Percent			GAL/TON		Specific Gravity	Tendency To Coke	Remarks
	Barrel	Ther	Run No.	Oil	Water	Soot/Shale	Gas & Loss	Oil L.	Water			
1	BR 50	1546	3350-3360	63372	23	25	94.6	0.6	6.1	6.2	914	NONE
2		1547	3360-3370	63373	6.7	1.8	96.1	1.4	12.6	4.5	914	
3		1548	3370-3380	63374	1.6	1.1	96.1	1.2	4.4	2.4	920	
4		1549	3380-3390	63375	1.1	3.4	96.2	2.5	3.0	5.8		
5		1550	3390-3400	63376	0.9	3.4	96.5	2.4	1.0	8.1		
6		1551	3400-3410	63377	0.2	2.7	96.8	0.3	0.7	6.5		
7		1552	3410-3420	63378	0.1	2.2	96.1	1.6	0.3	5.3		
8		1553	3420-3430	63379	0.3	2.9	96.5	0.3	0.8	7.0		
9		1554	3430-3440	63380	0.5	2.2	96.9	0.4	1.4	5.3		
10		1555	3440-3450	63381	0.8	2.2	96.5	0.6	1.0	5.3		
11		1556	3450-3460	63382	1.1	2.9	96.0	0.5	3.0	5.8		
12		1557	3460-3470	63383	1.7	2.7	96.7	0.7	4.5	6.5		
13		1558	3470-3480	63384	1.6	2.7	96.9	0.8	4.0	6.5		
14		1559	3480-3490	63385	2.3	2.6	96.5	0.6	6.1	6.2	916	
15		1560	3490-3500	63386	3.0	2.9	96.2	1.0	7.9	6.7	919	
16		1561	3495-3500	63387	5.1	2.5	96.7	0.7	1.3	6.0	912	
17		1562	3500-3510	63388	2.5	2.2	96.5	0.8	6.6	5.5	909	
18		1563	3510-3520	63389	2.6	2.4	96.9	0.6	6.7	5.8	910	
19		1564	3520-352.5	63390	5.9	2.8	96.6	0.7	15.6	4.3	901	
20		1565	352.5-352.8	63391	2.8	2.5	96.8	0.7	10.0	6.0	919	
21		1566	352.8-3530	63392	2.1	1.2	96.8	0.4	5.4	5.1	913	
22		1567	3530-3533	63393	2.0	1.8	96.8	0.4	5.2	4.5	918	
23		1568	353.3-3540	63394	2.7	2.8	96.8	0.7	7.1	6.7	923	
24		1569	3560-3570	63395	2.3	2.3	96.7	0.7	11.3	5.5	910	
25		1570	3570-3580	63396	2.9	2.7	96.7	0.7	7.5	6.5	917	
26		1571	3580-3590	63397	3.2	3.0	96.1	0.7	8.4	7.3	921	
27		1572	3590-3600	63398	1.9	2.8	96.7	1.6	8.2	6.7	920	
28		1573	3600-3610	63399	3.1	3.3	96.1	0.5	8.0	2.9	918	
29		1574	3610-3620	63400	2.7	3.2	96.1	1.0	2.0	1.7	912	
30		1575	3620-3630	63402	3.0	3.0	96.9	1.1	7.8	6.2	918	
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WILSON JONES MADE IN U.S.A.	Sample Numbers		Run NO.	Weight		Percent		COALS/Ton		Specific Gravity	Tendency To Coke	Remarks
	Laminar	Thin		Oil	Water	Sprout	Shale	Gas & Loss	Oil L			
1	SR 80	1576	3620-3640	63403	23	28	937	1.2	61	67	.916	none
2		1577	3640-3645	63404	22	26	947	.85	57	62	.914	"
3		1578	3645-3650	63405	16	23	941	1.1	11.9	55	.913	"
4	*	1581	3655-3670	63406	17	22	953	1.8	4.5a	53	.920	"
5		1582	3670-3680	63407	12	26	948	.94	31a	62		"
6		1583	3680-3690	63408	26	22	947	.85	47a	53		"
7		1584	3690-3700	63409	27	25	962	.96	19a	60		"
8		1585	3700-3710	63410	24	22	944	.88	41a	53		"
9		1586	3710-3717	63411	14	28	954	.94	32a	67		"
10		1587	3717-3728	63412	25	29	940	.86	65	20	.914	"
11		1588	3728-3733	63413	37	25	926	1.2	26	60	.910	"
12		1589	3733-3740	63414	20	21	947	1.0	51a	50	.920	"
13		1590	3740-3750	63415	26	29	937	.88	68	12	.914	"
14		1591	3750-3760	63416	25	33	930	.89	24	29	.915	"
15		1592	3760-3772	63417	25	35	932	.88	67	84	.914	"
16		1593	3772-3780	63418	21	18	906	.85	18.9	13	.905	"
17		1594	3780-3791	63419	22	23	902	.83	12.0	55	.905	"
18		1595	3791-3800	63420	32	21	941	.86	8.5	60	.914	"
19		1596	3800-3808	63421	28	17	938	.87	29	81	.915	"
20		1597	3808-3820	63422	19	14	920	.87	19a	34	.920	"
21		1598	3820-3831	63423	16	14	945	.85	13.2a	31	.920	"
22		1599	3831-3837	63424	22	19	952	.87	5.7	46	.922	"
23		1600	3837-3847	63425	30	17	981	1.2	29	41	.918	"
24		1601	3847-3860	63426	13	15	985	1.8	31a	44	.920	"
25		1602	3860-3870	63427	20	17	953	1.0	52a	41	.920	"
26		1603	3870-3880	63428	23	19	948	1.0	60	46	.916	"
27		1604	3880-3885	63429	23	23	944	1.0	59	55	.917	"
28		1605	3885-3900	63430	12	22	957	.87	32a	53	.920	"
29		1606	3900-3904	63431	21	20	962	.87	56	48	.915	"
30		1607	3904-3915	63432	22	19	935	1.4	84	46	.919	"
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Sample Numbers			Weight	Percent			Gals/Ton					
Laraine	Ther	Row No.	Oil	Water	Spent	Shale	Gas Loss	Oil L	Water	Specific Gravity	Index of Refraction	Remarks
1	1608	3915-3927	63423	1.8	1.8	95.7	0.7	16.0	23	.920	None	
2	1609	3922-3934	63434	1.6	1.5	90.7	1.5	16.1	36	.915		
3	1610	3931-3940	63437	1.2	1.5	95.9	0.9	58	36	.921		
4	1611	3940-3951	63438	2.9	1.3	91.1	1.2	25	31	.931		
5	1612	3951-3960	63439	3.6	1.9	93.3	1.2	34	46	.929		
6	1613	3960-3970	63440	3.8	1.9	93.2	1.1	39	46	.917		
7	1614	3970-3976	63441	4.1	1.7	92.5	1.2	145	46	.915		
8	1615	3976-3982	63442	14.5	1.7	94.4	2.4	391	41	.922		
9	1616	3982-3993	63443	4.5	1.5	92.7	1.3	118	36	.916		
10	1617	3993-4005	63444	4.3	1.3	93.9	1.5	113	31	.915		
11	1618	4005-4014	63445	10.5	1.5	85.5	2.5	227	36	.913		
12	1619	4014-4024	63446	3.9	1.0	92.6	2.5	192	24	.915		
13	1620	4024-4030	63447	1.7	1.2	96.4	0.7	154	29	.920		
14	1621	4030-4040	63448	1.1	1.1	97.0	0.8	30.0	26			
15	1622	4040-4046	63449	1.1	1.4	97.1	0.9	28.0	34			
16	1623	4046-4052	63450	1.4	1.3	96.8	0.5	37.0	31			
17	1624	4052-4060	63451	0.4	1.1	98.2	0.3	11.0	26			
18	1625	4060-4070	63452	1.5	0.7	98.6	0.2	13.0	17			
19	1626	4070-4076	63453	0.6	0.7	98.6	0.1	15.0	17			
20	1627	4076-408.6	63454	0.9	2.0	94.7	0.4	23.0	48			
21	1628	408.6-409.2	63455	2.3	2.3	94.8	0.7	5.9	55	.919		
22	1629	409.2-409.9	63456	2.7	2.1	94.3	0.9	20	50	.915		
23	1630	409.9-411.0	63457	1.1	2.0	96.2	0.7	3.7	48	.920		
24	1631	411.0-411.5	63458	0.4	1.3	96.6	1.7	10.0	31			
25	1632	411.5-412.6	63459	0.7	1.2	97.8	0.3	18.0	29			
26	1633	412.6-413.1	63460	0.8	1.0	97.2	1.2	20.0	24			
27	1634	413.1-413.6	63461	1.4	1.3	96.9	0.9	36.0	31			
28	1635	413.6-414.5	63462	0.3	0.9	97.9	4.4	28.0	22			
29	1636	414.5-415.5	63463	0.9	1.3	96.8	1.0	15.0	31			
30	1637	415.5-416.5	63464	0.7	1.1	97.4	0.8	17.0	26			
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Sample Numbers		Weight		Percent		Gravimetric		Gravimetric		Tendency to Clump		Remarks	
Loss	Thrust	Run No.	Oil	Water	Spent Shale	Gas Loss	Oil L	Water	Specific Gravity	Tendency to Clump	Remarks		
SPR 50	1638	416.5-417.0	63465	0.7	0.8	97.6	1.8	1.9	92.0	NONE			
	1639	417.0-418.0	63466	0.7	1.0	97.6	1.8	2.9					
	1640	418.0-419.0	63467	0.7	0.9	97.6	1.8	2.2					
	1641	419.0-420.0	63468	0.6	1.0	97.7	1.6	2.4					
	1642	420.0-421.0	63469	0.6	1.0	97.7	1.5	2.4					
	1643	421.0-422.1	63470	0.2	0.8	97.7	1.6	1.9					
	1644	422.1-423.5	63471	1.9	1.5	97.2	1.8	3.6					
	1645	423.5-424.5	63472	6.5	2.0	97.7	1.6	1.8	90.5				
	1646	424.5-425.5	63473	2.4	1.9	97.9	1.3	2.6	90.3				
	1647	425.5-426.5	63474	2.6	1.5	98.0	1.8	3.6	90.8				
	1648	426.5-427.4	63475	7.0	2.2	98.7	1.8	5.3	90.4				
	1649	427.4-428.8	63476	1.2	2.2	98.3	1.3	5.3	90.1				
	1650	428.8-429.0	63477	5.5	1.5	97.1	1.9	3.6	90.4				
	1651	429.0-430.0	63478	3.7	1.7	98.0	1.6	3.1	91.1				
	1652	430.0-430.6	63479	3.6	1.5	98.6	1.5	3.1	90.9				
	1653	430.6-431.5	63480	3.3	1.0	99.3	1.4	2.4	90.7				
	1654	431.5-432.3	63481	1.1	2.2	99.2	1.5	5.3	91.3				
	1655	432.3-433.1	63482	5.7	2.0	97.8	1.5	4.8	91.2				
	1656	433.1-434.0	63483	8.2	1.5	98.7	1.6	3.6	91.4				
	1657	434.0-435.0	63484	2.4	1.3	99.9	1.7	3.1	91.2				
	1658	435.0-435.7	63485	9.5	1.7	96.8	2.0	2.4	90.4				
	1659	435.7-436.4	63486	1.9	1.3	96.0	3.6	5.1	89.6				
	1660	436.4-437.3	63487	1.3	1.4	83.2	2.3	3.1	89.8				
	1661	437.3-437.7	63488	6.9	1.2	90.5	1.4	2.9	89.4				
	1662	437.7-438.7	63489	6.6	1.4	90.6	1.4	3.4	89.8				
	1663	438.7-439.7	63490	4.6	1.5	92.5	1.4	3.6	90.6				
	1664	439.7-440.7	63491	4.5	1.1	93.1	1.3	2.6	91.2				
	1665	440.7-441.7	63492	2.6	1.0	95.5	0.9	2.1	91.2				
	1666	441.7-442.9	63493	3.0	1.0	95.2	0.8	2.1	91.0				
	1667	442.9-444.3	63494	5.3	2.0	90.7	3.0	4.1	91.1				

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1	2		3		4		5		6		7		8		9		10		11		12	
	Sample Numbers		Weight		Percent		Gals X Ton		Oil L		Water		Specific Gravity		Tendency to Coke		Remarks					
	Laramie	Ther	Run No.	Oil	Water	Spent Shale	Gas + Loss															
1	SAREO 1668	4443-4447	63495	3.7	0.8	94.5	1.0		9.7		1.7		1.14		None							
2	1669	4449-4452	63496	2.3	0.9	96.2	0.6		5.7		2.2		1.15									
3	1670	4452-4467	63497	2.5	1.2	95.6	0.7		4.6		2.9		1.13									
4	1671	4469-4480	63498	2.7	1.2	95.5	0.6		7.0		2.9		1.14									
5	1672	4480-4490	63499	2.9	1.8	94.6	0.7		7.6		1.3		1.11									
6	1673	4490-4504	63500	2.5	1.0	95.7	0.8		6.5		2.4		1.11									
7	1674	4504-4510	63501	2.6	1.0	95.6	0.8		2.0		2.9		1.10									
8	1675	4510-4524	63502	2.1	1.0	96.4	0.5		5.5		2.1		1.03									
9	1676	4524-4534	63503	3.7	1.1	96.5	0.7		9.7		2.6		1.05									
10	1677	4534-4542	63504	3.8	1.0	96.5	0.9		1.0		2.4		1.05									
11	1678	4542-4552	63505	14.2	1.5	81.5	2.8		52.3		3.6		1.14									
12	1679	4552-4567	63506	10.5	1.0	89.3	1.2		22.9		2.9		1.05									
13	1680	4567-4567	63507	7.0	1.1	89.7	2.0		18.7		2.6		1.05									
14	1681	4567-4573	63508	2.0	1.0	89.8	2.2		18.7		2.9		1.01									
15	1682	4573-4582	63509	6.4	0.8	90.7	1.9		1.0		1.7		1.03									
16	1683	4582-4592	63510	4.6	0.6	93.7	2.1		12.1		1.4		1.07									
17	1684	4592-4596	63511	8.2	0.7	89.8	2.3		21.7		1.7		1.05									
18	1685	4596-4603	63512	5.1	0.8	93.6	1.5		13.5		1.9		1.06									
19	1686	4603-4611	63513	1.75	1.6	77.2	3.7		16.4		3.8		1.07		Slight							
20	1687	4611-4623	63514	1.18	1.1	84.5	2.6		31.0		3.6		1.08		None							
21	1688	4623-4629	63515	1.79	1.9	77.5	3.7		45.8		3.9		1.13		Slight							
22	1689	4629-4638	63516	10.8	1.0	85.8	2.9		28.6		2.4		1.04		None							
23	1690	4638-4648	63517	1.21	1.1	86.1	2.7		32.0		3.6		1.08									
24	1691	4648-4657	63518	1.29	0.8	83.1	3.2		31.2		1.9		1.03									
25	1692	4657-4667	63519	20.0	1.5	76.6	3.9		52.3		3.6		1.14									
26	1693	4667-4676	63520	7.1	1.0	89.9	1.9		18.7		2.4		1.18									
27	1694	4676-4686	63521	5.3	0.8	91.9	2.0		13.9		1.9		1.15									
28	1695	4686-4696	63522	5.8	0.9	90.7	3.1		13.3		1.0		1.14									
29	1696	4696-4705	63523	2.6	0.7	87.5	2.2		25.2		1.7		1.16									
30	1697	4705-4715	63524	5.0	0.5	93.1	1.4		13.1		1.2		1.17									
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WILSON JONES MADE IN U.S.A.	Sample Numbers		Weight		Percent		Gals/Ton		Specific Gravity	Tendency to Coke	Remarks
	Larame	Thick	Run No.	Oil	Water	Soot/Char	Gas + Loss	Oil L	Water		
1	SW 80	1698	471.5-4729	63525	56	0.0	92.1	1.4	1.45	1.4	None
2		1699	4724-4733	63526	72	0.6	92.3	1.9	1.41	1.4	
3		1700	4733-4743	63527	15.9	1.1	92.6	2.8	1.40	2.6	
4		1701	4743-4750	63528	17.9	1.1	92.8	3.8	1.40	2.6	
5		1702	4750-4760	63529	6.0	1.1	91.8	1.4	1.41	2.6	
6		1703	4760-4768	63530	6.5	1.0	90.9	1.6	1.46	2.4	
7		1704	4768-4775	63531	19.8	1.6	90.6	3.0	1.44	3.8	
8		1705	4775-4785	63532	5.3	0.9	92.4	1.4	1.41	2.2	
9		1706	4785-4795	63533	3.7	1.0	92.1	1.2	1.40	2.4	
10		1707	4795-4802	63534	8.9	1.1	92.3	2.2	1.40	2.6	
11		1708	4802-4808	63535	15.1	1.6	92.1	3.2	1.40	3.8	
12		1709	4808-4817	63536	2.9	1.2	92.1	1.8	1.40	2.8	
13		1710	4817-4825	63537	8.0	1.2	92.4	1.4	1.40	2.8	
14		1711	4825-4832	63538	2.2	1.6	92.3	0.9	1.40	3.8	
15		1712	4832-4839	63539	2.6	0.8	92.7	0.9	1.40	1.8	
16		1713	4839-4848	63540	2.0	0.4	92.0	0.6	1.40	1.0	
17		1714	4848-4854	63541	3.2	0.7	92.2	0.9	1.40	1.7	
18		1715	4854-4863	63542	3.8	0.8	92.2	2.2	1.40	1.8	
19		1716	4863-4875	63543	11.0	1.5	92.4	7.1	1.40	3.6	
20		1717	4875-4884	63544	12.3	0.9	92.7	2.1	1.40	2.2	
21		1718	4884-4892	63545	7.5	0.4	92.6	2.5	1.40	1.0	
22		1719	4892-4906	63546	2.7	1.3	92.6	1.9	1.40	3.1	
23		1721	4906-4915	63547	12.8	1.7	92.3	2.3	1.40	2.1	
24		1722	4915-4928	63548	6.7	1.2	92.8	1.3	1.40	2.9	
25		1723	4928-4938	63549	8.3	1.8	91.6	1.3	1.40	2.3	
26		1724	4938-4948	63550	3.7	1.3	92.9	1.1	1.40	3.1	
27		1725	4948-4952	63551	2.2	0.9	92.3	0.6	1.40	2.2	
28		1726	4952-4956	63552	2.5	1.0	92.8	0.7	1.40	2.1	
29		1727	4956-4960	63553	3.7	1.2	91.7	0.9	1.40	2.9	
30		1728	4960-4966	63554	2.0	1.2	92.4	2.1	1.40	2.9	
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WILSON JONES MADE IN U.S.A.	Sample Numbers		Weight		Percent		Gals/ton		Specific Gravity	Tendency to Core	Remarks
	Laramie	Thier	Run No.	O.I.	Water	Spent Shale Gas Loss	Oil L	Water			
1	1729	4966-4969	63585	65	1.2	910	1.3	120	29	.920	None
2	1730	4969-4978	63586	32	1.4	905	0.9	84	34	.919	
3	1731	4978-4988	63587	46	0.8	912	0.4	41a	1.9	.920	
4	1732	4988-4999	63588	10	0.4	906	1.0	27a	1.0		
5	1733	4998-5007	63589	11	0.5	908	0.6	28a	1.2		
6	1734	5007-5017	63590	10	0.5	909	0.6	26a	1.2		
7	1735	5017-5026	63591	10	0.5	911	0.8	25a	1.2		
8	1736	5026-5037	63592	14	0.7	913	0.6	37a	1.7		
9	1737	5037-5041	63593	26	0.7	910	0.7	69	1.7	.895	
10	1738	5041-5046	63594	45	1.0	916	0.7	122	24	.891	
11	1739	5046-5052	63595	70	1.4	918	1.8	24.0	3.9	.902	
12	1740	5052-5059	63596	40	3.2	917	1.1	108	2.7	.893	
13	1741	5059-5070	63597	14	1.4	917	0.5	36a	3.9	.920	
14	1742	5070-5080	63598	30	1.1	912	0.7	29	2.6	.902	
15	1743	5080-5090	63599	14.0	1.1	915	2.4	36.6	3.6	.918	
16	1744	5090-5093	63600	69	0.9	920	3.2	17.8	2.2	.921	
17	1745	5093-5103	63601	25	1.1	913	1.1	65	2.6	.915	
18	1746	5103-5109	63602	12	1.1	915	0.8	13.3a	2.6	.920	
19	1747	5109-5116	63603	1.8	1.2	912	0.8	12.7a	2.7		
20	1748	5116-5126	63604	1.2	1.4	917	0.7	31a	3.4		
21	1749	5126-5136	63605	1.6	1.2	916	0.6	41a	3.9		
22	1750	5136-5146	63606	1.2	1.2	912	0.9	15.5a	2.9		
23	1751	5146-5153	63607	1.8	1.1	915	0.6	17a	2.6		
24	1752	5153-5165	63608	1.4	1.2	916	0.8	38a	2.7		
25	1753	5165-5173	63609	48	1.5	924	1.3	12.7	3.6	.910	
26	1754	5173-5177	63610	18.6	1.3	917	2.4	35.6	3.1	.916	
27	1755	5177-5184	63611	1.7	1.1	918	2.4	13.2a	2.6	.920	
28	1756	5184-5192	63612	0.4	0.3	916	0.7	10a	0.7	.920	
29	1757	5192-5196	63613	3.2	1.5	919	0.9	7.6	3.0	.921	
30	1758	5196-5201	63614	1.8	1.2	916	0.4	12a	2.7	.920	
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	Sample Numbers	Weight	Percent	Calcs/Ton	Specific Gravity	Tendency to Coke	Remarks										
	Run No.	Oil	Water	Spent Sludge	Gas Loss	Oil L	Water										
1	1759	520.1-520.7	63585	8.5	1.9	91.3	1.3	14.3	8.6	.916	NONE						
2	1760	520.7-521.9	63586	1.5	1.7	94.9	0.4	8.0a	8.1	.920							
3	1761	521.9-522.8	63587	3.1	2.1	91.8	1.0	15.5	5.0	.914							
4	1762	522.8-523.7	63588	0.3	0.7	98.7	0.3	9.7a	1.2	.920							
5	1763	523.7-523.8	63589	0.7	2.0	97.9	0.4	1.7a	2.4	.920							
6	1764	523.8-525.0	63590	0.0	0.1	98.9	1.1	Trace	0.3								
7	1765	525.0-526.2	63591	0.7	0.9	98.0	0.4	1.8a	2.2	.920							
8	1766	526.2-527.0	63592	0.3	0.6	98.6	0.5	0.9a	1.4								
9	1767	527.0-528.0	63593	0.4	0.7	97.2	0.7	1.2a	1.7								
10	1768	528.0-529.0	63594	0.3	0.6	98.5	0.6	0.7a	1.4								
11	1769	529.0-529.9	63595	0.6	0.5	98.4	0.5	1.5a	1.2								
12	1770	529.9-530.5	63596	1.7	0.3	97.1	0.6	1.5a	0.7								
13	1771	530.5-531.5	63597	0.2	0.3	99.0	0.5	0.6a	0.7								
14	1772	531.5-532.6	63598	20.4	0.4	98.9	0.7	0.1a	1.0								
15	1773	532.6-533.7	63599	2.9	0.3	96.2	0.6	7.5	0.7	.921							
16	1774	533.7-534.7	63600	1.5	0.3	97.6	0.6	1.0a	0.7	.920							
17	1775	534.7-535.5	63601	3.1	0.7	94.7	1.0	1.0	1.7	.920							
18	1776	535.5-535.9	63602	4.9	0.6	91.8	2.7	12.8	1.4	.912							
19	1777	535.9-537.3	63603	3.4	1.1	95.6	0.9	6.4	2.6	.902							
20	1778	537.3-538.3	63606	2.6	0.9	98.7	2.8	29.4	3.2	.893							
21	1779	538.3-539.5	63607	4.3	1.3	92.8	1.6	11.6	3.1	.892							
22	1780	539.5-540.8	63608	2.1	0.9	95.8	1.2	5.6	3.2	.901							
23	1781	540.8-541.6	63609	1.9	1.0	94.7	1.4	6.0a	2.9	.920							
24	1782	541.6-542.5	63610	3.7	1.5	93.9	1.4	7.6	3.6	.909							
25	1783	542.5-543.4	63611	0.7	1.3	97.3	0.5	1.2a	3.1	.920							
26	1784	543.4-544.1	63612	1.8	0.9	96.2	1.1	1.6a	2.2								
27	1785	544.1-545.1	63613	1.4	0.6	96.2	1.5	3.7a	1.4								
28	1786	545.1-546.2	63614	2.8	1.4	94.1	1.7	7.4	3.4	.915							
29	1787	546.2-547.0	63615	1.7	1.5	93.7	1.1	1.5a	3.6	.920							
30	1788	547.0-548.7	63616	1.4	1.6	95.4	1.1	1.9a	3.8	.920							

WILSON JONES MADE IN USA	Sample Numbers		Weight		Percent		GALYTON		Specific Gravity	Tendency to Collect	Remarks
	Laramie	Ther	Run NO.	Oil	Water	Spent Shale Loss	Oil L	Water			
1	1789	5477-5485	63647	16	1.1	96.6	0.7	4.1a	2.6	1.920	None
2	1790	5485-5493	63648	12	0.9	97.2	1.2	3.0a	1.0	1.920	
3	1791	5493-5499	63649	20	1.4	95.5	0.9	5.3	3.8	1.895	
4	1792	5499-5504	63650	24	1.0	98.1	0.5	1.1a	2.4	1.920	
5	1793	5504-5512	63651	26	0.9	95.5	1.0	7.0	2.2	1.909	
6	1794	5512-5518	63652	27	0.9	96.4	0.5	1.7a	1.0	1.920	
7	1795	5518-5525	63653	43	0.7	93.8	1.2	11.5	1.7	1.900	
8	1796	5525-5533	63654	46	1.4	92.9	1.2	12.2	3.4	1.897	
9	1797	5533-5541	63655	63	2.4	89.8	1.5	1.65	5.8	1.913	
10	1798	5541-5550	63656	01	1.0	98.5	0.3	0.2a	2.6	1.920	
11	1799	5550-5560	63657	03	0.3	99.2	0.2	0.8a	0.7	1.920	
12	1800	5560-5565	63658	05	1.1	97.9	0.5	1.4a	2.6	1.920	
13	1801	5565-5570	63659	16	0.9	98.4	2.1	1.8a	2.2	1.931	
14	1802	5570-5577	63660	13	0.6	97.1	1.0	3.3a	1.4	1.920	
15	1803	5577-5581	63661	26	2.0	87.1	2.3	22.5	6.8	1.911	
16	1804	5581-5588	63662	05	2.0	96.5	1.0	1.4a	1.8	1.920	
17	1805	5588-5593	63663	11.8	1.0	89.5	2.7	3.95	2.4	1.929	
18	1806	5593-5602	63664	24	0.3	95.8	1.0	7.5	0.7	1.921	560.2-562.9 Tar Sand
19	1807	5602-5639	63665	03	0.3	99.1	0.3	0.9a	0.7	1.920	
20	1808	5639-5652	63666	00	0.8	98.0	0.4	1.4a	1.9	1.920	565.2-566.7 Tar Sand
21	1809	5652-567.1	63667	00	0.7	98.8	0.5	1.4a	1.6	1.920	567.1-568.1 Tar Sand
22	1810	567.1-568.1	63668	04	0.1	98.6	0.9	1.0a	0.2	1.920	
23	1811	568.1-570.1	63669	02	0.4	98.8	0.6	0.5a	1.0	1.920	570.1-580.2 Tar Sand
24	1812	580.2-580.5	63670	01	0.8	98.3	0.8	0.9a	1.9	1.920	580.5-580.6 Tar Sand
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