Total organic carbon and rock-eval pyrolysis data of select cuttings from the Chevron USA Akulik No. 1 well

Received 18 May 1989

Total of 5 pages in report

Geologic Materials Center Data Report No. 123

Total Organic Carbon

Chevron Akulik #1

EPR NO.	DEPTH (FT.)	T.O.C. (PCT)	EPR NO.	DEPTH (FT.)	T.O.C. (PCT)	EPR NO.	DEPTH (FT.)	T.O.C. (PCT)	EPR NO.	DEPTH (FT.)	T.O.C. (PCT)
111320-A	440	.74	111342-I	5600	1.33	111364-N	9820	1.15	111386-R	14300	1.58
111320-B	720	1.78	111342-J	5700	1.10	111364-O	9920	1.31	111386-S	14400	1.36
111320-C	900	1.28	111342-K	5800	1.28	111364-P	10020	1.27	111386-T	14500	1.39
111320-D	1000	1.37	111342-L	5900	1.19	111364-Q	10100	1.38	111397-A	14600	1.39
111320-E	1100	.85	111342-M	6000	1.24	111364-R	10200	1.50	111397-B	14700	1.45
111320-F	1200	1.37	111342-N	6100	1.46	111364-S	10300	1.37	111397-C	14800	2.63
111320-G	1300	1.09	111342-O	6210	1.31	111364-T	10400	2.86	111397-D	14900	1.33
111320-H	1400	1.01	111342-P	6300	1.56	111375-A	10500	1.33	111397-E	15000	2.25
111320-I	1500	1.42	111342-Q	6400	1.36	111375-B	10600	1.50	111397-F	15100	2.65
111320-J	1600	1.05	111342-R	6500	1.30	111419-E	10700	4.90	111397-G	15200	2.52
111320-K	1700	1.22	111342-S	6600	1.10	111419-F	10775	.38	111397-H	15300	1.25
111320-L	1800	1.26	111353-A	6700	1.23	111419-G	10776	1.57	111397-I	15410	2.03
111320-M	1900	1.46	111353-B	6800	1.30	111419-H	10780	.92	111397-J	15500	2.62
111320-N	2000	1.38	111353-C	6900	1.19	111375-C	10800	1.22	111397-K	15600	2.66
111320-O	2200	1.41	111353-D	7000	1.26	111375-D	10900	1.92	111397-L	15700	2.41
111320-P	2300	1.31	111353-E	7100	1.07	111375-E	11000	1.47	111397-M	15800	2.78
111320-Q	2400	1.57	111353-F	7200	1.04	111375-F	11100	1.55	111397-N	15900	2.73
111320-R	2500	1.04	111353-G	7300	1.36	111375-G	11200	1.55	111397-O	16020	2.61
111320-S	2600	1.27	111353-H	7400	1.13	111375-H	11280	1.58	111397-P	16110	2.91
111320-T	2700	1.62	111353-I	7500	1.20	111375-I	11400	1.54	111397-Q	16200	2.70
111331-A	2800	1.41	111353-J	7600	1.54	111375-J	11500	4.60	111397-R	16300	2.51
111331-B	2900	1.39	111353-K	7710	1.41	111375-K	11600	2.04	111397-S	16430	3.29
111331-C	3000	1.13	111353-L	7800	1.47	111375-L	11700	1.39	111397-T	16510	3.15
111331-D	3100	.93	111353-M	7823	1.35	111375-M	11800	.81	111408-A	16610	2.86
111331-E	3200	1.31	111353-N	7829	1.12	111375-N	11900	1.27	111408-B	16700	2.67
111331-F	3300	1.35	111353-O	7900	.71	111375-O	12010	1.09	111408-C	16800	2.95
111331-G	3420	1.44	111353-P	8020	1.52	111375-P	12100	1.27	111408-D	16910	2.80
111331-H	3500	1.32	111353-Q	8110	1.31	111375-Q	12200	1.12	111408-E	17020	2.83
111331-I	3600	1.39	111353-R	8200	1.33	111375-R	12290	2.61			
111331-J	3700	1.33	111353-S	8300	1.42	111375-S	12400	1.01			
111331-K	3800	1.24	111353-T	8400	1.32	111375-T	12500	1.57			
111331-L	3900	1.21	111364-A	8500	1.35	111386-A	12600	1.28			
111331-M	4000	1.26	111364-B	8600	1.39	111386-B	12700	1.48			
111331-N	4100	1.22	111364-C	8710	.99	111386-C	12800	1.27			
111331-O	4200	.97	111364-D	8810	1.25	111386-D	12900	1.43			
111331-P	4310	1.25	111364-E	8910	1.26	111386-E	13000	1.44			
111331-Q	4410	1.26	111419-A	8917	1.51	111386-F	13100	1.38			
111331-R	4510	1.22	111419-B	8923	1.49	111386-G	13200	1.69			
111331-S	4600	1.24	111419-C	8924	1.29	111386-H	13300	2.03			
111331-T	4710	1.27	111419-D	8936	1.36	111386-I	13400	1.45			
111342-A	4800	1.34	111364-F	9040	1.55	111386-J	13530	1.43			
111342-B	4900	.80	111364-G	9140	1.53	111386-K	13620	1.79			
111342-C	5000	1.08	111364-H	9200	1.28	111386-L	13710	1.52			
111342-D	5100	.41	111364-I	9290	1.32	111386-M	13800	1.65			
111342-E	5200	1.21	111364-J	9420	1.18	111386-N	13890	1.45			
111342-F	5300	1.14	111364-K	9510	1.62	111386-O	14000	1.85			
111342-G	5400	1.29	111364-L	9630	1.28	111386-P	14100	1.56			
111342-H	5500	.94	111364-M	9720	1.71	111386-Q	14200	1.58			

OJECT NUM. 28307

TABLE 10 - ROCK EVAL PYROLYSIS
Chevron Akulik #1

PR NO.	DEPTH (FT.)	GRP SORC	ANAL DATE YYMMDD	ANAL METH	S1 (MG/GRM)	S2 (MG/GRM)	S3 (MG/GRM)	HYDROGEN INDEX	OXYGEN INDEX	TRANSF. RATIO	TEMP. (CENT.)	TOC (PCT) R-E	COMMENTS
1320-A	440	GEOC	890501	REV3	.27	.58	1.05	78	141	.32	435	.74	
1320-B	720	GEOC	890501	REV3	.34	1.33	1.96	74	110	.20	438	1.78	
1320-C	900	GEOC	890501	REV3	.27	.69	1.04	53	81	.28	443	1.28	
1320-D	1000	GEOC	890501	REV3	.25	1.00	1.21	72	88	.20	439	1.37	
1320-E	1100	GEOC	890501	REV3	.17	.36	1.06	42	124	.33	453	.85	
1320-F	1200	GEOC	890501	REV3	.31	.91	1.18	66	86	.25	440	1.37	
1320-G	1300	GEOC	890501	REV3	.21	.57	1.00	52	91	.27	448	1.09	
1320-H	1400	GEOC	890501	REV3	.27	.74	.86	73	85	.27	440	1.01	
1320-I	1500	GEOC	890501	REV3	.33	1.09	1.68	76	118	.23	438	1.42	
1320-J	1600	GEOC	890501	REV3	.37	.95	1.24	90	118	.28	438	1.05	
1320-K	1700	GEOC	890501	REV3	.34	.94	1.33	77	109	.27	440	1.22	
1320-L	1800	GEOC	890501	REV3	.28	.84	1.16	66	92	.25	442	1.26	
1320-M	1900	GEOC	890501	REV3	.27	.78	1.25	53	85	.26	446	1.46	
1320-N	2000	GEOC	890501	REV3	.28	.70	1.69	50	122	.29	449	1.38	
1320-O	2200	GEOC	890501	REV3	.34	.88	1.45	62	102	.28	447	1.41	
1320-P	2300	GEOC	890501	REV3	.47	1.02	1.66	77	126	.32	448	1.31	
1320-Q	2400	GEOC	890501	REV3	.49	1.15	1.60	73	101	.30	452	1.57	
1320-R	2500	GEOC	890501	REV3	.23	.52	1.31	50	125	.31	456	1.04	
1320-S	2600	GEOC	890501	REV3	.39	.87	1.41	68	111	.31	447	1.27	
1320-T	2700	GEOC	890501	REV3	.41	1.25	1.30	77	80	.25	444	1.62	
1331-A	2800	GEOC	890501	REV3	.39	1.05	2.10	74	148	.27	451	1.41	
1331-B	2900	GEOC	890501	REV3	.50	1.09	1.44	78	103	.32	450	1.39	
1331-C	3000	GEOC	890501	REV3	.42	.80	1.29	70	114	.34	452	1.13	
1331-D	3100	GEOC	890501	REV3	.42	.64	1.09	68	117	.40	452	.93	
1331-E	3200	GEOC	890501	REV3	1.02	1.10	1.43	83	109	.48	451	1.31	
1331-F	3300	GEOC	890501	REV3	.96	.71	.83	52	61	.58	395	1.35	
1331-G	3420	GEOC	890501	REV3	1.17	1.20	1.54	83	106	.50	447	1.44	
1331-H	3500	GEOC	890501	REV3	.93	.68	1.68	51	127	.58	461	1.32	
1331-I	3600	GEOC	890501	REV3	.88	.92	2.08	66	149	.49	453	1.39	
1331-J	3700	GEOC	890501	REV3	.93	.87	1.54	65	115	.52	459	1.33	
1331-K	3800	GEOC	890501	REV3	.99	.72	1.70	58	137	.58	451	1.24	
1331-L	3900	GEOC	890501	REV3	.81	.91	1.18	75	97	.47	446	1.21	
1331-M	4000	GEOC	890501	REV3	.61	.59	2.06	46	163	.51	450	1.26	
1331-N	4100	GEOC	890501	REV3	1.10	.84	1.35	68	110	.57	454	1.22	
1331-O	4200	GEOC	890501	REV3	1.02	.76	1.12	78	115	.57	452	.97	
1331-P	4310	GEOC	890501	REV3	.79	.58	1.31	46	105	.58	461	1.25	
1331-Q	4410	GEOC	890501	REV3	.55	.47	1.42	37	112	.54	437	1.26	
1331-R	4510	GEOC	890501	REV3	.49	.38	1.55	31	127	.57	491	1.22	
1331-S	4600	GEOC	890501	REV3	.54	.60	1.88	48	151	.47	463	1.24	
1331-T	4710	GEOC	890501	REV3	.40	.66	1.26	51	99	.38	474	1.27	
1342-A	4800	GEOC	890501	REV3	.50	.79	1.29	58	96	.39	474	1.34	
1342-B	4900	GEOC	890501	REV3	.47	.51	.89	63	111	.48	409	.80	
1342-C	5000	GEOC	890501	REV3	.28	.43	1.01	39	93	.40	481	1.08	
1342-E	5200	GEOC	890501	REV3	.44	.56	1.19	46	98	.44	482	1.21	
1342-F	5300	GEOC	890501	REV3	.46	.71	1.01	62	88	.40	470	1.14	
1342-G	5400	GEOC	890501	REV3	.60	.78	.96	60	74	.43	470	1.29	
1342-H	5500	GEOC	890501	REV3	.40	.38	.92	40	97	.51	488	.94	
1342-I	5600	GEOC	890501	REV3	.26	.33	1.19	24	89	.45	499	1.33	

TABLE 10 - ROCK EVAL PYROLYSIS

'ROJECT NUM. 28307

EPR NO.	DEPTH (FT.)	GRP SORC	ANAL DATE YYMMDD	ANAL METH	S1 (MG/GRM)	S2 (MG/GRM)	S3 (MG/GRM)	HYDROGEN INDEX	OXYGEN INDEX	TRANSF. RATIO	TEMP. (CENT.)	TOC (PCT) R-E	COMMENTS
111342-J	5700	GEOC	890501	REV3	.23	.36	1.13	32	102	.40	500	1.10	
111342-K	5800	GEOC	890501	REV3	.45	.51	1.28	39	100	.47	489	1.28	
111342-L	5900	GEOC	890501	REV3	.39	.47	1.29	39	108	.45	496	1.19	
111342-M	6000	GEOC	890501	REV3	.66	.62	1.33	50	107	.52	442	1.24	
111342-N	6100	GEOC	890501	REV3	1.10	.96	1.24	65	84	.53	450	1.46	
111342-O	6210	GEOC	890501	REV3	.98	.61	1.15	46	87	.62	407	1.31	
111342-P	6300	GEOC	890501	REV3	1.50	1.33	1.34	85	85	.53	361	1.56	
111342-Q	6400	GEOC	890501	REV3	1.13	.56	1.16	41	85	.67	298	1.36	
111342-R	6500	GEOC	890501	REV3	1.06	.72	1.17	55	90	.60	300	1.30	
111342-S	6600	GEOC	890501	REV3	1.03	.61	.91	55	82	.63	398	1.10	
111353-A	6700	GEOC	890501	REV3	.75	.53	1.43	43	116	.59	434	1.23	
111353-B	6800	GEOC	890501	REV3	.53	.58	1.17	44	90	.48	344	1.30	
111353-C	6900	GEOC	890501	REV3	.47	.35	1.13	29	94	.57	366	1.19	
111353-D	7000	GEOC	890501	REV3	.68	.52	.88	41	69	.57	401	1.26	
111353-E	7100	GEOC	890501	REV3	.72	.45	.89	42	83	.62	404	1.07	
111353-F	7200	GEOC	890501	REV3	.69	.55	1.06	52	101	.56	301	1.04	
111353-G	7300	GEOC	890501	REV3	.92	.76	1.02	55	75	.55	302	1.36	
111353-H	7400	GEOC	890501	REV3	1.08	.40	1.31	35	115	.73	379	1.13	
111353-I	7500	GEOC	890501	REV3	1.10	.55	1.41	45	117	.67	381	1.20	
111353-J	7600	GEOC	890501	REV3	1.17	.82	1.69	53	109	.59	306	1.54	
111353-K	7710	GEOC	890501	REV3	1.08	.78	1.26	55	89	.58	372	1.41	
111353-L	7800	GEOC	890501	REV3	1.13	1.02	1.38	69	93	.53	355	1.47	
111353-M	7823	GEOC	890501	REV3	.91	.57	1.67	42	123	.61	296	1.35	
111353-N	7829	GEOC	890501	REV3	.88	.53	1.61	47	143	.63	296	1.12	
111353-P	8020	GEOC	890501	REV3	.82	.78	1.28	51	84	.51	363	1.52	
111353-Q	8110	GEOC	890501	REV3	.69	.61	1.17	46	89	.53	303	1.31	
111353-R	8200	GEOC	890501	REV3	.86	.67	1.05	50	78	.57	361	1.33	
111353-S	8300	GEOC	890501	REV3	.66	.55	1.12	38	78	.55	391	1.42	
111353-T	8400	GEOC	890501	REV3	.85	.66	1.09	50	82	.57	300	1.32	
111364-A	8500	GEOC	890501	REV3	.83	.80	1.12	59	82	.51	301	1.35	
111364-B	8600	GEOC	890501	REV3	.74	.71	1.51	51	108	.51	324	1.39	
111364-C	8710	GEOC	890501	REV3	.85	.42	1.16	42	117	.67	327	.99	
111364-D	8810	GEOC	890501	REV3	.87	.54	1.08	43	86	.62	319	1.25	
111364-E	8910	GEOC	890501	REV3	.75	.98	.96	77	76	.44	329	1.26	
111419-A	8917	GEOC	890501	REV3	.61	.52	.97	34	64	.54	303	1.51	
111419-B	8923	GEOC	890501	REV3	.81	.72	1.54	48	103	.53	303	1.49	
111419-C	8924	GEOC	890501	REV3	.85	.57	1.05	44	81	.60	302	1.29	
111419-D	8936	GEOC	890501	REV3	.50	.44	1.35	32	99	.53	303	1.36	
111364-F	9040	GEOC	890501	REV3	.54	1.22	1.21	78	78	.31	428	1.55	
111364-G	9140	GEOC	890501	REV3	.51	.85	1.61	55	105	.37	424	1.53	
111364-H	9200	GEOC	890501	REV3	.84	.57	2.39	44	186	.60	423	1.28	
111364-I	9290	GEOC	890501	REV3	.39	.53	.91	40	68	.42	366	1.32	
111364-J	9420	GEOC	890501	REV3	.34	.31	.91	26	77	.53	373	1.18	
111364-K	9510	GEOC	890501	REV3	.43	1.23	1.47	75	90	.26	426	1.62	
111364-L	9630	GEOC	890501	REV3	.50	.51	.85	39	66	.50	362	1.28	
111364-M	9720	GEOC	890501	REV3	.48	1.13	1.66	66	97	.30	314	1.71	
111364-N	9820	GEOC	890501	REV3	.28	.24	.89	20	77	.54	303	1.15	
111364-O	9920	GEOC	890501	REV3	.45	.43	.86	32	65	.51	365	1.31	

TABLE 10 - ROCK EVAL PYROLYSIS

PROJECT NUM. 28307

EPR NO.	DEPTH (FT.)	GRP SORC	ANAL DATE YYMMDD	ANAL METH	S1 (MG/GRM)	S2 (MG/GRM)	S3 (MG/GRM)	HYDROGEN INDEX	OXYGEN INDEX	TRANSF. RATIO	TEMP. (CENT.)	TOC (PCT) R-E	COMMENTS
111364-P	10020	GEOC	890501	REV3	.35	.39	.78	30	61	.47	382	1.27	
111364-Q	10100	GEOC	890501	REV3	.58	.62	.92	44	66	.48	366	1.38	
111364-R	10200	GEOC	890501	REV3	.59	1.18	.93	78	62	.34	422	1.50	
111364-S	10300	GEOC	890501	REV3	.39	.46	.98	33	71	.46	384	1.37	
111375-A	10500	GEOC	890501	REV3	.68	.79	.88	59	66	.47	426	1.33	
111375-B	10600	GEOC	890501	REV3	.50	.93	.98	62	65	.35	423	1.50	
111419-E	10700	GEOC	890501	REV3	2.38	14.34	5.92	292	120	.14	317	4.90	
111419-G	10776	GEOC	890501	REV3	1.10	1.04	1.01	66	64	.51	307	1.57	
111419-H	10780	GEOC	890501	REV3	.51	.32	.68	34	73	.62	303	.92	
111375-C	10800	GEOC	890501	REV3	.62	.72	.88	59	72	.46	371	1.22	
111375-D	10900	GEOC	890501	REV3	.85	2.33	1.93	121	100	.27	317	1.92	
111375-E	11000	GEOC	890501	REV3	.58	.53	1.41	36	95	.53	367	1.47	
111375-F	11100	GEOC	890501	REV3	.59	.72	1.03	46	66	.45	313	1.55	
111375-G	11200	GEOC	890501	REV3	.78	1.07	1.03	69	66	.42	359	1.55	
111375-H	11280	GEOC	890501	REV3	.60	1.08	1.19	68	75	.36	370	1.58	
111375-I	11400	GEOC	890501	REV3	.78	1.17	.96	75	62	.40	421	1.54	
111375-J	11500	GEOC	890501	REV3	2.82	14.38	5.99	312	130	.16	320	4.60	
111375-K	11600	GEOC	890501	REV3	1.16	3.12	2.68	152	131	.27	317	2.04	
111375-L	11700	GEOC	890501	REV3	.93	1.07	1.21	76	87	.46	354	1.39	
111375-M	11800	GEOC	890501	REV3	.89	.73	.86	90	106	.55	303	.81	
111375-N	11900	GEOC	890501	REV3	.88	.77	.86	60	67	.54	307	1.27	
111375-O	12010	GEOC	890501	REV3	.52	.49	3.11	44	285	.52	377	1.09	
111375-P	12100	GEOC	890501	REV3	.44	.61	1.69	48	133	.42	365	1.27	
111375-Q	12200	GEOC	890501	REV3	.51	.34	.95	30	84	.61	301	1.12	
111375-R	12290	GEOC	890501	REV3	.80	4.24	3.93	162	150	.16	310	2.61	
111375-S	12400	GEOC	890501	REV3	.44	.43	.61	42	60	.51	309	1.01	
111375-T	12500	GEOC	890501	REV3	.64	.87	1.24	55	78	.43	312	1.57	
111386-A	12600	GEOC	890501	REV3	.60	.50	.85	39	66	.55	305	1.28	
111386-B	12700	GEOC	890501	REV3	.61	.47	.90	31	60	.56	303	1.48	
111386-C	12800	GEOC	890501	REV3	.68	.44	.82	34	64	.61	301	1.27	
111386-D	12900	GEOC	890501	REV3	.66	.42	1.11	29	77	.61	300	1.43	
111386-E	13000	GEOC	890501	REV3	.87	.48	1.06	33	73	.65	300	1.44	
111386-F	13100	GEOC	890501	REV3	.68	.47	.84	34	60	.60	303	1.38	
111386-G	13200	GEOC	890501	REV3	.94	.93	1.05	55	62	.51	306	1.69	
111386-H	13300	GEOC	890501	REV3	1.29	2.28	1.91	112	94	.36	308	2.03	
111386-I	13400	GEOC	890501	REV3	.86	.54	.80	37	55	.61	302	1.45	
111386-J	13530	GEOC	890501	REV3	.93	.60	.75	41	52	.61	304	1.43	
111386-K	13620	GEOC	890501	REV3	1.04	1.34	1.15	74	64	.44	317	1.79	
111386-L	13710	GEOC	890501	REV3	1.14	1.08	.82	71	53	.51	303	1.52	
111386-M	13800	GEOC	890501	REV3	1.20	1.27	1.01	76	61	.49	309	1.65	
111386-N	13890	GEOC	890501	REV3	.74	.58	.84	40	57	.56	305	1.45	
111386-O	14000	GEOC	890501	REV3	.64	.92	1.11	49	60	.41	313	1.85	
111386-P	14100	GEOC	890501	REV3	.74	.77	.86	49	55	.49	305	1.56	
111386-Q	14200	GEOC	890501	REV3	.81	.94	.75	59	47	.47	313	1.58	
111386-R	14300	GEOC	890501	REV3	.75	.73	.78	46	49	.51	308	1.58	
111386-S	14400	GEOC	890501	REV3	.81	.57	.62	41	45	.59	307	1.36	
111386-T	14500	GEOC	890501	REV3	.53	.41	.57	29	41	.56	306	1.39	
111397-A	14600	GEOC	890501	REV3	1.23	.94	.61	67	43	.57	312	1.39	

TABLE 10 - ROCK EVAL PYROLYSIS

PROJECT NUM. 28307

EPR NO.	DEPTH (FT.)	GRP SORC	ANAL DATE YYMMDD	ANAL METH	S1 (MG/GRM)	S2 (MG/GRM)	S3 (MG/GRM)	HYDROGEN INDEX	OXYGEN INDEX	TRANSF. RATIO	TEMP. (CENT.)	TOC (PCT) R-E	COMMENTS
111397-B	14700	GEOC	890501	REV3	1.50	.97	.60	66	41	.61	310	1.45	
111397-C	14800	GEOC	890501	REV3	8.61	10.29	1.89	391	71	.46	428	2.63	
111397-D	14900	GEOC	890501	REV3	4.44	6.97	1.11	524	83	.39	433	1.33	
111397-E	15000	GEOC	890501	REV3	7.59	9.28	1.90	412	84	.45	432	2.25	
111397-F	15100	GEOC	890501	REV3	12.99	14.59	1.90	550	71	.46	432	2.65	
111397-G	15200	GEOC	890501	REV3	11.24	8.77	1.88	348	74	.56	426	2.52	
111397-H	15300	GEOC	890501	REV3	1.78	.43	1.37	34	109	.81	293	1.25	
111397-I	15410	GEOC	890501	REV3	4.94	4.87	1.04	239	51	.50	419	2.03	
111397-J	15500	GEOC	890501	REV3	8.03	12.75	1.92	486	73	.39	433	2.62	
111397-K	15600	GEOC	890501	REV3	8.77	11.76	1.95	442	73	.43	431	2.66	
111397-L	15700	GEOC	890501	REV3	7.83	9.34	1.76	387	73	.46	433	2.41	
111397-M	15800	GEOC	890501	REV3	7.15	15.29	1.76	550	63	.32	427	2.78	
111397-N	15900	GEOC	890501	REV3	8.12	13.02	1.60	476	58	.38	428	2.73	
111397-O	16020	GEOC	890501	REV3	7.39	9.62	1.69	368	64	.43	427	2.61	
111397-P	16110	GEOC	890501	REV3	5.31	15.25	2.19	524	75	.26	429	2.91	
111397-Q	16200	GEOC	890501	REV3	5.63	11.59	1.79	429	66	.33	428	2.70	
111397-R	16300	GEOC	890501	REV3	6.05	9.79	1.78	390	70	.38	428	2.51	
111397-S	16430	GEOC	890501	REV3	14.71	17.23	1.63	523	49	.46	430	3.29	
111397-T	16510	GEOC	890501	REV3	9.06	17.00	1.46	539	46	.35	432	3.15	
111408-A	16610	GEOC	890501	REV3	8.21	12.14	1.62	424	56	.40	428	2.86	
111408-B	16700	GEOC	890501	REV3	5.85	10.45	2.23	391	83	.36	428	2.67	
111408-C	16800	GEOC	890501	REV3	9.88	13.56	1.66	459	56	.42	428	2.95	
111408-D	16910	GEOC	890501	REV3	6.40	11.07	2.34	395	83	.37	430	2.80	
111408-E	17020	GEOC	890501	REV3	7.83	11.78	1.75	416	61	.40	429	2.83	