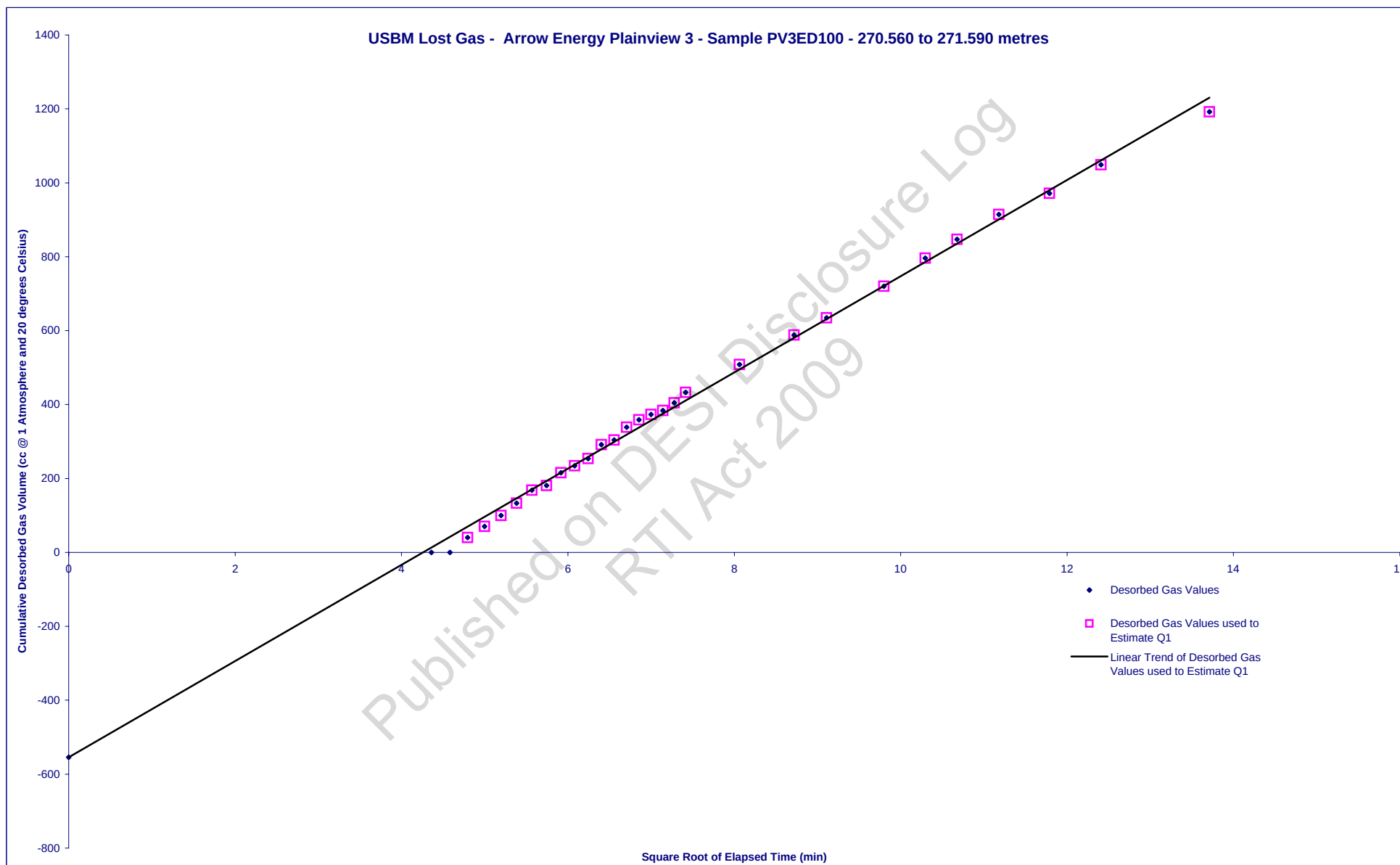
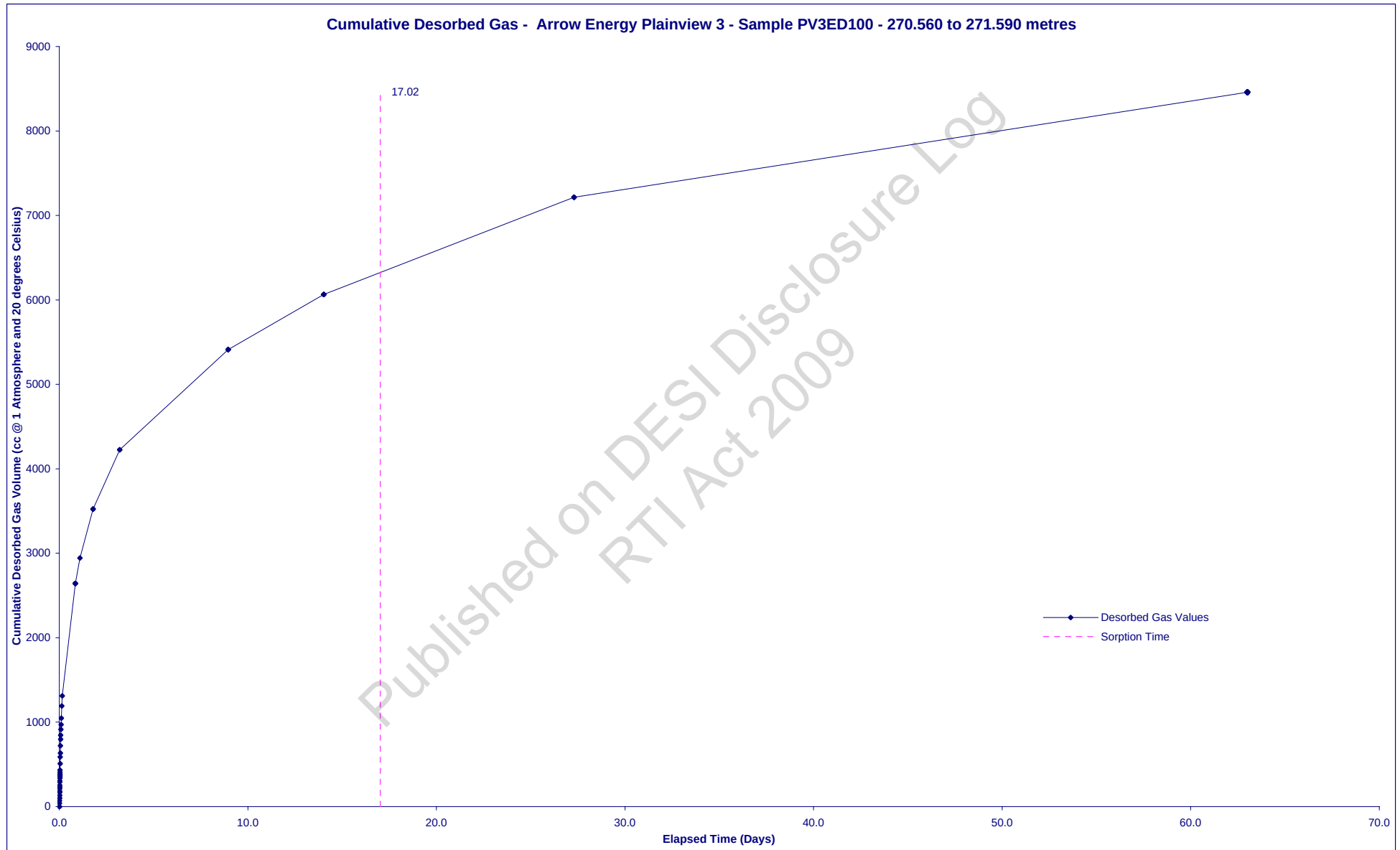




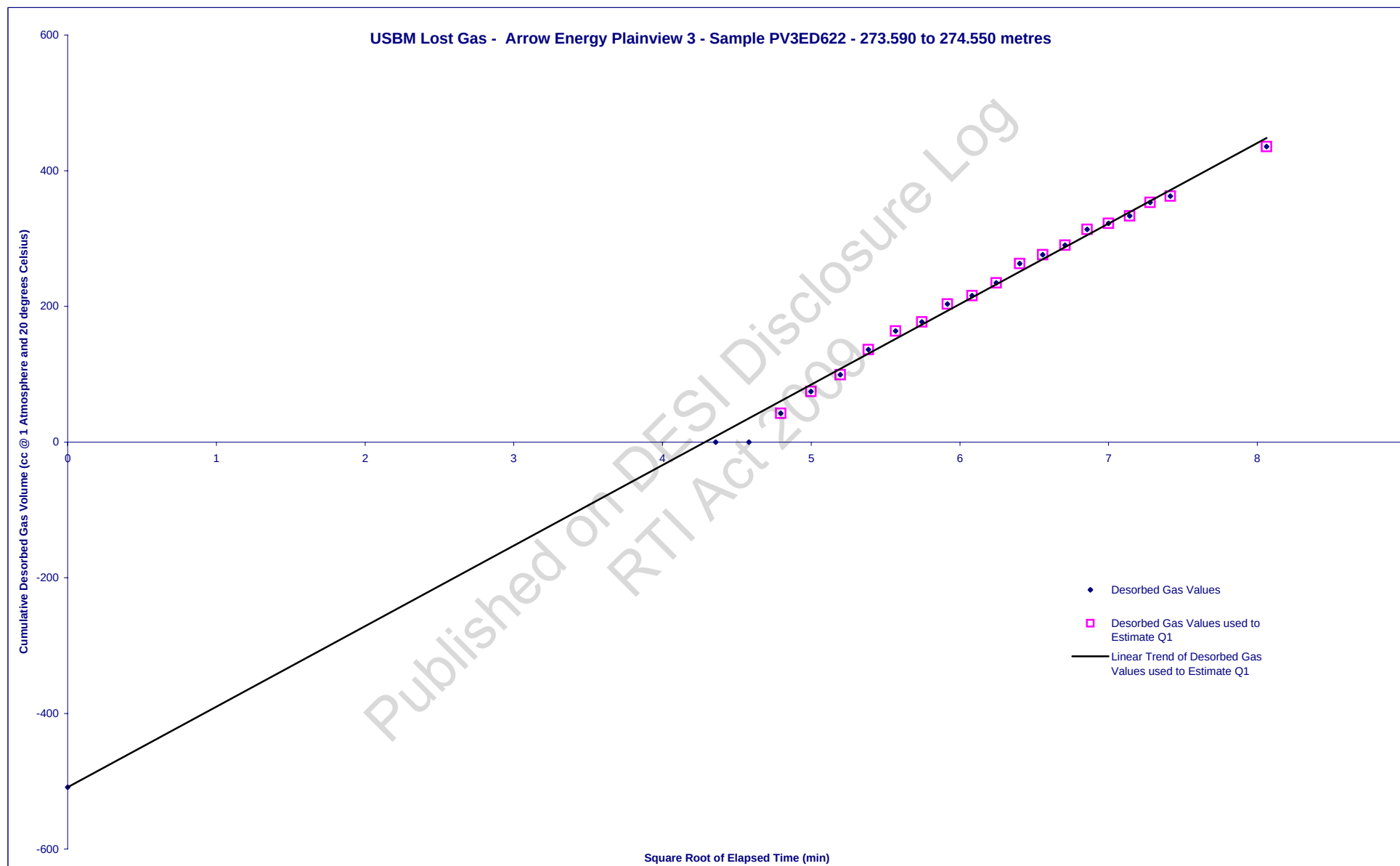


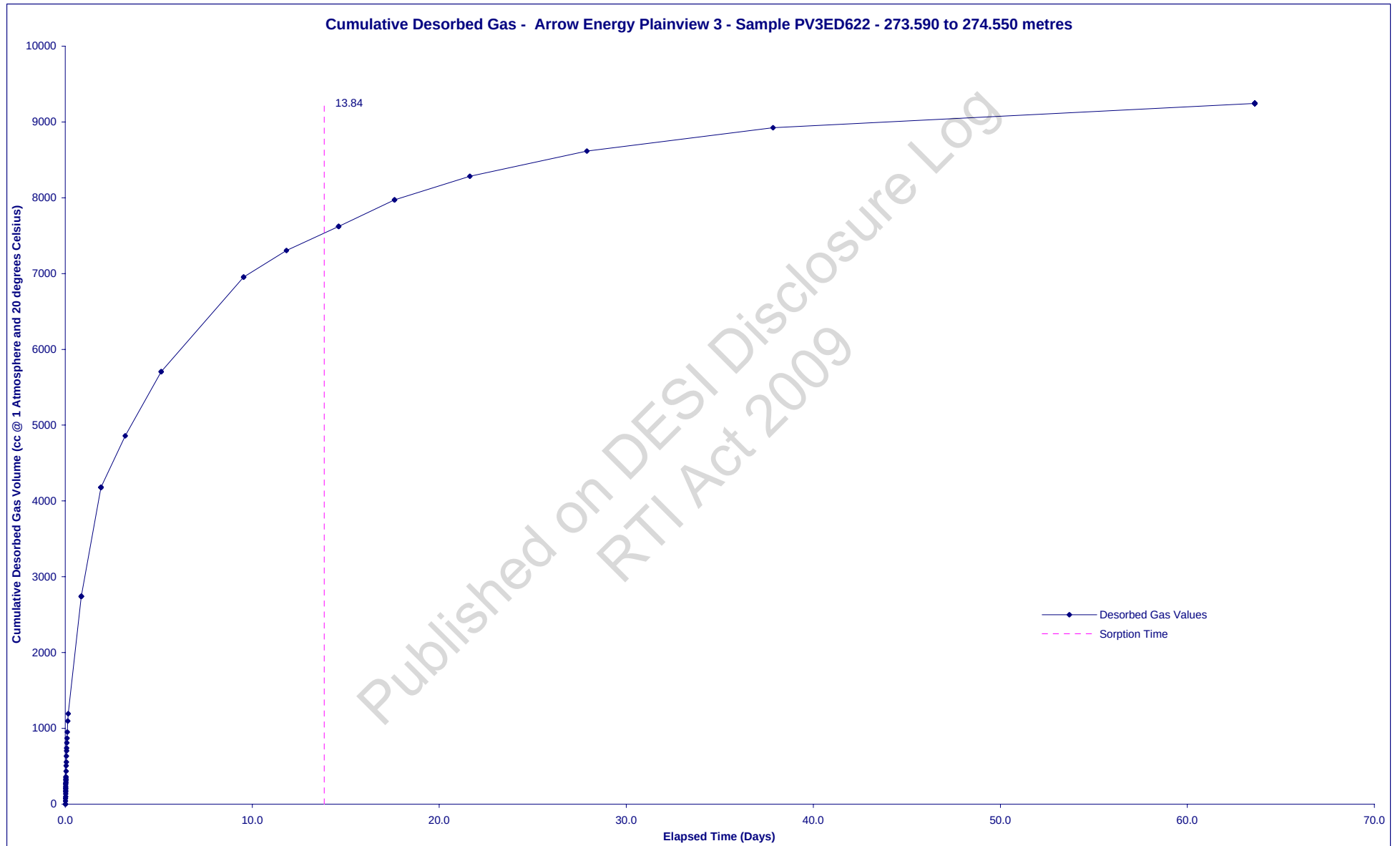
Arrow Energy Plainview 3 - Sample PV3ED622 - 273.590 to 274.550 metres

Hole Name	Plainview 3		Operator	Arrow Energy		Basin	Surat	State	QLD
Sample ID	PV3ED622	Sample Type	Core	Sample Top (m)	273.590	Sample Base (m)	274.550	Core Diameter (cm)	6.35
Sample Volume (cc)	3040	Mass (g)	3498	RD (g/cc)	1.37	Moisture (%ad)	6.7	Ash (%ad)	9.2
Q3 Volume (cc@STP)	168.61	Q3 Mass (g)	200.00	Q3 <212 μm (%)	100	Q3 Moisture (%ad)	6.7	Q3 Ash (%ad)	9.2
Can Length (cm)	107	Can Diameter (cm)	10	Can Volume (cc)	8404	Can Void (cc)	5435	Tubing Void (cc)	31
Date and Time	DD/MM/YY	HH:MM		Mud Weight (ppg)	8.3454		Trip Rate (m/min)	45.8	Minimum Q1 Point
Sample Penetrated	19/04/2008	13:56		Formation Pressure (Mpa) @ 0.433 psi/ft	2.68		Surface Time Ratio	0.684	3
Sample Off Bottom	19/04/2008	14:25		Formation Pressure Gradient (psi/ft)	0.433		Lost Time Ratio	0.088	Maximum Q1 Point
Sample at Surface	19/04/2008	14:31		Depth HSP=Formation Pressure (m)	273.26		USBM Q1 - Surface Time Correction	1.225	20
Sample Sealed	19/04/2008	14:44		Formation Temperature (°C)			Smith & Williams Q1 - Q2 Multiplier	1.040	Q1 Points Plotted
Time Zero	19/04/2008	14:25		Standard Temperature (°C)	20.00	Comments: 8.24 day time compression used between 26/04/2008:13:15 and			20
Last Entry	22/06/2008	05:09		Standard Pressure (hPa)	1013	7/05/2008:08:56			-509
Network	Uncorrected USBM Q1	Corrected USBM Q1	Smith & Williams Q1	Q2	Q3	Uncorrected USBM Q1+Q2+Q3	Corrected USBM Q1+Q2+Q3	Smith and Williams Q1+Q2+Q3	Canister Head Space
m³	0.001	0.001	0.000	0.009	0.000169				☐ Volumetric
m³/tonne (raw)	0.15	0.18	0.11	2.64	0.84				☒ He Reference
SCF/T (raw)	5	6	3	85	27				Time Zero Calculation
m³/tonne (daf)	0.17	0.21	0.13	3.14	1.00	4.32	4.36	4.27	☒ Auto
SCF/T (daf)	6	7	4	101	32	138	140	137	☐ Manual
Percent of daf total	4.01%	4.86%	2.94%	72.13%	Sorption Time (days)	13.84	Diffusivity (sec ⁻³)	7.48621E-06	☐ Cut Time
Date	Time	Temperature (°C)			Abs. Air Pressure (hPa)	Inverted Cylinder			Cumulative Q2 (cc at STP)
DD/MM/YY	HH:MM	Canister	Air	H ₂ O		Start (cc)	Finish (cc)	Size	
19/04/2008 14:44:00		33.6	27.7	24.2	978.6	100	100	2	0
19/04/2008 14:46:00		33.4	27.7	24.2	978.4	100	290	2	0
19/04/2008 14:48:00		33.5	27.8	24.2	978.6	290	330	2	42
19/04/2008 14:50:00		33.5	27.7	24.2	978.6	330	360	2	74
19/04/2008 14:52:00		33.3	27.8	24.2	978.6	360	380	2	99
19/04/2008 14:54:00		33.0	27.8	24.1	978.6	380	410	2	136
19/04/2008 14:56:00		32.7	27.9	24.0	978.8	410	430	2	164
19/04/2008 14:58:00		32.6	27.9	23.9	979.0	430	440	2	177
19/04/2008 15:00:00		32.3	27.9	23.8	979.0	440	460	2	203
19/04/2008 15:02:00		32.2	27.8	23.8	979.0	460	470	2	216
19/04/2008 15:04:00		31.7	27.6	23.6	979.0	470	480	2	234
19/04/2008 15:06:00		31.4	27.4	23.4	979.4	480	500	2	263
19/04/2008 15:08:00		31.2	27.3	23.3	979.2	500	510	2	276
19/04/2008 15:10:00		31.0	27.1	23.1	979.2	510	520	2	290
19/04/2008 15:12:00		30.9	27.1	23.0	979.2	520	540	2	313
19/04/2008 15:14:00		31.0	27.1	22.9	979.2	540	550	2	323
19/04/2008 15:16:00		31.0	27.2	22.8	979.2	550	560	2	333
19/04/2008 15:18:00		31.1	27.2	22.7	979.2	560	580	2	353
19/04/2008 15:20:00		31.2	27.3	22.7	979.2	580	590	2	363
19/04/2008 15:30:00		32.1	27.5	22.6	979.4	590	670	2	436
19/04/2008 15:41:00		33.7	27.1	22.7	979.6	670	760	2	508
19/04/2008 15:48:00		34.2	26.4	22.8	979.6	760	810	2	555
19/04/2008 16:01:00		34.7	26.2	23.0	979.6	810	890	2	634
19/04/2008 16:11:00		34.6	26.6	23.0	979.8	890	950	2	703
19/04/2008 16:19:00		34.3	26.5	22.8	979.6	950	980	2	740
19/04/2008 16:30:00		34.2	25.8	22.6	979.8	980	1040	2	808
19/04/2008 16:44:00		34.4	25.0	22.5	979.4	1040	1100	2	869
19/04/2008 16:59:00		34.6	25.4	22.7	978.8	1100	1180	2	951
19/04/2008 17:33:00		34.8	23.6	22.9	979.6	1180	1310	2	1098
19/04/2008 18:21:00		33.8	22.3	22.1	980.9	100	360	2	1193
20/04/2008 06:08:00		33.2	20.5	19.2	981.7	360	1460	2	2459
20/04/2008 07:12:00		36.5	21.8	20.0	982.4	100	390	2	2485

Arrow Energy Plainview 3 - Sample PV3ED622 - 273.590 to 274.550 metres

Date	Time	Temperature (°C)			Abs. Air Pressure (hPa)	Inverted Cylinder			Cumulative Q2 (cc at STP)
		Canister	Air	H ₂ O		Start (cc)	Finish (cc)	Size	
20/04/2008	08:24:00	37.4	24.2	20.4	982.6	390	530	2	2625
20/04/2008	09:21:00	35.8	24.3	21.2	982.1	530	570	2	2692
20/04/2008	11:01:00	33.1	26.1	21.8	981.1	570	580	2	2741
20/04/2008	16:51:00	36.4	24.1	21.8	978.4	580	960	2	3092
20/04/2008	19:03:00	34.4	22.4	22.0	980.3	960	1080	2	3270
21/04/2008	06:08:00	34.2	18.9	19.8	981.7	1080	1470	2	3727
21/04/2008	09:28:00	36.0	24.7	20.4	981.7	100	330	2	3727
21/04/2008	12:16:00	34.3	28.4	22.5	978.3	330	740	2	4179
22/04/2008	19:18:00	33.6	25.2	24.4	980.7	740	1330	2	4861
24/04/2008	07:39:00	35.5	17.9	15.8	980.3	100	950	2	5567
24/04/2008	17:31:00	35.4	25.5	22.6	976.4	1040	1170	2	5707
26/04/2008	13:15:00	35.2	29.6	21.3	972.1	100	440	2	5865
07/05/2008	08:56:00	39.2	25.4	25.0	1020.9	200	1020	2	6955
09/05/2008	15:53:00	35.6	24.5	22.7	1025.3	200	560	2	7305
10/05/2008	15:29:00	29.9	27.1	24.0	1024.4	200	280	2	7424
11/05/2008	16:21:00	32.8	25.8	23.6	1026.3	200	250	2	7426
12/05/2008	10:58:00	36.0	24.4	24.1	1028.2	200	420	2	7623
13/05/2008	11:46:00	32.2	23.0	20.1	1027.8	200	200	2	7647
15/05/2008	10:42:00	37.1	23.7	22.4	1027.3	200	560	2	7971
19/05/2008	11:23:00	36.7	21.7	20.2	1021.5	200	550	2	8283
25/05/2008	17:27:00	36.9	22.9	21.4	1030.9	100	420	2	8617
04/06/2008	16:23:00	37.8	22.4	21.5	1022.8	100	470	2	8923
07/06/2008	12:08:00	36.4	26.1	22.0	1030.0	100	210	2	9044
30/06/2008	10:50:00	33.1	20.6	23.1	1024.4	100	270	2	9245



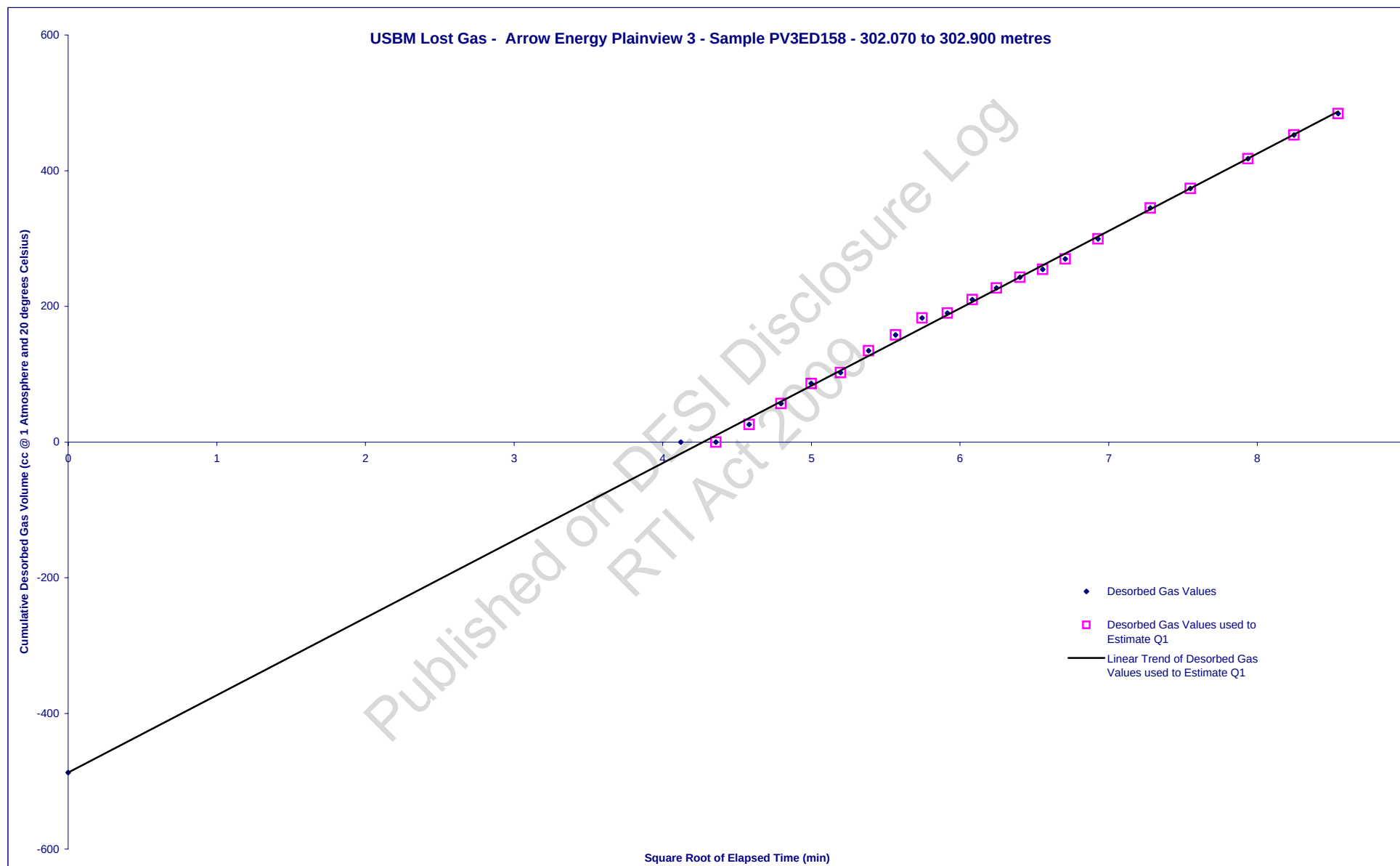


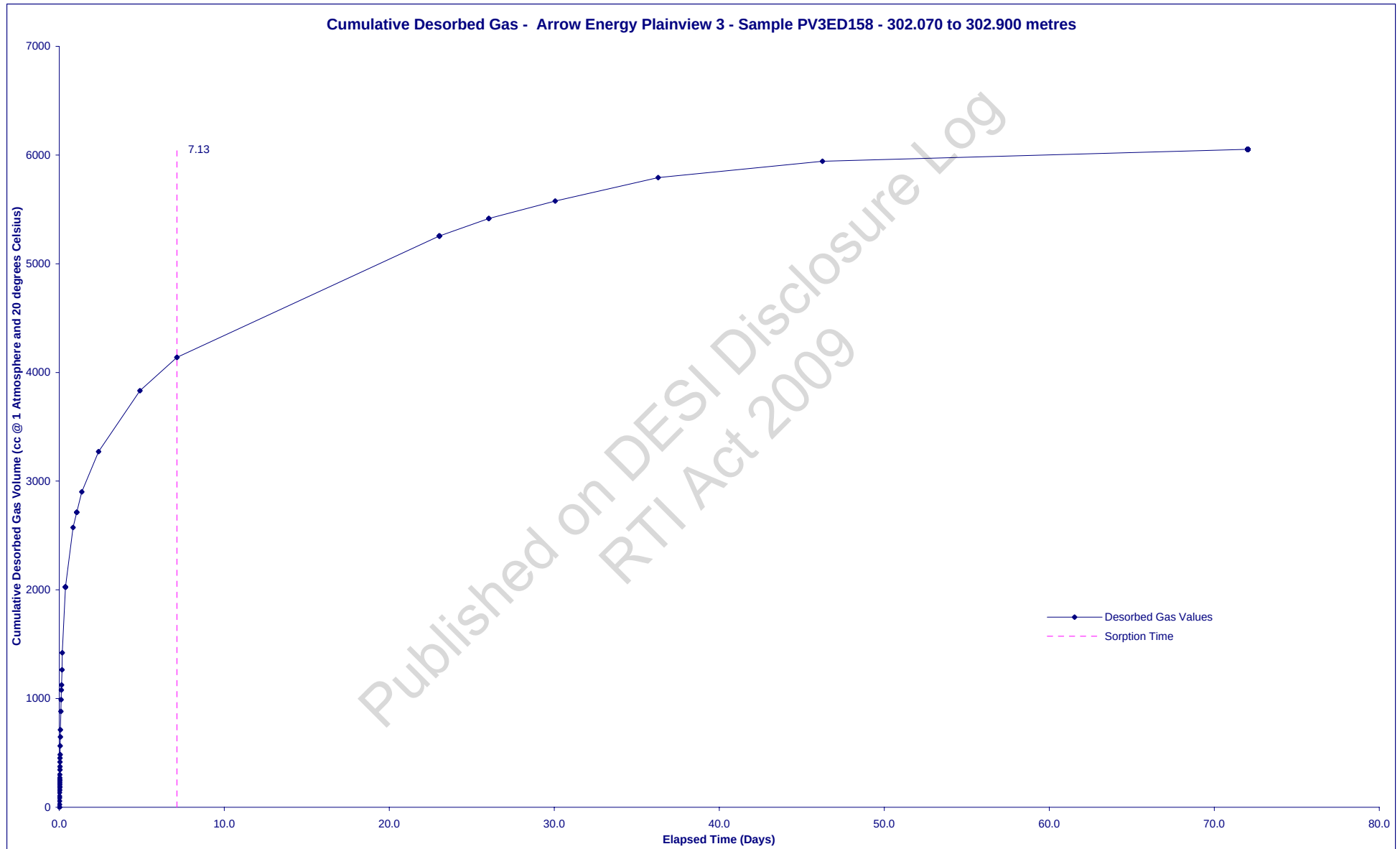
Arrow Energy Plainview 3 - Sample PV3ED158 - 302.070 to 302.900 metres

Hole Name	Plainview 3		Operator	Arrow Energy		Basin	Surat	State	QLD
Sample ID	PV3ED158	Sample Type	Core	Sample Top (m)	302.070	Sample Base (m)	302.900	Core Diameter (cm)	6.35
Sample Volume (cc)	2629	Mass (g)	3550	RD (g/cc)	1.60	Moisture (%ad)	6.8	Ash (%ad)	11.2
Q3 Volume (cc@STP)	113.94	Q3 Mass (g)	200.00	Q3 <212 µm (%)	100	Q3 Moisture (%ad)	6.8	Q3 Ash (%ad)	11.2
Can Length (cm)	107	Can Diameter (cm)	10	Can Volume (cc)	8404	Can Void (cc)	5435	Tubing Void (cc)	31
Date and Time	DD/MM/YY	HH:MM		Mud Weight (ppg)	8.3454		Trip Rate (m/min)	50.5	Minimum Q1 Point
Sample Penetrated	20/04/2008	09:15		Formation Pressure (Mpa) @ 0.433 psi/ft	2.96		Surface Time Ratio	0.647	2
Sample Off Bottom	20/04/2008	10:07		Formation Pressure Gradient (psi/ft)	0.433		Lost Time Ratio	0.061	Maximum Q1 Point
Sample at Surface	20/04/2008	10:13		Depth HSP=Formation Pressure (m)	301.70		USBM Q1 - Surface Time Correction	1.2	21
Sample Sealed	20/04/2008	10:24		Formation Temperature (°C)			Smith & Williams Q1 - Q2 Multiplier	1.000	Q1 Points Plotted
Time Zero	20/04/2008	10:07		Standard Temperature (°C)	20.00	Comments: -0.99 day time compression used between 22/04/2008:19:26 and 24/04/2008:07:37			21
Last Entry	01/07/2008	10:58		Standard Pressure (hPa)	1013				-487
Network	Uncorrected USBM Q1	Corrected USBM Q1	Smith & Williams Q1	Q2	Q3	Uncorrected USBM Q1+Q2+Q3	Corrected USBM Q1+Q2+Q3	Smith and Williams Q1+Q2+Q3	Canister Head Space
m³	0.000	0.001	0.000	0.006	0.000114				☐ Volumetric
m³/tonne (raw)	0.14	0.16	0.00	1.70	0.57				☒ He Reference
SCF/T (raw)	4	5	0	55	18				Time Zero Calculation
m³/tonne (daf)	0.17	0.20	0.00	2.08	0.69	2.94	2.97	2.77	☒ Auto
SCF/T (daf)	5	6	0	67	22	94	95	89	☐ Manual
Percent of daf total	5.69%	6.75%	0.00%	69.89%	Sorption Time (days)	7.13	Diffusivity (sec⁻¹)	1.51417E-05	☐ Cut Time
Date	Time	Temperature (°C)		Abs: Air Pressure (hPa)		Inverted Cylinder		Cumulative Q2 (cc at STP)	
DD/MM/YY	HH:MM	Canister	Air	H₂O		Start (cc)	Finish (cc)	Size	
20/04/2008	10:24:00	28.7	25.4	20.9	981.9	100	100	2	0
20/04/2008	10:26:00	32.9	25.4	20.9	981.7	100	300	2	0
20/04/2008	10:28:00	33.3	25.4	21.0	981.7	300	330	2	26
20/04/2008	10:30:00	33.4	25.4	20.9	981.7	330	360	2	57
20/04/2008	10:32:00	33.2	25.4	20.9	981.5	360	385	2	86
20/04/2008	10:34:00	33.2	25.4	21.0	981.5	385	400	2	102
20/04/2008	10:36:00	33.3	25.4	21.1	981.7	400	430	2	134
20/04/2008	10:38:00	33.2	25.4	21.2	981.7	430	450	2	158
20/04/2008	10:40:00	33.2	25.5	21.3	981.3	450	475	2	183
20/04/2008	10:42:00	33.1	25.4	21.3	981.3	475	480	2	190
20/04/2008	10:44:00	33.2	25.6	21.4	981.3	480	500	2	210
20/04/2008	10:46:00	33.5	25.6	21.4	981.3	500	520	2	227
20/04/2008	10:48:00	33.8	25.8	21.5	981.1	520	540	2	243
20/04/2008	10:50:00	33.8	25.9	21.5	981.3	540	550	2	255
20/04/2008	10:52:00	33.8	25.9	21.6	981.1	550	565	2	270
20/04/2008	10:55:00	33.6	26.0	21.7	980.9	565	590	2	299
20/04/2008	11:00:00	33.6	26.1	21.8	981.3	590	630	2	345
20/04/2008	11:04:00	33.7	26.1	21.8	980.9	630	660	2	374
20/04/2008	11:10:00	33.7	26.2	21.9	980.9	660	700	2	418
20/04/2008	11:15:00	33.5	26.2	21.9	980.7	700	730	2	453
20/04/2008	11:20:00	32.9	26.1	22.0	980.7	730	750	2	484
20/04/2008	11:30:00	31.9	25.6	22.0	980.5	750	810	2	565
20/04/2008	11:43:00	31.3	25.7	22.0	980.5	810	875	2	647
20/04/2008	11:52:00	30.9	26.7	22.1	980.2	875	930	2	712
20/04/2008	12:21:00	31.8	27.1	22.2	980.0	930	1100	2	883
20/04/2008	12:41:00	32.5	27.7	22.3	979.6	1100	1210	2	990
20/04/2008	13:01:00	33.0	28.5	22.3	979.2	1210	1300	2	1079
20/04/2008	13:30:00	31.9	26.2	22.7	979.0	100	320	2	1125
20/04/2008	14:00:00	33.3	26.6	22.9	979.2	320	470	2	1265
20/04/2008	14:37:00	34.6	24.3	22.8	979.4	470	630	2	1420
20/04/2008	15:02:00	38.3	24.7	22.7	978.6	630	760	2	1498
20/04/2008	15:31:00	36.4	23.6	21.2	978.8	760	830	2	1607

Arrow Energy Plainview 3 - Sample PV3ED158 - 302.070 to 302.900 metres

Date	Time	Temperature (°C)			Abs. Air Pressure (hPa)	Inverted Cylinder			Cumulative Q2 (cc at STP)
		Canister	Air	H ₂ O		Start (cc)	Finish (cc)	Size	
20/04/2008	16:01:00	36.0	24.2	22.1	978.4	830	900	2	1689
20/04/2008	17:03:00	33.3	24.2	22.9	978.8	900	970	2	1812
20/04/2008	18:15:00	31.9	24.3	22.1	980.3	970	1080	2	1966
20/04/2008	19:01:00	33.0	22.4	22.1	980.3	1080	1150	2	2025
21/04/2008	06:05:00	33.1	19.0	19.8	981.7	100	750	2	2573
21/04/2008	07:09:00	34.5	21.2	17.9	982.4	750	870	2	2687
21/04/2008	09:09:00	35.4	24.5	20.6	981.9	870	910	2	2714
21/04/2008	11:25:00	33.8	27.3	21.7	974.6	910	910	2	2714
21/04/2008	18:47:00	33.7	25.1	25.3	978.6	910	1060	2	2902
22/04/2008	19:26:00	32.9	25.7	22.3	980.7	100	570	2	3271
24/04/2008	07:37:00	34.4	17.8	15.6	980.3	100	700	2	3833
25/04/2008	07:12:00	34.2	18.4	16.7	976.0	100	490	2	4138
26/04/2008	13:19:00	35.7	29.6	21.7	972.9	100	160	2	4138
07/05/2008	09:30:00	40.5	25.4	23.5	1021.3	200	720	2	4915
09/05/2008	16:28:00	36.6	22.4	22.3	1025.9	200	380	2	5119
10/05/2008	15:42:00	29.7	25.7	23.8	1024.0	200	140	2	5127
11/05/2008	16:27:00	33.3	24.9	23.1	1026.7	200	220	2	5127
12/05/2008	11:10:00	36.1	22.8	23.6	1028.4	200	350	2	5255
13/05/2008	12:00:00	32.4	22.6	20.2	1027.7	200	130	2	5255
15/05/2008	10:53:00	36.8	23.4	22.3	1027.1	200	400	2	5417
19/05/2008	11:46:00	36.8	21.3	20.0	1021.1	200	400	2	5577
25/05/2008	17:16:00	34.9	22.9	21.4	1031.1	100	260	2	5792
04/06/2008	16:17:00	35.0	22.1	21.6	1022.4	100	300	2	5942
07/06/2008	11:51:00	35.1	26.0	21.9	1030.0	200	160	2	5942
30/06/2008	11:09:00	31.1	20.7	21.5	1022.8	100	180	2	6052





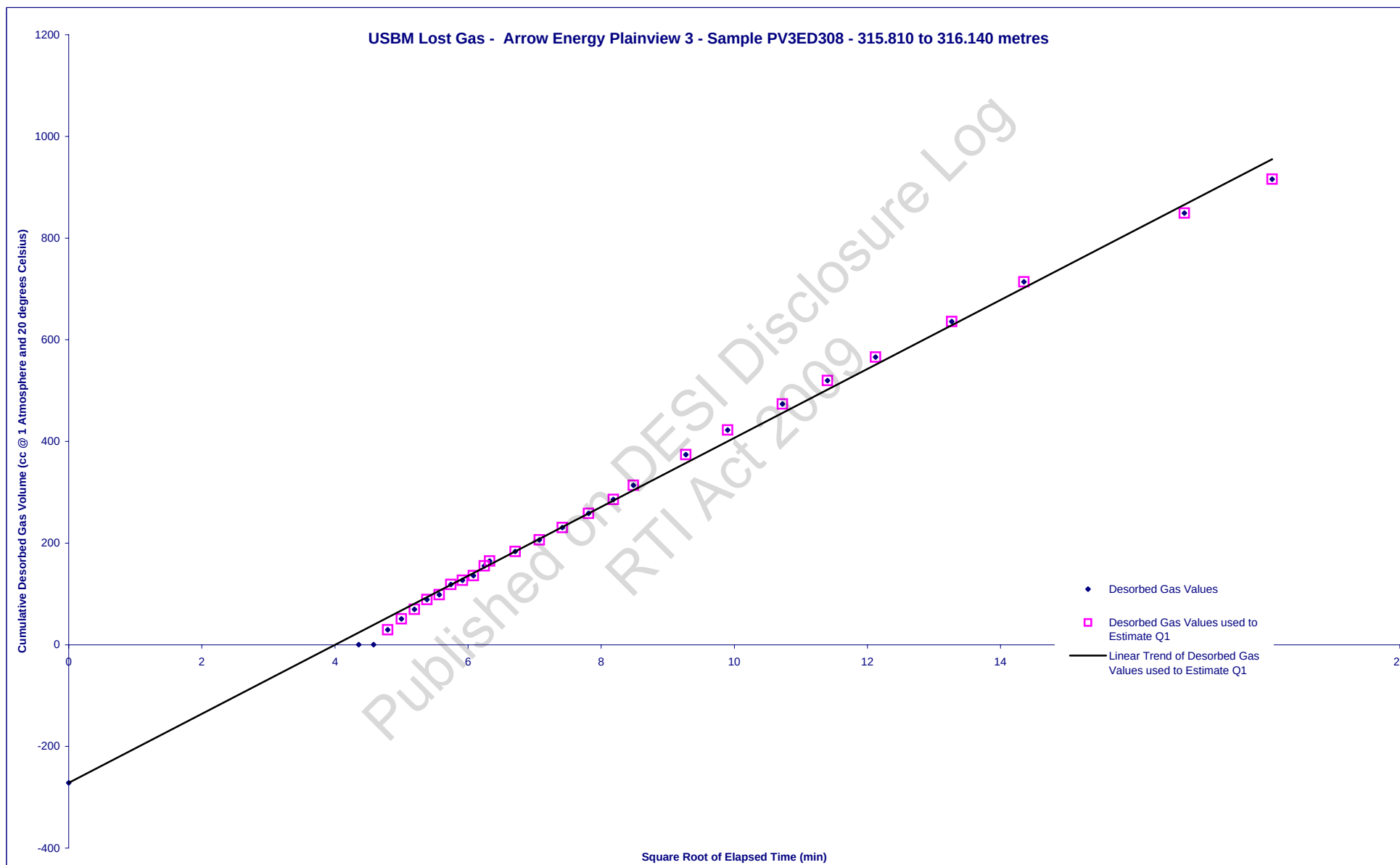
Arrow Energy Plainview 3 - Sample PV3ED308 - 315.810 to 316.140 metres

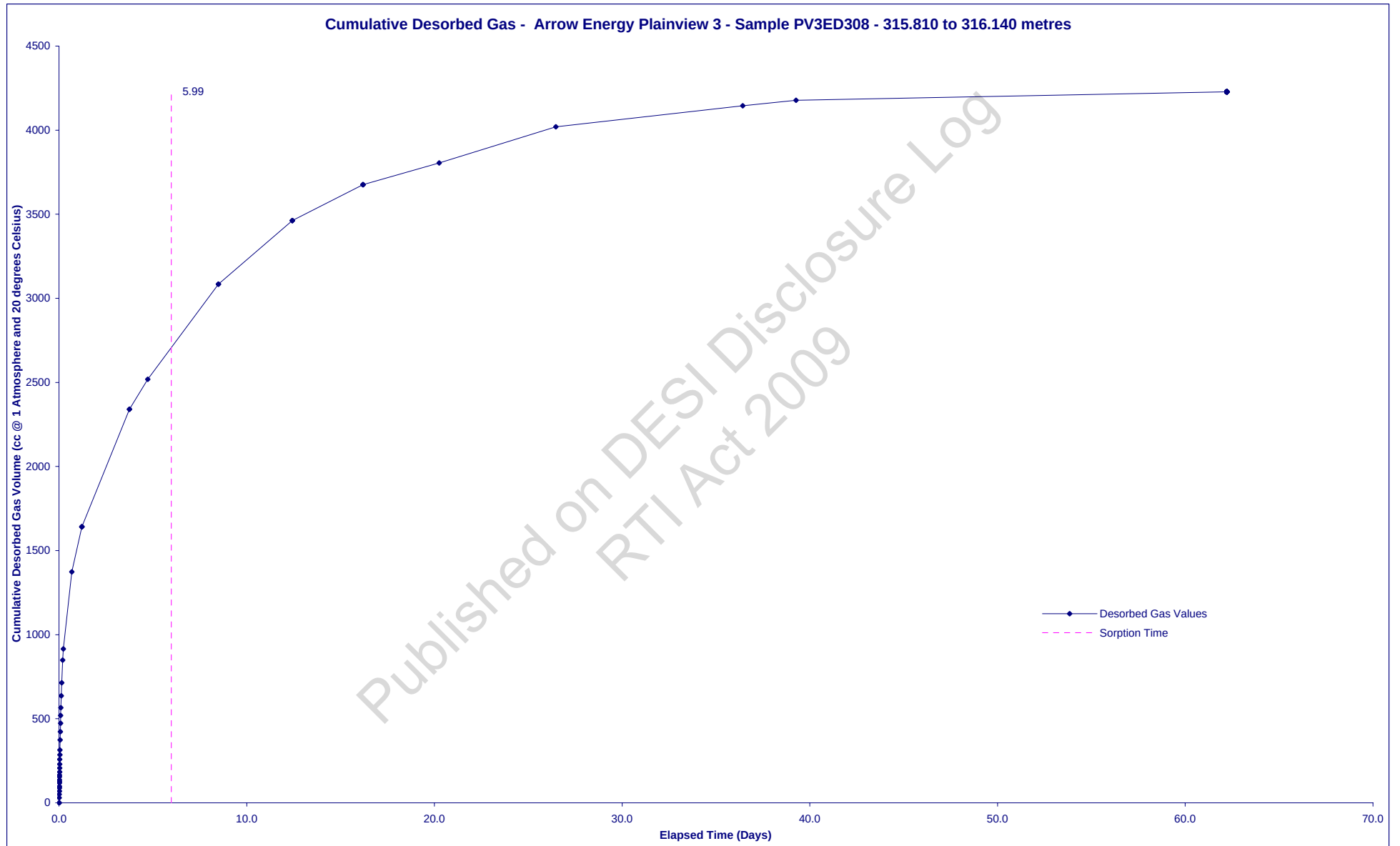
Hole Name	Plainview 3		Operator	Arrow Energy		Basin	Surat	State	QLD
Sample ID	PV3ED308	Sample Type	Core	Sample Top (m)	315.810	Sample Base (m)	316.140	Core Diameter (cm)	6.35
Sample Volume (cc)	1045	Mass (g)	1282	RD (g/cc)	1.44	Moisture (%ad)	6.6	Ash (%ad)	10
Q3 Volume (cc@STP)	83.31	Q3 Mass (g)	200.00	Q3 <212 µm (%)	100	Q3 Moisture (%ad)	6.6	Q3 Ash (%ad)	10
Can Length (cm)	57	Can Diameter (cm)	10	Can Volume (cc)	4477	Can Void (cc)	2946	Tubing Void (cc)	31
Date and Time	DD/MM/YY	HH:MM	Mud Weight (ppg)		8.3454	Trip Rate (m/min)		45.2	Minimum Q1 Point
Sample Penetrated	20/04/2008	12:57	Formation Pressure (Mpa) @ 0.433 psi/ft		3.09	Surface Time Ratio		0.632	3
Sample Off Bottom	20/04/2008	13:35	Formation Pressure Gradient (psi/ft)		0.433	Lost Time Ratio		0.062	Maximum Q1 Point
Sample at Surface	20/04/2008	13:42	Depth HSP=Formation Pressure (m)		315.42	USBM Q1 - Surface Time Correction		1.2	27
Sample Sealed	20/04/2008	13:54	Formation Temperature (°C)			Smith & Williams Q1 - Q2 Multiplier		1.000	Q1 Points Plotted
Time Zero	20/04/2008	13:35	Standard Temperature (°C)		20.00	Comments: 8.70 day time compression used between 26/04/2008:13:19 and			27
Last Entry	21/06/2008	18:34	Standard Pressure (hPa)		1013	07/05/2008:18:05			-272
Network	Uncorrected USBM Q1	Corrected USBM Q1	Smith & Williams Q1	Q2	Q3	Uncorrected USBM Q1+Q2+Q3	Corrected USBM Q1+Q2+Q3	Smith and Williams Q1+Q2+Q3	Canister Head Space ○ Volumetric ● He Reference
m³	0.000	0.000	0.000	0.004	0.000083				Time Zero Calculation ● Auto ○ Manual ○ Cut Time
m³/tonne (raw)	0.21	0.25	0.00	3.30	0.42				
SCF/T (raw)	7	8	0	106	13				
m³/tonne (daf)	0.25	0.30	0.00	3.96	0.50	4.71	4.76	4.45	
SCF/T (daf)	8	10	0	127	16	151	152	143	
Percent of daf total	5.39%	6.40%	0.00%	83.10%	Sorption Time (days)	5.99	Diffusivity (sec ⁻¹)	1.55102E-05	
Date	Time	Temperature (°C)			Abs. Air Pressure (hPa)	Inverted Cylinder			Cumulative Q2 (cc at STP)
DD/MM/YY	HH:MM	Canister	Air	H ₂ O		Start (cc)	Finish (cc)	Size	
20/04/2008	13:54:00	33.0	27.1	23.0	978.8	100	100	2	0
20/04/2008	13:56:00	34.0	27.0	22.9	979.0	100	240	2	0
20/04/2008	13:58:00	34.6	26.9	22.8	979.0	240	275	2	30
20/04/2008	14:00:00	35.0	26.6	22.9	979.0	275	300	2	51
20/04/2008	14:02:00	35.2	26.4	22.9	979.2	300	320	2	70
20/04/2008	14:04:00	35.3	26.3	23.0	979.2	320	340	2	89
20/04/2008	14:06:00	35.4	26.2	23.0	979.4	340	350	2	99
20/04/2008	14:08:00	35.4	26.0	23.0	979.4	350	370	2	119
20/04/2008	14:10:00	35.6	25.8	23.0	979.4	370	380	2	127
20/04/2008	14:12:00	35.7	25.7	23.0	979.4	380	390	2	136
20/04/2008	14:14:00	35.8	25.5	23.0	979.4	390	410	2	155
20/04/2008	14:15:00	35.9	25.4	23.0	979.6	410	420	2	165
20/04/2008	14:20:00	36.1	25.1	22.9	979.6	420	440	2	183
20/04/2008	14:25:00	36.3	24.7	22.9	979.4	440	465	2	206
20/04/2008	14:30:00	36.4	24.5	22.8	979.4	465	490	2	231
20/04/2008	14:36:00	36.7	24.3	22.7	979.4	490	520	2	258
20/04/2008	14:42:00	37.0	24.3	22.8	979.4	520	550	2	286
20/04/2008	14:47:00	37.3	24.4	22.7	979.4	550	580	2	314
20/04/2008	15:01:00	38.3	24.9	22.7	978.8	580	650	2	374
20/04/2008	15:13:00	38.7	24.7	22.7	979.2	650	700	2	422
20/04/2008	15:30:00	38.6	23.6	21.2	979.0	700	750	2	474
20/04/2008	15:45:00	37.8	23.9	21.6	978.4	750	790	2	520
20/04/2008	16:02:00	37.3	24.2	22.2	978.6	790	830	2	566
20/04/2008	16:31:00	36.3	24.3	22.8	978.6	830	890	2	636
20/04/2008	17:01:00	33.3	24.3	22.9	978.6	890	940	2	714
20/04/2008	18:16:00	33.7	24.4	22.1	980.3	940	1070	2	849
20/04/2008	19:02:00	33.2	22.4	22.1	980.3	1070	1130	2	916
21/04/2008	06:06:00	35.0	18.9	19.8	981.7	100	650	2	1373
21/04/2008	07:09:00	34.8	21.2	17.9	982.4	650	710	2	1439
21/04/2008	09:09:00	35.8	24.5	20.6	981.9	710	790	2	1510
21/04/2008	11:25:00	34.5	27.3	21.7	974.6	790	790	2	1510
21/04/2008	18:47:00	34.0	25.1	25.3	978.6	100	280	2	1641

Arrow Energy Plainview 3 - Sample PV3ED308 - 315.810 to 316.140 metres

Date	Time	Temperature (°C)			Abs. Air Pressure (hPa)	Inverted Cylinder			Cumulative Q2 (cc at STP)
		Canister	Air	H ₂ O		Start (cc)	Finish (cc)	Size	
22/04/2008	19:26:00	33.7	25.7	22.3	980.7	100	430	2	1964
24/04/2008	07:37:00	36.4	17.8	15.6	980.3	100	520	2	2341
25/04/2008	07:12:00	34.5	18.4	16.7	976.0	100	310	2	2519
26/04/2008	13:19:00	35.0	29.6	21.7	972.9	100	170	2	2555
07/05/2008	18:05:00	34.7	22.6	18.6	1018.8	200	570	2	3085
09/05/2008	16:00:00	36.9	23.1	22.4	1025.3	200	380	2	3238
10/05/2008	16:25:00	39.4	25.3	23.5	1024.6	200	330	2	3332
11/05/2008	16:33:00	34.6	24.7	23.0	1026.5	200	290	2	3463
12/05/2008	11:19:00	36.4	23.0	23.6	1028.4	200	310	2	3559
13/05/2008	12:12:00	29.7	22.1	20.7	1026.9	200	150	2	3559
15/05/2008	11:02:00	36.9	23.4	22.2	1026.9	200	370	2	3676
19/05/2008	12:24:00	37.4	21.8	20.0	1020.5	200	360	2	3805
25/05/2008	17:38:00	35.4	22.8	21.4	1031.0	100	280	2	4020
04/06/2008	16:30:00	35.6	21.6	21.5	1022.8	100	260	2	4146
07/06/2008	12:40:00	36.0	26.6	22.2	1029.6	100	130	2	4178
30/06/2008	11:20:00	30.7	21.5	23.9	1022.3	100	125	2	4229

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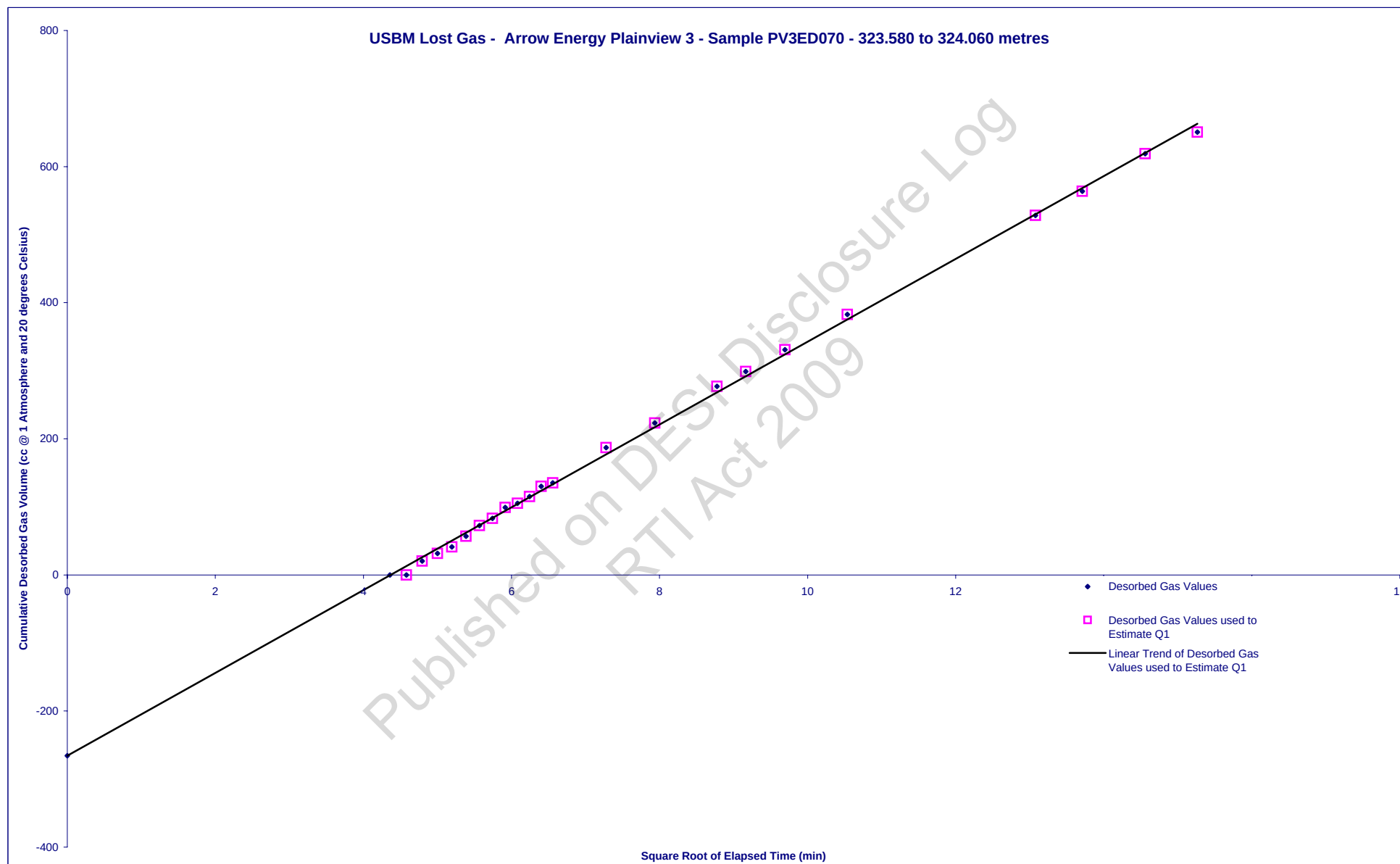
Arrow Energy Plainview 3 - Sample PV3ED070 - 323.580 to 324.060 metres

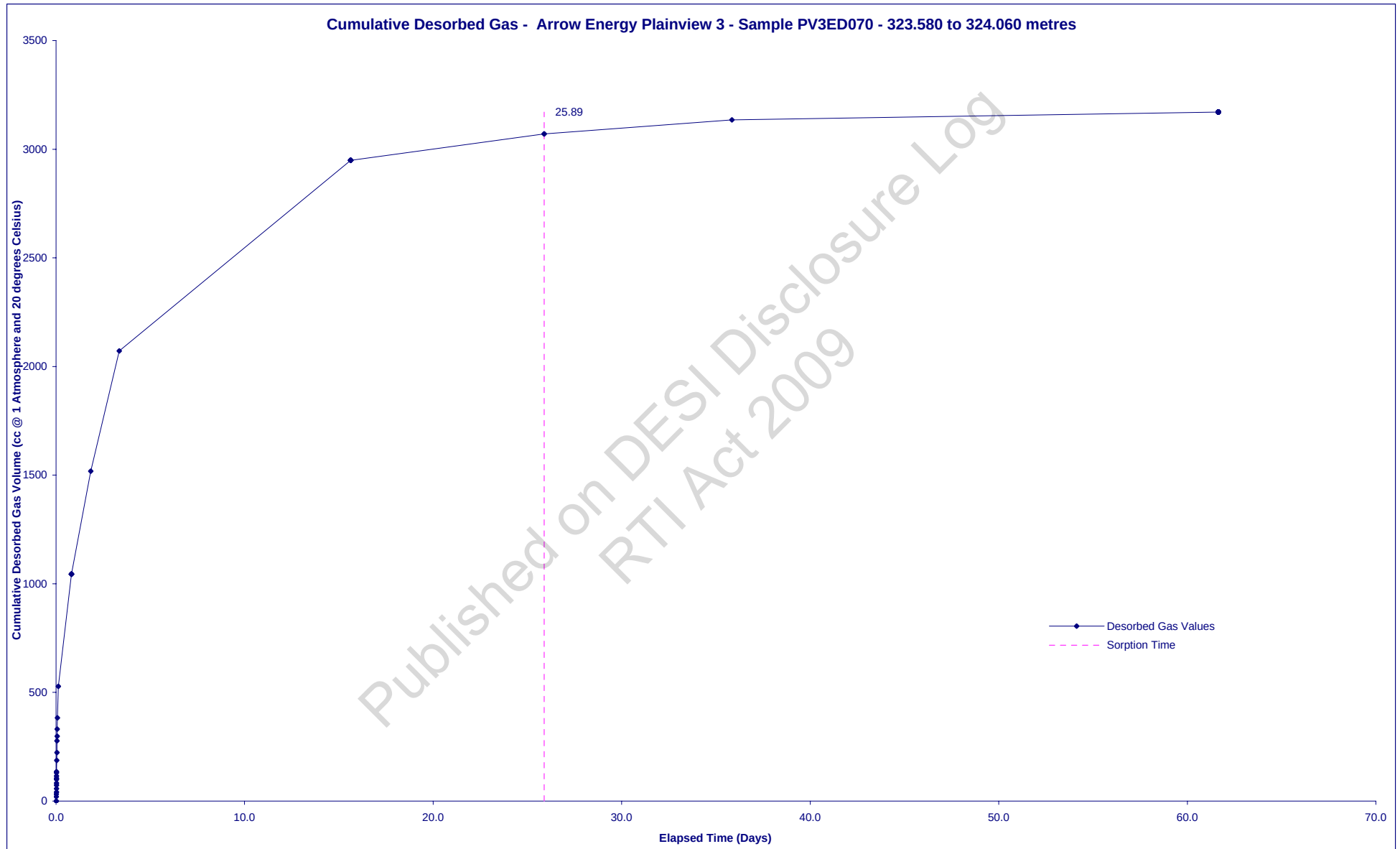
Hole Name	Plainview 3		Operator	Arrow Energy		Basin	Surat	State	QLD
Sample ID	PV3ED070	Sample Type	Core	Sample Top (m)	323.580	Sample Base (m)	324.060	Core Diameter (cm)	6.35
Sample Volume (cc)	1520	Mass (g)	1765	RD (g/cc)	1.58	Moisture (%ad)	5.3	Ash (%ad)	6.7
Q3 Volume (cc@STP)	219.56	Q3 Mass (g)	200.00	Q3 <212 µm (%)	100	Q3 Moisture (%ad)	5.3	Q3 Ash (%ad)	6.7
Can Length (cm)	57	Can Diameter (cm)	10	Can Volume (cc)	4477	Can Void (cc)	2946	Tubing Void (cc)	31
Date and Time	DD/MM/YY	HH:MM		Mud Weight (ppg)	8.3454		Trip Rate (m/min)	46.3	Minimum Q1 Point
Sample Penetrated	20/04/2008	14:56		Formation Pressure (Mpa) @ 0.433 psi/ft	3.17		Surface Time Ratio	0.632	2
Sample Off Bottom	20/04/2008	15:07		Formation Pressure Gradient (psi/ft)	0.433		Lost Time Ratio	0.089	Maximum Q1 Point
Sample at Surface	20/04/2008	15:14		Depth HSP=Formation Pressure (m)	323.19		USBM Q1 - Surface Time Correction	1.2	23
Sample Sealed	20/04/2008	15:26		Formation Temperature (°C)			Smith & Williams Q1 - Q2 Multiplier	1.040	Q1 Points Plotted
Time Zero	20/04/2008	15:07		Standard Temperature (°C)	20.00	Comments: 0.34 day time compression used between 20/04/2008:19:00 and			23
Last Entry	21/06/2008	06:39		Standard Pressure (hPa)	1013	21/04/2008:06:03 9.20 day time compression used between			-266
Network	Uncorrected USBM Q1	Corrected USBM Q1	Smith & Williams Q1	Q2	Q3	Uncorrected USBM Q1+Q2+Q3	Corrected USBM Q1+Q2+Q3	Smith and Williams Q1+Q2+Q3	Canister Head Space ○ Volumetric ● He Reference
m³	0.000	0.000	0.000	0.003	0.000220				Time Zero Calculation ● Auto ○ Manual ○ Cut Time
m³/tonne (raw)	0.15	0.18	0.07	1.80	1.10				
SCF/T (raw)	5	6	2	58	35				
m³/tonne (daf)	0.17	0.21	0.08	2.04	1.25	3.46	3.49	3.37	
SCF/T (daf)	5	7	3	65	40	111	112	108	
Percent of daf total	4.94%	5.88%	2.42%	58.43%	Sorption Time (days)	25.89	Diffusivity (sec ⁻¹)	1.09675E-05	
Date	Time	Temperature (°C)			Abs: Air Pressure (hPa)	Inverted Cylinder			Cumulative Q2 (cc at STP)
DD/MM/YY	HH:MM	Canister	Air	H ₂ O		Start (cc)	Finish (cc)	Size	
20/04/2008	15:26:00	34.6	23.8	22.6	979.2	100	100	2	0
20/04/2008	15:28:00	34.7	23.7	21.4	979.2	100	200	2	0
20/04/2008	15:30:00	34.6	23.6	21.1	979.0	200	220	2	20
20/04/2008	15:32:00	34.4	23.6	21.2	978.8	220	230	2	32
20/04/2008	15:34:00	34.4	23.6	21.2	978.6	230	240	2	41
20/04/2008	15:36:00	34.3	23.6	21.2	978.6	240	255	2	57
20/04/2008	15:38:00	34.3	23.7	21.3	978.8	255	270	2	73
20/04/2008	15:40:00	34.2	23.7	21.3	978.6	270	280	2	83
20/04/2008	15:42:00	34.0	23.8	21.4	978.4	280	295	2	99
20/04/2008	15:44:00	33.9	23.9	21.5	978.4	295	300	2	105
20/04/2008	15:46:00	33.9	23.9	21.6	978.4	300	310	2	115
20/04/2008	15:48:00	33.9	24.0	21.7	978.4	310	325	2	130
20/04/2008	15:50:00	33.9	24.0	21.8	978.4	325	330	2	135
20/04/2008	16:00:00	33.8	24.2	22.1	978.6	330	380	2	187
20/04/2008	16:10:00	33.7	24.1	22.3	978.6	380	415	2	223
20/04/2008	16:24:00	33.8	24.5	22.7	978.4	415	470	2	277
20/04/2008	16:31:00	33.7	24.3	22.8	978.6	470	490	2	299
20/04/2008	16:41:00	33.4	24.7	22.9	978.3	490	520	2	331
20/04/2008	16:58:00	32.2	24.6	22.9	978.6	520	560	2	383
20/04/2008	17:58:00	31.3	23.4	22.3	980.2	560	690	2	528
20/04/2008	18:15:00	31.9	24.3	22.1	980.3	690	730	2	564
20/04/2008	18:39:00	32.6	23.7	22.0	980.3	730	790	2	619
20/04/2008	19:00:00	32.5	22.4	22.0	980.3	790	820	2	651
21/04/2008	06:03:00	32.4	19.0	19.7	981.7	820	1010	2	855
21/04/2008	07:09:00	32.1	21.2	17.9	982.4	1010	1070	2	922
21/04/2008	09:09:00	34.1	24.5	20.6	981.9	1070	1160	2	995
21/04/2008	11:25:00	33.4	27.3	21.7	974.6	1160	1200	2	1021
21/04/2008	18:47:00	32.8	25.1	25.3	978.6	100	210	2	1044
22/04/2008	19:26:00	32.3	25.7	22.3	980.7	100	570	2	1518
24/04/2008	07:37:00	34.9	17.8	15.6	980.3	100	700	2	2072
25/04/2008	07:12:00	34.3	18.4	16.7	976.0	100	490	2	2407
26/04/2008	13:19:00	34.7	29.6	21.7	972.9	100	160	2	2417

Arrow Energy Plainview 3 - Sample PV3ED070 - 323.580 to 324.060 metres

Date	Time	Temperature (°C)			Abs. Air Pressure (hPa)	Inverted Cylinder			Cumulative Q2 (cc at STP)
		Canister	Air	H ₂ O		Start (cc)	Finish (cc)	Size	
DD/MM/YY	HH:MM								
07/05/2008	18:05:00	34.8	22.6	18.6	1018.8	200	250	2	2606
09/05/2008	16:00:00	37.3	23.1	22.4	1025.3	200	290	2	2691
10/05/2008	16:25:00	29.5	25.3	23.5	1024.6	200	100	2	2691
11/05/2008	16:33:00	35.1	24.7	23.0	1026.5	200	260	2	2717
12/05/2008	11:19:00	37.2	23.0	23.6	1028.4	200	270	2	2771
13/05/2008	12:12:00	32.9	22.1	20.7	1026.9	200	340	2	2948
15/05/2008	11:02:00	37.2	23.4	22.2	1026.9	200	250	2	2948
19/05/2008	12:24:00	38.3	21.8	20.0	1020.5	200	260	2	2978
25/05/2008	17:16:00	35.6	22.9	21.4	1031.1	100	150	2	3071
04/06/2008	16:17:00	36.2	22.1	21.6	1022.4	100	195	2	3135
07/06/2008	11:51:00	35.6	26.0	21.9	1030.0	200	160	2	3135
30/06/2008	11:25:00	30.9	21.9	24.6	1022.4	100	120	2	3171

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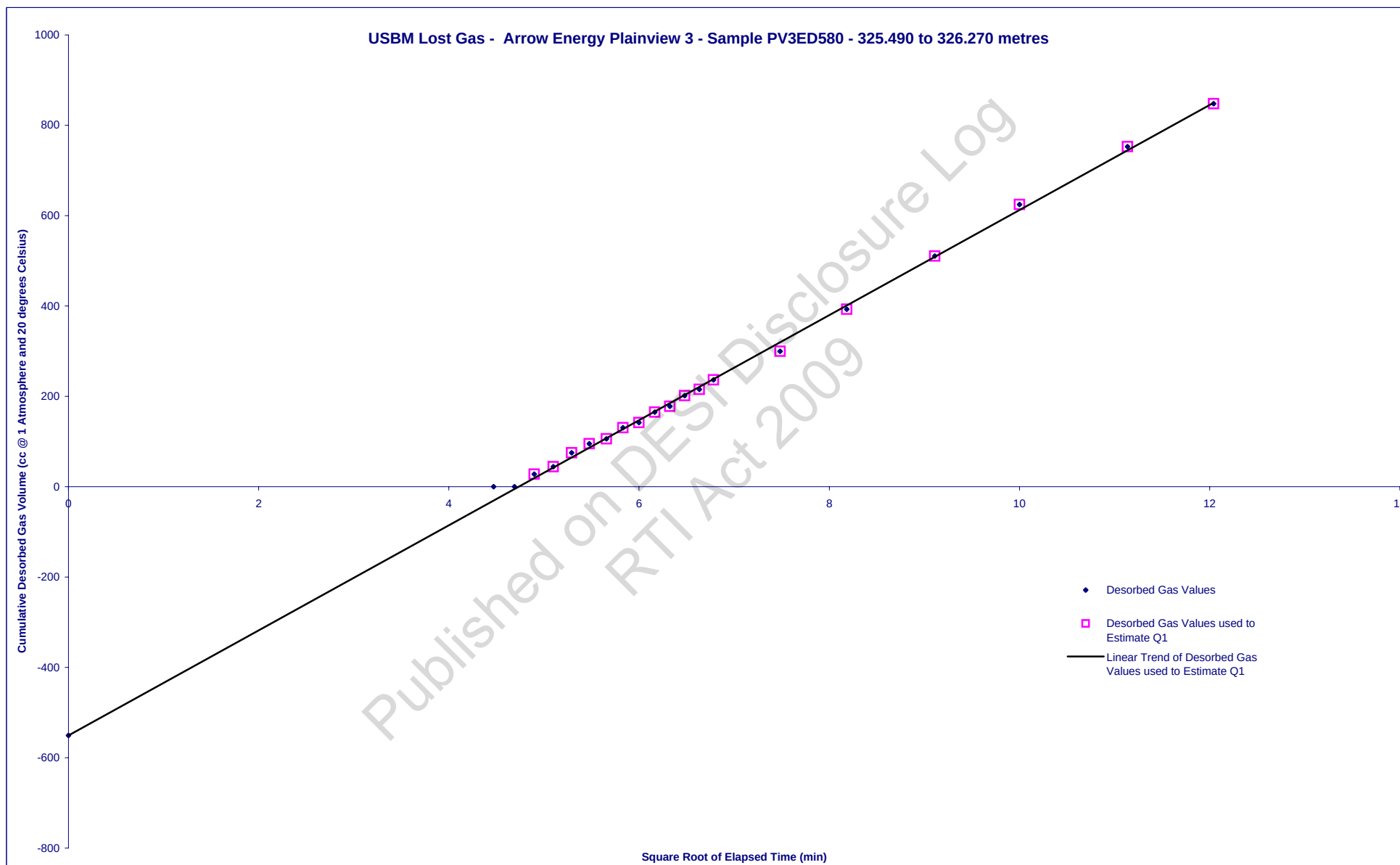
Arrow Energy Plainview 3 - Sample PV3ED580 - 325.490 to 326.270 metres

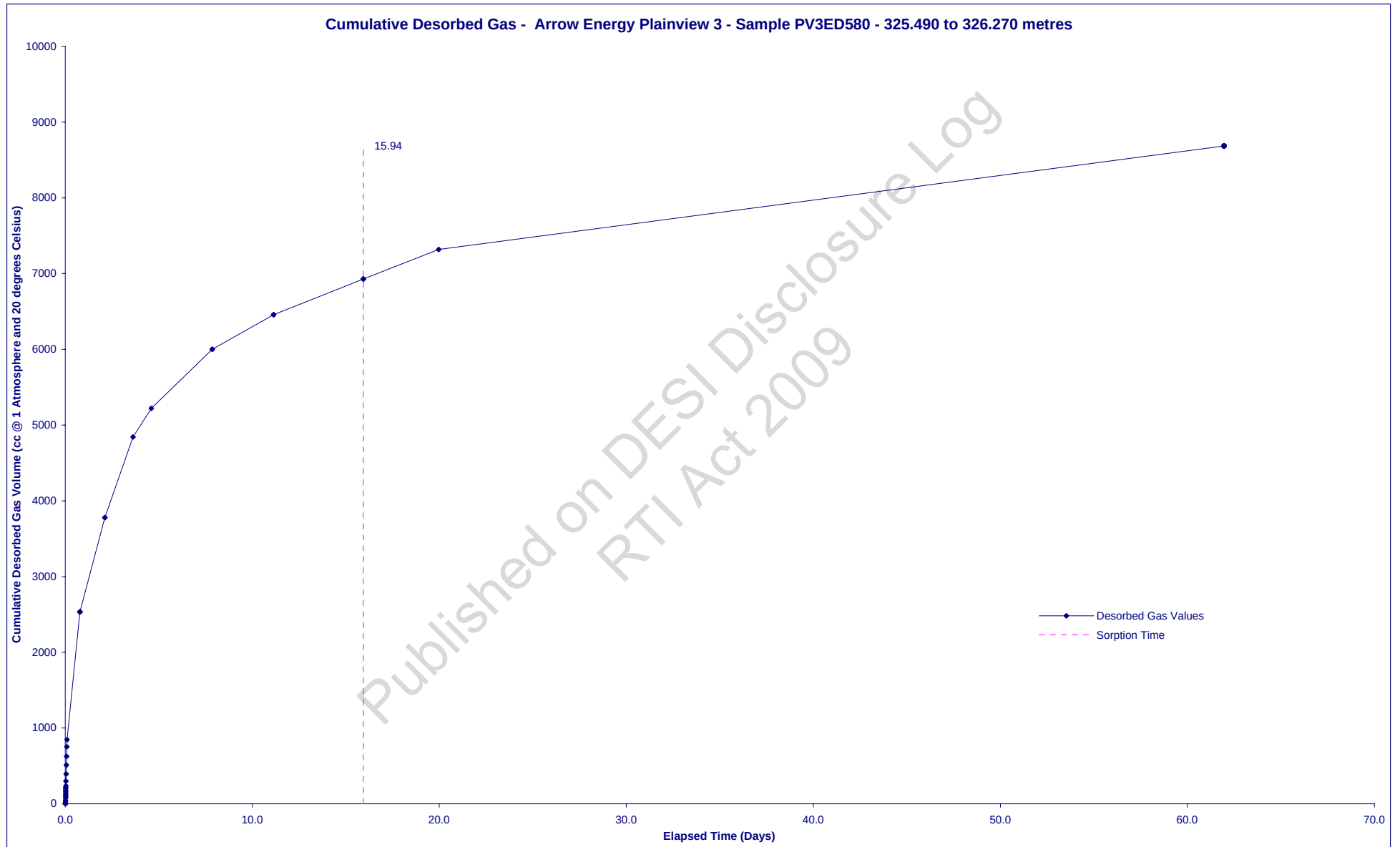
Hole Name	Plainview 3		Operator	Arrow Energy		Basin	Surat	State	QLD	
Sample ID	PV3ED580	Sample Type	Core	Sample Top (m)	325.490	Sample Base (m)	326.270	Core Diameter (cm)	6.35	
Sample Volume (cc)	2470	Mass (g)	2976	RD (g/cc)	1.36	Moisture (%ad)	6.1	Ash (%ad)	10.2	
Q3 Volume (cc@STP)	193.94	Q3 Mass (g)	200.00	Q3 <212 µm (%)	100	Q3 Moisture (%ad)	6.1	Q3 Ash (%ad)	10.2	
Can Length (cm)	107	Can Diameter (cm)	10	Can Volume (cc)	8404	Can Void (cc)	5719	Tubing Void (cc)	31	
Date and Time	DD/MM/YY	HH:MM	Mud Weight (ppg)			8.3454	Trip Rate (m/min)		54.4	Minimum Q1 Point
Sample Penetrated	20/04/2008	15:40	Formation Pressure (Mpa) @ 0.433 psi/ft			3.19	Surface Time Ratio		0.700	3
Sample Off Bottom	20/04/2008	16:34	Formation Pressure Gradient (psi/ft)			0.433	Lost Time Ratio		0.160	Maximum Q1 Point
Sample at Surface	20/04/2008	16:40	Depth HSP=Formation Pressure (m)			325.09	USBM Q1 - Surface Time Correction		1.25	20
Sample Sealed	20/04/2008	16:54	Formation Temperature (°C)				Smith & Williams Q1 - Q2 Multiplier		1.090	Q1 Points Plotted
Time Zero	20/04/2008	16:34	Standard Temperature (°C)			20.00	Comments: 8.82 day time compression used between 26/04/2008:13:19 and			20
Last Entry	21/06/2008	15:54	Standard Pressure (hPa)			1013	07/05/2008:08:56			-551
Network	Uncorrected USBM Q1	Corrected USBM Q1	Smith & Williams Q1	Q2	Q3	Uncorrected USBM Q1+Q2+Q3	Corrected USBM Q1+Q2+Q3	Smith and Williams Q1+Q2+Q3	Canister Head Space ○ Volumetric ● He Reference	
m³	0.001	0.001	0.001	0.009	0.000194				Time Zero Calculation	
m³/tonne (raw)	0.19	0.23	0.26	2.92	0.97				● Auto	
SCF/T (raw)	6	7	8	94	31				○ Manual	
m³/tonne (daf)	0.22	0.28	0.31	3.49	1.16	4.87	4.92	4.96	○ Cut Time	
SCF/T (daf)	7	9	10	112	37	156	158	159		
Percent of daf total	4.54%	5.62%	6.33%	70.85%	Sorption Time (days)	15.94	Diffusivity (sec ⁻¹)	7.85677E-06		
Date	Time	Temperature (°C)			Abs. Air Pressure (hPa)	Inverted Cylinder			Cumulative Q2 (cc at STP)	
DD/MM/YY	HH:MM	Canister	Air	H ₂ O		Start (cc)	Finish (cc)	Size		
20/04/2008 16:54:00		32.6	24.7	22.9	978.4	100	100	2	0	
20/04/2008 16:56:00		33.5	24.7	22.9	978.6	100	300	2	0	
20/04/2008 16:58:00		33.8	24.6	22.9	978.6	300	330	2	28	
20/04/2008 17:00:00		34.1	24.5	22.9	978.6	330	350	2	44	
20/04/2008 17:02:00		34.3	24.3	22.9	978.8	350	380	2	75	
20/04/2008 17:04:00		34.4	24.1	22.9	978.8	380	400	2	95	
20/04/2008 17:06:00		34.4	23.9	23.0	978.8	400	410	2	106	
20/04/2008 17:08:00		34.4	23.6	23.0	979.2	410	430	2	130	
20/04/2008 17:10:00		34.3	23.6	23.0	979.0	430	440	2	142	
20/04/2008 17:12:00		34.3	23.7	23.0	979.2	440	460	2	165	
20/04/2008 17:14:00		34.2	23.6	22.9	979.2	460	470	2	178	
20/04/2008 17:16:00		34.1	23.5	22.9	979.2	470	490	2	202	
20/04/2008 17:18:00		34.0	23.2	22.8	979.4	490	500	2	215	
20/04/2008 17:20:00		34.0	23.1	22.8	979.2	500	520	2	236	
20/04/2008 17:30:00		33.6	22.4	22.6	979.4	520	570	2	300	
20/04/2008 17:41:00		33.5	22.4	22.4	979.8	570	650	2	393	
20/04/2008 17:57:00		33.9	23.3	22.2	980.2	650	760	2	510	
20/04/2008 18:14:00		34.4	24.2	22.1	980.3	760	870	2	625	
20/04/2008 18:38:00		35.4	23.7	22.0	980.3	870	1000	2	752	
20/04/2008 18:59:00		35.1	22.4	22.0	980.3	1000	1080	2	848	
21/04/2008 06:02:00		35.2	19.1	19.6	981.7	100	1540	2	2333	
21/04/2008 07:09:00		35.2	21.2	17.9	982.4	100	370	2	2370	
21/04/2008 09:09:00		36.5	24.5	20.6	981.9	370	500	2	2488	
21/04/2008 11:25:00		34.7	27.3	21.7	974.6	500	550	2	2532	
21/04/2008 18:47:00		34.4	25.1	25.3	978.6	570	890	2	2918	
22/04/2008 19:26:00		33.5	25.7	22.3	980.7	100	980	2	3777	
24/04/2008 07:37:00		35.2	17.8	15.6	980.3	100	1200	2	4842	
25/04/2008 07:12:00		33.7	18.4	16.7	976.0	100	620	2	5221	
26/04/2008 13:19:00		35.4	29.6	21.7	972.9	100	140	2	5221	
07/05/2008 08:56:00		38.9	25.4	25.0	1020.9	200	690	2	6000	
09/05/2008 15:53:00		34.7	24.5	22.7	1025.3	200	510	2	6364	
10/05/2008 15:29:00		29.2	27.1	24.0	1024.4	200	250	2	6456	

Arrow Energy Plainview 3 - Sample PV3ED580 - 325.490 to 326.270 metres

Date	Time	Temperature (°C)			Abs. Air Pressure (hPa)	Inverted Cylinder			Cumulative Q2 (cc at STP)
		Canister	Air	H ₂ O		Start (cc)	Finish (cc)	Size	
11/05/2008	16:21:00	31.4	25.8	23.6	1026.3	200	240	2	6463
12/05/2008	10:58:00	33.7	24.4	24.1	1028.2	200	390	2	6642
13/05/2008	11:46:00	30.9	23.0	20.1	1027.8	200	200	2	6656
15/05/2008	10:42:00	36.7	23.7	22.4	1027.3	200	530	2	6927
19/05/2008	11:23:00	36.7	21.7	20.2	1021.5	200	620	2	7318
25/05/2008	15:08:00	35.0	24.5	21.3	1031.1	100	570	2	7847
04/06/2008	16:15:00	36.0	22.4	21.5	1022.8	100	650	2	8330
07/06/2008	11:02:00	36.3	25.8	21.5	1020.5	100	210	2	8335
30/06/2008	11:31:00	31.4	22.1	24.8	1022.3	100	340	2	8686

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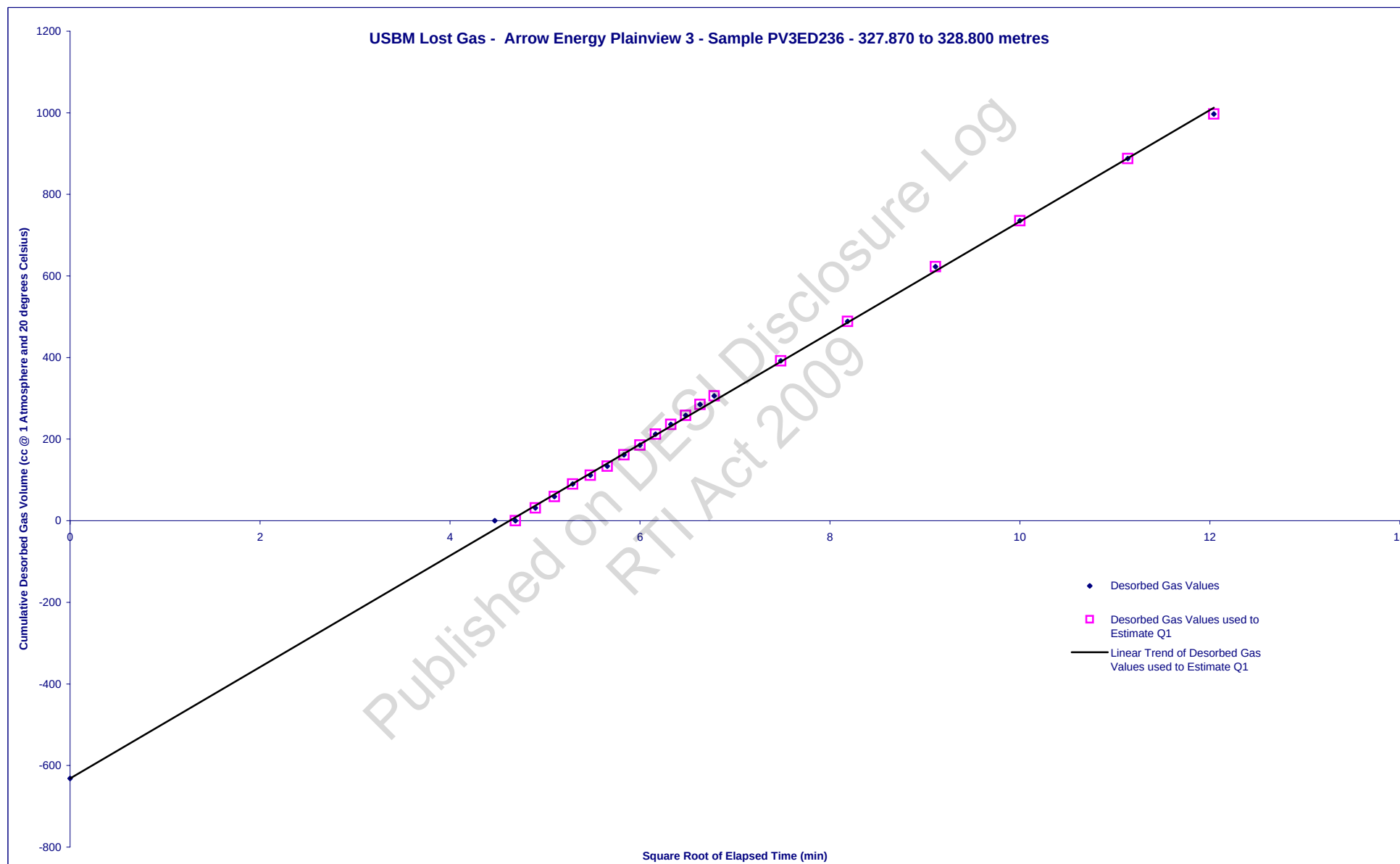
Arrow Energy Plainview 3 - Sample PV3ED236 - 327.870 to 328.800 metres

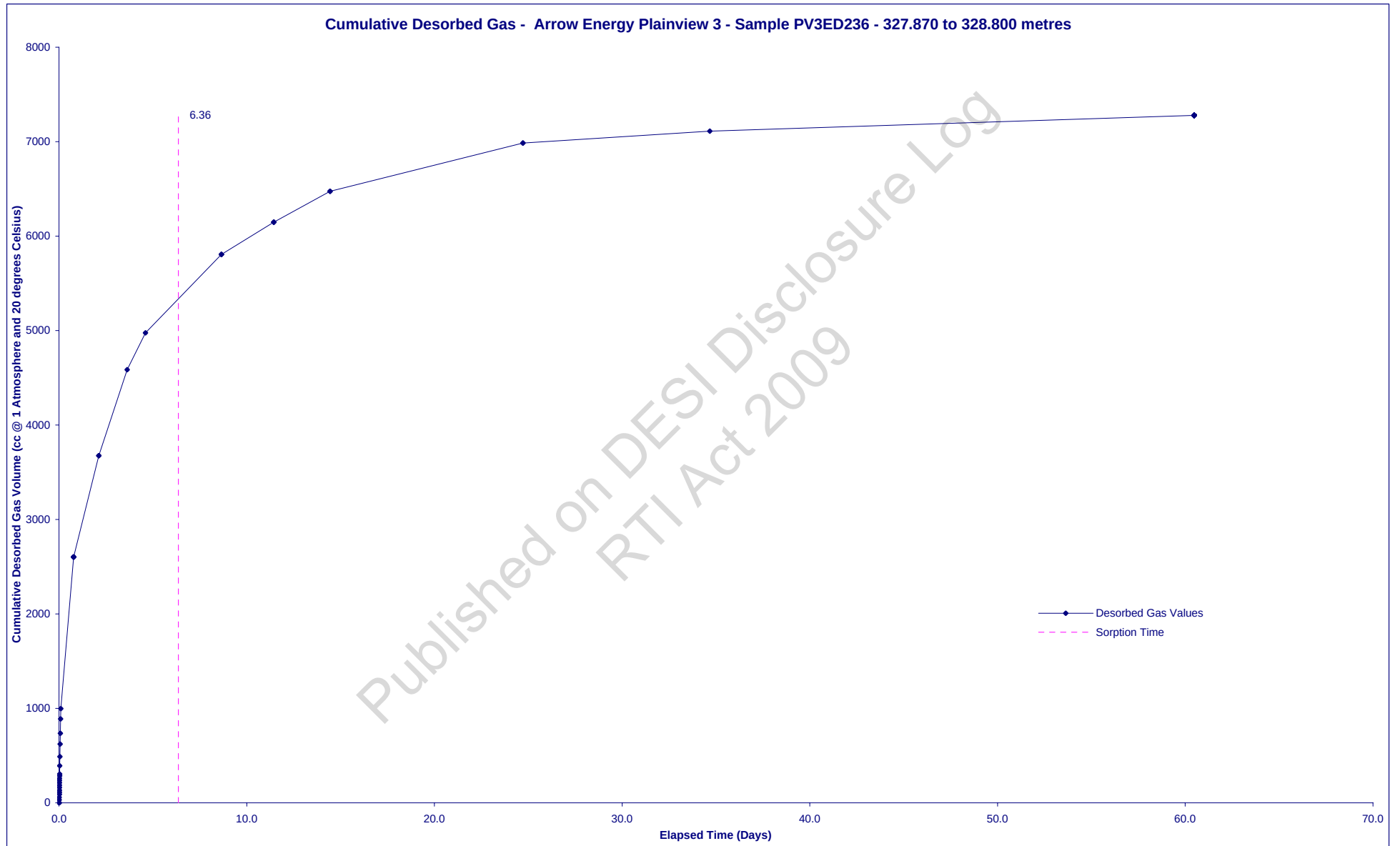
Hole Name	Plainview 3		Operator	Arrow Energy		Basin	Surat	State	QLD
Sample ID	PV3ED236	Sample Type	Core	Sample Top (m)	327.870	Sample Base (m)	328.800	Core Diameter (cm)	6.35
Sample Volume (cc)	2945	Mass (g)	3640	RD (g/cc)	1.45	Moisture (%ad)	5.7	Ash (%ad)	12.1
Q3 Volume (cc@STP)	94.44	Q3 Mass (g)	200.00	Q3 <212 µm (%)	100	Q3 Moisture (%ad)	5.7	Q3 Ash (%ad)	12.1
Can Length (cm)	107	Can Diameter (cm)	10	Can Volume (cc)	8404	Can Void (cc)	5719	Tubing Void (cc)	31
Date and Time	DD/MM/YY	HH:MM		Mud Weight (ppg)	8.3454	Trip Rate (m/min)		54.8	Minimum Q1 Point
Sample Penetrated	20/04/2008	16:07		Formation Pressure (Mpa) @ 0.433 psi/ft	3.21	Surface Time Ratio		0.700	2
Sample Off Bottom	20/04/2008	16:34		Formation Pressure Gradient (psi/ft)	0.433	Lost Time Ratio		0.160	Maximum Q1 Point
Sample at Surface	20/04/2008	16:40		Depth HSP=Formation Pressure (m)	327.47	USBM Q1 - Surface Time Correction		1.25	20
Sample Sealed	20/04/2008	16:54		Formation Temperature (°C)		Smith & Williams Q1 - Q2 Multiplier		1.090	Q1 Points Plotted
Time Zero	20/04/2008	16:34		Standard Temperature (°C)	20.00	Comments: 0.75 day time compression used between 25/04/2008:07:12 and 26/04/2008:13:19 10.32 day time compression used between			20
Last Entry	20/06/2008	04:05		Standard Pressure (hPa)	1013				-632
Network	Uncorrected USBM Q1	Corrected USBM Q1	Smith & Williams Q1	Q2	Q3	Uncorrected USBM Q1+Q2+Q3	Corrected USBM Q1+Q2+Q3	Smith and Williams Q1+Q2+Q3	Canister Head Space ○ Volumetric ● He Reference
m³	0.001	0.001	0.001	0.007	0.000094				Time Zero Calculation ● Auto ○ Manual ○ Cut Time
m³/tonne (raw)	0.17	0.22	0.18	2.00	0.47				
SCF/T (raw)	6	7	6	64	15				
m³/tonne (daf)	0.21	0.26	0.22	2.43	0.57	3.22	3.27	3.23	
SCF/T (daf)	7	8	7	78	18	103	105	103	
Percent of daf total	6.56%	8.07%	6.79%	74.37%	Sorption Time (days)	6.36	Diffusivity (sec ⁻¹)	1.69824E-05	
Date	Time	Temperature (°C)			Abs. Air Pressure (hPa)	Inverted Cylinder			Cumulative Q2 (cc at STP)
DD/MM/YY	HH:MM	Canister	Air	H ₂ O		Start (cc)	Finish (cc)	Size	
20/04/2008	16:54:00	28.6	24.7	22.9	978.4	100	100	2	0
20/04/2008	16:56:00	29.8	24.7	22.9	978.6	100	300	2	0
20/04/2008	16:58:00	30.5	24.6	22.9	978.6	300	340	2	32
20/04/2008	17:00:00	30.8	24.5	22.9	978.6	340	370	2	59
20/04/2008	17:02:00	31.0	24.3	22.9	978.8	370	400	2	90
20/04/2008	17:04:00	31.0	24.1	22.9	978.8	400	420	2	112
20/04/2008	17:06:00	31.0	23.9	23.0	978.8	420	440	2	134
20/04/2008	17:08:00	30.8	23.6	23.0	979.2	440	460	2	161
20/04/2008	17:10:00	30.6	23.6	23.0	979.0	460	480	2	186
20/04/2008	17:12:00	30.4	23.7	23.0	979.2	480	500	2	212
20/04/2008	17:14:00	30.3	23.6	22.9	979.2	500	520	2	236
20/04/2008	17:16:00	30.3	23.5	22.9	979.2	520	540	2	258
20/04/2008	17:18:00	30.1	23.2	22.8	979.4	540	560	2	285
20/04/2008	17:20:00	30.1	23.1	22.8	979.2	560	580	2	306
20/04/2008	17:30:00	29.7	22.4	22.6	979.4	580	650	2	392
20/04/2008	17:41:00	29.4	22.4	22.4	979.8	650	730	2	488
20/04/2008	17:57:00	29.5	23.3	22.2	980.2	730	850	2	623
20/04/2008	18:14:00	30.1	24.2	22.1	980.3	850	960	2	735
20/04/2008	18:38:00	31.0	23.7	22.0	980.3	960	1110	2	888
20/04/2008	18:59:00	31.2	22.4	22.0	980.3	1110	1210	2	997
21/04/2008	06:02:00	32.0	19.1	19.6	981.7	100	1500	2	2398
21/04/2008	07:09:00	32.5	21.2	17.9	982.4	100	360	2	2421
21/04/2008	09:09:00	34.3	24.5	20.6	981.9	360	510	2	2553
21/04/2008	11:25:00	33.5	27.3	21.7	974.6	510	580	2	2602
21/04/2008	18:47:00	33.0	25.1	25.3	978.6	590	870	2	2944
22/04/2008	19:26:00	31.9	25.7	22.3	980.7	100	860	2	3675
24/04/2008	07:37:00	33.6	17.8	15.6	980.3	100	1050	2	4585
25/04/2008	07:12:00	32.4	18.4	16.7	976.0	100	610	2	4976
26/04/2008	13:19:00	35.0	29.6	21.7	972.9	100	150	2	4976
07/05/2008	08:56:00	37.8	25.4	25.0	1020.9	200	340	2	5364
09/05/2008	15:53:00	34.0	24.5	22.7	1025.3	200	530	2	5807
10/05/2008	15:29:00	28.9	27.1	24.0	1024.4	200	270	2	5912

Arrow Energy Plainview 3 - Sample PV3ED236 - 327.870 to 328.800 metres

Date	Time	Temperature (°C)			Abs. Air Pressure (hPa)	Inverted Cylinder			Cumulative Q2 (cc at STP)
		Canister	Air	H ₂ O		Start (cc)	Finish (cc)	Size	
11/05/2008	16:21:00	31.2	25.8	23.6	1026.3	200	260	2	5936
12/05/2008	10:58:00	34.0	24.4	24.1	1028.2	200	430	2	6148
13/05/2008	11:46:00	30.8	23.0	20.1	1027.8	200	200	2	6161
15/05/2008	10:42:00	34.9	23.7	22.4	1027.3	200	540	2	6475
19/05/2008	11:23:00	33.8	21.7	20.2	1021.5	200	590	2	6849
25/05/2008	17:16:00	36.6	22.9	21.4	1031.1	100	295	2	6986
04/06/2008	16:17:00	37.6	22.1	21.6	1022.4	100	300	2	7112
07/06/2008	11:51:00	35.7	26.0	21.9	1030.0	200	210	2	7180
30/06/2008	11:42:00	28.4	22.5	24.9	1021.9	100	130	2	7279

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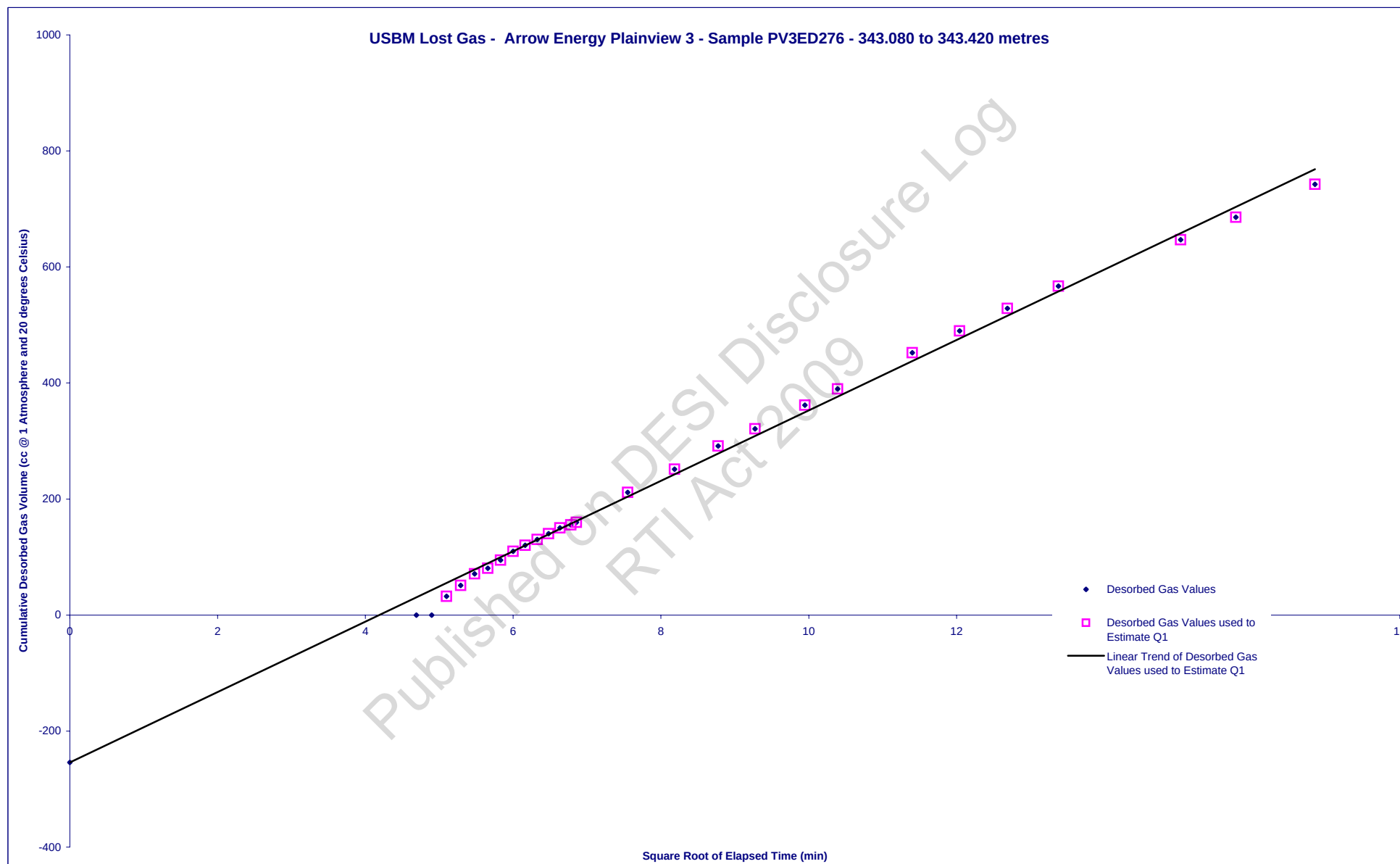
Arrow Energy Plainview 3 - Sample PV3ED276 - 343.080 to 343.420 metres

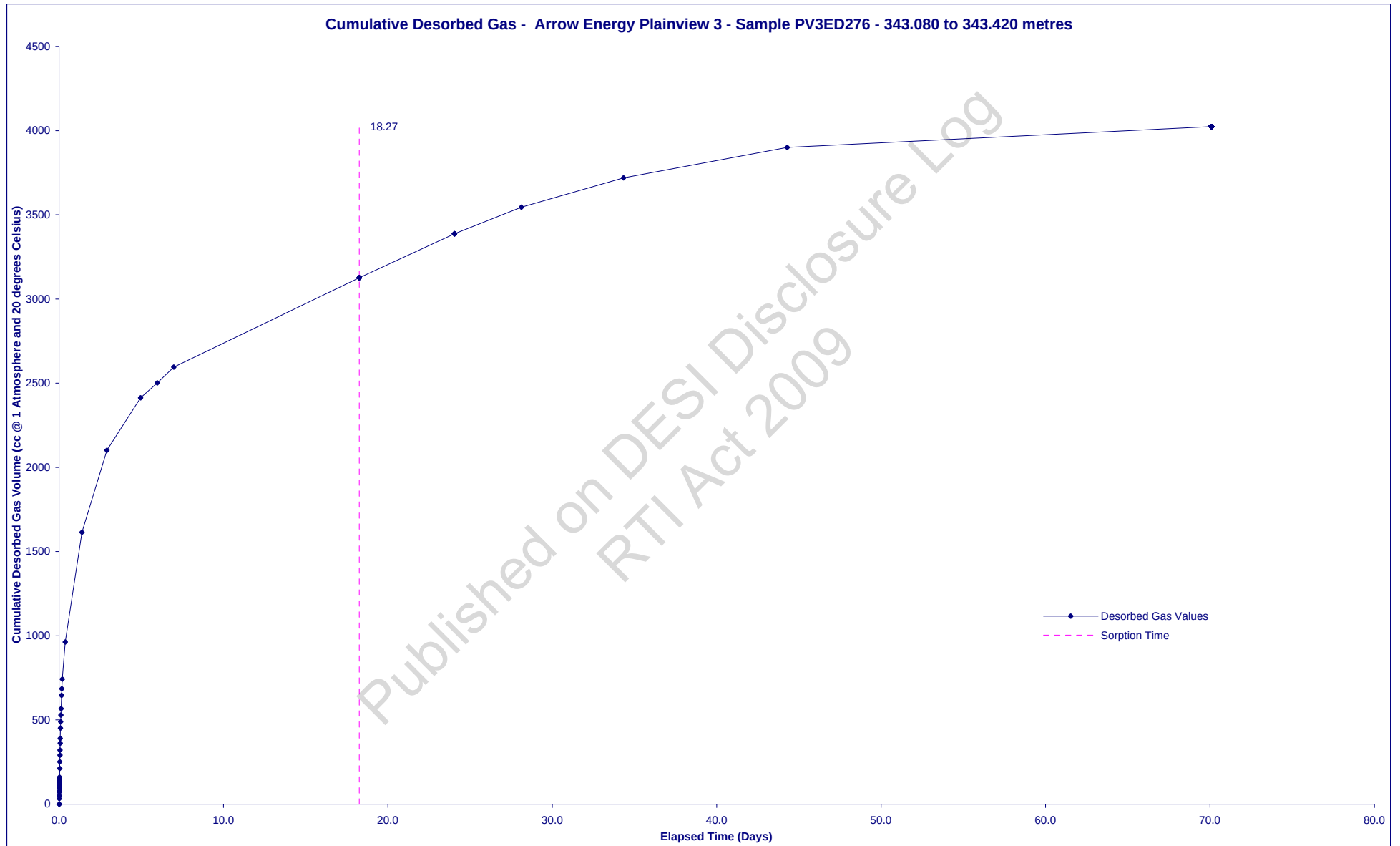
Hole Name	Plainview 3		Operator	Arrow Energy		Basin	Surat	State	QLD	
Sample ID	PV3ED276		Sample Type	Core	Sample Top (m)	343.080	Sample Base (m)	343.420	Core Diameter (cm)	6.35
Sample Volume (cc)	1077	Mass (g)	1580	RD (g/cc)	1.66	Moisture (%ad)	5.7	Ash (%ad)	24.1	
Q3 Volume (cc@STP)	140.26	Q3 Mass (g)	200.00	Q3 <212 μm (%)	100	Q3 Moisture (%ad)	5.7	Q3 Ash (%ad)	24.1	
Can Length (cm)	57	Can Diameter (cm)	10	Can Volume (cc)	4477	Can Void (cc)	3270	Tubing Void (cc)	31	
Date and Time	DD/MM/YY	HH:MM	Mud Weight (ppg)		8.3454	Trip Rate (m/min)		49.1	Minimum Q1 Point	
Sample Penetrated	21/04/2008	09:10	Formation Pressure (Mpa) @ 0.433 psi/ft		3.36	Surface Time Ratio		0.682	3	
Sample Off Bottom	21/04/2008	09:38	Formation Pressure Gradient (psi/ft)		0.433	Lost Time Ratio		0.042	Maximum Q1 Point	
Sample at Surface	21/04/2008	09:45	Depth HSP=Formation Pressure (m)		342.66	USBM Q1 - Surface Time Correction		1.225	27	
Sample Sealed	21/04/2008	10:00	Formation Temperature (°C)			Smith & Williams Q1 - Q2 Multiplier		1.000	Q1 Points Plotted	
Time Zero	21/04/2008	09:38	Standard Temperature (°C)		20.00	Comments:			27	
Last Entry	30/06/2008	11:35	Standard Pressure (hPa)		1013				-254	
Network	Uncorrected USBM Q1	Corrected USBM Q1	Smith & Williams Q1	Q2	Q3	Uncorrected USBM Q1+Q2+Q3	Corrected USBM Q1+Q2+Q3	Smith and Williams Q1+Q2+Q3	Canister Head Space ○ Volumetric ● He Reference	
m³	0.000	0.000	0.000	0.004	0.000140				Time Zero Calculation ● Auto ○ Manual ○ Cut Time	
m³/tonne (raw)	0.16	0.20	0.00	2.55	0.70					
SCF/T (raw)	5	6	0	82	22					
m³/tonne (daf)	0.23	0.28	0.00	3.63	1.00	4.86	4.91	4.63		
SCF/T (daf)	7	9	0	116	32	156	157	148		
Percent of daf total	4.72%	5.72%	0.00%	73.92%	Sorption Time (days)	18.27	Diffusivity (sec⁻¹)	1.08478E-05		
Date	Time	Temperature (°C)			Abs: Air Pressure (hPa)	Inverted Cylinder			Cumulative Q2 (cc at STP)	
DD/MM/YY	HH:MM	Canister	Air	H₂O		Start (cc)	Finish (cc)	Size		
21/04/2008	10:00:00	33.9	25.2	20.8	981.3	100	100	2	0	
21/04/2008	10:02:00	33.3	25.3	19.8	981.3	100	220	2	0	
21/04/2008	10:04:00	33.1	25.4	19.8	981.3	220	250	2	32	
21/04/2008	10:06:00	33.2	25.5	19.9	981.1	250	270	2	51	
21/04/2008	10:08:00	33.2	25.5	19.9	981.1	270	290	2	71	
21/04/2008	10:10:00	33.2	25.6	20.0	980.9	290	300	2	81	
21/04/2008	10:12:00	33.3	25.8	20.1	980.9	300	315	2	95	
21/04/2008	10:14:00	33.3	25.8	20.2	980.9	315	330	2	110	
21/04/2008	10:16:00	33.3	25.9	20.3	980.9	330	340	2	120	
21/04/2008	10:18:00	33.3	25.9	20.4	980.9	340	350	2	130	
21/04/2008	10:20:00	33.3	26.0	20.5	980.9	350	360	2	140	
21/04/2008	10:22:00	33.3	26.0	20.5	980.9	360	370	2	150	
21/04/2008	10:24:00	33.3	26.1	20.7	980.9	370	375	2	155	
21/04/2008	10:25:00	33.3	26.1	20.7	980.7	375	380	2	160	
21/04/2008	10:35:00	33.2	26.3	20.9	980.7	380	430	2	212	
21/04/2008	10:45:00	33.2	26.5	21.1	980.5	430	470	2	251	
21/04/2008	10:55:00	33.2	26.7	21.3	980.3	470	510	2	291	
21/04/2008	11:04:00	33.2	26.8	21.4	980.0	510	540	2	321	
21/04/2008	11:17:00	33.1	27.1	21.6	979.8	540	580	2	362	
21/04/2008	11:26:00	33.2	27.4	21.7	979.4	580	610	2	390	
21/04/2008	11:48:00	33.0	27.7	22.0	979.2	610	670	2	452	
21/04/2008	12:03:00	33.1	28.2	22.2	978.6	670	710	2	490	
21/04/2008	12:19:00	33.1	28.4	22.5	978.1	710	750	2	529	
21/04/2008	12:37:00	33.2	29.0	22.9	977.7	750	790	2	567	
21/04/2008	13:24:00	32.9	29.2	23.8	976.4	790	870	2	647	
21/04/2008	13:47:00	33.1	30.0	24.2	976.5	870	910	2	686	
21/04/2008	14:22:00	33.2	30.6	25.0	975.6	910	970	2	742	
21/04/2008	18:41:00	32.4	25.2	25.3	978.6	100	390	2	962	
22/04/2008	19:02:00	31.6	23.9	24.3	980.2	100	750	2	1615	
24/04/2008	07:31:00	34.7	17.3	16.0	980.3	100	660	2	2102	
26/04/2008	08:46:00	32.5	22.3	17.4	977.1	100	450	2	2413	
27/04/2008	08:52:00	33.5	22.3	16.9	975.6	560	650	2	2502	

Arrow Energy Plainview 3 - Sample PV3ED276 - 343.080 to 343.420 metres

Date	Time	Temperature (°C)			Abs. Air Pressure (hPa)	Inverted Cylinder			Cumulative Q2 (cc at STP)
		Canister	Air	H ₂ O		Start (cc)	Finish (cc)	Size	
28/04/2008	09:11:00	33.5	22.1	19.8	977.7	680	760	2	2595
29/04/2008	07:55:00	34.5	17.8	14.9	984.0	840	940	2	2720
30/04/2008	16:12:00	33.8	29.4	19.1	979.4	450	500	2	2720
07/05/2008	18:05:00	34.4	22.6	18.6	1018.8	200	370	2	2990
09/05/2008	16:00:00	37.0	23.1	22.4	1025.3	200	350	2	3126
10/05/2008	16:25:00	29.6	25.3	23.5	1024.6	200	250	2	3236
11/05/2008	16:33:00	35.9	24.7	23.0	1026.5	200	270	2	3245
12/05/2008	11:19:00	37.7	23.0	23.6	1028.4	200	260	2	3290
13/05/2008	12:12:00	33.4	22.1	20.7	1026.9	200	130	2	3290
15/05/2008	11:02:00	38.1	23.4	22.2	1026.9	200	330	2	3387
19/05/2008	12:24:00	37.0	21.8	20.0	1020.5	200	370	2	3545
25/05/2008	17:38:00	35.6	22.8	21.4	1031.0	100	245	2	3720
04/06/2008	16:30:00	36.8	21.6	21.5	1022.8	100	320	2	3900
07/06/2008	12:40:00	37.1	26.6	22.2	1029.6	100	110	2	3906
30/06/2008	11:35:00	28.3	23.8	20.8	1022.3	100	150	2	4023

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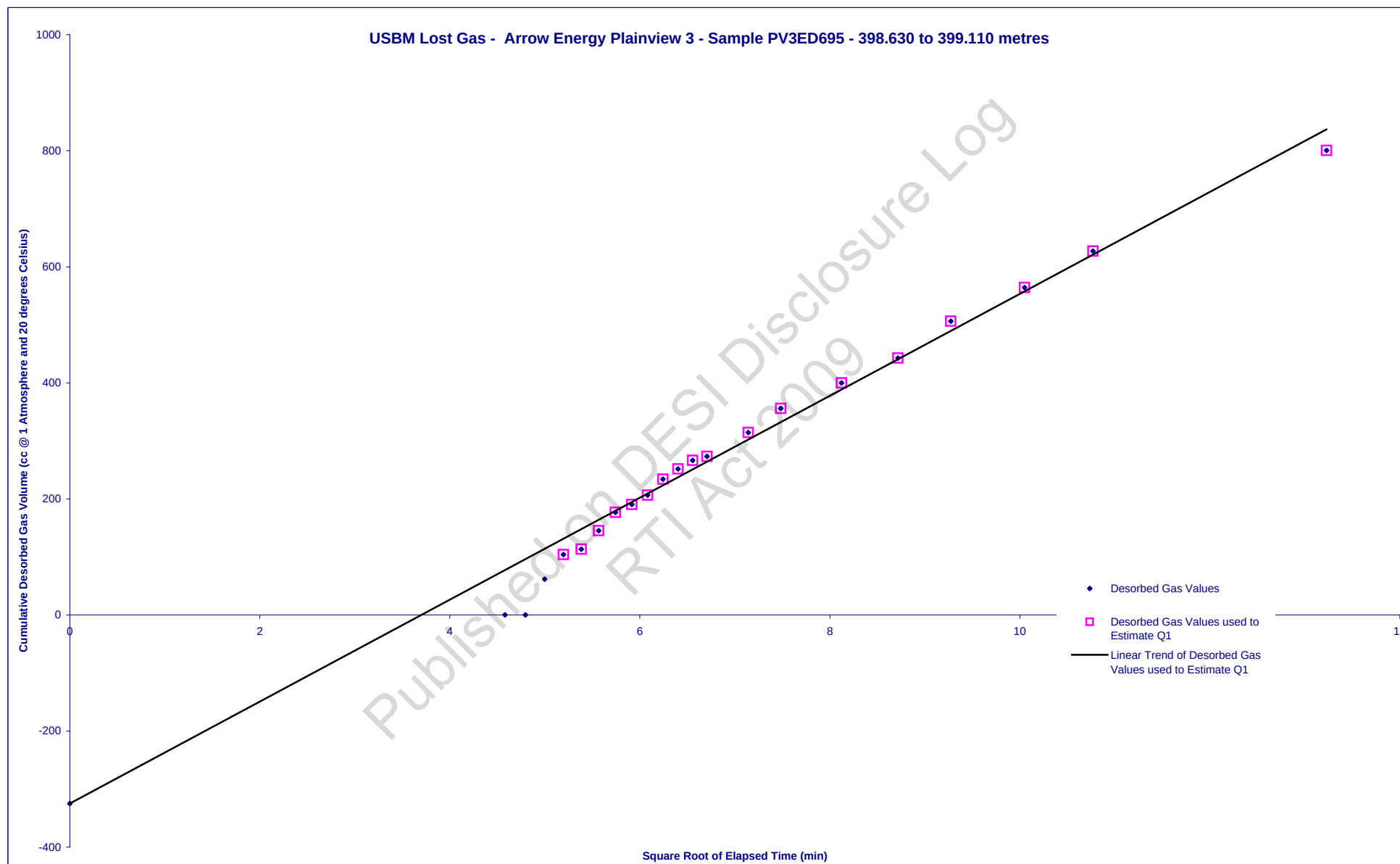
Arrow Energy Plainview 3 - Sample PV3ED695 - 398.630 to 399.110 metres

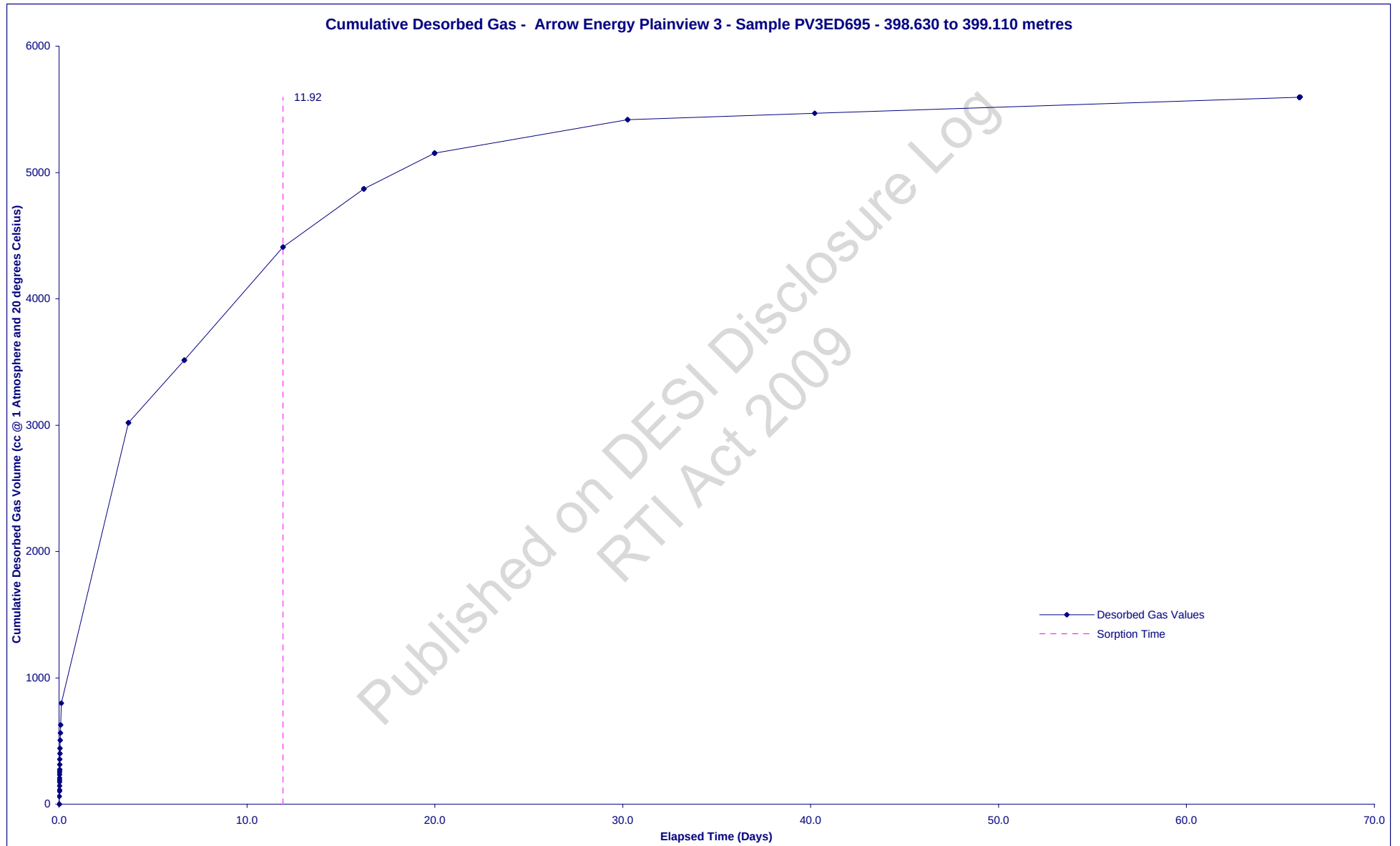
Hole Name	Plainview 3		Operator	Arrow Energy		Basin	Surat	State	QLD	
Sample ID	PV3ED695	Sample Type	Core	Sample Top (m)	398.630	Sample Base (m)	399.110	Core Diameter (cm)	6.35	
Sample Volume (cc)	1520	Mass (g)	2156	RD (g/cc)	1.73	Moisture (%ad)	8.1	Ash (%ad)	17.7	
Q3 Volume (cc@STP)	155.62	Q3 Mass (g)	200.00	Q3 <212 µm (%)	100	Q3 Moisture (%ad)	8.1	Q3 Ash (%ad)	17.7	
Can Length (cm)	57	Can Diameter (cm)	10	Can Volume (cc)	4477	Can Void (cc)	7838	Tubing Void (cc)	31	
Date and Time	DD/MM/YY	HH:MM	Mud Weight (ppg)			8.3454	Trip Rate (m/min)		44.3	Minimum Q1 Point
Sample Penetrated	22/04/2008	15:52	Formation Pressure (Mpa) @ 0.433 psi/ft			3.90	Surface Time Ratio		0.572	4
Sample Off Bottom	22/04/2008	16:04	Formation Pressure Gradient (psi/ft)			0.433	Lost Time Ratio		0.136	Maximum Q1 Point
Sample at Surface	22/04/2008	16:13	Depth HSP=Formation Pressure (m)			398.14	USBM Q1 - Surface Time Correction		1.18	21
Sample Sealed	22/04/2008	16:25	Formation Temperature (°C)				Smith & Williams Q1 - Q2 Multiplier		1.040	Q1 Points Plotted
Time Zero	22/04/2008	16:04	Standard Temperature (°C)			20.00	Comments: 2.79 day time compression used between 30/04/2008:16:12 and			21
Last Entry	27/06/2008	16:51	Standard Pressure (hPa)			1013	7/05/2008:09:10			-325
Network	Uncorrected USBM Q1	Corrected USBM Q1	Smith & Williams Q1	Q2	Q3	Uncorrected USBM Q1+Q2+Q3	Corrected USBM Q1+Q2+Q3	Smith and Williams Q1+Q2+Q3	Canister Head Space ○ Volumetric ● He Reference	
m³	0.000	0.000	0.000	0.006	0.000156					
m³/tonne (raw)	0.15	0.18	0.10	2.60	0.78				Time Zero Calculation	
SCF/T (raw)	5	6	3	83	25					
m³/tonne (daf)	0.20	0.24	0.14	3.50	1.05	4.75	4.79	4.69	● Auto	
SCF/T (daf)	7	8	4	112	34	152	153	150	○ Manual	
Percent of daf total	4.27%	5.00%	2.99%	73.08%	Sorption Time (days)	11.92	Diffusivity (sec ⁻¹)	1.14814E-05	○ Cut Time	
Date	Time	Temperature (°C)			Abs. Air Pressure (hPa)	Inverted Cylinder			Cumulative Q2 (cc at STP)	
DD/MM/YY	HH:MM	Canister	Air	H ₂ O		Start (cc)	Finish (cc)	Size		
22/04/2008	16:25:00	29.9	29.3	25.7	977.3	100	100	2	0	
22/04/2008	16:27:00	31.5	29.3	25.7	977.3	100	320	2	0	
22/04/2008	16:29:00	31.8	29.3	25.7	977.3	320	380	2	62	
22/04/2008	16:31:00	32.0	29.1	25.6	977.5	380	420	2	104	
22/04/2008	16:33:00	32.6	29.0	25.5	977.5	420	440	2	113	
22/04/2008	16:35:00	32.7	28.8	25.4	977.5	440	470	2	145	
22/04/2008	16:37:00	32.4	28.8	25.3	977.7	470	490	2	177	
22/04/2008	16:39:00	32.3	28.8	25.3	977.7	490	500	2	191	
22/04/2008	16:41:00	32.6	28.8	25.2	977.7	500	520	2	207	
22/04/2008	16:43:00	32.4	28.7	25.2	977.7	520	540	2	234	
22/04/2008	16:45:00	32.7	28.8	25.1	977.9	540	560	2	252	
22/04/2008	16:47:00	33.0	28.9	25.1	977.7	560	580	2	266	
22/04/2008	16:49:00	33.2	28.9	25.1	977.7	580	590	2	273	
22/04/2008	16:55:00	33.4	28.7	25.1	977.7	590	630	2	315	
22/04/2008	17:00:00	33.1	28.4	24.9	977.7	630	660	2	356	
22/04/2008	17:10:00	33.7	27.7	24.8	977.7	660	710	2	400	
22/04/2008	17:20:00	33.8	27.0	24.7	977.5	710	750	2	443	
22/04/2008	17:30:00	33.2	26.4	24.5	977.9	750	790	2	506	
22/04/2008	17:45:00	33.4	25.5	24.4	978.4	790	840	2	564	
22/04/2008	18:00:00	33.3	24.6	24.4	978.6	840	890	2	627	
22/04/2008	18:59:00	33.0	23.8	24.3	980.2	890	1020	2	800	
23/04/2008	08:57:00	36.2	24.1	18.3	980.7	100	1530	2	2215	
24/04/2008	07:30:00	33.6	17.2	16.0	980.3	100	740	2	2678	
26/04/2008	08:46:00	35.1	22.3	17.4	977.1	100	580	2	3020	
27/04/2008	08:52:00	34.5	22.3	16.9	975.6	680	750	2	3130	
28/04/2008	09:11:00	33.3	22.1	19.8	977.7	920	960	2	3265	
29/04/2008	07:55:00	34.8	17.8	14.9	984.0	980	1170	2	3515	
30/04/2008	16:12:00	33.9	29.4	19.1	979.4	340	340	2	3515	
07/05/2008	09:10:00	40.7	24.8	23.6	1021.5	200	830	2	4409	
09/05/2008	16:14:00	35.9	22.7	22.4	1025.7	200	360	2	4593	
10/05/2008	15:52:00	30.3	26.1	24.0	1024.4	200	230	2	4715	
11/05/2008	16:24:00	34.1	25.1	22.9	1026.3	200	400	2	4869	

Arrow Energy Plainview 3 - Sample PV3ED695 - 398.630 to 399.110 metres

Date	Time	Temperature (°C)			Abs. Air Pressure (hPa)	Inverted Cylinder			Cumulative Q2 (cc at STP)
		Canister	Air	H ₂ O		Start (cc)	Finish (cc)	Size	
DD/MM/YY	HH:MM								
12/05/2008	11:03:00	37.0	23.2	23.6	1028.4	200	320	2	4909
13/05/2008	11:55:00	33.1	23.0	20.1	1027.7	200	300	2	5090
15/05/2008	10:48:00	38.2	23.4	22.3	1027.1	200	380	2	5153
19/05/2008	11:29:00	38.1	21.6	20.2	1021.3	200	310	2	5198
25/05/2008	17:16:00	37.5	22.9	21.4	1031.1	100	250	2	5417
04/06/2008	16:17:00	39.0	22.1	21.6	1022.4	100	260	2	5469
07/06/2008	11:51:00	36.0	26.0	21.9	1030.0	200	210	2	5595
30/06/2008	11:49:00	37.5	22.5	20.9	1021.9	200	100	2	5595

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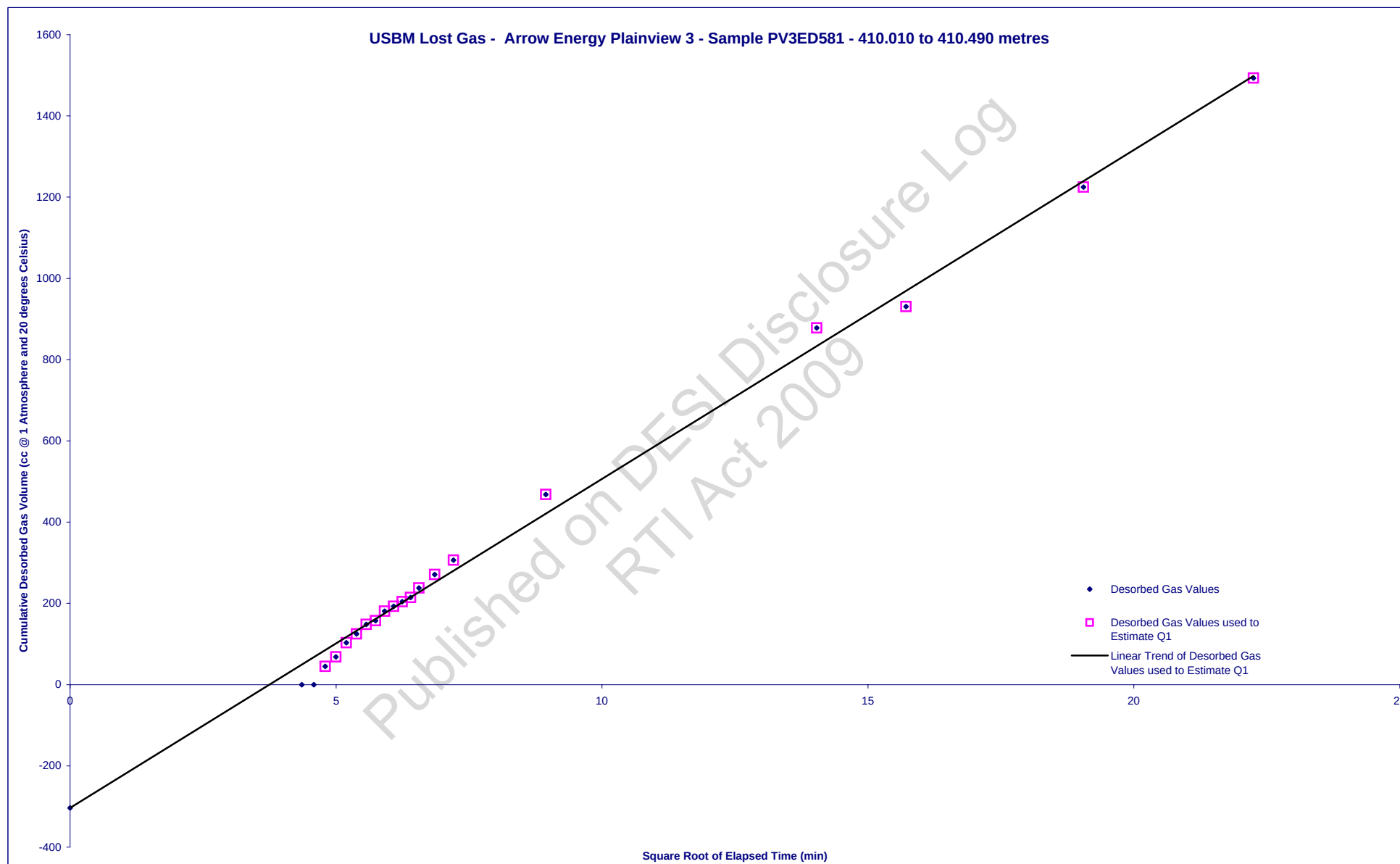
Arrow Energy Plainview 3 - Sample PV3ED581 - 410.010 to 410.490 metres

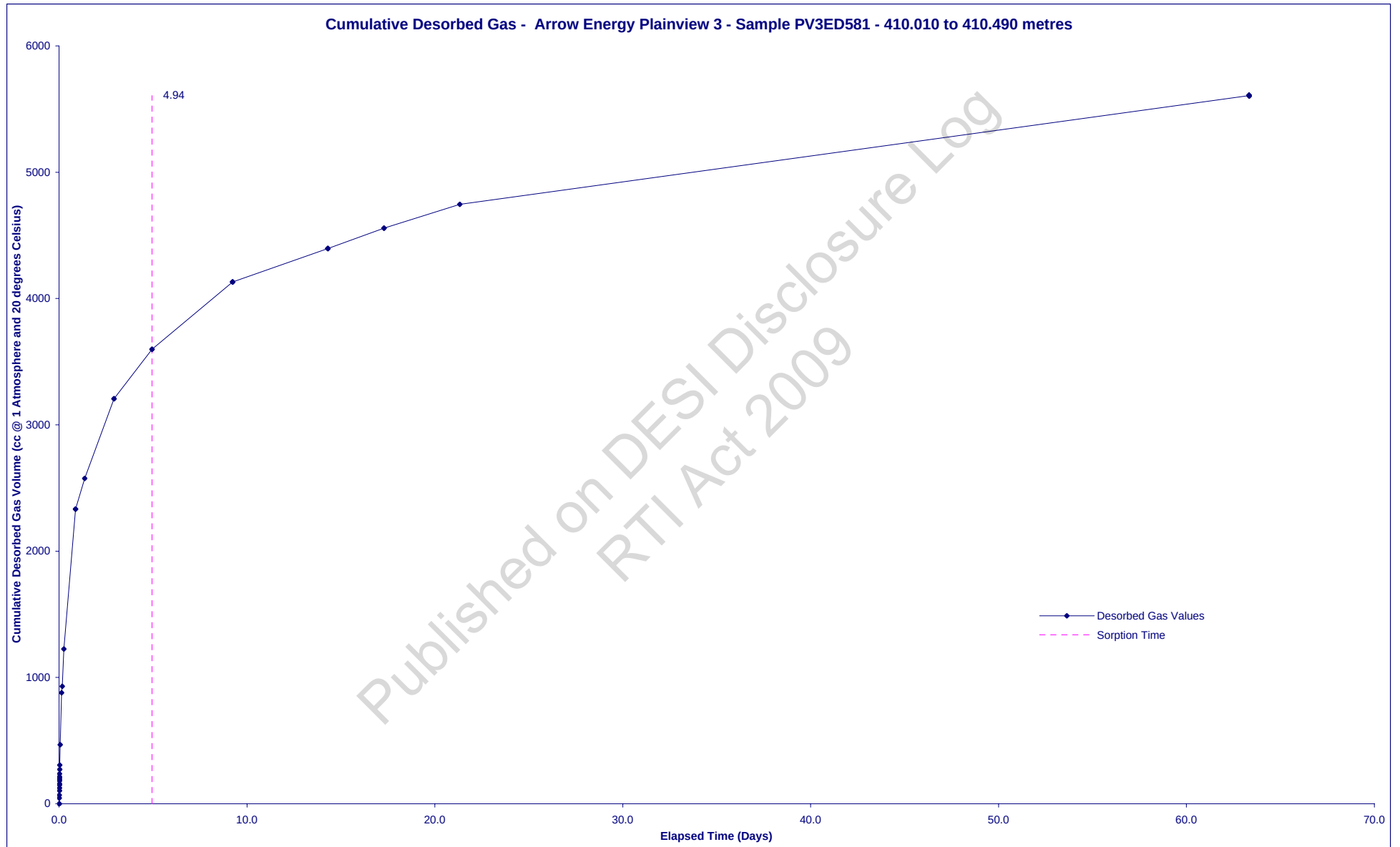
Hole Name	Plainview 3		Operator	Arrow Energy		Basin	Surat	State	QLD
Sample ID	PV3ED581	Sample Type	Core	Sample Top (m)	410.010	Sample Base (m)	410.490	Core Diameter (cm)	6.35
Sample Volume (cc)	1520	Mass (g)	2000	RD (g/cc)	1.61	Moisture (%ad)	5.7	Ash (%ad)	35.8
Q3 Volume (cc@STP)	94.69	Q3 Mass (g)	200.00	Q3 <212 µm (%)	100	Q3 Moisture (%ad)	5.7	Q3 Ash (%ad)	35.8
Can Length (cm)	57	Can Diameter (cm)	10	Can Volume (cc)	4477	Can Void (cc)	8279	Tubing Void (cc)	31
Date and Time	DD/MM/YY	HH:MM		Mud Weight (ppg)	8.3454	Trip Rate (m/min)		45.6	Minimum Q1 Point
Sample Penetrated	23/04/2008	10:04	Formation Pressure (Mpa) @ 0.433 psi/ft		4.02	Surface Time Ratio		0.527	3
Sample Off Bottom	23/04/2008	10:28	Formation Pressure Gradient (psi/ft)		0.433	Lost Time Ratio		0.055	Maximum Q1 Point
Sample at Surface	23/04/2008	10:37	Depth HSP=Formation Pressure (m)		409.51	USBM Q1 - Surface Time Correction		1.15	20
Sample Sealed	23/04/2008	10:47	Formation Temperature (°C)			Smith & Williams Q1 - Q2 Multiplier		1.000	Q1 Points Plotted
Time Zero	23/04/2008	10:28	Standard Temperature (°C)		20.00	Comments: 4.72 day time compression used between 30/04/2008:16:10 and 7/05/2008:09:30			20
Last Entry	25/06/2008	18:29	Standard Pressure (hPa)		1013				-303
Network	Uncorrected USBM Q1	Corrected USBM Q1	Smith & Williams Q1	Q2	Q3	Uncorrected USBM Q1+Q2+Q3	Corrected USBM Q1+Q2+Q3	Smith and Williams Q1+Q2+Q3	Canister Head Space
m³	0.000	0.000	0.000	0.006	0.000095				☐ Volumetric
m³/tonne (raw)	0.15	0.17	0.00	2.80	0.47				☒ He Reference
SCF/T (raw)	5	6	0	90	15				Time Zero Calculation
m³/tonne (daf)	0.26	0.30	0.00	4.79	0.81	5.86	5.90	5.60	
SCF/T (daf)	8	10	0	154	26	188	189	179	
Percent of daf total	4.42%	5.05%	0.00%	81.23%	Sorption Time (days)		4.94	Diffusivity (sec⁻¹)	1.20152E-05
Date	Time	Temperature (°C)		Abs: Air Pressure (hPa)		Inverted Cylinder		Cumulative Q2 (cc at STP)	
DD/MM/YY	HH:MM	Canister	Air	H₂O		Start (cc)	Finish (cc)	Size	
23/04/2008	10:47:00	32.5	26.8	20.9	979.8	100	100	2	0
23/04/2008	10:49:00	33.5	26.8	20.3	980.0	100	290	2	0
23/04/2008	10:51:00	33.5	26.9	20.5	979.8	290	330	2	45
23/04/2008	10:53:00	33.5	26.9	20.5	979.8	330	350	2	68
23/04/2008	10:55:00	33.5	26.9	20.5	979.8	350	380	2	103
23/04/2008	10:57:00	33.5	27.1	20.6	979.6	380	400	2	125
23/04/2008	10:59:00	33.5	27.1	20.6	979.6	400	420	2	148
23/04/2008	11:01:00	33.6	27.2	20.6	979.6	420	430	2	158
23/04/2008	11:03:00	33.6	27.3	20.7	979.6	430	450	2	181
23/04/2008	11:05:00	33.6	27.3	20.7	979.6	450	460	2	193
23/04/2008	11:07:00	33.6	27.4	20.7	979.6	460	470	2	204
23/04/2008	11:09:00	33.6	27.4	20.8	979.4	470	480	2	214
23/04/2008	11:11:00	33.6	27.5	20.8	979.4	480	500	2	238
23/04/2008	11:15:00	33.6	27.5	20.9	979.2	500	530	2	271
23/04/2008	11:20:00	33.6	27.7	21.0	979.2	530	560	2	306
23/04/2008	11:48:00	33.1	27.5	21.3	978.8	560	690	2	468
23/04/2008	13:45:00	32.1	28.2	23.3	977.3	720	1050	2	878
23/04/2008	14:35:00	33.9	28.9	23.6	977.1	100	400	2	931
23/04/2008	16:31:00	33.7	27.6	24.3	977.5	420	660	2	1225
23/04/2008	18:43:00	34.8	25.6	23.3	978.8	660	900	2	1493
24/04/2008	07:28:00	33.2	17.0	15.8	980.3	100	920	2	2334
24/04/2008	19:12:00	32.1	21.5	22.2	977.1	960	1150	2	2576
25/04/2008	10:01:00	33.1	24.9	19.0	974.8	100	550	2	2783
26/04/2008	08:43:00	34.0	21.9	17.4	977.1	100	560	2	3207
27/04/2008	08:49:00	33.9	22.1	16.9	975.8	100	430	2	3466
28/04/2008	09:08:00	34.7	22.0	19.7	977.7	100	290	2	3598
29/04/2008	07:57:00	36.9	17.7	15.2	984.0	740	1000	2	4036
30/04/2008	16:10:00	32.6	24.4	19.0	979.2	620	620	2	4036
07/05/2008	09:30:00	40.4	25.4	23.5	1021.3	200	250	2	4131
09/05/2008	16:28:00	35.9	22.4	22.3	1025.9	200	210	2	4281
10/05/2008	15:42:00	29.2	25.7	23.8	1024.0	200	70	2	4281
11/05/2008	16:27:00	32.8	24.9	23.1	1026.7	200	220	2	4281

Arrow Energy Plainview 3 - Sample PV3ED581 - 410.010 to 410.490 metres

Date	Time	Temperature (°C)			Abs. Air Pressure (hPa)	Inverted Cylinder			Cumulative Q2 (cc at STP)
		Canister	Air	H ₂ O		Start (cc)	Finish (cc)	Size	
DD/MM/YY	HH:MM								
12/05/2008	11:10:00	35.3	22.8	23.6	1028.4	200	340	2	4396
13/05/2008	12:00:00	31.7	22.6	20.2	1027.7	200	120	2	4396
15/05/2008	10:53:00	36.1	23.4	22.3	1027.1	200	410	2	4556
19/05/2008	11:46:00	35.7	21.3	20.0	1021.1	200	430	2	4745
25/05/2008	15:08:00	34.2	24.5	21.3	1031.1	100	310	2	5034
04/06/2008	16:15:00	33.9	22.4	21.5	1022.8	100	395	2	5280
07/06/2008	11:02:00	36.2	25.8	21.5	1020.5	100	120	2	5280
30/06/2008	11:49:00	32.2	22.7	25.1	1021.7	100	280	2	5606

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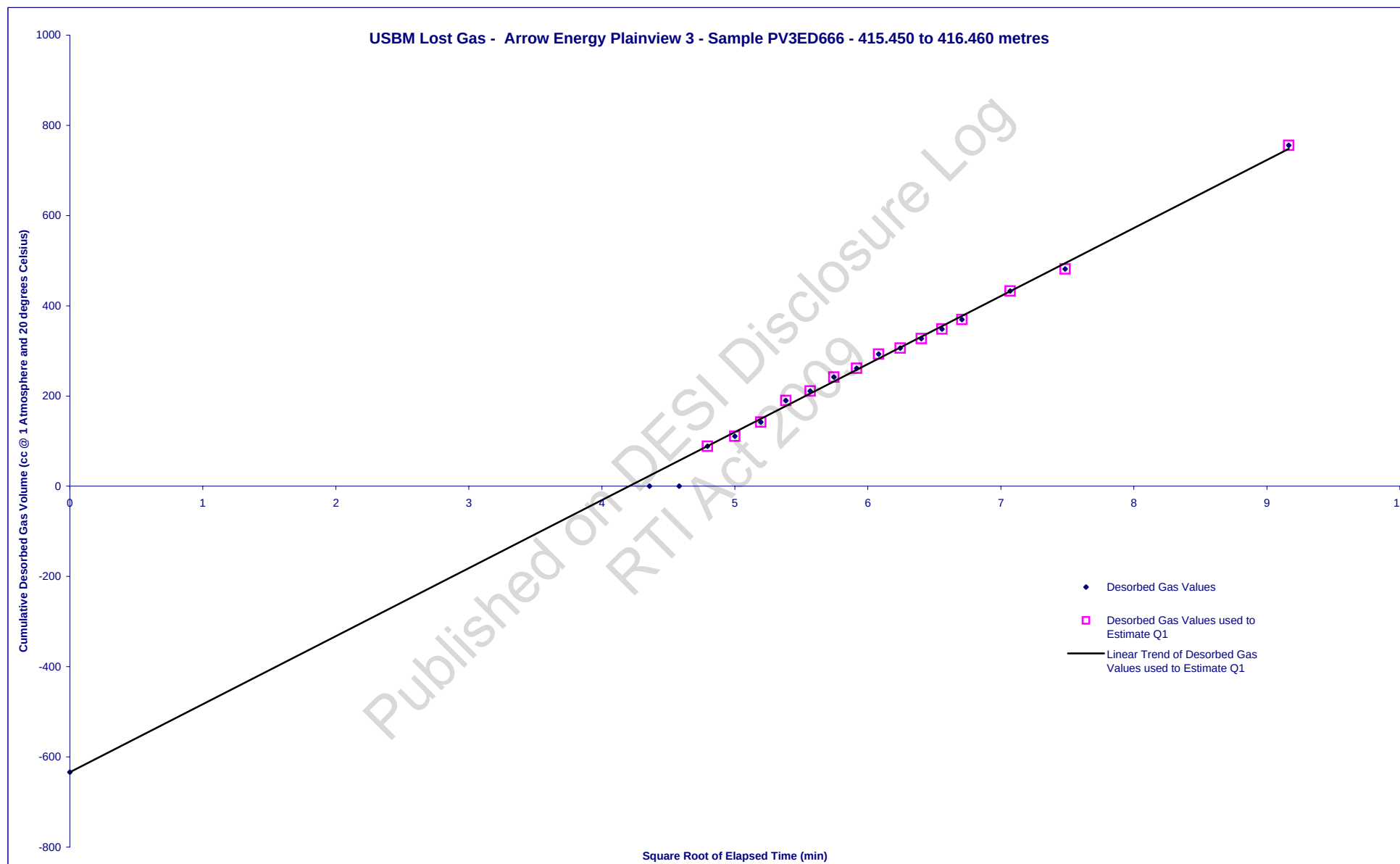
Arrow Energy Plainview 3 - Sample PV3ED666 - 415.450 to 416.460 metres

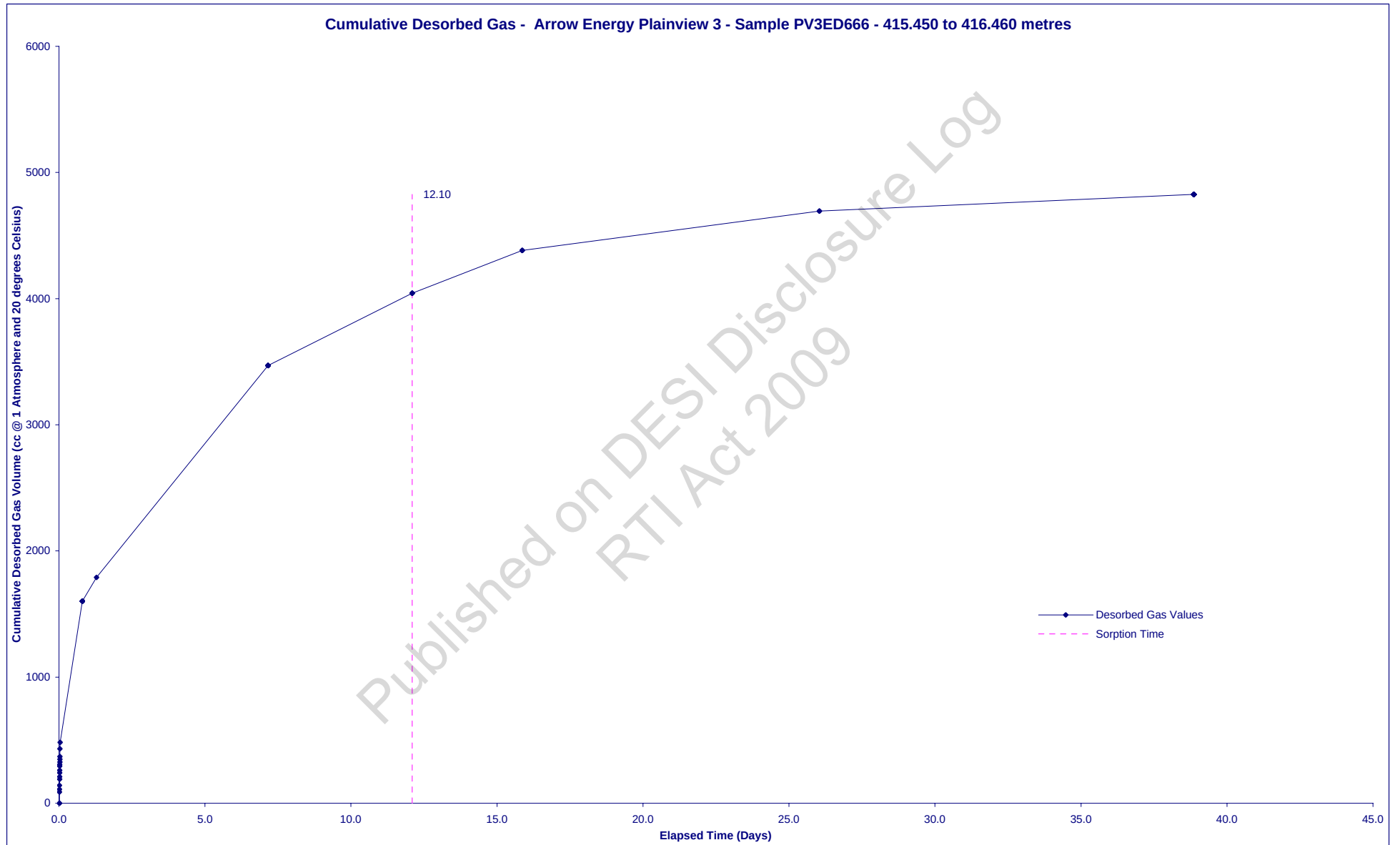
Hole Name	Plainview 3		Operator	Arrow Energy		Basin	Surat	State	QLD
Sample ID	PV3ED666	Sample Type	Core	Sample Top (m)	415.450	Sample Base (m)	416.460	Core Diameter (cm)	6.35
Sample Volume (cc)	3199	Mass (g)	4312	RD (g/cc)	1.55	Moisture (%ad)	5.3	Ash (%ad)	18.4
Q3 Volume (cc@STP)	95.35	Q3 Mass (g)	200.00	Q3 <212 µm (%)	100	Q3 Moisture (%ad)	5.3	Q3 Ash (%ad)	18.4
Can Length (cm)	107	Can Diameter (cm)	10	Can Volume (cc)	8404	Can Void (cc)	4669	Tubing Void (cc)	31
Date and Time	DD/MM/YY	HH:MM	Mud Weight (ppg)		8.3454	Trip Rate (m/min)		59.5	Minimum Q1 Point
Sample Penetrated	23/04/2008	11:39	Formation Pressure (Mpa) @ 0.433 psi/ft		4.07	Surface Time Ratio		0.632	3
Sample Off Bottom	23/04/2008	12:20	Formation Pressure Gradient (psi/ft)		0.433	Lost Time Ratio		0.095	Maximum Q1 Point
Sample at Surface	23/04/2008	12:27	Depth HSP=Formation Pressure (m)		414.94	USBM Q1 - Surface Time Correction		1.2	17
Sample Sealed	23/04/2008	12:39	Formation Temperature (°C)			Smith & Williams Q1 - Q2 Multiplier		1.040	Q1 Points Plotted
Time Zero	23/04/2008	12:20	Standard Temperature (°C)		20.00	Comments: 6.08 day time compression used between 30/04/2008:16:10 and			
Last Entry	01/06/2008	09:10	Standard Pressure (hPa)		1013	07/05/2008:18:02			
Network	Uncorrected USBM Q1	Corrected USBM Q1	Smith & Williams Q1	Q2	Q3	Uncorrected USBM Q1+Q2+Q3	Corrected USBM Q1+Q2+Q3	Smith and Williams Q1+Q2+Q3	Canister Head Space ○ Volumetric ● He Reference
m³	0.001	0.001	0.000	0.005	0.000095				Time Zero Calculation ● Auto ○ Manual ○ Cut Time
m³/tonne (raw)	0.15	0.18	0.04	1.12	0.48				
SCF/T (raw)	5	6	1	36	15				
m³/tonne (daf)	0.19	0.23	0.06	1.47	0.62	2.28	2.32	2.15	
SCF/T (daf)	6	7	2	47	20	73	74	69	
Percent of daf total	8.44%	9.96%	2.73%	63.15%	Sorption Time (days)	12.10	Diffusivity (sec ⁻¹)	3.39671E-05	
Date	Time	Temperature (°C)			Abs. Air Pressure (hPa)	Inverted Cylinder			Cumulative Q2 (cc at STP)
DD/MM/YY	HH:MM	Canister	Air	H ₂ O		Start (cc)	Finish (cc)	Size	
23/04/2008	12:39:00	27.9	27.9	22.2	977.5	100	100	2	0
23/04/2008	12:41:00	30.5	28.0	22.2	977.5	100	210	2	0
23/04/2008	12:43:00	30.9	28.0	22.3	977.5	210	300	2	88
23/04/2008	12:45:00	31.5	28.0	22.3	977.3	300	330	2	111
23/04/2008	12:47:00	31.5	28.0	22.4	977.3	330	360	2	142
23/04/2008	12:49:00	31.0	27.9	22.5	977.1	360	400	2	190
23/04/2008	12:51:00	31.0	27.9	22.4	977.1	400	420	2	211
23/04/2008	12:53:00	31.1	27.9	22.5	977.3	420	450	2	242
23/04/2008	12:55:00	31.2	27.9	22.6	977.3	450	470	2	261
23/04/2008	12:57:00	31.2	27.9	22.6	977.3	470	500	2	293
23/04/2008	12:59:00	31.7	28.0	22.8	977.1	500	520	2	306
23/04/2008	13:01:00	31.7	28.0	22.8	977.1	520	540	2	327
23/04/2008	13:03:00	31.7	28.0	22.7	977.1	540	560	2	348
23/04/2008	13:05:00	31.6	28.1	22.8	976.9	560	580	2	370
23/04/2008	13:10:00	31.7	28.0	22.9	977.1	580	640	2	432
23/04/2008	13:16:00	31.9	27.8	23.0	976.9	640	690	2	482
23/04/2008	13:44:00	32.2	28.1	23.3	977.3	690	950	2	756
23/04/2008	14:36:00	34.8	28.8	23.7	976.9	950	1210	2	996
23/04/2008	15:58:00	34.1	26.8	24.3	976.5	100	410	2	1164
23/04/2008	16:30:00	34.8	27.6	24.4	977.5	400	580	2	1347
23/04/2008	18:42:00	35.8	25.6	23.3	979.0	580	810	2	1587
24/04/2008	07:28:00	37.4	17.0	15.9	980.3	100	230	2	1601
24/04/2008	19:12:00	33.3	21.5	22.2	977.1	280	410	2	1790
25/04/2008	10:01:00	34.1	24.9	19.0	974.8	420	530	2	1887
26/04/2008	08:43:00	34.6	21.9	17.4	977.1	530	650	2	2019
27/04/2008	08:49:00	34.3	22.1	16.9	975.8	100	650	2	2525
28/04/2008	09:08:00	34.1	22.0	19.7	977.7	640	920	2	2839
29/04/2008	07:57:00	36.8	17.7	15.2	984.0	890	1150	2	3115
30/04/2008	16:10:00	32.7	24.4	19.0	979.2	810	1150	2	3470
07/05/2008	18:02:00	35.4	24.8	24.3	1018.6	200	290	2	3567
09/05/2008	16:42:00	35.5	22.1	22.2	1025.9	200	330	2	3730
10/05/2008	16:10:00	30.3	26.1	23.7	1024.0	200	310	2	3898

Arrow Energy Plainview 3 - Sample PV3ED666 - 415.450 to 416.460 metres

Date	Time	Temperature (°C)			Abs. Air Pressure (hPa)	Inverted Cylinder			Cumulative Q2 (cc at STP)
		Canister	Air	H ₂ O		Start (cc)	Finish (cc)	Size	
DD/MM/YY	HH:MM								
11/05/2008	16:31:00	32.9	24.8	23.1	1026.5	200	370	2	4042
12/05/2008	11:15:00	35.2	23.0	23.7	1028.2	200	320	2	4124
13/05/2008	12:15:00	30.1	22.5	20.2	1027.5	200	370	2	4367
15/05/2008	10:57:00	36.2	23.5	22.2	1027.1	200	320	2	4382
19/05/2008	11:52:00	36.3	21.2	20.3	1020.7	200	310	2	4455
25/05/2008	15:08:00	34.6	24.5	21.3	1031.1	100	280	2	4695
04/06/2008	16:15:00	34.0	22.4	21.5	1022.8	100	225	2	4777
07/06/2008	11:02:00	36.8	25.8	21.5	1020.5	100	210	2	4827

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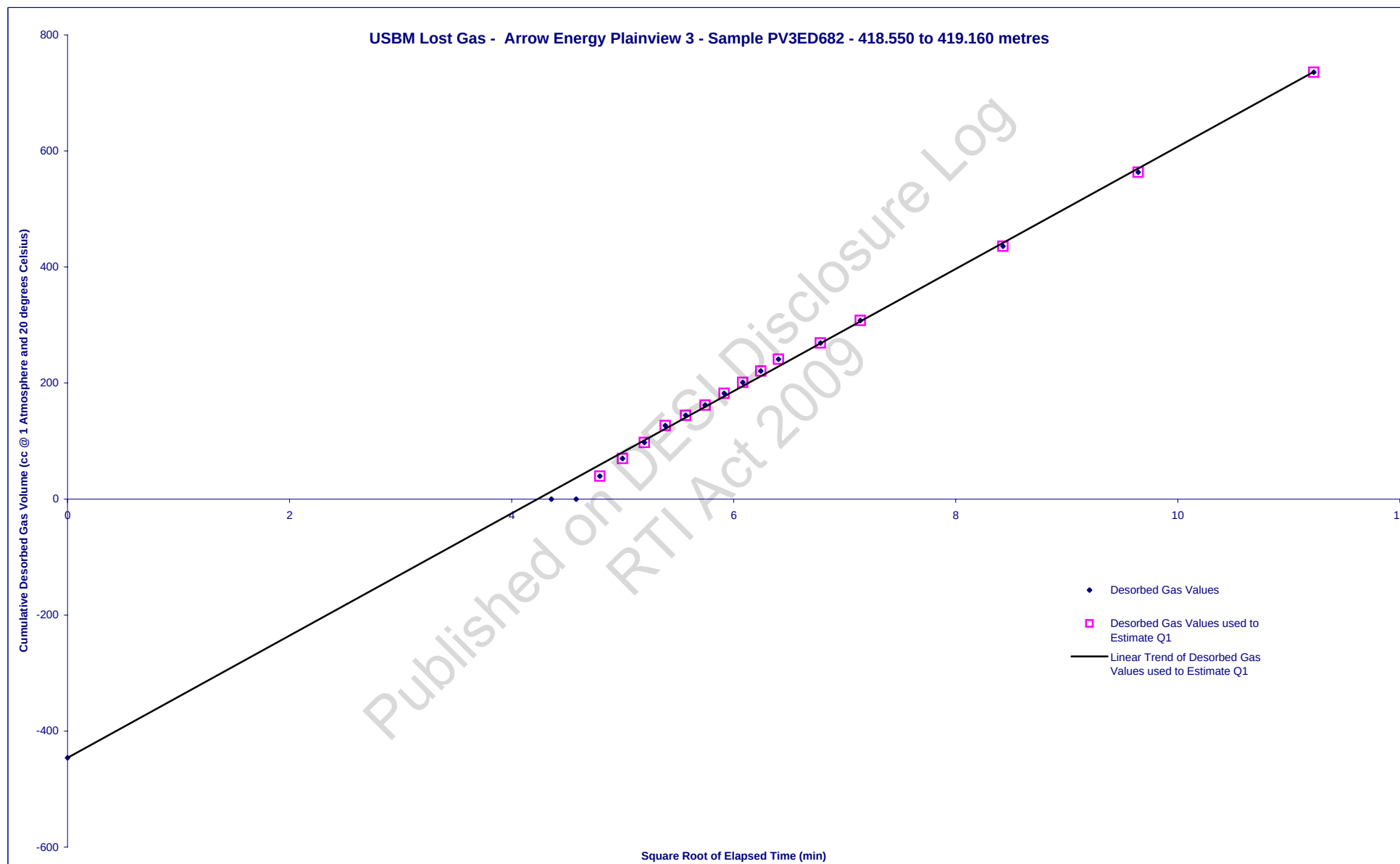
Arrow Energy Plainview 3 - Sample PV3ED682 - 418.550 to 419.160 metres

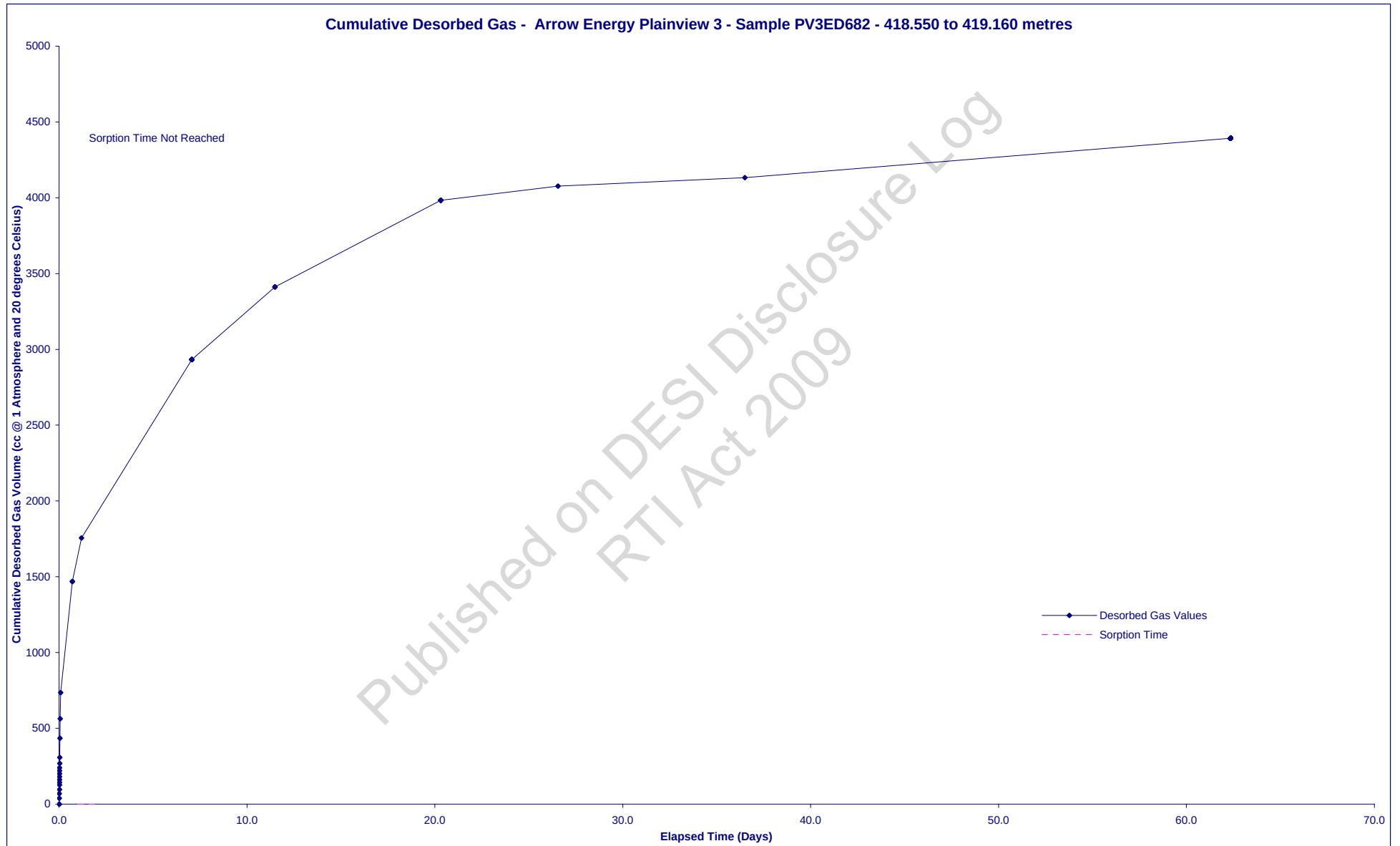
Hole Name	Plainview 3		Operator		Arrow Energy		Basin		Surat	State		QLD
Sample ID	PV3ED682	Sample Type	Core	Sample Top (m)		418.550	Sample Base (m)		419.160	Core Diameter (cm)		6.35
Sample Volume (cc)	1932	Mass (g)	2492	RD (g/cc)		1.54	Moisture (%ad)		6.4	Ash (%ad)		16.8
Q3 Volume (cc@STP)	246.57	Q3 Mass (g)	200.00	Q3 <212 µm (%)		100	Q3 Moisture (%ad)		6.4	Q3 Ash (%ad)		16.8
Can Length (cm)	107	Can Diameter (cm)	10	Can Volume (cc)		8404	Can Void (cc)		6340	Tubing Void (cc)		31
Date and Time	DD/MM/YY	HH:MM	Mud Weight (ppg)			8.3454	Trip Rate (m/min)			46.6	Minimum Q1 Point	
Sample Penetrated	23/04/2008	13:22	Formation Pressure (Mpa) @ 0.433 psi/ft			4.10	Surface Time Ratio			0.527	3	
Sample Off Bottom	23/04/2008	14:24	Formation Pressure Gradient (psi/ft)			0.433	Lost Time Ratio			0.177	Maximum Q1 Point	
Sample at Surface	23/04/2008	14:33	Depth HSP=Formation Pressure (m)			418.04	USBM Q1 - Surface Time Correction			1.15	17	
Sample Sealed	23/04/2008	14:43	Formation Temperature (°C)				Smith & Williams Q1 - Q2 Multiplier			1.090	Q1 Points Plotted	
Time Zero	23/04/2008	14:24	Standard Temperature (°C)			20.00	Comments: 5.58 day time compression used between 30/04/2008:16:10 and					17
Last Entry	24/06/2008	22:43	Standard Pressure (hPa)			1013	07/05/2008:18:02					-446
Network	Uncorrected USBM Q1	Corrected USBM Q1	Smith & Williams Q1	Q2		Q3	Uncorrected USBM Q1+Q2+Q3	Corrected USBM Q1+Q2+Q3	Smith and Williams Q1+Q2+Q3	Canister Head Space ○ Volumetric ● He Reference		
m³	0.000	0.001	0.000	0.004		0.000247						
m³/tonne (raw)	0.18	0.21	0.16	1.76		1.23				Time Zero Calculation		
SCF/T (raw)	6	7	5	56		39						
m³/tonne (daf)	0.23	0.27	0.21	2.29		1.61	4.13	4.17	4.11	● Auto		
SCF/T (daf)	7	9	7	74		51	132	134	132	○ Manual		
Percent of daf total	5.64%	6.43%	5.03%	55.06%		Sorption Time (days)	Not Reached	Diffusivity (sec ⁻¹)	1.52129E-05	○ Cut Time		
Date	Time	Temperature (°C)				Abs. Air Pressure (hPa)	Inverted Cylinder			Cumulative Q2 (cc at STP)		
DD/MM/YY	HH:MM	Canister	Air	H ₂ O			Start (cc)	Finish (cc)	Size			
23/04/2008	14:43:00	33.1	28.6	23.9	976.7	100	100	2	0			
23/04/2008	14:45:00	32.5	28.5	23.8	976.5	100	310	2	0			
23/04/2008	14:47:00	32.8	28.4	23.9	976.7	310	350	2	39			
23/04/2008	14:49:00	33.0	28.3	23.9	976.9	350	380	2	70			
23/04/2008	14:51:00	33.3	28.3	24.0	976.9	380	410	2	97			
23/04/2008	14:53:00	33.5	28.2	24.0	976.9	410	440	2	127			
23/04/2008	14:55:00	33.7	28.1	24.0	976.8	440	460	2	144			
23/04/2008	14:57:00	33.9	28.2	24.0	976.7	460	480	2	162			
23/04/2008	14:59:00	34.0	28.2	24.0	976.7	480	500	2	182			
23/04/2008	15:01:00	34.1	28.1	24.0	976.5	500	520	2	201			
23/04/2008	15:03:00	34.2	28.2	24.0	976.4	520	540	2	221			
23/04/2008	15:05:00	34.3	28.2	24.0	976.4	540	560	2	241			
23/04/2008	15:10:00	34.5	28.2	24.1	976.2	560	590	2	269			
23/04/2008	15:15:00	34.2	27.5	24.1	976.2	590	620	2	308			
23/04/2008	15:35:00	33.4	26.1	24.2	976.4	620	720	2	436			
23/04/2008	15:57:00	33.2	26.7	24.3	976.5	720	830	2	563			
23/04/2008	16:30:00	34.5	26.7	24.4	977.5	830	1000	2	736			
23/04/2008	18:41:00	36.0	25.6	23.3	979.0	990	1350	2	1125			
24/04/2008	07:26:00	37.4	16.8	16.0	980.5	100	640	2	1468			
24/04/2008	19:12:00	33.0	21.5	22.2	977.1	680	870	2	1755			
25/04/2008	10:01:00	33.7	24.9	19.0	974.8	100	310	2	1804			
26/04/2008	08:43:00	35.0	21.9	17.4	977.1	300	470	2	1983			
27/04/2008	08:49:00	34.5	22.1	16.9	975.8	100	250	2	2075			
28/04/2008	09:08:00	34.6	22.0	19.7	977.7	370	530	2	2290			
29/04/2008	07:57:00	35.8	17.7	15.2	984.0	580	760	2	2526			
30/04/2008	16:10:00	32.9	24.4	19.0	979.2	840	1160	2	2932			
07/05/2008	18:02:00	37.1	24.8	24.3	1018.6	200	330	2	3049			
09/05/2008	16:42:00	37.4	22.1	22.2	1025.9	200	380	2	3272			
10/05/2008	16:10:00	30.1	26.1	23.7	1024.0	200	240	2	3412			
11/05/2008	16:31:00	34.6	24.8	23.1	1026.5	200	430	2	3597			
12/05/2008	11:15:00	37.0	23.0	23.7	1028.2	200	310	2	3641			
13/05/2008	12:15:00	32.8	22.5	20.2	1027.5	200	380	2	3907			

Arrow Energy Plainview 3 - Sample PV3ED682 - 418.550 to 419.160 metres

Date	Time	Temperature (°C)			Abs. Air Pressure (hPa)	Inverted Cylinder			Cumulative Q2 (cc at STP)
		Canister	Air	H ₂ O		Start (cc)	Finish (cc)	Size	
DD/MM/YY	HH:MM								
15/05/2008	10:57:00	38.0	23.5	22.2	1027.1	200	310	2	3907
19/05/2008	11:52:00	38.7	21.2	20.3	1020.7	200	330	2	3982
25/05/2008	17:27:00	37.7	22.9	21.4	1030.9	100	150	2	4076
04/06/2008	16:21:00	38.5	22.4	21.5	1022.8	100	215	2	4133
07/06/2008	12:08:00	36.1	26.1	22.0	1030.0	100	200	2	4316
30/06/2008	12:35:00	35.1	23.5	25.6	1020.1	100	220	2	4392

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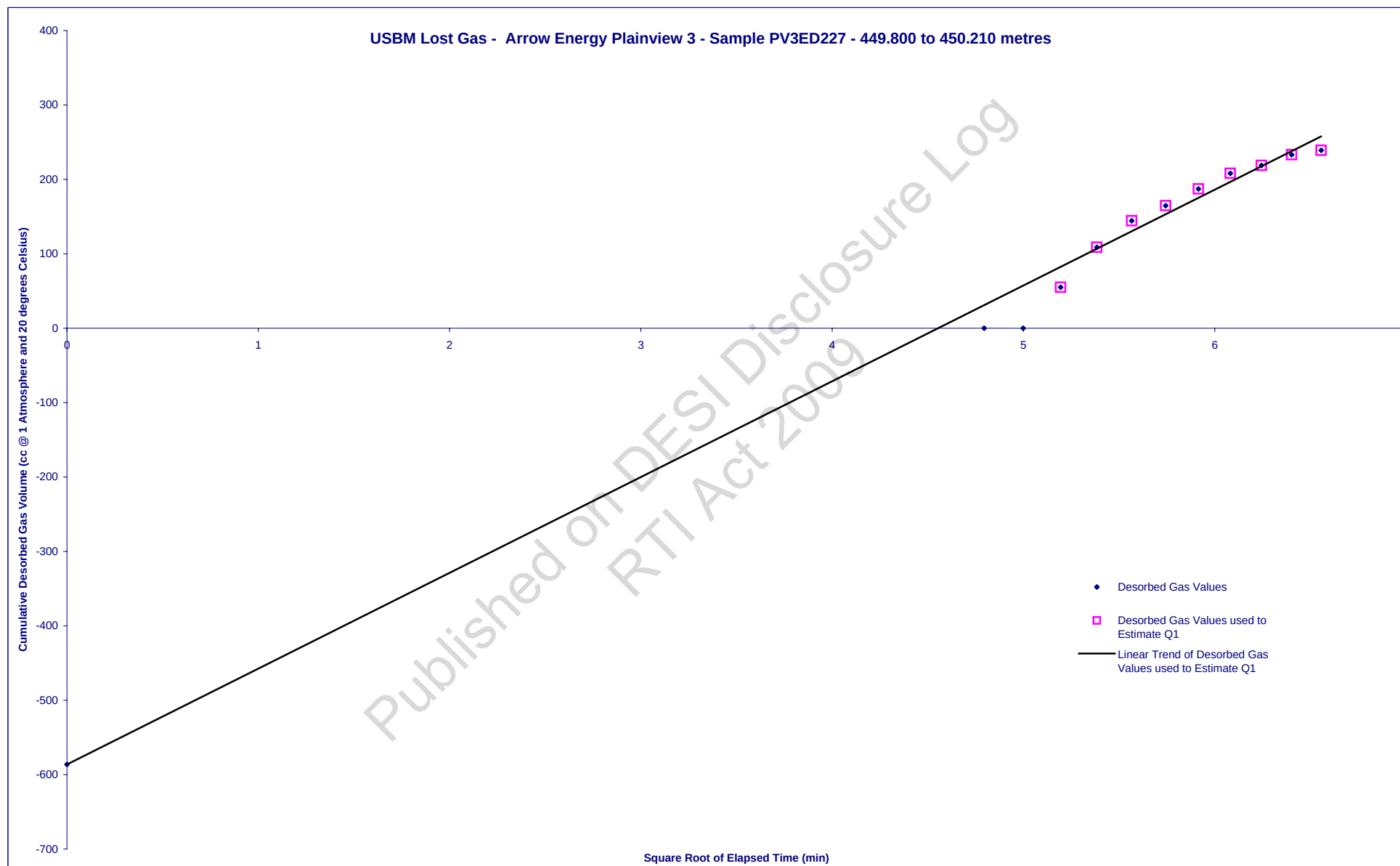
Arrow Energy Plainview 3 - Sample PV3ED227 - 449.800 to 450.210 metres

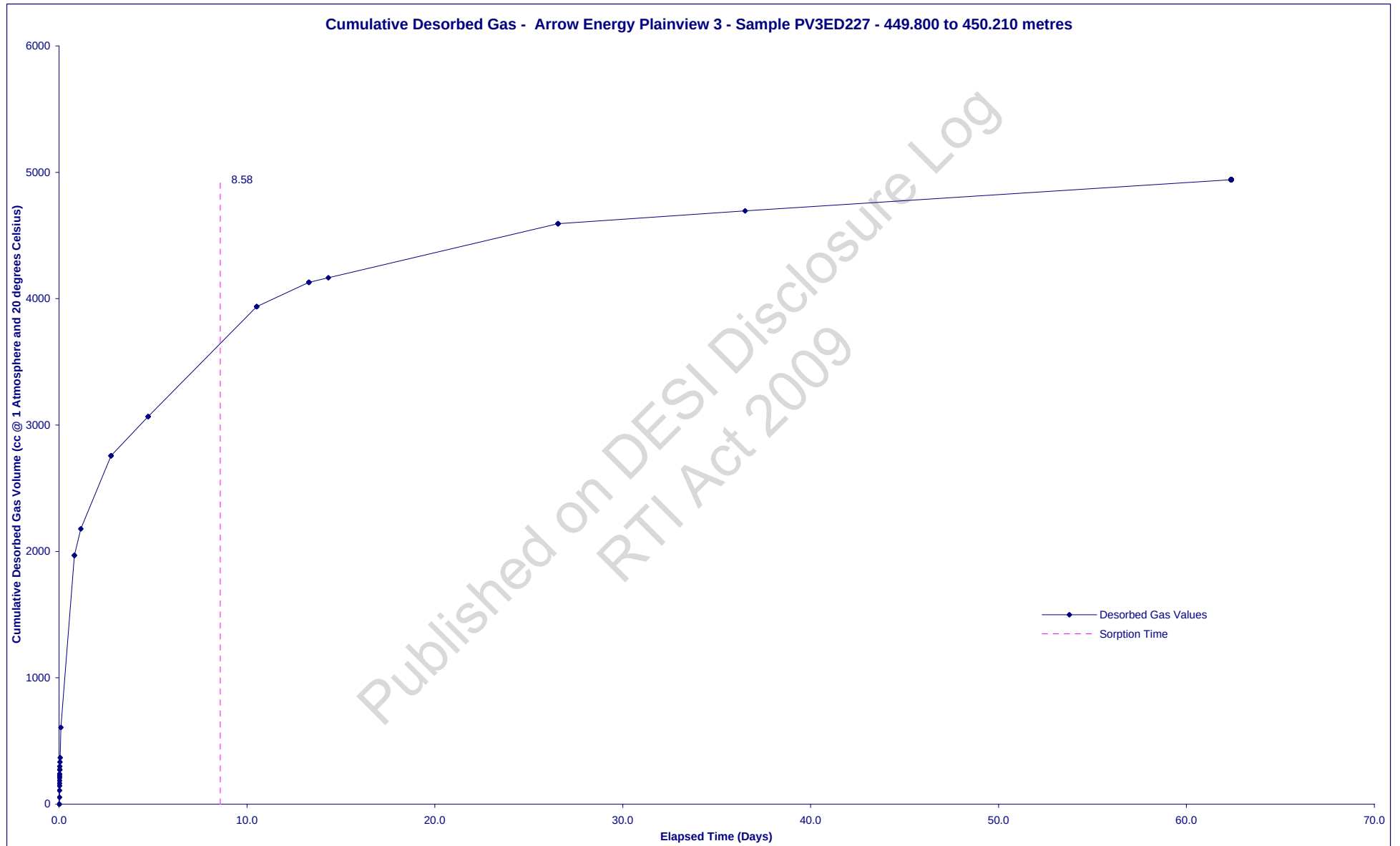
Hole Name	Plainview 3		Operator	Arrow Energy		Basin	Surat	State		QLD
Sample ID	PV3ED227	Sample Type	Core	Sample Top (m)	449.800	Sample Base (m)	450.210	Core Diameter (cm)	6.35	
Sample Volume (cc)	1298	Mass (g)	1846	RD (g/cc)	1.65	Moisture (%ad)	5.9	Ash (%ad)	47.4	
Q3 Volume (cc@STP)	92.76	Q3 Mass (g)	200.00	Q3 <212 μm (%)	100	Q3 Moisture (%ad)	5.9	Q3 Ash (%ad)	47.4	
Can Length (cm)	57	Can Diameter (cm)	10	Can Volume (cc)	4477	Can Void (cc)	6679	Tubing Void (cc)	31	
Date and Time	DD/MM/YY	HH:MM		Mud Weight (ppg)	8.3454	Trip Rate (m/min)		45.0	Minimum Q1 Point	
Sample Penetrated	24/04/2008	14:06		Formation Pressure (Mpa) @ 0.433 psi/ft	4.41	Surface Time Ratio		0.566	3	
Sample Off Bottom	24/04/2008	14:16		Formation Pressure Gradient (psi/ft)	0.433	Lost Time Ratio		0.084	Maximum Q1 Point	
Sample at Surface	24/04/2008	14:26		Depth HSP=Formation Pressure (m)	449.25	USBM Q1 - Surface Time Correction		1.18	11	
Sample Sealed	24/04/2008	14:39		Formation Temperature (°C)		Smith & Williams Q1 - Q2 Multiplier		1.040	Q1 Points Plotted	
Time Zero	24/04/2008	14:16		Standard Temperature (°C)	20.00	Comments: 4.58 day time compression used between 30/04/2008:16:08 and			11	
Last Entry	25/06/2008	23:28		Standard Pressure (hPa)	1013	07/05/2008:18:02			-586	
Network	Uncorrected USBM Q1	Corrected USBM Q1	Smith & Williams Q1	Q2	Q3	Uncorrected USBM Q1+Q2+Q3	Corrected USBM Q1+Q2+Q3	Smith and Williams Q1+Q2+Q3	Canister Head Space ○ Volumetric ● He Reference	
m³	0.001	0.001	0.000	0.005	0.000093				Time Zero Calculation ● Auto ○ Manual ○ Cut Time	
m³/tonne (raw)	0.32	0.37	0.11	2.68	0.46					
SCF/T (raw)	10	12	3	86	15					
m³/tonne (daf)	0.68	0.80	0.23	5.73	0.99	7.41	7.53	6.95		
SCF/T (daf)	22	26	7	184	32	237	241	223		
Percent of daf total	9.19%	10.66%	3.30%	76.14%	Sorption Time (days)	8.58	Diffusivity (sec ⁻¹)	3.43676E-05		
Date	Time	Temperature (°C)			Abs: Air Pressure (hPa)	Inverted Cylinder			Cumulative Q2 (cc at STP)	
DD/MM/YY	HH:MM	Canister	Air	H ₂ O		Start (cc)	Finish (cc)	Size		
24/04/2008	14:39:00	31.7	27.2	22.7	976.0	100	100	2	0	
24/04/2008	14:41:00	33.2	27.1	22.7	975.8	100	350	2	0	
24/04/2008	14:43:00	33.3	27.0	22.8	976.0	350	400	2	55	
24/04/2008	14:45:00	33.4	26.9	22.8	976.0	400	450	2	109	
24/04/2008	14:47:00	33.3	26.5	22.9	976.0	450	480	2	144	
24/04/2008	14:49:00	33.4	26.4	22.8	976.0	480	500	2	165	
24/04/2008	14:51:00	33.4	26.2	22.8	976.0	500	520	2	187	
24/04/2008	14:53:00	33.4	26.1	22.9	975.8	520	540	2	208	
24/04/2008	14:55:00	33.5	25.8	22.9	976.0	540	550	2	219	
24/04/2008	14:57:00	33.4	25.6	22.9	976.2	550	560	2	233	
24/04/2008	14:59:00	33.6	25.5	22.9	976.0	560	570	2	239	
24/04/2008	15:05:00	33.7	24.8	22.9	976.0	570	600	2	271	
24/04/2008	15:10:00	34.1	24.5	22.9	976.0	600	610	2	274	
24/04/2008	15:15:00	34.0	24.2	22.9	976.0	610	630	2	299	
24/04/2008	15:25:00	34.0	24.4	23.0	976.0	630	660	2	333	
24/04/2008	15:35:00	33.9	24.4	23.0	976.0	660	690	2	369	
24/04/2008	16:38:00	31.8	24.5	22.4	976.4	690	860	2	607	
24/04/2008	19:13:00	34.0	21.5	22.5	977.1	860	1200	2	961	
25/04/2008	09:59:00	34.1	24.8	18.8	974.8	100	1200	2	1969	
25/04/2008	18:09:00	35.0	25.0	23.4	973.7	100	520	2	2179	
26/04/2008	08:36:00	34.6	21.7	16.9	977.1	100	450	2	2516	
26/04/2008	17:21:00	35.2	29.8	23.3	972.2	100	200	2	2516	
27/04/2008	08:42:00	34.0	21.6	16.7	976.0	610	700	2	2757	
28/04/2008	09:02:00	33.8	21.5	19.6	977.7	1130	1130	2	2865	
29/04/2008	08:01:00	35.9	17.6	15.0	984.0	720	970	2	3067	
30/04/2008	16:08:00	32.6	29.4	19.5	979.4	730	760	2	3087	
07/05/2008	18:02:00	36.9	24.8	24.3	1018.6	200	360	2	3321	
09/05/2008	16:42:00	38.3	22.1	22.2	1025.9	200	730	2	3937	
10/05/2008	16:10:00	30.0	26.1	23.7	1024.0	200	250	2	4041	
11/05/2008	16:31:00	35.0	24.8	23.1	1026.5	200	300	2	4059	
12/05/2008	11:15:00	37.9	23.0	23.7	1028.2	200	320	2	4129	
13/05/2008	12:15:00	33.0	22.5	20.2	1027.5	200	170	2	4165	

Arrow Energy Plainview 3 - Sample PV3ED227 - 449.800 to 450.210 metres

Date	Time	Temperature (°C)			Abs. Air Pressure (hPa)	Inverted Cylinder			Cumulative Q2 (cc at STP)
		Canister	Air	H ₂ O		Start (cc)	Finish (cc)	Size	
DD/MM/YY	HH:MM								
15/05/2008	10:57:00	38.2	23.5	22.2	1027.1	200	350	2	4236
19/05/2008	11:52:00	38.7	21.2	20.3	1020.7	200	320	2	4292
25/05/2008	17:31:00	36.0	22.9	21.4	1031.1	100	290	2	4592
04/06/2008	16:25:00	36.6	21.9	21.5	1022.8	100	280	2	4696
07/06/2008	12:17:00	35.7	26.4	22.0	1029.6	100	230	2	4871
30/06/2008	13:22:00	34.4	23.9	26.3	1019.2	100	220	2	4941

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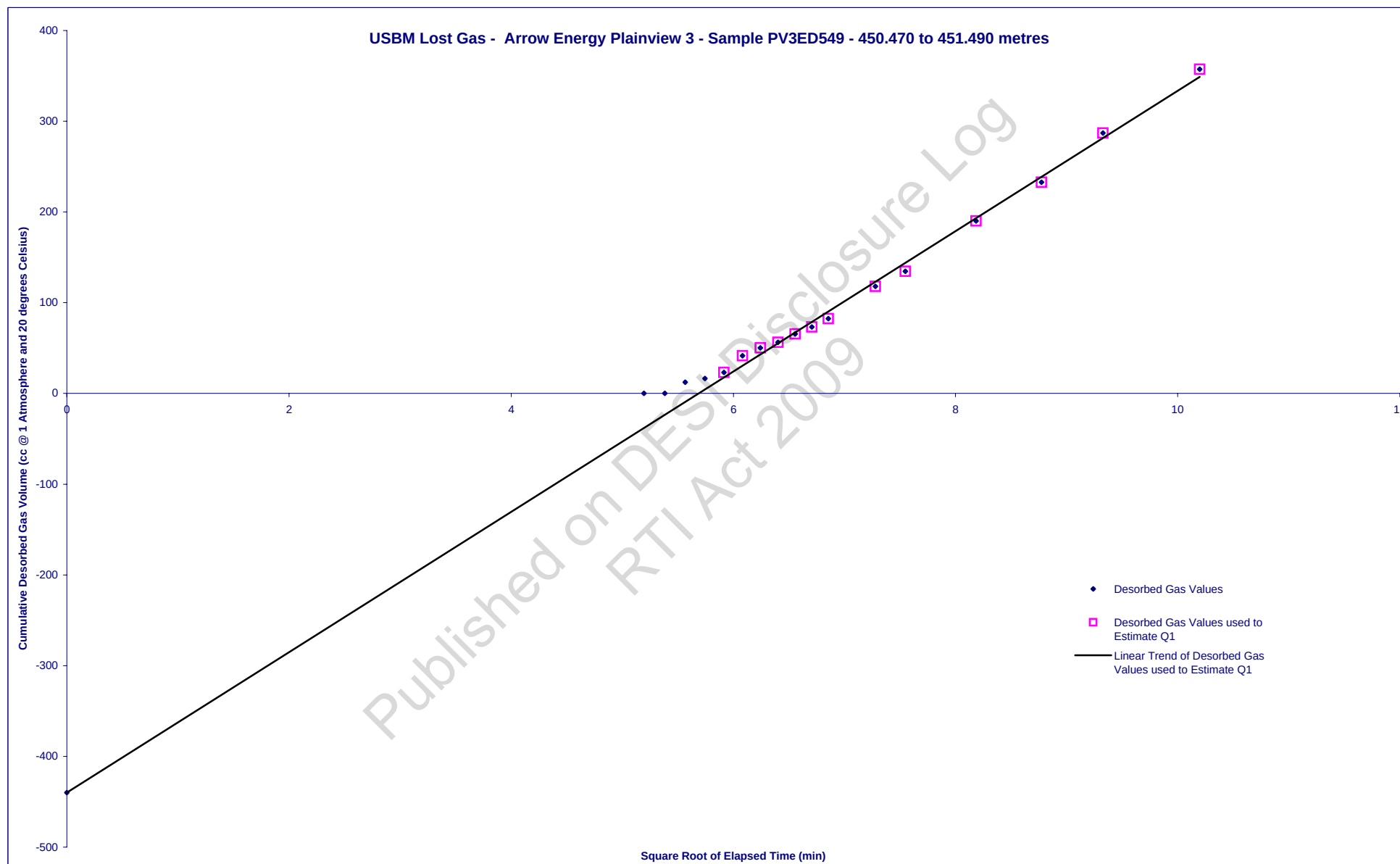
Arrow Energy Plainview 3 - Sample PV3ED549 - 450.470 to 451.490 metres

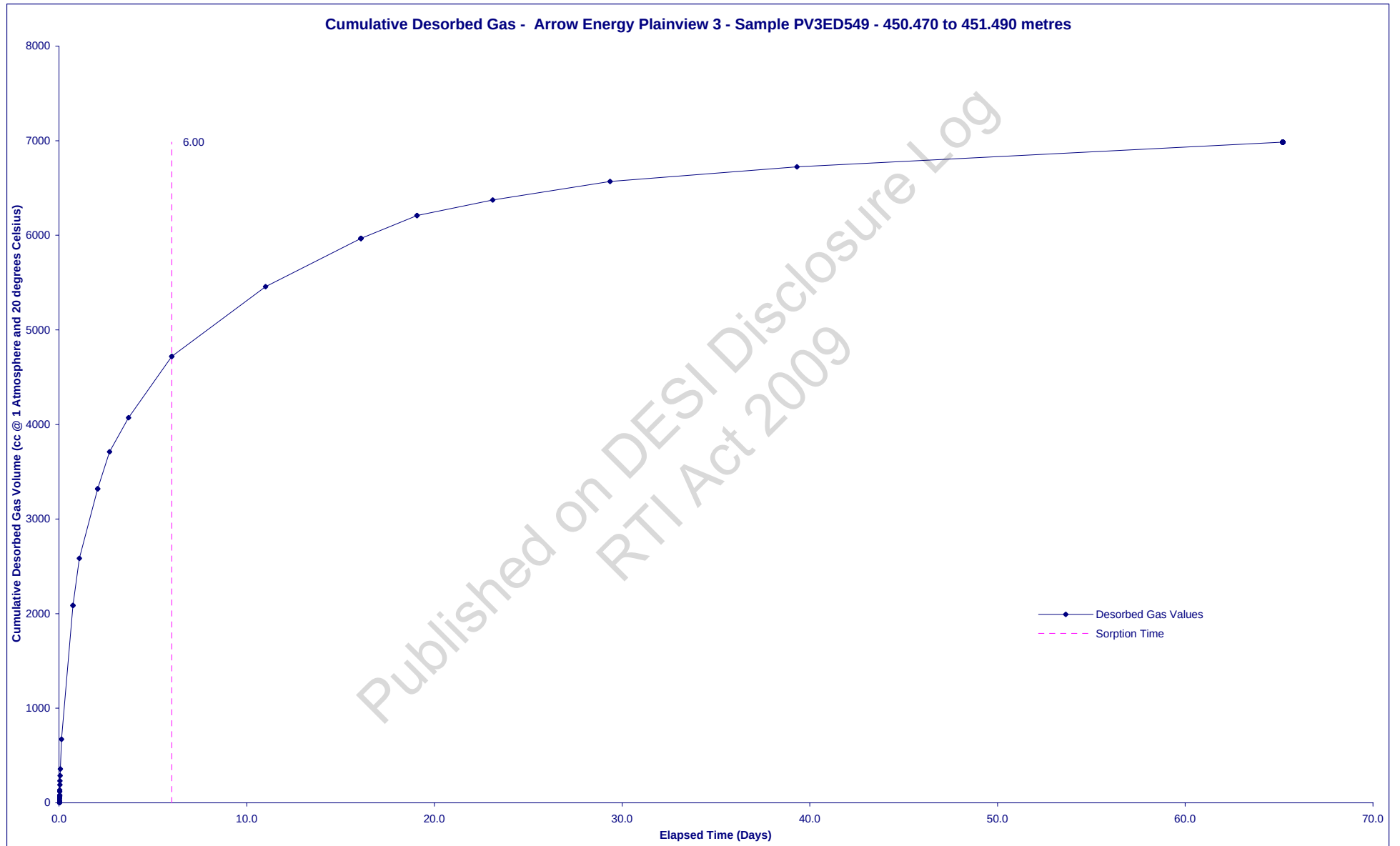
Hole Name	Plainview 3		Operator	Arrow Energy		Basin	Surat	State	QLD
Sample ID	PV3ED549	Sample Type	Core	Sample Top (m)	450.470	Sample Base (m)	451.490	Core Diameter (cm)	6.35
Sample Volume (cc)	3230	Mass (g)	4822	RD (g/cc)	1.66	Moisture (%ad)	8	Ash (%ad)	47
Q3 Volume (cc@STP)	61.42	Q3 Mass (g)	200.00	Q3 <212 µm (%)	100	Q3 Moisture (%ad)	8	Q3 Ash (%ad)	47
Can Length (cm)	107	Can Diameter (cm)	10	Can Volume (cc)	8404	Can Void (cc)	4911	Tubing Void (cc)	31
Date and Time	DD/MM/YY	HH:MM		Mud Weight (ppg)	8.3454	Trip Rate (m/min)		34.7	Minimum Q1 Point
Sample Penetrated	24/04/2008	14:47		Formation Pressure (Mpa) @ 0.433 psi/ft	4.41	Surface Time Ratio		0.519	5
Sample Off Bottom	24/04/2008	16:03		Formation Pressure Gradient (psi/ft)	0.433	Lost Time Ratio		0.157	Maximum Q1 Point
Sample at Surface	24/04/2008	16:16		Depth HSP=Formation Pressure (m)	449.92	USBM Q1 - Surface Time Correction		1.15	17
Sample Sealed	24/04/2008	16:30		Formation Temperature (°C)		Smith & Williams Q1 - Q2 Multiplier		1.090	Q1 Points Plotted
Time Zero	24/04/2008	16:03		Standard Temperature (°C)	20.00	Comments: 1.70 day time compression used between 30/04/2008:16:08 and			17
Last Entry	28/06/2008	20:52		Standard Pressure (hPa)	1013	7/05/2008:08:56			-440
Network	Uncorrected USBM Q1	Corrected USBM Q1	Smith & Williams Q1	Q2	Q3	Uncorrected USBM Q1+Q2+Q3	Corrected USBM Q1+Q2+Q3	Smith and Williams Q1+Q2+Q3	Canister Head Space
m³	0.000	0.001	0.001	0.007	0.000061				☐ Volumetric
m³/tonne (raw)	0.09	0.10	0.13	1.45	0.31				☒ He Reference
SCF/T (raw)	3	3	4	46	10				Time Zero Calculation
m³/tonne (daf)	0.20	0.23	0.29	3.22	0.68	4.10	4.13	4.19	☒ Auto
SCF/T (daf)	6	7	9	103	22	131	132	134	☐ Manual
Percent of daf total	4.94%	5.64%	6.91%	77.86%	Sorption Time (days)	6.00	Diffusivity (sec⁻¹)	6.48836E-06	☐ Cut Time
Date	Time	Temperature (°C)		Abs: Air Pressure (hPa)		Inverted Cylinder		Cumulative Q2 (cc at STP)	
DD/MM/YY	HH:MM	Canister	Air	H₂O		Start (cc)	Finish (cc)	Size	
24/04/2008 16:30:00		26.1	24.3	22.8	976.2	100	100	2	0
24/04/2008 16:32:00		27.8	24.3	22.8	976.2	100	240	2	0
24/04/2008 16:34:00		28.4	24.4	22.9	976.2	240	260	2	12
24/04/2008 16:36:00		28.9	24.4	22.6	976.4	260	270	2	17
24/04/2008 16:38:00		29.1	24.5	22.5	976.2	270	280	2	23
24/04/2008 16:40:00		29.3	24.6	22.4	976.2	280	300	2	42
24/04/2008 16:42:00		29.5	24.7	22.4	976.4	300	310	2	50
24/04/2008 16:44:00		29.8	24.7	22.4	976.4	310	320	2	56
24/04/2008 16:46:00		29.9	24.7	22.3	976.4	320	330	2	66
24/04/2008 16:48:00		30.1	24.6	22.4	976.4	330	340	2	73
24/04/2008 16:50:00		30.2	24.6	22.3	976.4	340	350	2	82
24/04/2008 16:56:00		30.7	24.6	22.4	976.5	350	390	2	118
24/04/2008 17:00:00		31.0	24.8	22.4	976.4	390	410	2	134
24/04/2008 17:10:00		31.6	25.1	22.5	976.5	410	470	2	190
24/04/2008 17:20:00		32.3	25.4	22.6	976.4	470	520	2	233
24/04/2008 17:30:00		32.9	25.5	22.6	976.2	520	580	2	287
24/04/2008 17:47:00		33.4	24.1	22.1	976.7	580	650	2	357
24/04/2008 19:22:00		33.6	22.2	22.3	977.1	650	940	2	673
25/04/2008 09:57:00		34.7	24.8	18.5	974.8	100	1520	2	2075
25/04/2008 09:58:00		34.6	24.8	18.8	974.8	100	320	2	2086
25/04/2008 18:07:00		35.5	25.0	23.4	973.7	320	800	2	2583
26/04/2008 08:36:00		36.0	21.7	16.9	977.1	100	750	2	3188
26/04/2008 17:21:00		35.6	29.8	23.3	972.2	100	340	2	3320
27/04/2008 08:42:00		34.8	21.6	16.7	976.0	350	680	2	3710
28/04/2008 09:02:00		35.0	21.5	19.6	977.7	700	1020	2	4070
29/04/2008 08:01:00		36.5	17.6	15.0	984.0	720	1140	2	4502
30/04/2008 16:08:00		33.4	29.4	19.5	979.4	470	750	2	4719
07/05/2008 08:56:00		38.0	25.4	25.0	1020.9	200	820	2	5457
09/05/2008 15:53:00		35.4	24.5	22.7	1025.3	200	430	2	5677
10/05/2008 15:29:00		30.0	27.1	24.0	1024.4	200	250	2	5774
11/05/2008 16:21:00		31.2	25.8	23.6	1026.3	200	280	2	5845
12/05/2008 10:58:00		34.7	24.4	24.1	1028.2	200	360	2	5966

Arrow Energy Plainview 3 - Sample PV3ED549 - 450.470 to 451.490 metres

Date	Time	Temperature (°C)			Abs. Air Pressure (hPa)	Inverted Cylinder			Cumulative Q2 (cc at STP)
		Canister	Air	H ₂ O		Start (cc)	Finish (cc)	Size	
DD/MM/YY	HH:MM								
13/05/2008	11:46:00	30.6	23.0	20.1	1027.8	200	230	2	6035
15/05/2008	10:42:00	34.8	23.7	22.4	1027.3	200	420	2	6209
19/05/2008	11:23:00	34.7	21.7	20.2	1021.5	200	400	2	6372
25/05/2008	17:31:00	35.6	22.9	21.4	1031.1	100	290	2	6570
04/06/2008	16:25:00	35.5	21.9	21.5	1022.8	100	300	2	6725
07/06/2008	12:17:00	35.9	26.4	22.0	1029.6	100	200	2	6830
30/06/2008	13:40:00	32.2	23.8	26.4	1019.0	100	250	2	6986

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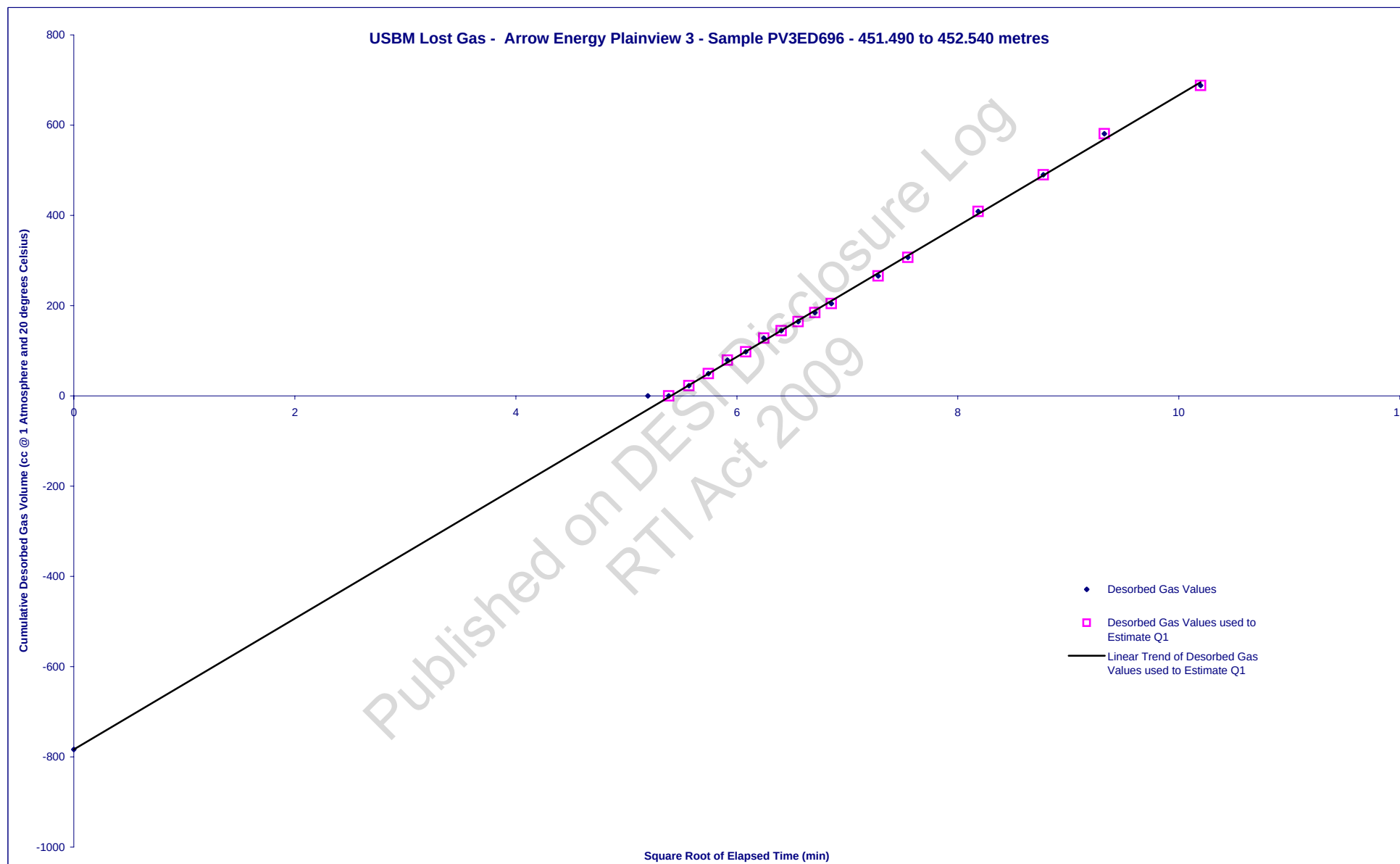
Arrow Energy Plainview 3 - Sample PV3ED696 - 451.490 to 452.540 metres

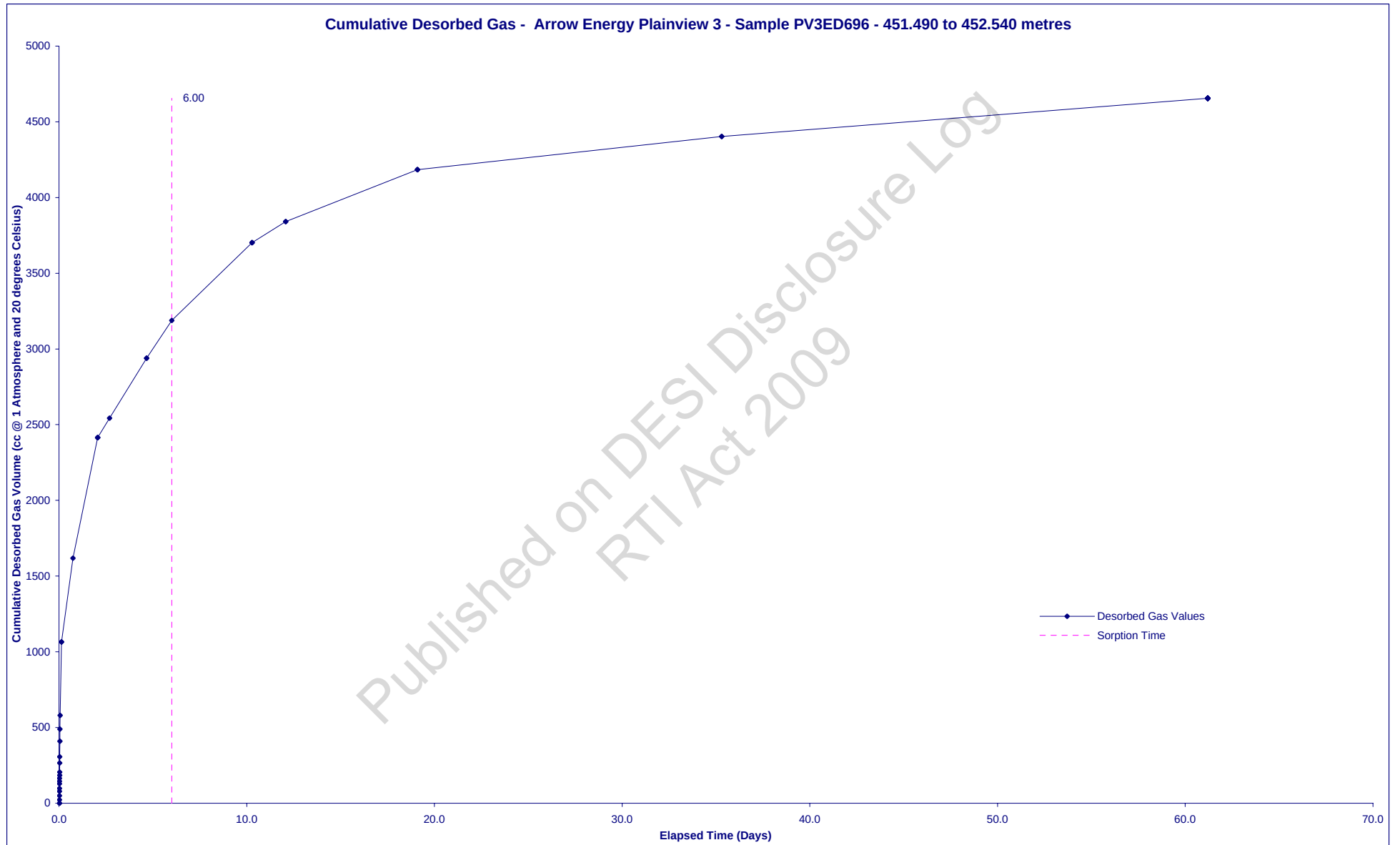
Hole Name	Plainview 3		Operator	Arrow Energy		Basin	Surat	State	QLD	
Sample ID	PV3ED696		Sample Type	Core	Sample Top (m)	451.490	Sample Base (m)	452.540	Core Diameter (cm)	6.35
Sample Volume (cc)	3325	Mass (g)	4052	RD (g/cc)	1.45	1.45	Moisture (%ad)	4.4	Ash (%ad)	17.6
Q3 Volume (cc@STP)	50.68	Q3 Mass (g)	200.00	Q3 <212 μm (%)	100	100	Q3 Moisture (%ad)	4.4	Q3 Ash (%ad)	17.6
Can Length (cm)	107	Can Diameter (cm)	10	Can Volume (cc)	8404	8404	Can Void (cc)	5435	Tubing Void (cc)	31
Date and Time	DD/MM/YY	HH:MM		Mud Weight (ppg)	8.3454	8.3454	Trip Rate (m/min)	34.8	Minimum Q1 Point	
Sample Penetrated	24/04/2008	15:00		Formation Pressure (Mpa) @ 0.433 psi/ft	4.42	4.42	Surface Time Ratio	0.519		2
Sample Off Bottom	24/04/2008	16:03		Formation Pressure Gradient (psi/ft)	0.433	0.433	Lost Time Ratio	0.157	Maximum Q1 Point	
Sample at Surface	24/04/2008	16:16		Depth HSP=Formation Pressure (m)	450.94	450.94	USBM Q1 - Surface Time Correction	1.15		17
Sample Sealed	24/04/2008	16:30		Formation Temperature (°C)			Smith & Williams Q1 - Q2 Multiplier	1.090	Q1 Points Plotted	
Time Zero	24/04/2008	16:03		Standard Temperature (°C)	20.00	20.00	Comments: 5.71 day time compression used between 30/04/2008:16:08 and			17
Last Entry	24/06/2008	20:48		Standard Pressure (hPa)	1013	1013	07/05/2008:09:10			-783
Network	Uncorrected USBM Q1	Corrected USBM Q1	Smith & Williams Q1	Q2	Q3	Uncorrected USBM Q1+Q2+Q3	Corrected USBM Q1+Q2+Q3	Smith and Williams Q1+Q2+Q3	Canister Head Space	☐ Volumetric
m³	0.001	0.001	0.000	0.005	0.000051					☒ He Reference
m³/tonne (raw)	0.19	0.22	0.10	1.15	0.25					Time Zero Calculation
SCF/T (raw)	6	7	3	37	8					
m³/tonne (daf)	0.25	0.29	0.13	1.47	0.32	2.05	2.08	1.93		☒ Auto
SCF/T (daf)	8	9	4	47	10	66	67	62		☐ Manual
Percent of daf total	12.12%	13.69%	6.87%	70.72%	Sorption Time (days)	6.00	Diffusivity (sec ⁻¹)	4.23408E-05		☐ Cut Time
Date	Time	Temperature (°C)			Abs. Air Pressure (hPa)	Inverted Cylinder			Cumulative Q2 (cc at STP)	
DD/MM/YY	HH:MM	Canister	Air	H ₂ O		Start (cc)	Finish (cc)	Size		
24/04/2008	16:30:00	28.3	24.3	22.8	976.2	100	100	2	0	
24/04/2008	16:32:00	29.1	24.3	22.8	976.2	100	250	2	0	
24/04/2008	16:34:00	29.7	24.4	22.9	976.2	250	280	2	23	
24/04/2008	16:36:00	30.1	24.4	22.6	976.4	280	310	2	50	
24/04/2008	16:38:00	30.2	24.5	22.5	976.2	310	340	2	79	
24/04/2008	16:40:00	30.4	24.6	22.4	976.2	340	360	2	98	
24/04/2008	16:42:00	30.6	24.7	22.4	976.4	360	390	2	128	
24/04/2008	16:44:00	30.9	24.7	22.4	976.4	390	410	2	145	
24/04/2008	16:46:00	31.0	24.7	22.3	976.4	410	430	2	165	
24/04/2008	16:48:00	31.1	24.6	22.4	976.4	430	450	2	185	
24/04/2008	16:50:00	31.2	24.6	22.3	976.4	450	470	2	205	
24/04/2008	16:56:00	31.5	24.6	22.4	976.5	470	530	2	266	
24/04/2008	17:00:00	31.6	24.8	22.4	976.4	530	570	2	307	
24/04/2008	17:10:00	31.4	25.1	22.5	976.5	570	660	2	409	
24/04/2008	17:20:00	32.4	25.4	22.6	976.4	660	750	2	490	
24/04/2008	17:30:00	32.8	25.5	22.6	976.2	750	840	2	581	
24/04/2008	17:47:00	34.5	24.1	22.1	976.7	840	960	2	688	
24/04/2008	19:22:00	34.8	22.2	22.3	977.1	1020	1350	2	1066	
25/04/2008	09:57:00	35.8	24.8	18.5	974.8	100	830	2	1618	
25/04/2008	18:07:00	36.3	25.0	23.4	973.7	430	950	2	2104	
26/04/2008	08:36:00	36.2	21.7	16.9	977.1	100	300	2	2193	
26/04/2008	17:21:00	35.8	29.8	23.3	972.2	100	360	2	2414	
27/04/2008	08:42:00	35.0	21.6	16.7	976.0	100	230	2	2543	
28/04/2008	09:02:00	34.8	21.5	19.6	977.7	590	720	2	2763	
29/04/2008	08:01:00	36.3	17.6	15.0	984.0	830	960	2	2939	
30/04/2008	16:08:00	34.0	29.4	19.5	979.4	750	1000	2	3188	
07/05/2008	09:10:00	39.4	24.8	23.6	1021.5	200	320	2	3318	
09/05/2008	16:14:00	34.3	22.7	22.4	1025.7	200	340	2	3563	
10/05/2008	15:52:00	30.2	26.1	24.0	1024.4	200	290	2	3702	
11/05/2008	16:24:00	31.4	25.1	22.9	1026.3	200	280	2	3766	
12/05/2008	11:03:00	34.8	23.2	23.6	1028.4	200	320	2	3841	
13/05/2008	11:55:00	30.6	23.0	20.1	1027.7	200	370	2	4081	

Arrow Energy Plainview 3 - Sample PV3ED696 - 451.490 to 452.540 metres

Date	Time	Temperature (°C)			Abs. Air Pressure (hPa)	Inverted Cylinder			Cumulative Q2 (cc at STP)
		Canister	Air	H ₂ O		Start (cc)	Finish (cc)	Size	
DD/MM/YY	HH:MM								
15/05/2008	10:48:00	36.5	23.4	22.3	1027.1	200	340	2	4105
19/05/2008	11:29:00	35.9	21.6	20.2	1021.3	200	310	2	4185
25/05/2008	15:08:00	36.8	24.5	21.3	1031.1	100	250	2	4355
04/06/2008	16:15:00	38.1	22.4	21.5	1022.8	100	225	2	4403
07/06/2008	11:02:00	37.6	25.8	21.5	1020.5	100	200	2	4489
30/06/2008	13:50:00	34.2	23.6	26.5	1019.0	100	220	2	4655

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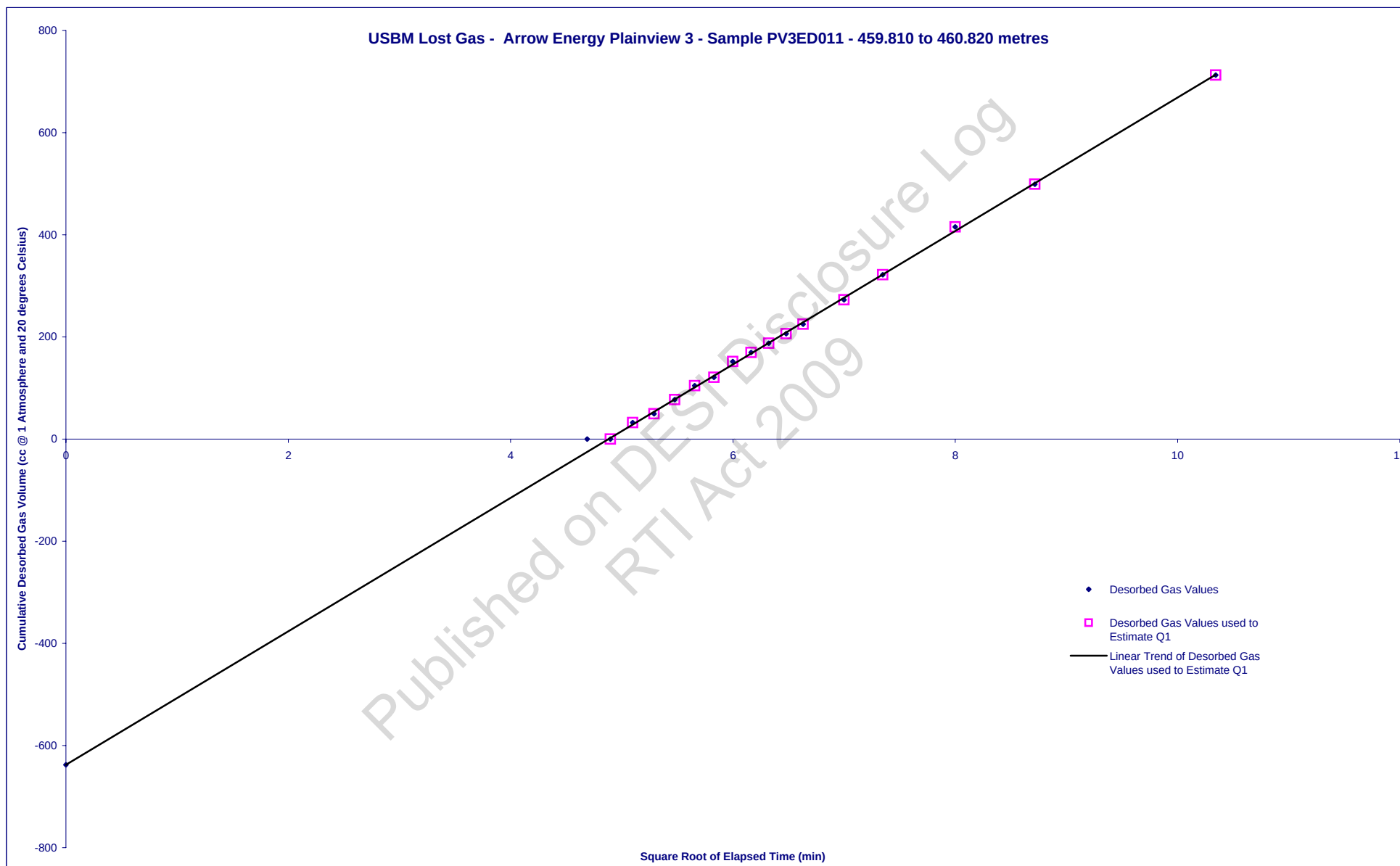
Arrow Energy Plainview 3 - Sample PV3ED011 - 459.810 to 460.820 metres

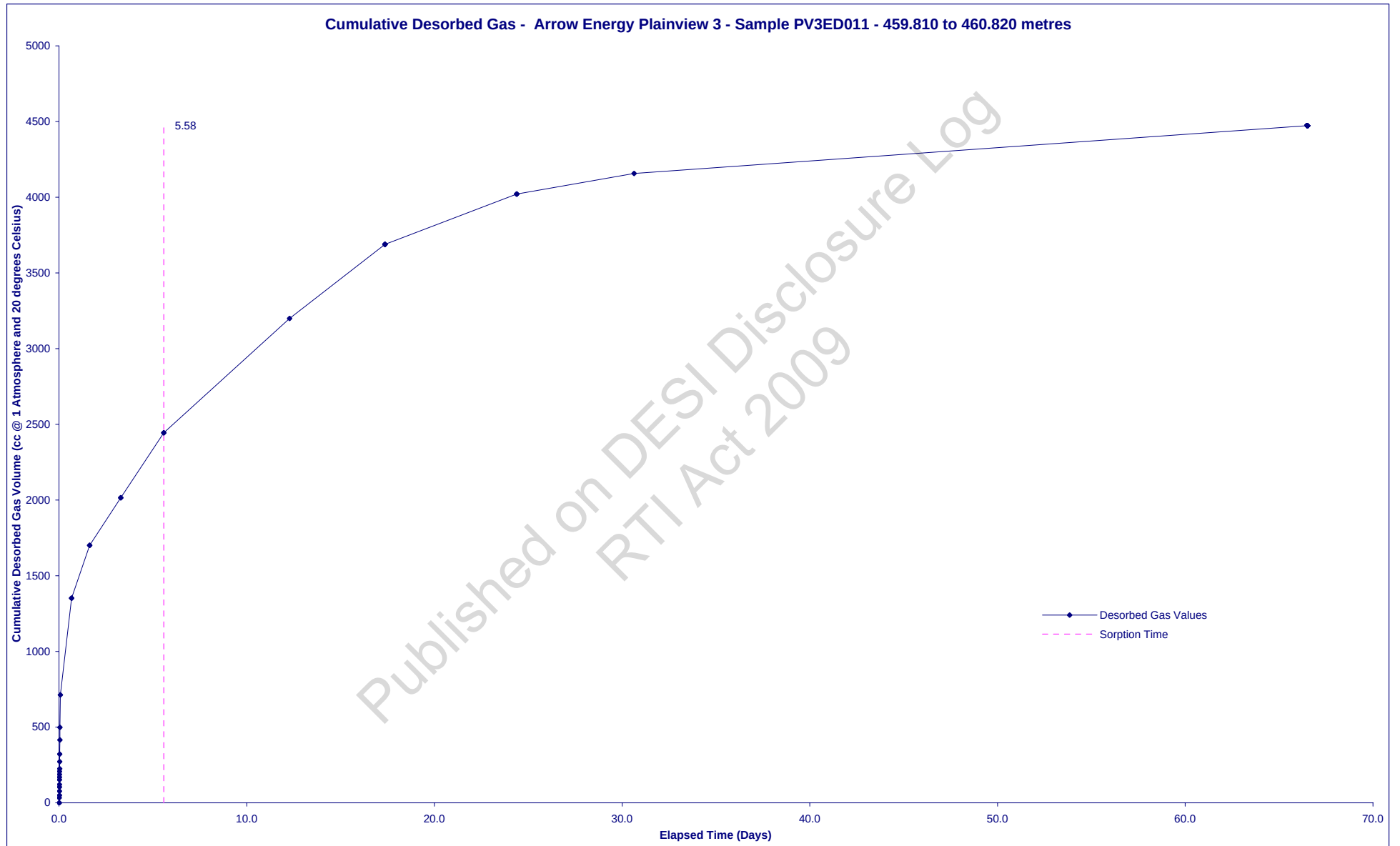
Hole Name	Plainview 3		Operator	Arrow Energy		Basin	Surat	State	QLD
Sample ID	PV3ED011	Sample Type	Core	Sample Top (m)	459.810	Sample Base (m)	460.820	Core Diameter (cm)	6.35
Sample Volume (cc)	3199	Mass (g)	4324	RD (g/cc)	1.61	Moisture (%ad)	4.3	Ash (%ad)	19.1
Q3 Volume (cc@STP)	45.99	Q3 Mass (g)	200.00	Q3 <212 µm (%)	100	Q3 Moisture (%ad)	4.3	Q3 Ash (%ad)	19.1
Can Length (cm)	107	Can Diameter (cm)	10	Can Volume (cc)	8404	Can Void (cc)	4669	Tubing Void (cc)	31
Date and Time	DD/MM/YY	HH:MM	Mud Weight (ppg)		8.3454	Trip Rate (m/min)		51.2	Minimum Q1 Point
Sample Penetrated	24/04/2008	17:09	Formation Pressure (Mpa) @ 0.433 psi/ft		4.50	Surface Time Ratio		0.591	2
Sample Off Bottom	24/04/2008	17:36	Formation Pressure Gradient (psi/ft)		0.433	Lost Time Ratio		0.259	Maximum Q1 Point
Sample at Surface	24/04/2008	17:45	Depth HSP=Formation Pressure (m)		459.25	USBM Q1 - Surface Time Correction		1.18	17
Sample Sealed	24/04/2008	17:58	Formation Temperature (°C)			Smith & Williams Q1 - Q2 Multiplier		1.150	Q1 Points Plotted
Time Zero	24/04/2008	17:36	Standard Temperature (°C)		20.00	Comments: 0.36 day time compression used between 24/04/2008:19:23 and			17
Last Entry	30/06/2008	05:34	Standard Pressure (hPa)		1013	25/04/2008:09:56			-638
Network	Uncorrected USBM Q1	Corrected USBM Q1	Smith & Williams Q1	Q2	Q3	Uncorrected USBM Q1+Q2+Q3	Corrected USBM Q1+Q2+Q3	Smith and Williams Q1+Q2+Q3	Canister Head Space ○ Volumetric ● He Reference
m³	0.001	0.001	0.001	0.004	0.000046				Time Zero Calculation ● Auto ○ Manual ○ Cut Time
m³/tonne (raw)	0.15	0.17	0.16	1.03	0.23				
SCF/T (raw)	5	6	5	33	7				
m³/tonne (daf)	0.19	0.23	0.20	1.35	0.30	1.84	1.88	1.85	
SCF/T (daf)	6	7	6	43	10	59	60	59	
Percent of daf total	10.45%	12.10%	10.93%	71.91%	Sorption Time (days)	5.58	Diffusivity (sec ⁻¹)	3.85167E-05	
Date	Time	Temperature (°C)			Abs. Air Pressure (hPa)	Inverted Cylinder			Cumulative Q2 (cc at STP)
DD/MM/YY	HH:MM	Canister	Air	H ₂ O		Start (cc)	Finish (cc)	Size	
24/04/2008 17:58:00		25.3	22.9	21.8	976.7	100	100	2	0
24/04/2008 18:00:00		26.4	22.9	21.8	976.7	100	260	2	0
24/04/2008 18:02:00		27.1	22.8	21.9	976.7	260	300	2	32
24/04/2008 18:04:00		27.4	22.8	21.7	976.7	300	320	2	49
24/04/2008 18:06:00		27.7	22.7	21.6	976.7	320	350	2	77
24/04/2008 18:08:00		28.0	22.7	21.5	976.7	350	380	2	105
24/04/2008 18:10:00		28.3	22.7	21.6	976.5	380	400	2	121
24/04/2008 18:12:00		28.5	22.8	21.7	976.9	400	430	2	152
24/04/2008 18:14:00		28.7	22.9	21.8	976.7	430	450	2	169
24/04/2008 18:16:00		28.9	22.9	21.8	976.7	450	470	2	188
24/04/2008 18:18:00		29.1	23.0	21.9	976.7	470	490	2	206
24/04/2008 18:20:00		29.3	23.0	22.0	976.7	490	510	2	225
24/04/2008 18:25:00		29.7	23.0	22.0	976.7	510	560	2	273
24/04/2008 18:30:00		30.0	22.8	22.0	976.7	560	610	2	322
24/04/2008 18:40:00		30.3	22.3	22.0	976.9	610	700	2	415
24/04/2008 18:52:00		30.5	21.9	22.2	976.9	700	780	2	499
24/04/2008 19:23:00		30.8	22.4	22.1	977.1	780	980	2	713
25/04/2008 09:56:00		33.4	26.8	18.6	975.0	100	660	2	1127
25/04/2008 18:06:00		34.2	25.0	23.5	973.7	360	630	2	1352
26/04/2008 08:36:00		34.1	21.7	16.9	977.1	100	290	2	1491
26/04/2008 17:21:00		34.8	29.8	23.3	972.2	100	360	2	1701
27/04/2008 08:42:00		33.3	21.6	16.7	976.0	360	470	2	1857
28/04/2008 09:02:00		33.6	21.5	19.6	977.7	490	630	2	2015
29/04/2008 08:01:00		34.3	17.6	15.0	984.0	620	760	2	2187
30/04/2008 16:08:00		32.6	29.4	19.5	979.4	820	1050	2	2444
07/05/2008 08:56:00		38.6	25.4	25.0	1020.9	200	900	2	3200
09/05/2008 15:53:00		34.3	24.5	22.7	1025.3	200	350	2	3343
10/05/2008 15:29:00		29.0	27.1	24.0	1024.4	200	300	2	3503
11/05/2008 16:21:00		30.8	25.8	23.6	1026.3	200	350	2	3635
12/05/2008 10:58:00		33.7	24.4	24.1	1028.2	200	300	2	3689
13/05/2008 11:46:00		30.3	23.0	20.1	1027.8	200	340	2	3878
15/05/2008 10:42:00		33.9	23.7	22.4	1027.3	200	320	2	3934

Arrow Energy Plainview 3 - Sample PV3ED011 - 459.810 to 460.820 metres

Date	Time	Temperature (°C)			Abs. Air Pressure (hPa)	Inverted Cylinder			Cumulative Q2 (cc at STP)
		Canister	Air	H ₂ O		Start (cc)	Finish (cc)	Size	
DD/MM/YY	HH:MM								
19/05/2008	11:23:00	34.0	21.7	20.2	1021.5	200	320	2	4021
25/05/2008	17:31:00	36.1	22.9	21.4	1031.1	100	240	2	4157
04/06/2008	16:25:00	38.0	21.9	21.5	1022.8	100	220	2	4203
07/06/2008	12:17:00	36.5	26.4	22.0	1029.6	100	230	2	4380
30/06/2008	14:07:00	32.9	23.6	26.7	1018.8	100	200	2	4473

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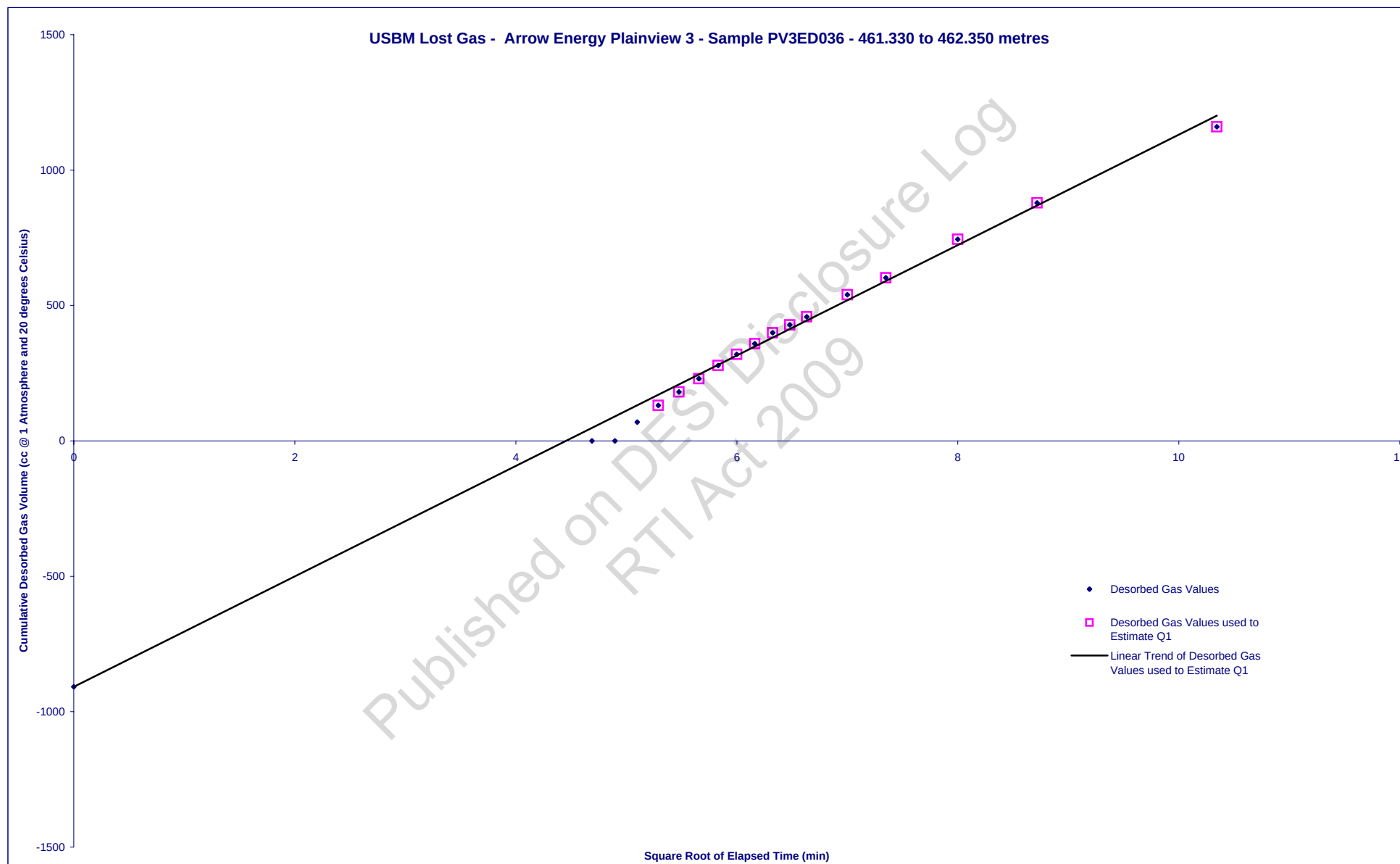
Arrow Energy Plainview 3 - Sample PV3ED036 - 461.330 to 462.350 metres

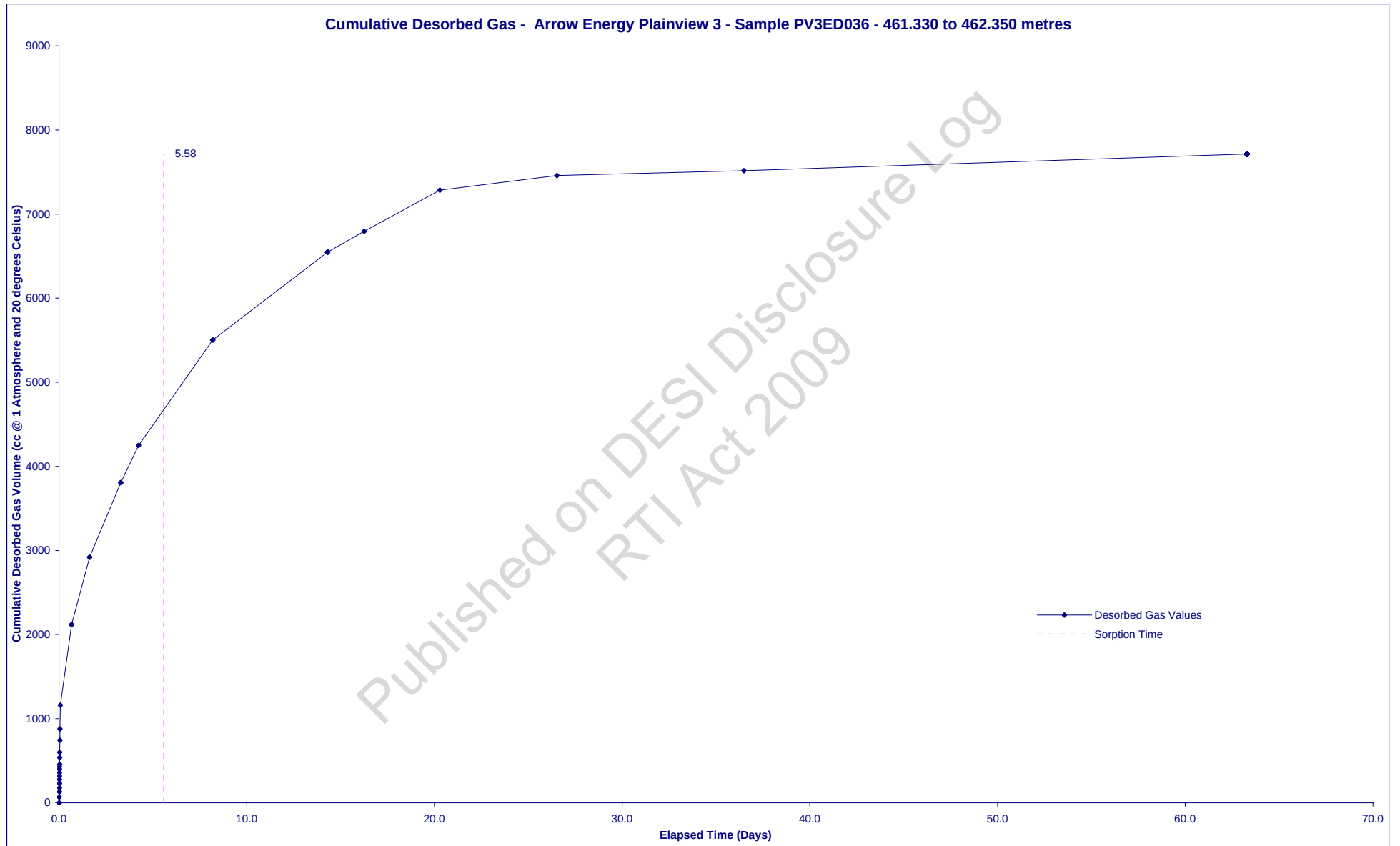
Hole Name	Plainview 3		Operator		Arrow Energy		Basin		Surat	State	QLD
Sample ID	PV3ED036	Sample Type	Core	Sample Top (m)	461.330	Sample Base (m)	462.350	Core Diameter (cm)	6.35		
Sample Volume (cc)	3230	Mass (g)	4018	RD (g/cc)	1.47	Moisture (%ad)	5	Ash (%ad)	23.9		
Q3 Volume (cc@STP)	53.29	Q3 Mass (g)	200.00	Q3 <212 μm (%)	100	Q3 Moisture (%ad)	5	Q3 Ash (%ad)	23.9		
Can Length (cm)	107	Can Diameter (cm)	10	Can Volume (cc)	8404	Can Void (cc)	5165	Tubing Void (cc)	31		
Date and Time	DD/MM/YY	HH:MM		Mud Weight (ppg)	8.3454		Trip Rate (m/min)	51.4	Minimum Q1 Point		
Sample Penetrated	24/04/2008	17:24		Formation Pressure (Mpa) @ 0.433 psi/ft	4.52		Surface Time Ratio	0.591	4		
Sample Off Bottom	24/04/2008	17:36		Formation Pressure Gradient (psi/ft)	0.433		Lost Time Ratio	0.049	Maximum Q1 Point		
Sample at Surface	24/04/2008	17:45		Depth HSP=Formation Pressure (m)	460.77		USBM Q1 - Surface Time Correction	1.18	17		
Sample Sealed	24/04/2008	17:58		Formation Temperature (°C)			Smith & Williams Q1 - Q2 Multiplier	1.000	Q1 Points Plotted		
Time Zero	24/04/2008	17:36		Standard Temperature (°C)	20.00	Comments: 0.36 day time compression used between 24/04/2008:19:23 and					
Last Entry	27/06/2008	00:29		Standard Pressure (hPa)	1013	25/04/2008:09:56 4.46 day time compression used between					
Network	Uncorrected USBM Q1	Corrected USBM Q1	Smith & Williams Q1	Q2	Q3	Uncorrected USBM Q1+Q2+Q3	Corrected USBM Q1+Q2+Q3	Smith and Williams Q1+Q2+Q3	Canister Head Space		
m³	0.001	0.001	0.000	0.008	0.000053				☐ Volumetric		
m³/tonne (raw)	0.23	0.27	0.00	1.92	0.27				☒ He Reference		
SCF/T (raw)	7	9	0	62	9				Time Zero Calculation		
m³/tonne (daf)	0.32	0.38	0.00	2.70	0.37	3.39	3.45	3.07	☒ Auto		
SCF/T (daf)	10	12	0	87	12	109	111	99	☐ Manual		
Percent of daf total	9.37%	10.88%	0.00%	78.26%	Sorption Time (days)	5.58	Diffusivity (sec ⁻¹)	3.73568E-05	☐ Cut Time		
Date	Time	Temperature (°C)			Abs. Air Pressure (hPa)	Inverted Cylinder			Cumulative Q2 (cc at STP)		
DD/MM/YY	HH:MM	Canister	Air	H ₂ O		Start (cc)	Finish (cc)	Size			
24/04/2008	17:58:00	29.8	22.9	21.8	976.7	100	100	2	0		
24/04/2008	18:00:00	30.3	22.9	21.8	976.7	100	250	2	0		
24/04/2008	18:02:00	30.7	22.8	21.9	976.7	250	320	2	69		
24/04/2008	18:04:00	30.9	22.8	21.7	976.7	320	380	2	131		
24/04/2008	18:06:00	31.2	22.7	21.6	976.7	380	430	2	180		
24/04/2008	18:08:00	31.5	22.7	21.5	976.7	430	480	2	230		
24/04/2008	18:10:00	31.8	22.7	21.6	976.5	480	530	2	278		
24/04/2008	18:12:00	32.1	22.8	21.7	976.9	530	570	2	319		
24/04/2008	18:14:00	32.3	22.9	21.8	976.7	570	610	2	359		
24/04/2008	18:16:00	32.5	22.9	21.8	976.7	610	650	2	399		
24/04/2008	18:18:00	32.7	23.0	21.9	976.7	650	680	2	429		
24/04/2008	18:20:00	32.9	23.0	22.0	976.7	680	710	2	458		
24/04/2008	18:25:00	33.3	23.0	22.0	976.7	710	790	2	539		
24/04/2008	18:30:00	33.5	22.8	22.0	976.7	790	850	2	602		
24/04/2008	18:40:00	33.6	22.3	22.0	976.9	850	980	2	745		
24/04/2008	18:52:00	33.5	21.9	22.2	976.9	980	1100	2	879		
24/04/2008	19:23:00	33.4	22.4	22.1	977.1	1100	1350	2	1160		
25/04/2008	09:56:00	34.5	26.8	18.6	975.0	100	810	2	1692		
25/04/2008	18:06:00	35.5	25.0	23.5	973.7	310	800	2	2117		
26/04/2008	08:36:00	34.4	21.7	16.9	977.1	100	760	2	2759		
26/04/2008	17:21:00	36.5	29.8	23.3	972.2	100	410	2	2921		
27/04/2008	08:42:00	35.1	21.6	16.7	976.0	390	800	2	3408		
28/04/2008	09:02:00	35.6	21.5	19.6	977.7	790	1150	2	3807		
29/04/2008	08:01:00	35.6	17.6	15.0	984.0	820	1230	2	4249		
30/04/2008	16:08:00	34.2	29.4	19.5	979.4	100	510	2	4500		
07/05/2008	09:10:00	39.2	24.8	23.6	1021.5	200	1010	2	5504		
09/05/2008	16:14:00	35.8	22.7	22.4	1025.7	200	390	2	5660		
10/05/2008	15:52:00	30.5	26.1	24.0	1024.4	200	410	2	5941		
11/05/2008	16:24:00	32.4	25.1	22.9	1026.3	200	350	2	6053		
12/05/2008	11:03:00	35.6	23.2	23.6	1028.4	200	350	2	6155		
13/05/2008	11:55:00	32.0	23.0	20.1	1027.7	200	520	2	6548		
15/05/2008	10:48:00	36.3	23.4	22.3	1027.1	200	530	2	6795		

Arrow Energy Plainview 3 - Sample PV3ED036 - 461.330 to 462.350 metres

Date	Time	Temperature (°C)			Abs. Air Pressure (hPa)	Inverted Cylinder			Cumulative Q2 (cc at STP)
		Canister	Air	H ₂ O		Start (cc)	Finish (cc)	Size	
DD/MM/YY	HH:MM								
19/05/2008	11:29:00	35.9	21.6	20.2	1021.3	200	700	2	7286
25/05/2008	17:27:00	36.0	22.9	21.4	1030.9	100	300	2	7459
04/06/2008	16:21:00	37.9	22.4	21.5	1022.8	100	245	2	7516
07/06/2008	12:08:00	36.2	26.1	22.0	1030.0	100	220	2	7689
01/07/2008	11:31:00	38.5	21.0	19.7	1017.6	100	230	2	7714

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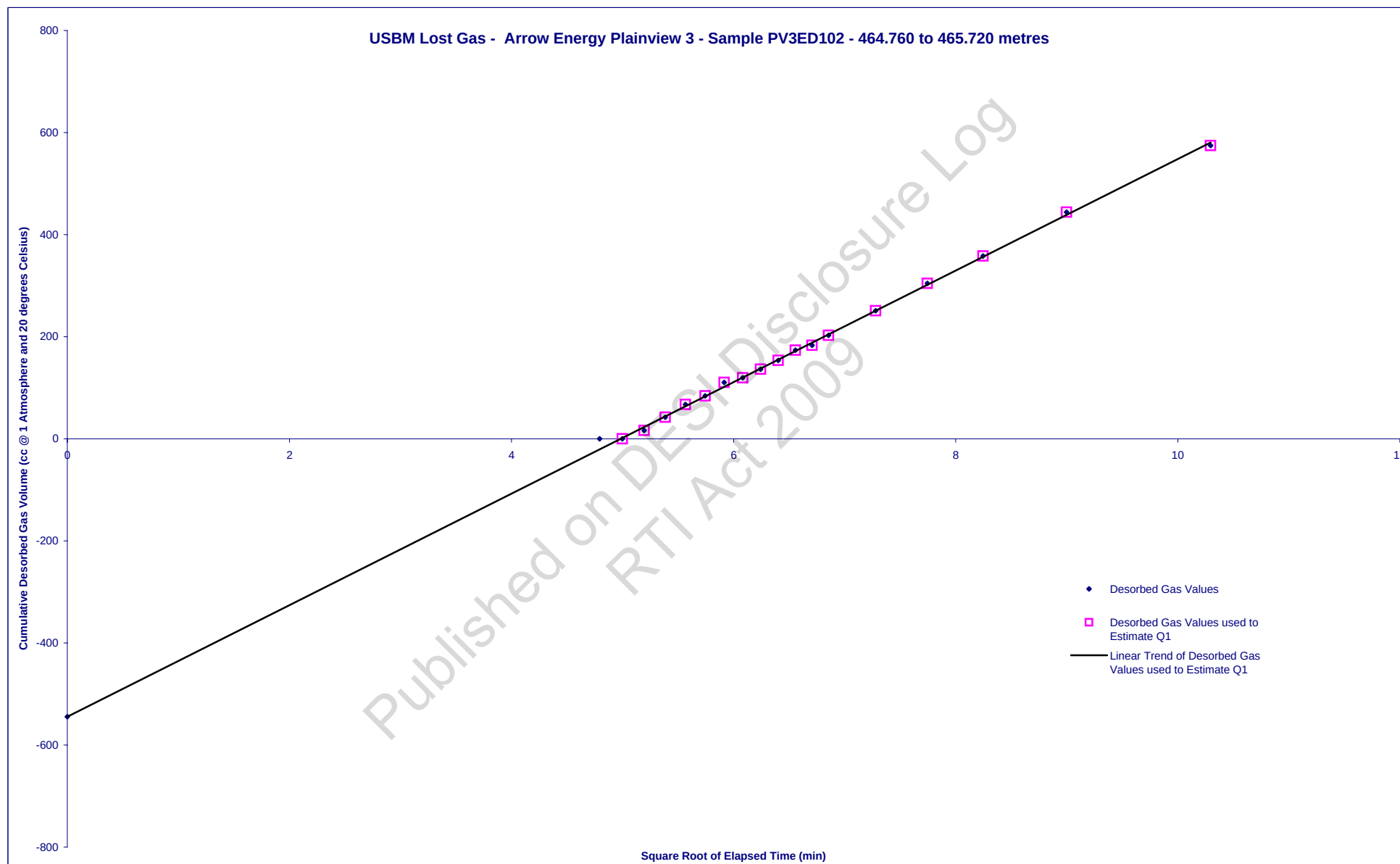
Arrow Energy Plainview 3 - Sample PV3ED102 - 464.760 to 465.720 metres

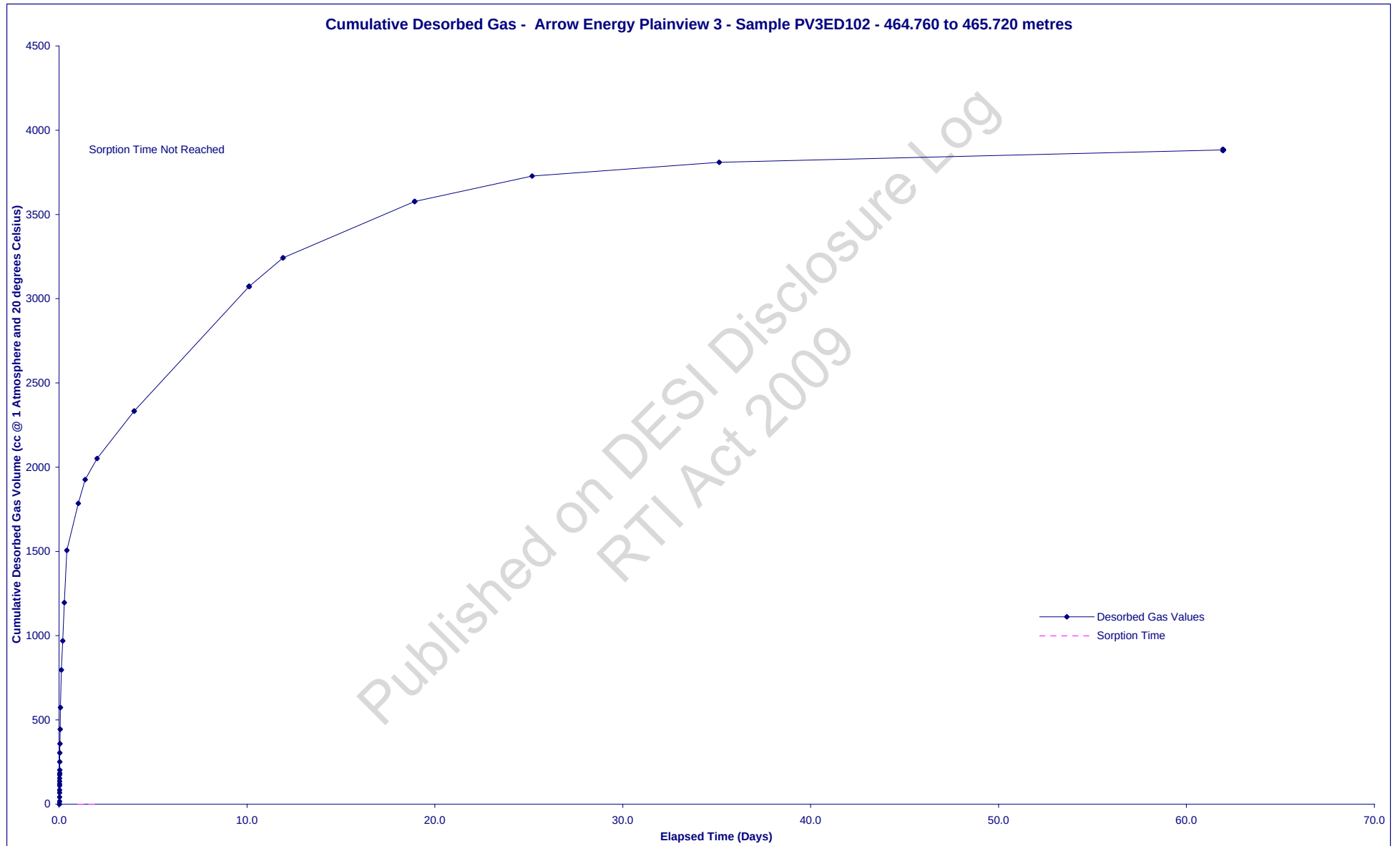
Hole Name	Plainview 3		Operator	Arrow Energy		Basin	Surat	State	QLD
Sample ID	PV3ED102	Sample Type	Core	Sample Top (m)	464.760	Sample Base (m)	465.720	Core Diameter (cm)	6.35
Sample Volume (cc)	3040	Mass (g)	3998	RD (g/cc)	1.51	Moisture (%ad)	3.9	Ash (%ad)	19.8
Q3 Volume (cc@STP)	224.31	Q3 Mass (g)	200.00	Q3 <212 µm (%)	100	Q3 Moisture (%ad)	3.9	Q3 Ash (%ad)	19.8
Can Length (cm)	107	Can Diameter (cm)	10	Can Volume (cc)	8404	Can Void (cc)	5165	Tubing Void (cc)	31
Date and Time	DD/MM/YY	HH:MM	Mud Weight (ppg)		8.3454	Trip Rate (m/min)		51.7	Minimum Q1 Point
Sample Penetrated	25/04/2008	07:23	Formation Pressure (Mpa) @ 0.433 psi/ft		4.55	Surface Time Ratio		0.609	2
Sample Off Bottom	25/04/2008	08:07	Formation Pressure Gradient (psi/ft)		0.433	Lost Time Ratio		0.088	Maximum Q1 Point
Sample at Surface	25/04/2008	08:16	Depth HSP=Formation Pressure (m)		464.19	USBM Q1 - Surface Time Correction		1.2	18
Sample Sealed	25/04/2008	08:30	Formation Temperature (°C)			Smith & Williams Q1 - Q2 Multiplier		1.040	Q1 Points Plotted
Time Zero	25/04/2008	08:07	Standard Temperature (°C)		20.00	Comments: 5.21 day time compression used between 30/04/2008:16:08 and			18
Last Entry	26/06/2008	06:52	Standard Pressure (hPa)		1013	7/05/2008:09:10			-544
Network	Uncorrected USBM Q1	Corrected USBM Q1	Smith & Williams Q1	Q2	Q3	Uncorrected USBM Q1+Q2+Q3	Corrected USBM Q1+Q2+Q3	Smith and Williams Q1+Q2+Q3	Canister Head Space
m³	0.001	0.001	0.000	0.004	0.000224				☐ Volumetric
m³/tonne (raw)	0.14	0.16	0.04	0.97	1.12				☒ He Reference
SCF/T (raw)	4	5	1	31	36				Time Zero Calculation
m³/tonne (daf)	0.18	0.21	0.05	1.27	1.47	2.92	2.96	2.79	
SCF/T (daf)	6	7	2	41	47	94	95	90	
Percent of daf total	6.11%	7.24%	1.82%	43.05%	Sorption Time (days)	Not Reached	Diffusivity (sec ⁻¹)	1.28013E-05	
Date	Time	Temperature (°C)			Abs: Air Pressure (hPa)	Inverted Cylinder			Cumulative Q2 (cc at STP)
DD/MM/YY	HH:MM	Canister	Air	H ₂ O		Start (cc)	Finish (cc)	Size	
25/04/2008 08:30:00		27.4	23.8	18.0	975.6	100	100	2	0
25/04/2008 08:32:00		29.4	23.8	18.0	975.6	100	250	2	0
25/04/2008 08:34:00		31.1	24.0	18.2	975.6	250	290	2	16
25/04/2008 08:36:00		31.5	24.0	18.2	975.6	290	320	2	42
25/04/2008 08:38:00		31.9	24.1	18.2	975.4	320	350	2	67
25/04/2008 08:40:00		32.2	24.2	18.2	975.4	350	370	2	84
25/04/2008 08:42:00		32.6	24.3	18.2	975.4	370	400	2	110
25/04/2008 08:44:00		32.7	24.4	18.3	975.4	400	410	2	120
25/04/2008 08:46:00		33.0	24.6	18.4	975.4	410	430	2	136
25/04/2008 08:48:00		33.2	24.7	18.5	975.2	430	450	2	154
25/04/2008 08:50:00		33.3	24.7	18.5	975.2	450	470	2	174
25/04/2008 08:52:00		33.4	24.8	18.7	975.2	470	480	2	183
25/04/2008 08:54:00		33.5	24.9	18.7	975.2	480	500	2	203
25/04/2008 09:00:00		33.8	25.1	18.8	975.0	500	550	2	251
25/04/2008 09:07:00		33.9	25.2	18.8	975.2	550	600	2	304
25/04/2008 09:15:00		33.9	25.0	18.9	975.2	600	650	2	358
25/04/2008 09:28:00		33.9	24.9	19.1	975.0	650	730	2	444
25/04/2008 09:53:00		33.9	24.7	19.4	975.0	730	850	2	574
25/04/2008 11:08:00		33.9	26.7	20.6	973.9	850	1060	2	797
25/04/2008 12:51:00		34.2	27.6	21.4	972.9	100	420	2	969
25/04/2008 14:59:00		34.8	26.3	22.9	972.6	430	650	2	1196
25/04/2008 18:01:00		36.2	25.1	23.3	973.7	650	950	2	1506
26/04/2008 08:36:00		35.4	21.7	16.9	977.1	100	460	2	1785
26/04/2008 17:21:00		36.5	29.8	23.3	972.2	100	330	2	1927
27/04/2008 08:42:00		35.8	21.6	16.7	976.0	310	400	2	2051
28/04/2008 09:02:00		35.3	21.5	19.6	977.7	410	510	2	2178
29/04/2008 08:01:00		36.5	17.6	15.0	984.0	750	840	2	2334
30/04/2008 16:08:00		34.6	29.4	19.5	979.4	100	270	2	2399
07/05/2008 09:10:00		39.6	24.8	23.6	1021.5	200	310	2	2645
09/05/2008 16:14:00		35.7	22.7	22.4	1025.7	200	340	2	2868
10/05/2008 15:52:00		30.1	26.1	24.0	1024.4	200	330	2	3073
11/05/2008 16:24:00		33.0	25.1	22.9	1026.3	200	340	2	3170

Arrow Energy Plainview 3 - Sample PV3ED102 - 464.760 to 465.720 metres

Date	Time	Temperature (°C)			Abs. Air Pressure (hPa)	Inverted Cylinder			Cumulative Q2 (cc at STP)
		Canister	Air	H ₂ O		Start (cc)	Finish (cc)	Size	
DD/MM/YY	HH:MM								
12/05/2008	11:03:00	35.4	23.2	23.6	1028.4	200	310	2	3242
13/05/2008	11:55:00	32.1	23.0	20.1	1027.7	200	340	2	3432
15/05/2008	10:48:00	37.1	23.4	22.3	1027.1	200	340	2	3481
19/05/2008	11:29:00	36.3	21.6	20.2	1021.3	200	320	2	3576
25/05/2008	17:16:00	37.2	22.9	21.4	1031.1	100	235	2	3727
04/06/2008	16:17:00	37.7	22.1	21.6	1022.4	100	240	2	3810
07/06/2008	11:51:00	36.6	26.0	21.9	1030.0	200	210	2	3870
01/07/2008	11:54:00	39.8	21.1	19.7	1017.8	100	230	2	3883

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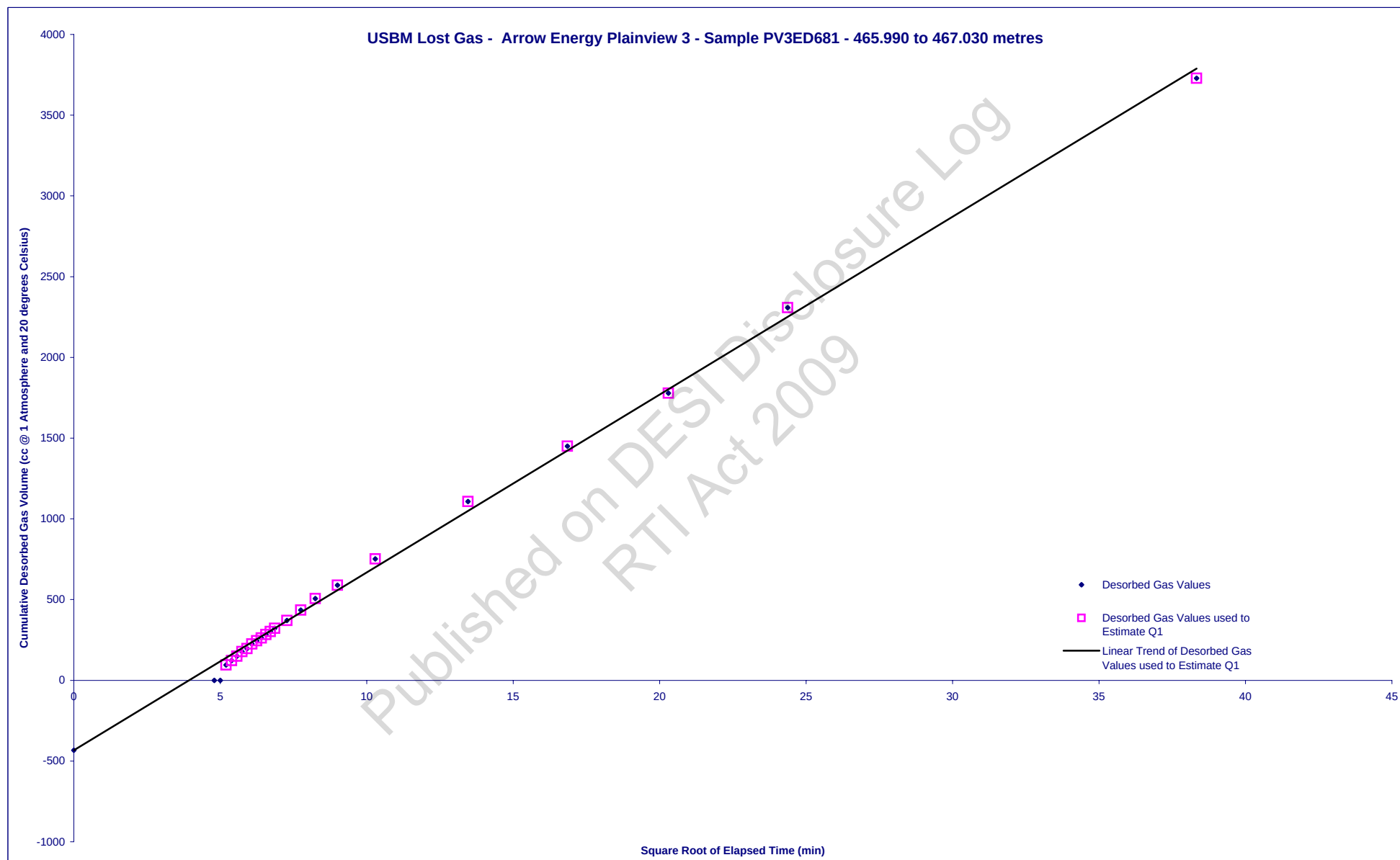
Arrow Energy Plainview 3 - Sample PV3ED681 - 465.990 to 467.030 metres

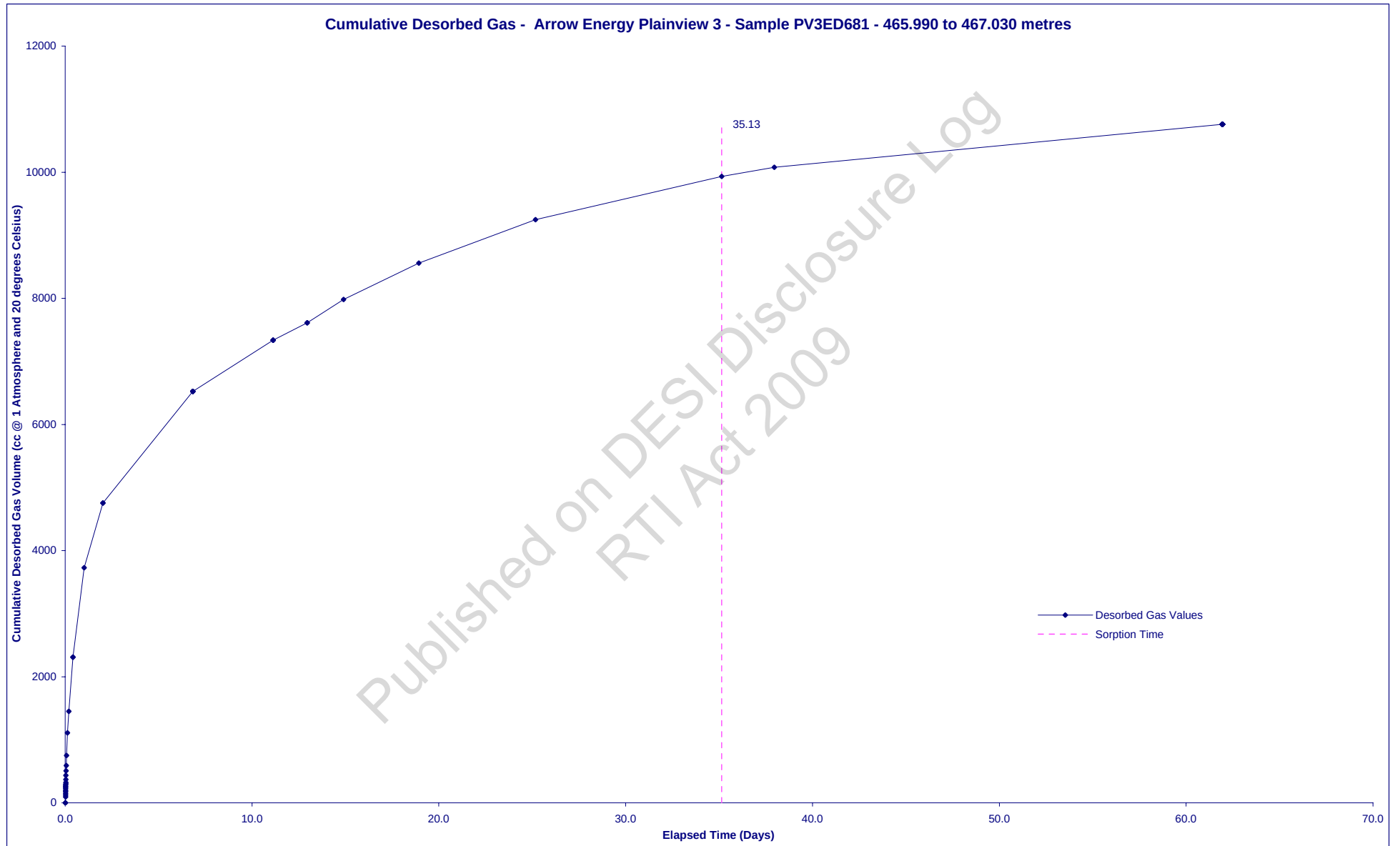
Hole Name	Plainview 3		Operator	Arrow Energy		Basin	Surat	State	QLD
Sample ID	PV3ED681	Sample Type	Core	Sample Top (m)	465.990	Sample Base (m)	467.030	Core Diameter (cm)	6.35
Sample Volume (cc)	3294	Mass (g)	3898	RD (g/cc)	1.36	Moisture (%ad)	4.4	Ash (%ad)	12.2
Q3 Volume (cc@STP)	271.69	Q3 Mass (g)	200.00	Q3 <212 µm (%)	100	Q3 Moisture (%ad)	4.4	Q3 Ash (%ad)	12.2
Can Length (cm)	107	Can Diameter (cm)	10	Can Volume (cc)	8404	Can Void (cc)	4669	Tubing Void (cc)	31
Date and Time	DD/MM/YY	HH:MM		Mud Weight (ppg)	8.3454		Trip Rate (m/min)	51.9	Minimum Q1 Point
Sample Penetrated	25/04/2008	07:39		Formation Pressure (Mpa) @ 0.433 psi/ft	4.56		Surface Time Ratio	0.609	3
Sample Off Bottom	25/04/2008	08:07		Formation Pressure Gradient (psi/ft)	0.433		Lost Time Ratio	0.040	Maximum Q1 Point
Sample at Surface	25/04/2008	08:16		Depth HSP=Formation Pressure (m)	465.42		USBM Q1 - Surface Time Correction	1.2	23
Sample Sealed	25/04/2008	08:30		Formation Temperature (°C)			Smith & Williams Q1 - Q2 Multiplier	1.000	Q1 Points Plotted
Time Zero	25/04/2008	08:07		Standard Temperature (°C)	20.00	Comments: 5.21 day time compression used between 30/04/2008:16:08 and			23
Last Entry	26/06/2008	06:38		Standard Pressure (hPa)	1013	07/05/2008:09:10			-434
Network	Uncorrected USBM Q1	Corrected USBM Q1	Smith & Williams Q1	Q2	Q3	Uncorrected USBM Q1+Q2+Q3	Corrected USBM Q1+Q2+Q3	Smith and Williams Q1+Q2+Q3	Canister Head Space ○ Volumetric ● He Reference
m³	0.000	0.001	0.000	0.011	0.000272				Time Zero Calculation ● Auto ○ Manual ○ Cut Time
m³/tonne (raw)	0.11	0.13	0.00	2.76	1.36				
SCF/T (raw)	4	4	0	88	44				
m³/tonne (daf)	0.13	0.16	0.00	3.31	1.63	5.07	5.10	4.94	
SCF/T (daf)	4	5	0	106	52	163	163	158	
Percent of daf total	2.63%	3.14%	0.00%	64.92%	Sorption Time (days)	35.13	Diffusivity (sec ⁻¹)	3.85458E-06	
Date	Time	Temperature (°C)			Abs. Air Pressure (hPa)	Inverted Cylinder			Cumulative Q2 (cc at STP)
DD/MM/YY	HH:MM	Canister	Air	H ₂ O		Start (cc)	Finish (cc)	Size	
25/04/2008	08:30:00	29.0	23.8	18.0	975.6	100	100	2	0
25/04/2008	08:32:00	30.5	23.8	18.0	975.6	100	210	2	0
25/04/2008	08:34:00	31.3	24.0	18.2	975.6	210	310	2	94
25/04/2008	08:36:00	31.6	24.0	18.2	975.6	310	340	2	122
25/04/2008	08:38:00	31.9	24.1	18.2	975.4	340	370	2	149
25/04/2008	08:40:00	32.1	24.2	18.2	975.4	370	400	2	178
25/04/2008	08:42:00	32.3	24.3	18.2	975.4	400	420	2	196
25/04/2008	08:44:00	32.5	24.4	18.3	975.4	420	450	2	225
25/04/2008	08:46:00	32.6	24.6	18.4	975.4	450	470	2	245
25/04/2008	08:48:00	32.8	24.7	18.5	975.2	470	490	2	262
25/04/2008	08:50:00	32.8	24.7	18.5	975.2	490	510	2	283
25/04/2008	08:52:00	33.0	24.8	18.7	975.2	510	530	2	302
25/04/2008	08:54:00	33.1	24.9	18.7	975.2	530	550	2	322
25/04/2008	09:00:00	33.3	25.1	18.8	975.0	550	600	2	371
25/04/2008	09:07:00	33.4	25.2	18.8	975.2	600	660	2	434
25/04/2008	09:15:00	33.6	25.0	18.9	975.2	660	730	2	506
25/04/2008	09:28:00	33.7	24.9	19.1	975.0	730	810	2	589
25/04/2008	09:53:00	33.6	24.7	19.4	975.0	810	960	2	752
25/04/2008	11:08:00	33.2	26.7	20.6	973.9	960	1290	2	1108
25/04/2008	12:51:00	33.3	27.6	21.4	972.9	100	600	2	1451
25/04/2008	14:59:00	34.1	26.3	22.9	972.6	600	920	2	1779
25/04/2008	18:01:00	35.0	25.1	23.3	973.7	950	1440	2	2308
26/04/2008	08:36:00	34.8	21.7	16.9	977.1	100	1550	2	3728
26/04/2008	17:21:00	35.3	29.8	23.3	972.2	100	550	2	3954
27/04/2008	08:42:00	34.5	21.6	16.7	976.0	510	1220	2	4754
28/04/2008	09:02:00	34.1	21.5	19.6	977.7	580	1280	2	5440
29/04/2008	08:01:00	35.8	17.6	15.0	984.0	770	1490	2	6178
30/04/2008	16:08:00	33.4	29.4	19.5	979.4	100	420	2	6320
07/05/2008	09:10:00	39.6	24.8	23.6	1021.5	200	320	2	6525
09/05/2008	16:14:00	35.6	22.7	22.4	1025.7	200	740	2	7190
10/05/2008	15:52:00	30.1	26.1	24.0	1024.4	200	310	2	7305
11/05/2008	16:24:00	33.4	25.1	22.9	1026.3	200	280	2	7337

Arrow Energy Plainview 3 - Sample PV3ED681 - 465.990 to 467.030 metres

Date	Time	Temperature (°C)			Abs. Air Pressure (hPa)	Inverted Cylinder			Cumulative Q2 (cc at STP)
		Canister	Air	H ₂ O		Start (cc)	Finish (cc)	Size	
DD/MM/YY	HH:MM								
12/05/2008	11:03:00	36.9	23.2	23.6	1028.4	200	450	2	7562
13/05/2008	11:55:00	32.1	23.0	20.1	1027.7	200	220	2	7613
15/05/2008	10:48:00	37.8	23.4	22.3	1027.1	200	610	2	7982
19/05/2008	11:29:00	37.7	21.6	20.2	1021.3	200	790	2	8559
25/05/2008	17:27:00	37.5	22.9	21.4	1030.9	100	760	2	9247
04/06/2008	16:23:00	39.1	22.4	21.5	1022.8	100	850	2	9931
07/06/2008	12:08:00	37.2	26.1	22.0	1030.0	100	280	2	10078
01/07/2008	11:40:00	36.2	21.1	19.6	1017.8	100	770	2	10761

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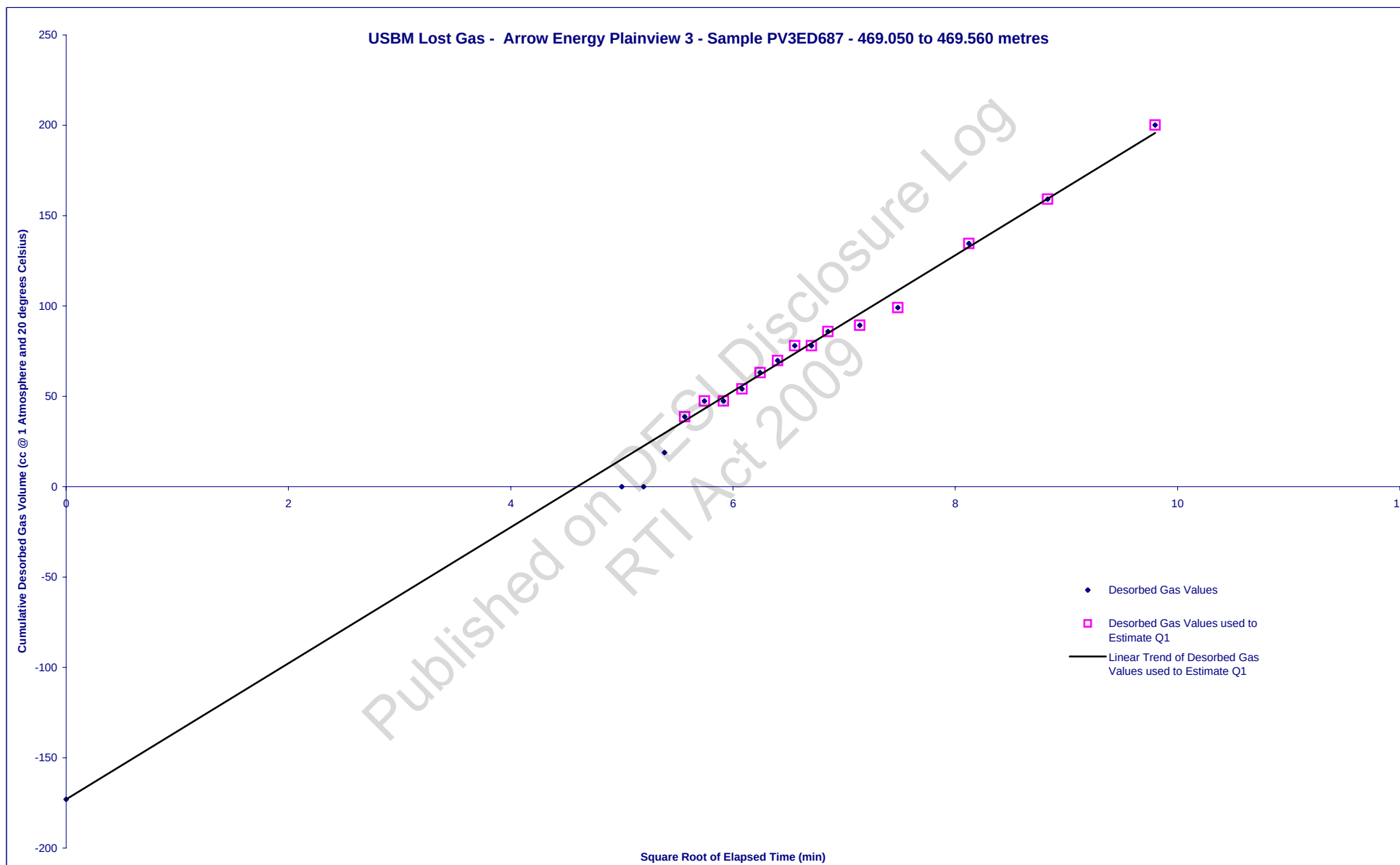
Arrow Energy Plainview 3 - Sample PV3ED687 - 469.050 to 469.560 metres

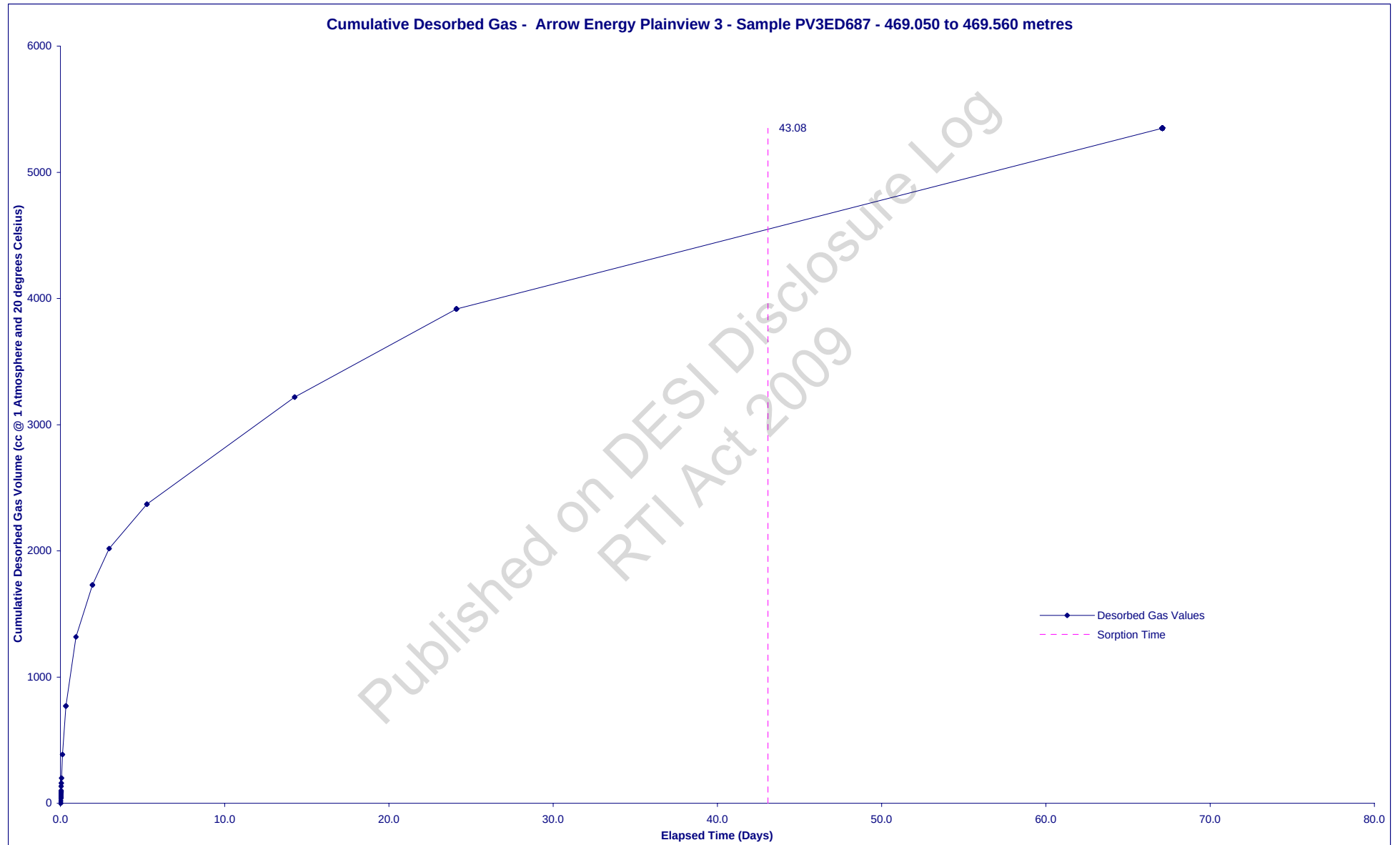
Hole Name	Plainview 3		Operator	Arrow Energy		Basin	Surat	State	QLD
Sample ID	PV3ED687	Sample Type	Core	Sample Top (m)	469.050	Sample Base (m)	469.560	Core Diameter (cm)	6.35
Sample Volume (cc)	1615	Mass (g)	1724	RD (g/cc)	1.39	Moisture (%ad)	4.9	Ash (%ad)	11.8
Q3 Volume (cc@STP)	272.67	Q3 Mass (g)	200.00	Q3 <212 μm (%)	100	Q3 Moisture (%ad)	4.9	Q3 Ash (%ad)	11.8
Can Length (cm)	57	Can Diameter (cm)	10	Can Volume (cc)	4477	Can Void (cc)	2647	Tubing Void (cc)	31
Date and Time	DD/MM/YY	HH:MM		Mud Weight (ppg)	8.3454		Trip Rate (m/min)	39.1	Minimum Q1 Point
Sample Penetrated	25/04/2008	09:39		Formation Pressure (Mpa) @ 0.433 psi/ft	4.59		Surface Time Ratio	0.520	4
Sample Off Bottom	25/04/2008	09:49		Formation Pressure Gradient (psi/ft)	0.433		Lost Time Ratio	0.019	Maximum Q1 Point
Sample at Surface	25/04/2008	10:01		Depth HSP=Formation Pressure (m)	468.48	USBM Q1 - Surface Time Correction	1.15		17
Sample Sealed	25/04/2008	10:14		Formation Temperature (°C)		Smith & Williams Q1 - Q2 Multiplier	1.000		Q1 Points Plotted
Time Zero	25/04/2008	09:49		Standard Temperature (°C)	20.00	Comments:			17
Last Entry	01/07/2008	11:54		Standard Pressure (hPa)	1013				-173
Network	Uncorrected USBM Q1	Corrected USBM Q1	Smith & Williams Q1	Q2	Q3	Uncorrected USBM Q1+Q2+Q3	Corrected USBM Q1+Q2+Q3	Smith and Williams Q1+Q2+Q3	Canister Head Space
m³	0.000	0.000	0.000	0.005	0.000273				☐ Volumetric
m³/tonne (raw)	0.10	0.12	0.00	3.10	1.36				☒ He Reference
SCF/T (raw)	3	4	0	99	44				Time Zero Calculation
m³/tonne (daf)	0.12	0.14	0.00	3.73	1.64	5.48	5.50	5.36	
SCF/T (daf)	4	4	0	119	52	176	176	172	
Percent of daf total	2.20%	2.52%	0.00%	67.73%	Sorption Time (days)	43.08	Diffusivity (sec ⁻¹)	1.98148E-06	
Date	Time	Temperature (°C)		Abs: Air Pressure (hPa)		Inverted Cylinder		Cumulative Q2 (cc at STP)	
DD/MM/YY	HH:MM	Canister	Air	H ₂ O		Start (cc)	Finish (cc)	Size	
25/04/2008	10:14:00	30.1	25.7	19.7	974.5	100	100	2	0
25/04/2008	10:16:00	30.2	25.7	19.8	974.5	100	160	2	0
25/04/2008	10:18:00	30.3	25.7	19.7	974.5	160	180	2	19
25/04/2008	10:20:00	30.3	25.8	19.7	974.6	180	200	2	39
25/04/2008	10:22:00	30.4	25.9	19.8	974.5	200	210	2	47
25/04/2008	10:24:00	30.6	26.0	19.8	974.5	210	210	2	47
25/04/2008	10:26:00	31.0	26.1	19.9	974.5	210	220	2	54
25/04/2008	10:28:00	31.1	26.1	20.0	974.5	220	230	2	63
25/04/2008	10:30:00	31.5	26.2	20.0	974.5	230	240	2	70
25/04/2008	10:32:00	31.7	26.2	20.0	974.5	240	250	2	78
25/04/2008	10:34:00	32.0	26.3	20.0	974.5	250	250	2	78
25/04/2008	10:36:00	32.2	26.4	20.1	974.3	250	260	2	86
25/04/2008	10:40:00	33.0	26.5	20.2	974.3	260	270	2	89
25/04/2008	10:45:00	33.0	26.5	20.2	974.3	270	280	2	99
25/04/2008	10:55:00	33.5	26.5	20.4	974.3	280	320	2	135
25/04/2008	11:07:00	34.0	26.7	20.6	973.9	320	350	2	159
25/04/2008	11:25:00	33.7	27.2	20.7	973.7	350	390	2	200
25/04/2008	12:49:00	33.8	27.5	21.7	973.1	390	580	2	385
25/04/2008	14:58:00	35.6	26.3	22.9	972.4	580	760	2	549
25/04/2008	16:59:00	36.5	27.1	23.9	973.1	760	950	2	733
25/04/2008	18:00:00	35.9	25.2	23.3	973.7	950	980	2	770
26/04/2008	08:36:00	35.0	21.7	16.9	977.1	100	700	2	1318
26/04/2008	17:21:00	35.9	29.8	23.3	972.2	100	280	2	1423
27/04/2008	08:42:00	35.2	21.6	16.7	976.0	260	550	2	1729
28/04/2008	09:02:00	34.0	21.5	19.6	977.7	550	820	2	2018
29/04/2008	08:01:00	35.0	17.6	15.0	984.0	870	1150	2	2325
30/04/2008	16:08:00	33.9	29.4	19.5	979.4	100	240	2	2370
07/05/2008	18:05:00	35.0	22.6	18.6	1018.8	200	680	2	2966
09/05/2008	16:00:00	37.1	23.1	22.4	1025.3	200	480	2	3218
10/05/2008	16:25:00	29.5	25.3	23.5	1024.6	200	150	2	3218
11/05/2008	16:33:00	34.0	24.7	23.0	1026.5	200	290	2	3283
12/05/2008	11:19:00	36.0	23.0	23.6	1028.4	200	310	2	3378

Arrow Energy Plainview 3 - Sample PV3ED687 - 469.050 to 469.560 metres

Date	Time	Temperature (°C)			Abs. Air Pressure (hPa)	Inverted Cylinder			Cumulative Q2 (cc at STP)
		Canister	Air	H ₂ O		Start (cc)	Finish (cc)	Size	
DD/MM/YY	HH:MM								
13/05/2008	12:12:00	32.0	22.1	20.7	1026.9	200	200	2	3398
15/05/2008	11:02:00	36.8	23.4	22.2	1026.9	200	420	2	3589
19/05/2008	12:24:00	37.4	21.8	20.0	1020.5	200	550	2	3916
25/05/2008	17:16:00	34.6	22.9	21.4	1031.1	100	430	2	4276
04/06/2008	16:17:00	35.5	22.1	21.6	1022.4	100	590	2	4733
07/06/2008	11:51:00	35.7	26.0	21.9	1030.0	200	190	2	4733
01/07/2008	11:54:00	36.8	21.1	19.7	1017.8	100	730	2	5350

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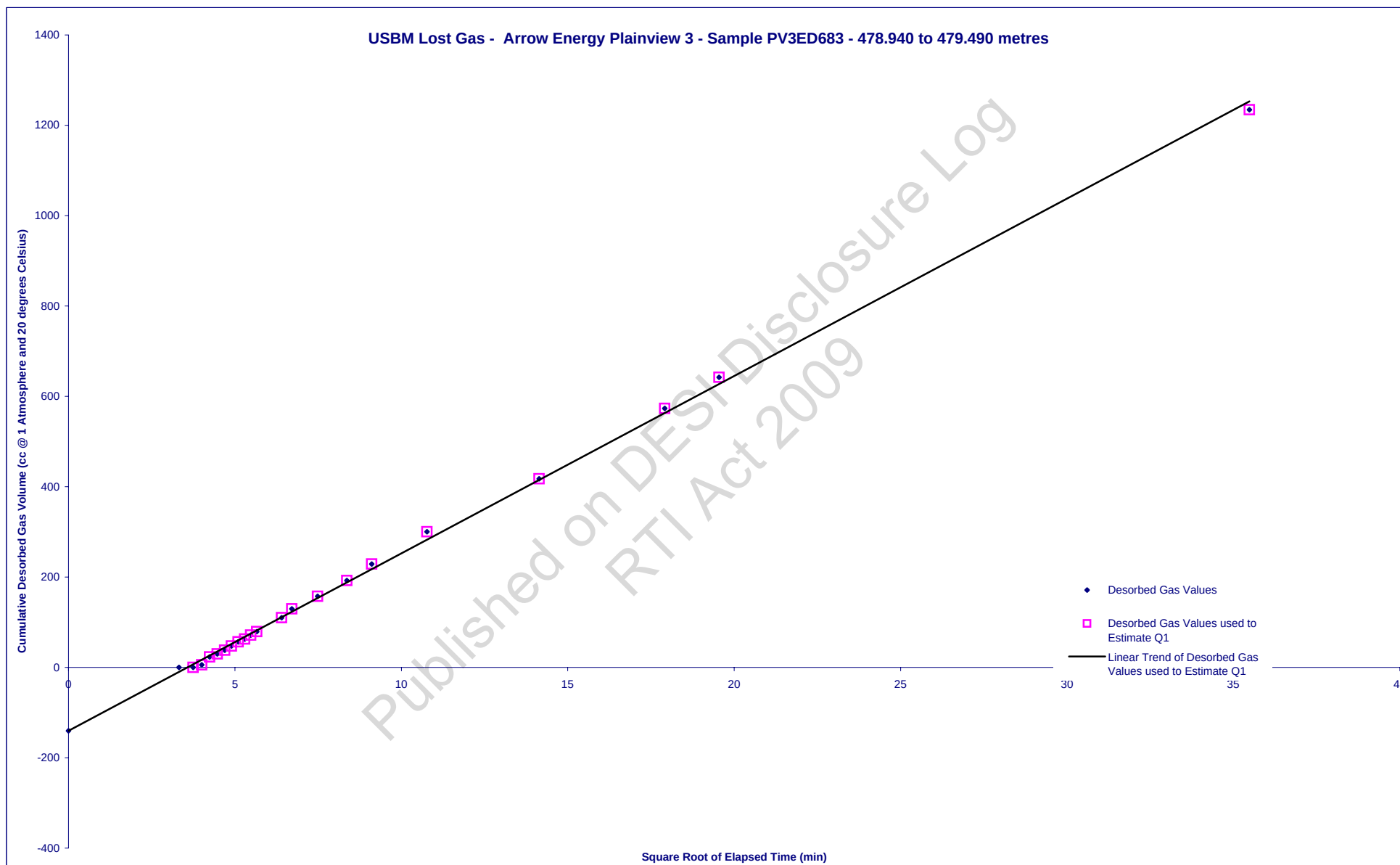
Arrow Energy Plainview 3 - Sample PV3ED683 - 478.940 to 479.490 metres

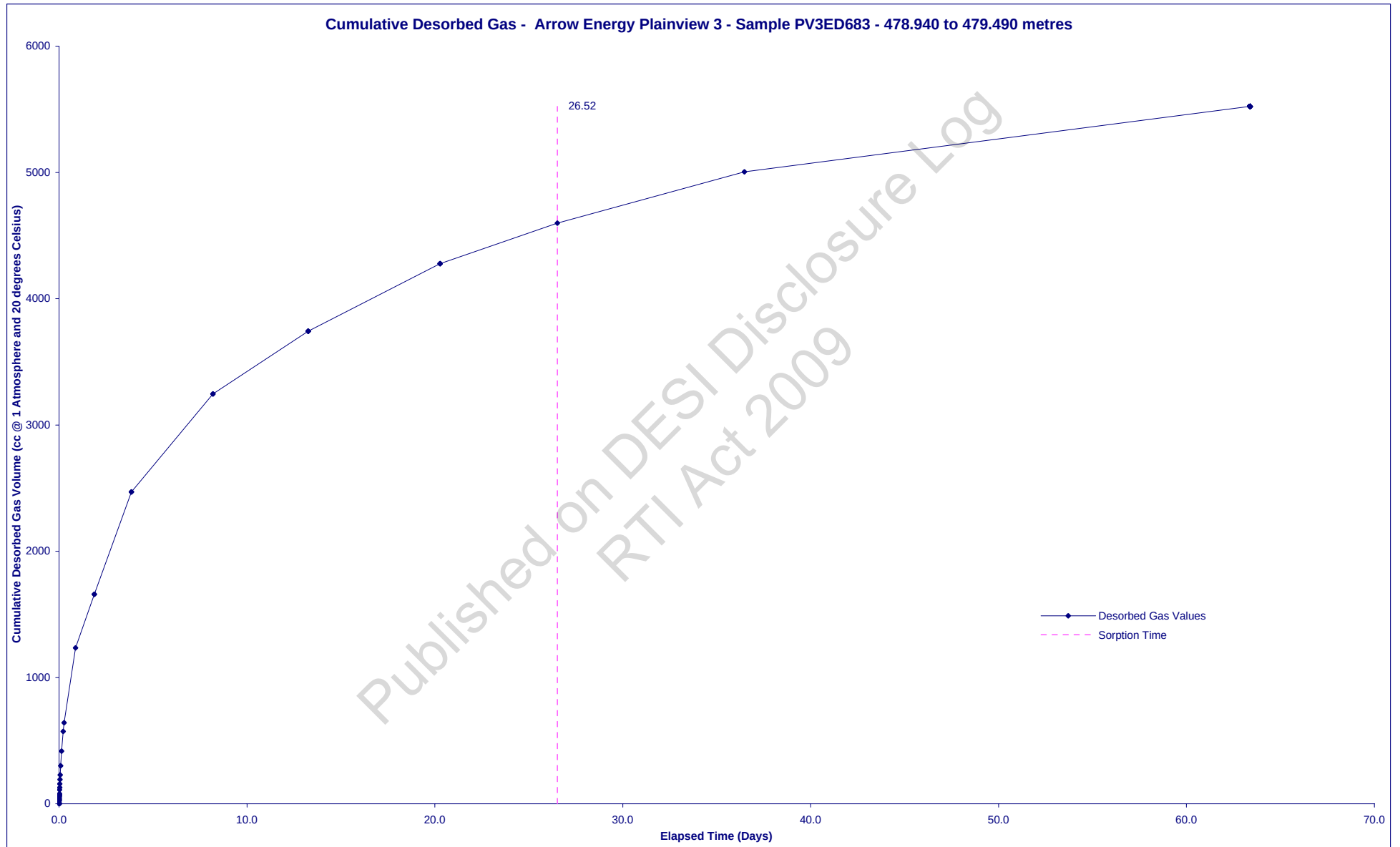
Hole Name	Plainview 3		Operator	Arrow Energy		Basin	Surat	State	QLD
Sample ID	PV3ED683	Sample Type	Core	Sample Top (m)	478.940	Sample Base (m)	479.490	Core Diameter (cm)	6.35
Sample Volume (cc)	1742	Mass (g)	2217	RD (g/cc)	1.48	Moisture (%ad)	4.2	Ash (%ad)	18.5
Q3 Volume (cc@STP)	221.08	Q3 Mass (g)	200.00	Q3 <212 µm (%)	100	Q3 Moisture (%ad)	4.2	Q3 Ash (%ad)	18.5
Can Length (cm)	57	Can Diameter (cm)	10	Can Volume (cc)	4477	Can Void (cc)	2647	Tubing Void (cc)	31
Date and Time	DD/MM/YY	HH:MM		Mud Weight (ppg)	8.3454		Trip Rate (m/min)	-40.0	Minimum Q1 Point
Sample Penetrated	25/04/2008	11:07		Formation Pressure (Mpa) @ 0.433 psi/ft	4.69		Surface Time Ratio	2.088	2
Sample Off Bottom	25/04/2008	11:37		Formation Pressure Gradient (psi/ft)	0.433		Lost Time Ratio	0.006	Maximum Q1 Point
Sample at Surface	25/04/2008	11:25		Depth HSP=Formation Pressure (m)	478.36		USBM Q1 - Surface Time Correction	1.3	21
Sample Sealed	25/04/2008	11:48		Formation Temperature (°C)			Smith & Williams Q1 - Q2 Multiplier	1.000	Q1 Points Plotted
Time Zero	25/04/2008	11:36		Standard Temperature (°C)	20.00	Comments: 3.72 day time compression used between 30/04/2008:16:08 and 7/05/2008:09:30			21
Last Entry	27/06/2008	20:46		Standard Pressure (hPa)	1013				-140
Network	Uncorrected USBM Q1	Corrected USBM Q1	Smith & Williams Q1	Q2	Q3	Uncorrected USBM Q1+Q2+Q3	Corrected USBM Q1+Q2+Q3	Smith and Williams Q1+Q2+Q3	Canister Head Space ○ Volumetric ● He Reference
m³	0.000	0.000	0.000	0.006	0.000221				Time Zero Calculation ● Auto ○ Manual ○ Cut Time
m³/tonne (raw)	0.06	0.08	0.00	2.49	1.11				
SCF/T (raw)	2	3	0	80	35				
m³/tonne (daf)	0.08	0.11	0.00	3.22	1.43	4.73	4.76	4.65	
SCF/T (daf)	3	3	0	103	46	152	152	149	
Percent of daf total	1.73%	2.24%	0.00%	67.72%	Sorption Time (days)	26.52	Diffusivity (sec ⁻¹)	2.02359E-06	
Date	Time	Temperature (°C)			Abs. Air Pressure (hPa)	Inverted Cylinder			Cumulative Q2 (cc at STP)
DD/MM/YY	HH:MM	Canister	Air	H ₂ O		Start (cc)	Finish (cc)	Size	
25/04/2008	11:48:00	30.0	25.5	20.7	973.9	100	100	2	0
25/04/2008	11:51:00	30.1	25.7	20.7	973.9	100	190	2	0
25/04/2008	11:53:00	30.6	25.8	20.8	973.9	190	200	2	6
25/04/2008	11:55:00	30.9	25.9	20.8	973.9	200	220	2	23
25/04/2008	11:57:00	31.2	26.1	20.9	973.7	220	230	2	30
25/04/2008	11:59:00	31.4	26.3	21.0	973.7	230	240	2	38
25/04/2008	12:01:00	31.5	26.3	21.0	973.7	240	250	2	47
25/04/2008	12:03:00	31.5	26.4	21.0	973.5	250	260	2	57
25/04/2008	12:05:00	31.9	26.7	21.1	973.3	260	270	2	63
25/04/2008	12:07:00	32.0	26.8	21.2	973.3	270	280	2	72
25/04/2008	12:09:00	32.3	29.9	21.2	973.3	280	290	2	79
25/04/2008	12:18:00	32.2	27.2	21.3	973.6	290	320	2	110
25/04/2008	12:22:00	32.1	27.5	21.4	973.3	320	340	2	130
25/04/2008	12:33:00	32.3	27.2	21.5	973.3	340	370	2	158
25/04/2008	12:47:00	32.8	27.4	21.7	973.1	370	410	2	192
25/04/2008	13:00:00	33.1	27.7	21.7	972.9	410	450	2	229
25/04/2008	13:33:00	33.9	27.4	22.1	972.6	450	530	2	300
25/04/2008	14:57:00	34.1	26.3	22.9	972.4	530	650	2	417
25/04/2008	16:58:00	37.2	27.2	23.9	972.9	650	830	2	573
25/04/2008	17:59:00	36.3	25.2	23.3	973.5	830	890	2	642
26/04/2008	08:36:00	34.9	21.7	16.9	977.1	100	730	2	1234
26/04/2008	17:21:00	35.6	29.8	23.3	972.2	100	300	2	1357
27/04/2008	08:42:00	34.5	21.6	16.7	976.0	100	400	2	1660
28/04/2008	09:02:00	33.5	21.5	19.6	977.7	520	820	2	1988
29/04/2008	08:01:00	36.1	17.6	15.0	984.0	620	1100	2	2469
30/04/2008	16:08:00	34.2	29.4	19.5	979.4	610	800	2	2620
07/05/2008	09:30:00	40.4	25.4	23.5	1021.3	200	790	2	3246
09/05/2008	16:28:00	36.2	22.4	22.3	1025.9	200	490	2	3547
10/05/2008	15:42:00	29.5	25.7	23.8	1024.0	200	220	2	3593
11/05/2008	16:27:00	34.0	24.9	23.1	1026.7	200	270	2	3634
12/05/2008	11:10:00	37.1	22.8	23.6	1028.4	200	330	2	3742
13/05/2008	12:00:00	32.0	22.6	20.2	1027.7	200	190	2	3761

Arrow Energy Plainview 3 - Sample PV3ED683 - 478.940 to 479.490 metres

Date	Time	Temperature (°C)			Abs. Air Pressure (hPa)	Inverted Cylinder			Cumulative Q2 (cc at STP)
		Canister	Air	H ₂ O		Start (cc)	Finish (cc)	Size	
DD/MM/YY	HH:MM								
15/05/2008	10:53:00	37.1	23.4	22.3	1027.1	200	410	2	3938
19/05/2008	11:46:00	36.5	21.3	20.0	1021.1	200	550	2	4278
25/05/2008	17:31:00	35.7	22.9	21.4	1031.1	100	410	2	4598
04/06/2008	16:26:00	37.9	21.9	21.5	1022.8	100	550	2	5005
07/06/2008	12:17:00	36.2	26.4	22.0	1029.6	100	170	2	5071
01/07/2008	14:08:00	36.8	21.1	19.7	1017.8	100	570	2	5523

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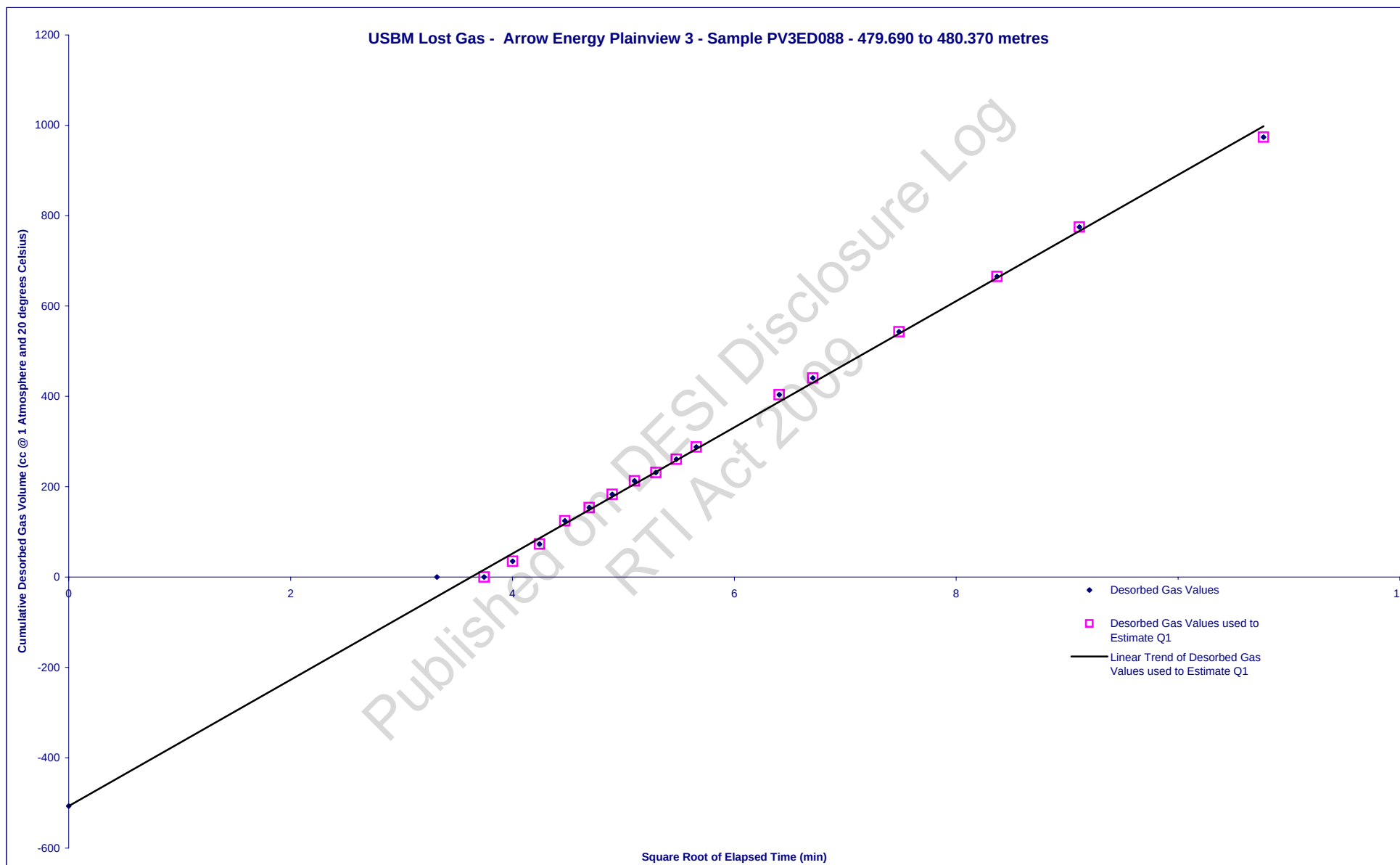
Arrow Energy Plainview 3 - Sample PV3ED088 - 479.690 to 480.370 metres

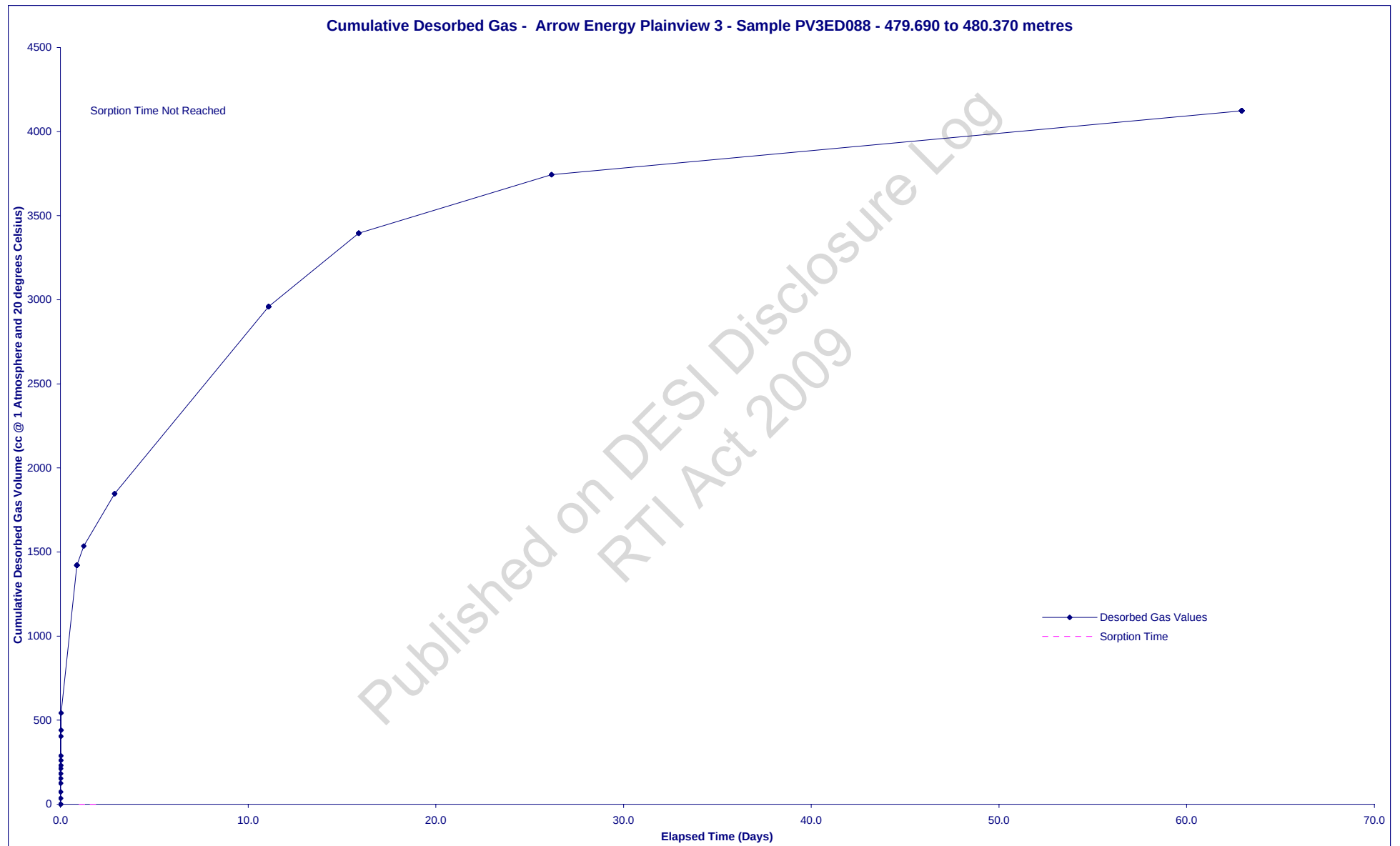
Hole Name	Plainview 3		Operator	Arrow Energy		Basin	Surat	State	QLD
Sample ID	PV3ED088	Sample Type	Core	Sample Top (m)	479.690	Sample Base (m)	480.370	Core Diameter (cm)	6.35
Sample Volume (cc)	2154	Mass (g)	2786	RD (g/cc)	1.49	Moisture (%ad)	5.2	Ash (%ad)	26.3
Q3 Volume (cc@STP)	249.97	Q3 Mass (g)	200.00	Q3 <212 µm (%)	100	Q3 Moisture (%ad)	5.2	Q3 Ash (%ad)	26.3
Can Length (cm)	107	Can Diameter (cm)	10	Can Volume (cc)	8404	Can Void (cc)	5719	Tubing Void (cc)	31
Date and Time	DD/MM/YY	HH:MM	Mud Weight (ppg)		8.3454	Trip Rate (m/min)		-40.0	Minimum Q1 Point
Sample Penetrated	25/04/2008	11:16	Formation Pressure (Mpa) @ 0.433 psi/ft		4.70	Surface Time Ratio		2.088	2
Sample Off Bottom	25/04/2008	11:37	Formation Pressure Gradient (psi/ft)		0.433	Lost Time Ratio		0.058	Maximum Q1 Point
Sample at Surface	25/04/2008	11:25	Depth HSP=Formation Pressure (m)		479.11	USBM Q1 - Surface Time Correction		1.3	17
Sample Sealed	25/04/2008	11:48	Formation Temperature (°C)			Smith & Williams Q1 - Q2 Multiplier		1.000	Q1 Points Plotted
Time Zero	25/04/2008	11:36	Standard Temperature (°C)		20.00	Comments: 4.08 day time compression used between 1/05/2008:07:42 and 7/05/2008:09:30			17
Last Entry	27/06/2008	09:52	Standard Pressure (hPa)		1013				-507
Network	Uncorrected USBM Q1	Corrected USBM Q1	Smith & Williams Q1	Q2	Q3	Uncorrected USBM Q1+Q2+Q3	Corrected USBM Q1+Q2+Q3	Smith and Williams Q1+Q2+Q3	Canister Head Space ○ Volumetric ● He Reference
m³	0.001	0.001	0.000	0.004	0.000250				Time Zero Calculation ● Auto ○ Manual ○ Cut Time
m³/tonne (raw)	0.18	0.24	0.00	1.48	1.25				
SCF/T (raw)	6	8	0	47	40				
m³/tonne (daf)	0.27	0.35	0.00	2.16	1.82	4.25	4.33	3.99	
SCF/T (daf)	9	11	0	69	58	136	139	128	
Percent of daf total	6.25%	7.97%	0.00%	49.89%	Sorption Time (days)	Not Reached	Diffusivity (sec ⁻¹)	2.49454E-05	
Date	Time	Temperature (°C)			Abs. Air Pressure (hPa)	Inverted Cylinder			Cumulative Q2 (cc at STP)
DD/MM/YY	HH:MM	Canister	Air	H ₂ O		Start (cc)	Finish (cc)	Size	
25/04/2008	11:48:00	29.9	25.5	20.7	973.9	100	100	2	0
25/04/2008	11:51:00	30.5	25.7	20.7	973.9	100	320	2	0
25/04/2008	11:53:00	31.0	25.8	20.8	973.9	320	360	2	35
25/04/2008	11:55:00	31.3	25.9	20.8	973.9	360	400	2	73
25/04/2008	11:57:00	31.4	26.1	20.9	973.7	400	450	2	125
25/04/2008	11:59:00	31.6	26.3	21.0	973.7	450	480	2	154
25/04/2008	12:01:00	31.8	26.3	21.0	973.7	480	510	2	183
25/04/2008	12:03:00	31.9	26.4	21.0	973.5	510	540	2	213
25/04/2008	12:05:00	32.0	26.7	21.1	973.3	540	560	2	232
25/04/2008	12:07:00	32.2	26.8	21.2	973.3	560	590	2	261
25/04/2008	12:09:00	32.5	29.9	21.2	973.3	590	620	2	288
25/04/2008	12:18:00	32.2	27.2	21.3	973.6	620	720	2	404
25/04/2008	12:22:00	32.5	27.5	21.4	973.3	720	760	2	441
25/04/2008	12:33:00	32.9	27.2	21.5	973.3	760	860	2	543
25/04/2008	12:47:00	33.4	27.4	21.7	973.1	860	980	2	665
25/04/2008	13:00:00	34.0	27.7	21.7	972.9	980	1090	2	775
25/04/2008	13:33:00	35.2	27.4	22.1	972.6	1090	1290	2	974
25/04/2008	14:57:00	34.7	26.3	22.9	972.4	100	310	2	991
25/04/2008	16:58:00	37.8	27.2	23.9	972.9	310	500	2	1147
25/04/2008	17:59:00	36.4	25.2	23.3	973.5	500	620	2	1305
26/04/2008	08:36:00	34.8	21.7	16.9	977.1	100	250	2	1421
26/04/2008	17:21:00	35.6	29.8	23.3	972.2	100	270	2	1535
27/04/2008	08:42:00	34.5	21.6	16.7	976.0	250	370	2	1704
28/04/2008	09:02:00	33.7	21.5	19.6	977.7	360	470	2	1847
29/04/2008	08:01:00	36.1	17.6	15.0	984.0	450	560	2	1962
30/04/2008	16:08:00	34.3	29.4	19.5	979.4	650	710	2	2048
01/05/2008	07:42:00	45.3	11.0	12.0	986.8	100	220	2	2048
07/05/2008	09:30:00	40.7	25.4	23.5	1021.3	200	340	2	2470
09/05/2008	16:28:00	37.2	22.4	22.3	1025.9	200	350	2	2704
10/05/2008	15:42:00	30.2	25.7	23.8	1024.0	200	350	2	2959
11/05/2008	16:27:00	34.4	24.9	23.1	1026.7	200	370	2	3064
12/05/2008	11:10:00	37.3	22.8	23.6	1028.4	200	310	2	3116

Arrow Energy Plainview 3 - Sample PV3ED088 - 479.690 to 480.370 metres

Date	Time	Temperature (°C)			Abs. Air Pressure (hPa)	Inverted Cylinder			Cumulative Q2 (cc at STP)
		Canister	Air	H ₂ O		Start (cc)	Finish (cc)	Size	
DD/MM/YY	HH:MM								
13/05/2008	12:00:00	32.9	22.6	20.2	1027.7	200	390	2	3389
15/05/2008	10:53:00	38.0	23.4	22.3	1027.1	200	320	2	3396
19/05/2008	11:46:00	38.2	21.3	20.0	1021.1	200	330	2	3485
25/05/2008	17:27:00	36.9	22.9	21.4	1030.9	100	295	2	3744
04/06/2008	16:21:00	37.5	22.4	21.5	1022.8	100	240	2	3811
07/06/2008	12:08:00	35.8	26.1	22.0	1030.0	100	220	2	3992
01/07/2008	11:40:00	36.1	21.1	19.6	1017.8	100	300	2	4123

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Appendix II
Geological Descriptions

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Arrow Energy Plainview 3

Hole Summary

	Easting		Northing		Zone	
	319860.000		6959230.000		56	
RL Ground (AHD):	350.000		RL RKB (AHD):			
Accuracy:	Well Spec Card		Survey Source:		Client	
Start Date:	12-Apr-08		Finish Date:		01-May-08	
Base of Alluvials (m):			Weathered Depth (m):			
SWL(m):			Deviation at TD:			
Total Depth (m):	564.430		Hole Status:			
Non Cored From (m)	Non Cored To (m)	Non Cored Size	Cored From (m)	Cored To (m)	Cored Size	
0.000	144.070		144.070	564.430	HQ	
Casing:	Depth (m)	Size	Material	Type	Recovered	
CSG String 1:	6.000	168.3mm	Steel	Conductor	No	
CSG String 2:	142.600	114mm	Steel	Surface	No	
Geophysical Logs:	From (m)	To(m)	Logging Tool			
Log Run 1:	0.000	541.270	9057A (Density, Gamma, Caliper, Resistivity)			
Geology:	Earth Data Pty Ltd		Geologist:		M. Jacobs & M. Weems	
Drilling Contractor:	JD Drilling		Driller:			
Geophysics:	Coal Seam Wireline Services		Laboratory:		ACIRL Maitland	
Total Core Trays:	120		Core Photos:		YES	
Formation at TD:						
Comments:						

GEOLOGICAL DESCRIPTION OF STRATA		EST'THICK.	EST.DEPTH	RECOVERED	REMARKS
NO SAMPLE		6.000	6.000	0.000	
ALLUVIUM	light brown, fine to medium grained sand, occasional medium and large pebbles.	3.800	9.800	0.000	
SANDSTONE	light brown, medium to coarse grained, tends to gravel, abundant orange pebbles.	3.000	12.800	0.000	
CLAYEY SAND	light brown to grey, fine grained, abundant pink/orange clasts.	3.000	15.800	0.000	
SANDSTONE	light grey, coarse grained, occasional large quartz pebbles.	3.000	18.800	0.000	
ALLUVIUM	light brown to brown, fine grained, occasional pebble, clayey mud throughout.	3.000	21.800	0.000	
ALLUVIUM	brown to light orange, medium grained sand in part.	3.000	24.800	0.000	
ALLUVIUM	yellow brown, clayey throughout, occasional silty.	3.000	27.800	0.000	
ALLUVIUM	yellow to grey, clayey throughout, occasional silt.	3.000	30.800	0.000	
MUDSTONE	grey, clayey.	3.000	33.800	0.000	
MUDSTONE	grey, clayey, occasional silt.	3.000	36.800	0.000	
MUDSTONE	grey, clayey, occasional carbonaceous traces.	3.000	39.800	0.000	
MUDSTONE	grey, silty in part, occasional coal.	3.000	42.800	0.000	
MUDSTONE	grey, clayey, silty in part.	3.000	45.800	0.000	
MUDSTONE	grey, clayey, occasional silt.	3.000	48.800	0.000	
MUDSTONE	grey, clayey, occasional silt.	3.000	51.800	0.000	
MUDSTONE	grey, silty throughout, clayey.	3.000	54.800	0.000	
SILTSTONE	grey, occasional light grey very fine grained sandstone, clayey.	3.000	57.800	0.000	
SILTSTONE	grey, occasional light grey very fine grained sandstone, clayey.	3.000	60.800	0.000	
SILTSTONE	grey, occasional light grey very fine grained sandstone, clayey.	3.000	63.800	0.000	
SANDSTONE	light grey to grey, fine grained, occasional silt, occasional carbonaceous traces.	3.000	66.800	0.000	
SANDSTONE	light grey, fine grained, occasional silt.	3.000	69.800	0.000	
SANDSTONE	light grey to grey, fine grained, very occasional silt.	3.000	72.800	0.000	
SILTSTONE	grey, sandstone in part, occasional carbonaceous traces.	3.000	75.800	0.000	
SILTSTONE	grey, light grey sandstone throughout, clayey.	3.000	78.800	0.000	

GEOLOGICAL DESCRIPTION OF STRATA		EST'THICK.	EST.DEPTH	RECOVERED	REMARKS
SANDSTONE	grey to light grey, fine grained, silty throughout, occasional trace of mud.	3.000	81.800	0.000	
SANDSTONE	light grey to grey, fine grained, occasional silt and clay.	3.000	84.800	0.000	
SANDSTONE	light grey to grey, fine grained, silt throughout.	3.000	87.800	0.000	
SANDSTONE	grey to light grey, fine grained, silt throughout.	3.000	90.800	0.000	
SANDSTONE	light grey to grey, fine grained, occasional silt.	3.000	93.800	0.000	
SILTSTONE	grey, clayey in part.	3.000	96.800	0.000	
SILTSTONE	dark grey, muddy throughout.	3.000	99.800	0.000	
SILTSTONE	dark grey, muddy throughout.	3.000	102.800	0.000	
SILTSTONE	dark grey, very occasional sandstone.	3.000	105.800	0.000	
SANDSTONE	light grey, fine grained, occasional silt.	3.000	108.800	0.000	
SANDSTONE	light grey, fine grained, occasional silt.	3.000	111.800	0.000	
SANDSTONE	light grey, fine grained, very occasional silt.	3.000	114.800	0.000	
SANDSTONE	light grey, fine grained, silt throughout and carbonaceous traces, occasional clay.	3.000	117.800	0.000	
SANDSTONE	light grey, fine grained, occasional silt.	3.000	120.800	0.000	
SANDSTONE	light grey, fine grained, very occasional silt and carbonaceous traces.	3.000	123.800	0.000	
SANDSTONE	light grey, medium grained.	3.000	126.800	0.000	
SILTSTONE	grey, coal throughout, minimal grey sand.	3.000	129.800	0.000	
SANDSTONE	light grey to grey, fine grained, silt throughout, occasional coal fragments.	3.000	132.800	0.000	
SANDSTONE	light grey to grey, medium grained, occasional silt, occasional coal.	3.000	135.800	0.000	
SILTSTONE	grey, coal throughout, occasional mud, very occasional sand.	3.000	138.800	0.000	
SILTSTONE	grey, sandy throughout, occasional coal, mud and clay.	3.000	141.800	0.000	
SILTSTONE	grey, sandy throughout, occasional coal, mud and clay.	2.270	144.070	0.000	
SANDSTONE	light grey to grey, fine to medium grained, carbonaceous throughout, carbonaceous wisps throughout, occasional silty blebs, medium strength.	3.460	147.530	3.460	
CARB MUDSTONE	brown to dark brown, tends to stony coal, medium				

GEOLOGICAL DESCRIPTION OF STRATA		EST'THICK.	EST.DEPTH	RECOVERED	REMARKS
SANDSTONE	strength. light grey, medium grained, coal wisps throughout, occasional carbonaceous laminae, sharp basal contact.	0.050	147.580	0.050	
MUDSTONE	grey, medium strength.	3.180	150.760	3.180	
COAL	Dull banded, calcite veins throughout, face cleat, average spacing 3mm, penetrating 20% of unit, 90% carbonate filled, dips 90 degrees, no visible butt cleat.	0.710	151.470	0.710	
MUDSTONE	grey, tends to silty in part, occasional carbonaceous wisps.	0.100	151.570	0.100	
MUDSTONE	grey, coal band at middle, 3 fractures, 70 degree fracture 0.3m from top of unit, .	1.500	153.070	1.500	
SANDSTONE	grey, fine grained, tends to silty throughout, carbonaceous in part, medium strength, sharp irregular basal contact.	0.820	153.890	0.820	
SILTSTONE	grey, tends to muddy in part, tends to mud/carb mudstone at base, coal band at middle, medium strength, 3 fractures.	0.370	154.260	0.370	
COAL	Dull banded, face cleat, average spacing 5mm, penetrating 15% of unit, 30% clay filled, dips 90 degrees, no visible butt cleat.	1.640	155.900	1.640	
MUDSTONE	grey, very low strength, fractured throughout.	0.080	155.980	0.080	
COAL	Dull banded, face cleat, average spacing 12mm, penetrating 50% of unit, no visible mineralisation, dips 90 degrees, no visible butt cleat.	0.150	156.130	0.150	
CARB MUDSTONE	brown, low strength.	0.070	156.200	0.070	
COAL	Dull banded, face cleat, average spacing 2mm, penetrating 30% of unit, no visible mineralisation, dips 90 degrees, butt cleat, average spacing 4mm, penetrating 30% of unit, no visible mineralisation, dips 90 degrees with azimuth 60 degrees to face cleat.	0.030	156.230	0.030	
MUDSTONE	grey to dark grey, carbonaceous throughout, tuffaceous bands at base.	0.080	156.310	0.080	
COAL	Dull banded, calcite veins throughout.	0.360	156.670	0.360	
SANDSTONE	grey to light grey, very fine grained, fine grained in part, carbonaceous throughout.	0.250	156.920	0.250	PV3 Sample C1
		2.060	158.980	2.060	

GEOLOGICAL DESCRIPTION OF STRATA		EST'THICK.	EST.DEPTH	RECOVERED	REMARKS
SILTSTONE	light grey to grey, medium strength.	0.170	159.150	0.170	
SANDSTONE	light grey to grey, very fine grained, occasional carbonaceous traces, medium strength.	0.520	159.670	0.520	
SANDSTONE	50% light grey to grey, occasional off white, very fine grained.				
SILTSTONE	50% light grey to light brown. occasional coal bands, medium strength.	2.310	161.980	2.310	
SILTSTONE	grey to light grey, occasional coal wisps, medium to high strength, sharp basal contact.	0.230	162.210	0.230	
SANDSTONE	light grey to white, fine grained, very high strength, sharp irregular basal contact.	0.090	162.300	0.090	
SANDSTONE	light grey to grey, very fine grained, occasional fine grained bands, tends to silty throughout, occasional silty blebs, carbonaceous laminae throughout, 1 fracture, sharp basal contact.	1.960	164.260	1.960	
SILTSTONE	grey, very soft clay at top of unit.	0.190	164.450	0.190	
SANDSTONE	grey, fine grained, occasional very high strength white bands, occasional carbonaceous laminae.	0.530	164.980	0.530	
SILTSTONE	grey, tends to muddy throughout, clay band at base, medium strength, sharp basal contact.	0.700	165.680	0.700	
CARB MUDSTONE	brown to dark grey.	0.200	165.880	0.200	
SILTSTONE	grey, coal band at middle, tends to mudstone in part, low to medium strength, occasional fracture.	1.070	166.950	1.070	
COAL	Dull minor bright, face cleat, average spacing 15mm, penetrating 10% of unit, 50% carbonate filled, dips 90 degrees, no visible butt cleat.	0.100	167.050	0.100	
CARB MUDSTONE	brown to dark brown, tends to stony coal in part, medium strength.	0.050	167.100	0.050	
COAL	Dull minor bright, face cleat, average spacing 5mm, penetrating 10% of unit, 80% carbonate filled, dips 90 degrees, no visible butt cleat.	0.110	167.210	0.110	
CARB MUDSTONE	light brown, fractured, sharp irregular basal contact.	0.040	167.250	0.040	
COAL	Dull banded, tends to muddy at base, face cleat, average spacing 3mm, penetrating 20% of unit,				

GEOLOGICAL DESCRIPTION OF STRATA		EST'THICK.	EST.DEPTH	RECOVERED	REMARKS
COAL	80% carbonate filled, dips 90 degrees, butt cleat, average spacing 10mm, penetrating 20% of unit, 80% carbonate filled, dips 90 degrees with azimuth 80 degrees to face cleat.	0.090	167.340	0.090	PV3 Sample C2
MUDSTONE	Stony, dark brown to black, tends to carb mud throughout.	0.080	167.420	0.080	
COAL	grey, coal wisps throughout, sharp basal contact.	0.090	167.510	0.090	
SILTSTONE	Dull banded, face cleat, average spacing 10mm, penetrating 15% of unit, 70% carbonate filled, dips 90 degrees, no visible butt cleat.	0.210	167.720	0.210	
SILTSTONE	grey to light grey, medium to high strength.	0.260	167.980	0.260	
MUDSTONE	grey to light grey, coal wisps at base, medium to high strength, 3 fractures.	1.720	169.700	1.720	Top PV3ED565
SANDSTONE	grey, low strength, 2 fractures.	0.140	169.840	0.140	
SILTSTONE	40% grey, very fine grained.				
SILTSTONE	60% grey.				
SILTSTONE	carbonaceous laminae throughout, medium strength, 2 fractures.	1.140	170.980	1.140	
CARB MUDSTONE	light grey, occasional gradation to claystone.	1.410	172.390	1.410	Base PV3ED565
COAL	brown to black, occasional coal lenses.	0.110	172.500	0.110	
COAL	Dull minor bright, face cleat, average spacing 10mm, penetrating 100% of unit, 100% carbonate filled, dips 90 degrees, butt cleat, average spacing 10mm, penetrating 100% of unit, 100% carbonate filled, dips 90 degrees with azimuth 50 degrees to face cleat.	0.280	172.780	0.280	
COAL	Stony, no visible cleat or fractures.	0.010	172.790	0.010	
COAL	Dull minor bright, tuffaceous in part, face cleat, average spacing 5mm, penetrating 90% of unit, 90% carbonate filled, dips 90 degrees, butt cleat, average spacing 10mm, penetrating 90% of unit, 90% carbonate filled, dips 90 degrees with azimuth 50 degrees to face cleat.	0.410	173.200	0.410	
CARB MUDSTONE	black brown, low strength, sharp basal contact.	0.070	173.270	0.070	Base PV3ED565
COAL	Stony, tuffaceous in part, low strength, no visible cleat or fractures.	0.020	173.290	0.020	
COAL	Dull minor bright, face cleat, average spacing 10mm, penetrating 100% of unit, 70% carbonate				

GEOLOGICAL DESCRIPTION OF STRATA		EST'THICK.	EST.DEPTH	RECOVERED	REMARKS
	filled, dips 90 degrees, butt cleat, average spacing 15mm, penetrating 100% of unit, 70% carbonate filled, dips 90 degrees with azimuth 40 degrees to face cleat.	0.210	173.500	0.210	
SANDSTONE	light grey, very fine grained, occasional carbonaceous laminae, clayey matrix.	0.450	173.950	0.450	
SILTSTONE	grey, traces of carbonaceous fragments.	0.030	173.980	0.030	
SILTSTONE	dull grey to grey, arenaceous, tends to carbonaceous.	0.480	174.460	0.480	
SANDSTONE	light grey, very fine grained, carbonaceous laminae throughout, medium strength.	0.230	174.690	0.230	
SILTSTONE	dull grey to grey, arenaceous, tends to carbonaceous.	0.750	175.440	0.750	
SANDSTONE	light grey, very fine grained, tends to fine grained at base, occasional carbonaceous laminae, tends to silty throughout.	0.460	175.900	0.460	
SILTSTONE	light brown to grey, tends to carbonaceous throughout.	0.840	176.740	0.840	
SANDSTONE	light grey, very fine grained, occasional carbonaceous laminae, tends to silty throughout.	0.240	176.980	0.240	
SILTSTONE	grey, occasional very fine grained sandy bands, coal traces at 0.3m from top of unit, medium strength.	0.530	177.510	0.530	
SANDSTONE	light grey to grey, very fine grained, tends to fine grained in part, medium strength.	2.470	179.980	2.470	
SILTSTONE	grey, occasional carbonaceous laminae, medium strength, 1 fracture.	0.500	180.480	0.500	
SANDSTONE	grey, fine to medium grained, silty bands throughout, soft sediment deformation at base, gradational basal contact.	1.220	181.700	1.220	
MUDSTONE	grey, tends to carbonaceous in part, medium strength, 1 fracture, gradational basal contact.	0.480	182.180	0.480	
SILTSTONE	grey, occasional carbonaceous traces, medium strength.	0.500	182.680	0.500	
SILTSTONE	dark grey to grey, muddy in part, occasional carbonaceous material, carbonaceous at base.	2.840	185.520	2.840	
CARB MUDSTONE	brown to black, tends to stony coal in part.	0.350	185.870	0.350	

GEOLOGICAL DESCRIPTION OF STRATA		EST'THICK.	EST.DEPTH	RECOVERED	REMARKS
SILTSTONE	light brown to off white, tends to claystone throughout, carbonaceous material throughout.	0.200	186.070	0.200	Top PV3ED244
SILTSTONE	black brown, tends to carb mudstone throughout.	0.770	186.840	0.770	
CARB MUDSTONE	black brown, occasional quartz grains.	0.440	187.280	0.440	
SANDSTONE	light grey to brown, very fine grained, carbonaceous laminae throughout.	0.900	188.180	0.880	
COAL	Dull minor bright, occasional stony laminae, face cleat, average spacing 20mm, penetrating 70% of unit, 80% carbonate filled, dips 90 degrees, butt cleat, average spacing 30mm, penetrating 70% of unit, 80% carbonate filled, dips 90 degrees with azimuth 70 degrees to face cleat.	0.760	188.940	0.760	
COAL	Stony, tending to carbonaceous mudstone, face cleat, average spacing 30mm, penetrating 30% of unit, 10% carbonate filled, dips 90 degrees, butt cleat, average spacing 30mm, penetrating 30% of unit, 10% carbonate filled, dips 90 degrees with azimuth 90 degrees to face cleat.	0.130	189.070	0.130	Base PV3ED244
CARB MUDSTONE	tending to stony coal, low strength.	0.060	189.130	0.060	
COAL	Dull, face cleat, average spacing 30mm, penetrating 30% of unit, no visible mineralisation, dips 90 degrees, butt cleat, average spacing 30mm, penetrating 30% of unit, no visible mineralisation, dips 90 degrees with azimuth 90 degrees to face cleat.	0.010	189.140	0.010	
TUFF	grey brown, occasional carbonaceous laminae, very low strength to low strength.	0.030	189.170	0.030	
CARB MUDSTONE	black, tends to stony coal.	0.240	189.410	0.240	
SANDSTONE	light grey, very fine grained, carbonaceous matrix throughout.	0.140	189.550	0.140	Top PV3ED216
CARB MUDSTONE	black, tends to stony coal.	0.250	189.800	0.250	
SILTSTONE	light brown, carbonaceous throughout.	0.290	190.090	0.290	
COAL	Dull minor bright, occasional stony traces, face cleat, average spacing 5mm, penetrating 30% of unit, 20% carbonate filled, dips 90 degrees, butt cleat, average spacing 5mm, penetrating 30% of unit, 20% carbonate filled, dips 90 degrees				

GEOLOGICAL DESCRIPTION OF STRATA		EST'THICK.	EST.DEPTH	RECOVERED	REMARKS
COAL	with azimuth 90 degrees to face cleat. Dull, face cleat, average spacing 20mm, penetrating 50% of unit, 10% carbonate filled, dips 90 degrees, butt cleat, average spacing 20mm, penetrating 50% of unit, 10% carbonate filled, dips 90 degrees with azimuth 70 degrees to face cleat.	0.200	190.290	0.200	Base PV3ED216
COAL	Dull minor bright, occasional stony traces, face cleat, average spacing 20mm, penetrating 30% of unit, 30% carbonate filled, dips 90 degrees, butt cleat, average spacing 30mm, penetrating 30% of unit, 30% carbonate filled, dips 90 degrees with azimuth 70 degrees to face cleat.	0.060	190.350	0.060	
CARB MUDSTONE	black brown, tends to stony coal in part.	0.100	190.450	0.100	
SILTSTONE	light grey, occasional carbonaceous laminae, occasional quartz grains.	0.130	190.580	0.130	
SANDSTONE	30% light grey, very fine grained to fine grained.	1.230	191.810	1.230	
SILTSTONE	70% grey.				
SILTSTONE	interlaminated to thinly interbedded, medium strength.	2.820	194.630	2.820	
SANDSTONE	grey, tends to muddy in part, occasional sandy bands, carbonaceous traces throughout, medium strength.	3.300	197.930	3.280	
COAL	grey, fine grained, coal wisps in part, carbonaceous throughout, low strength, sharp basal contact.	0.990	198.920	0.990	
COAL	Dull minor bright, tends to stony coal throughout, face cleat, average spacing 5mm, penetrating 10% of unit, 50% carbonate filled, dips 90 degrees, no visible butt cleat.	0.090	199.010	0.090	
CARB MUDSTONE	brown dark brown, tends to stony coal in part.	0.050	199.060	0.050	
COAL	Stony, dark brown to black, tends to carb mud in part.	0.040	199.100	0.040	
TUFF	grey to off white, coal band at middle, low strength.	0.050	199.150	0.050	
COAL	Dull minor bright, tuffaceous in part, face cleat, average spacing 4mm, penetrating 10% of unit, 80% carbonate filled, dips 90 degrees, no				

GEOLOGICAL DESCRIPTION OF STRATA		EST'THICK.	EST.DEPTH	RECOVERED	REMARKS
MUDSTONE	visible butt cleat.	0.080	199.230	0.080	
COAL	grey, low strength, fractured throughout.	0.290	199.520	0.290	
	Dull minor bright, face cleat, average spacing 4mm, penetrating 10% of unit, 80% carbonate filled, dips 90 degrees, no visible butt cleat.	0.150	199.670	0.150	
CARB MUDSTONE	brown to dark brown, silty in part.	0.100	199.770	0.100	
MUDSTONE	grey, tends to silty at top, low strength.	0.830	200.600	0.820	
COAL	Dull minor bright, tends to stony coal and carb mud throughout, face cleat, average spacing 5mm, penetrating 10% of unit, 40% carbonate filled, dips 90 degrees, no visible butt cleat.	0.150	200.750	0.150	
SILTSTONE	grey, tends to muddy throughout, low to medium strength, fractured at base.	0.650	201.400	0.650	
SANDSTONE	light grey, fine grained, occasional carbonaceous laminae, silty at base.	1.420	202.820	1.420	
MUDSTONE	grey, low strength, fractured throughout.	0.480	203.300	0.480	
SILTSTONE	grey, medium strength.	0.770	204.070	0.770	
SANDSTONE	60% grey to light grey, very fine grained.				
SILTSTONE	40% grey.				
	occasional fine grained sandy bands, low to medium strength, 7 fractures.	2.850	206.920	2.850	
MUDSTONE	grey, low strength, 1 fracture, sharp basal contact.	0.560	207.480	0.560	
SANDSTONE	grey, fine grained, coal wisps throughout.				
	occasional coal bands, carbonaceous throughout, sharp basal contact.	2.350	209.830	2.350	
SILTSTONE	grey, occasional carbonaceous traces, medium strength.	0.240	210.070	0.240	
SILTSTONE	grey, tends to muddy throughout, 5 fractures, 70 degree fracture at base of unit.	1.130	211.200	1.130	
CARB MUDSTONE	dark brown, occasional coal and tuffaceous bands, tends to mudstone at base, low strength, 2 fractures.	0.560	211.760	0.560	
SILTSTONE	grey, tends to sandy in part, 6 fractures, 80 degree fracture at 0.1m from top of unit, gradational basal contact.	0.770	212.530	0.770	
SANDSTONE	light grey to grey, fine grained, carbonaceous throughout, gradational basal contact.	0.470	213.000	0.470	
SILTSTONE	grey, tends to muddy in part, occasional very				

GEOLOGICAL DESCRIPTION OF STRATA		EST'THICK.	EST.DEPTH	RECOVERED	REMARKS
	fine grained sandy bands, sideritic nodules at base, medium strength, gradational basal contact.	1.610	214.610	1.610	
SIDERITE	light brown, very high strength, gradational basal contact.	0.110	214.720	0.110	
SILTSTONE	grey to light grey, occasional sandy bands, tends to muddy in part, medium strength, 4 fractures.	1.140	215.860	1.140	
SILTSTONE	light grey, tends to very fine grained sandstone throughout, low to medium strength, 1 fracture, gradational basal contact.	1.710	217.570	1.710	
SANDSTONE	light grey, fine grained, occasional silty bands, carbonaceous wisps at base, 1 fracture.	1.700	219.270	1.700	
SIDERITE	light grey, calcite veins throughout, carb mud band at top, very high strength.	0.200	219.470	0.200	
SILTSTONE	light grey to grey, soft sediment deformation at base, carbonaceous throughout, 2 fractures, sharp basal contact.	0.620	220.090	0.620	
CARB MUDSTONE	brown to dark brown, tends to mudstone at base, low to medium strength, gradational basal contact.	0.360	220.450	0.360	
SILTSTONE	grey, muddy at top, low to medium strength, 1 fracture.	0.840	221.290	0.840	
SANDSTONE	light grey, fine grained, medium strength.	0.230	221.520	0.230	
SILTSTONE	grey, tends to muddy in part, medium strength.	0.310	221.830	0.310	
MUDSTONE	grey, low strength, sharp basal contact.	0.720	222.550	0.720	
MUDSTONE	off white to light grey, clayey, very low strength, sharp basal contact.	0.100	222.650	0.100	
CARB MUDSTONE	light brown, tuffaceous bands throughout, low strength, sharp basal contact.	0.470	223.120	0.470	
TUFF	off white to light brown, low strength, sharp basal contact.	0.150	223.270	0.150	
CARB MUDSTONE	brown to dark brown, low strength.	0.060	223.330	0.060	
COAL	Dull minor bright, face cleat, average spacing 5mm, penetrating 40% of unit, 30% carbonate filled, dips 90 degrees, no visible butt cleat.	0.130	223.460	0.130	Top PV3ED033
COAL	Dull, tending to carbonaceous mudstone.	0.030	223.490	0.030	
COAL	Dull minor bright, face cleat, average spacing 5mm, penetrating 10% of unit, 30% carbonate				

GEOLOGICAL DESCRIPTION OF STRATA		EST'THICK.	EST.DEPTH	RECOVERED	REMARKS
CARB MUDSTONE	filled, dips 90 degrees, no visible butt cleat.	0.030	223.520	0.030	Base PV3ED033
TUFF	dark brown, low strength.	0.030	223.550	0.030	
COAL	grey brown, occasional carbonaceous laminae, very low strength to low strength, gradational basal contact.	0.050	223.600	0.050	
SILTSTONE	Dull minor bright, occasional stony traces, face cleat, average spacing 20mm, penetrating 50% of unit, 40% carbonate filled, dips 90 degrees, no visible butt cleat.	0.210	223.810	0.210	
SANDSTONE	light grey, tends to very fine grained sandstone throughout, muddy in part, occasional carbonaceous traces.	1.800	225.610	1.800	
SILTSTONE	light grey, very fine grained, occasional carbonaceous wisps, occasional coal bands.	0.380	225.990	0.380	
SANDSTONE	light grey, tends to very fine grained sandstone in part, occasional carbonaceous traces, medium to high strength.	2.030	228.020	2.030	
SIDERITE	light grey, very fine grained, very occasional carbonaceous traces, muddy at base, medium strength.	1.640	229.660	1.640	
MUDSTONE	light brown to grey, calcite veins throughout, very high strength.	0.150	229.810	0.150	
COAL	grey, coal wisps at base, tuffaceous at base, low to medium strength, fractured throughout.	0.640	230.450	0.640	
TUFF	Dull, face cleat, average spacing 7mm, penetrating 1% of unit, no visible mineralisation, dips 90 degrees, no visible butt cleat.	0.030	230.480	0.030	
COAL	off white to light grey, carbonaceous traces, low strength.	0.030	230.510	0.030	
MUDSTONE	Stony, dark brown to black, tuffaceous in part.	0.140	230.650	0.140	
SILTSTONE	grey, low strength, faulted basal contact.	0.770	231.420	0.770	
CARB MUDSTONE	grey, tends to sandy at base, 1 fracture.	0.580	232.000	0.580	
MUDSTONE	light brown, tuffaceous in part, tends to stony coal at middle, gradational basal contact.	0.300	232.300	0.300	
MUDSTONE	light grey, tuffaceous throughout, carbonaceous traces throughout.	0.320	232.620	0.320	
MUDSTONE	light grey, occasional carbonaceous traces, low strength.	0.020	232.640	0.020	Top PV3ED255

GEOLOGICAL DESCRIPTION OF STRATA		EST'THICK.	EST.DEPTH	RECOVERED	REMARKS
COAL	Dull minor bright, occasional stony traces, face cleat, average spacing 5mm, penetrating 20% of unit, 30% carbonate filled, dips 90 degrees, no visible butt cleat.	0.380	233.020	0.380	Base PV3ED255
MUDSTONE	grey, low strength, badly broken throughout.	1.150	234.170	1.150	
SILTSTONE	grey, tends to muddy at top, medium strength, gradational basal contact.	0.740	234.910	0.740	
MUDSTONE	grey, low to medium strength, 4 fractures.	0.410	235.320	0.410	
SILTSTONE	grey, sandy in part, carbonaceous in part, tends to muddy at base, pitted clasts at 0.65m from top of unit.	0.960	236.280	0.960	
SIDERITE	light brown, very high strength, irregular basal contact.	0.220	236.500	0.220	
SILTSTONE	grey, occasional sandy bands, medium strength.	0.910	237.410	0.910	
MUDSTONE	grey, tends to carb mud in part, occasional clayey nodule, fractured throughout.	2.040	239.450	2.040	
CARB MUDSTONE	light brown, tuffaceous throughout, occasional stony coal bands.	0.410	239.860	0.410	
MUDSTONE	grey, tends to silty at base, fractured at top.	0.310	240.170	0.310	
SILTSTONE	grey, tends to muddy at middle, 10 fractures, 75 degree fracture at base.	1.520	241.690	1.520	PV3 Sample C3
CARB MUDSTONE	brown to dark brown, coal wisps throughout, gradational basal contact.	0.050	241.740	0.050	
COAL	Dull minor bright, tends to carb mud in part, cc mineralisation, cleated.	0.240	241.980	0.240	
TUFF	off white, coal wisps throughout, low strength.	0.050	242.030	0.050	
CARB MUDSTONE	brown, coal wisps throughout, low to medium strength.	0.080	242.110	0.080	
COAL	Dull minor bright, face cleat, average spacing 5mm, penetrating 10% of unit, 80% carbonate filled, dips 90 degrees, butt cleat, average spacing 10mm, penetrating 80% of unit, 50% carbonate filled, dips 90 degrees with azimuth 85 degrees to face cleat.	0.130	242.240	0.130	
CARB MUDSTONE	brown, coal wisps throughout, low to medium strength.	0.160	242.400	0.160	
SILTSTONE	grey, tends to very fine grained sand in part, carbonaceous laminae throughout, 1 fracture, gradational basal contact.	1.100	243.500	1.100	

GEOLOGICAL DESCRIPTION OF STRATA		EST'THICK.	EST.DEPTH	RECOVERED	REMARKS
SANDSTONE	light grey to grey, fine grained, carbonaceous laminae throughout, medium strength.	2.700	246.200	2.600	
SANDSTONE	light grey, fine to medium grained, occasional carbonaceous laminae, medium to high strength, sharp basal contact.	0.550	246.750	0.550	
SILTSTONE	grey, medium to high strength, sharp basal contact.	0.430	247.180	0.430	
SANDSTONE	light grey, fine to medium grained, medium to high strength.	0.190	247.370	0.190	
CARB MUDSTONE	brown, occasional coal wisps, faulted basal contact.	0.150	247.520	0.150	
SILTSTONE	grey, very occasional carbonaceous wisps, muddy throughout.	1.280	248.800	1.280	
COAL	Dull banded, face cleat, average spacing 5mm, penetrating 40% of unit, 80% carbonate filled, dips 90 degrees, butt cleat, average spacing 40mm, penetrating 40% of unit, 80% carbonate filled, dips 90 degrees with azimuth 90 degrees to face cleat.	0.100	248.900	0.100	
CARB MUDSTONE	brown, coal bands throughout, gradational basal contact.	0.100	249.000	0.100	
SANDSTONE	grey, very fine grained, tends to silty at top, carbonaceous laminae throughout, medium to high strength.	0.760	249.760	0.760	
SILTSTONE	grey, sandy bands in part, muddy in part, trace of carbonate, gradational basal contact.	1.690	251.450	1.690	
CARB MUDSTONE	brown, grey at base, low to medium strength, gradational basal contact.	0.090	251.540	0.090	
MUDSTONE	grey, low to medium strength, fractured at base.	0.180	251.720	0.180	
SILTSTONE	grey, occasional carbonaceous laminae, medium strength.	1.550	253.270	1.550	
SANDSTONE	grey, fine grained, fine to medium grained in part, occasional coal band, carbonaceous laminae throughout, cross bedding in part, medium to high strength.	3.720	256.990	3.720	
CARB MUDSTONE	dark brown, low to medium strength, fractured throughout.	0.080	257.070	0.080	

GEOLOGICAL DESCRIPTION OF STRATA		EST'THICK.	EST.DEPTH	RECOVERED	REMARKS
MUDSTONE	grey, tends to silty at top, occasional sideritic bands, medium strength.	1.600	258.670	1.600	
SIDERITE	light grey to light brown, occasional muddy lenses, very high strength.	0.790	259.460	0.790	
SANDSTONE	40% light grey, very fine grained.				
SILTSTONE	60% grey to light grey.				
	occasional sideritic bands, occasional muddy bands, interlaminated to occasionally thinly interbedded, medium to high strength.	5.520	264.980	5.520	
SANDSTONE	light grey, medium grained, carbonaceous laminae throughout, very occasional clayey nodule, medium to high strength.	5.180	270.160	5.070	
SANDSTONE	light grey, medium grained, carbonaceous laminae throughout.	0.290	270.450	0.290	
COAL	Dull minor bright, face cleat, average spacing 3mm, penetrating 10% of unit, 50% carbonate filled, dips 90 degrees, butt cleat, average spacing 9mm, penetrating 10% of unit, 70% carbonate filled, dips 90 degrees with azimuth 85 degrees to face cleat.	0.110	270.560	0.110	Top PV3ED100
COAL	Dull minor bright, face cleat, average spacing 30mm, penetrating 30% of unit, 30% carbonate filled, dips 90 degrees, butt cleat, average spacing 30mm, penetrating 30% of unit, 30% carbonate filled, dips 90 degrees with azimuth 70 degrees to face cleat.	0.080	270.640	0.080	
CARB MUDSTONE	dark grey, tuffaceous, low strength.	0.050	270.690	0.050	
COAL	Dull minor bright, occasional stony laminae, face cleat, average spacing 20mm, penetrating 80% of unit, 60% carbonate filled, dips 90 degrees, no visible butt cleat.	0.380	271.070	0.380	
TUFF	grey brown, occasional carbonaceous laminae, low strength.	0.020	271.090	0.020	
COAL	Dull minor bright, occasional stony traces, face cleat, average spacing 5mm, penetrating 80% of unit, 30% carbonate filled, dips 90 degrees, butt cleat, average spacing 5mm, penetrating 70% of unit, 30% carbonate filled, dips 90 degrees with azimuth 80 degrees to face cleat.	0.500	271.590	0.500	Base PV3ED100

GEOLOGICAL DESCRIPTION OF STRATA		EST'THICK.	EST.DEPTH	RECOVERED	REMARKS
SILTSTONE	grey, tends to mudstone in part, occasional carbonaceous laminae, medium strength.	1.840	273.430	1.840	Top PV3ED622
COAL	Dull minor bright, face cleat, average spacing 4mm, penetrating 10% of unit, 20% carbonate filled, dips 90 degrees, butt cleat, average spacing 10mm, penetrating 10% of unit, 20% carbonate filled, dips 90 degrees with azimuth 90 degrees to face cleat.	0.160	273.590	0.160	
TUFF	grey brown, occasional carbonaceous laminae, low strength.	0.060	273.650	0.060	
COAL	Dull minor bright, face cleat, average spacing 5mm, penetrating 50% of unit, 30% carbonate filled, dips 90 degrees, no visible butt cleat.	0.110	273.760	0.110	
CARB MUDSTONE	dark brown to dark grey, tuffaceous, low strength.	0.030	273.790	0.030	
COAL	Dull minor bright, face cleat, average spacing 5mm, penetrating 60% of unit, 30% carbonate filled, dips 90 degrees, no visible butt cleat.	0.200	273.990	0.200	Base PV3ED622
CARB MUDSTONE	dark grey, tuffaceous, low strength.	0.020	274.010	0.020	
COAL	Dull minor bright, occasional stony traces, face cleat, average spacing 5mm, penetrating 60% of unit, 20% carbonate filled, dips 90 degrees, no visible butt cleat.	0.540	274.550	0.540	
SILTSTONE	grey, occasional coal wisps.	1.600	276.150	1.600	
SILTSTONE	grey, tends to muddy throughout, occasional sideritic band.	0.960	277.110	0.960	
MUDSTONE	grey, sideritic traces, low strength.	0.370	277.480	0.370	PV3 Sample C4
SILTSTONE	grey, muddy in part, sideritic bands and nodules, occasional coal wisps, medium strength.	3.180	280.660	3.180	
MUDSTONE	grey, tends to carb mud at base, coal wisps at base, low strength.	0.610	281.270	0.610	
COAL	Dull minor bright, cc mineralisation, tends to stony coal in part.	0.200	281.470	0.200	
TUFF	off white to light brown, coal wisps throughout, low strength.	0.040	281.510	0.040	
COAL	Dull minor bright, tends to stony coal throughout, no visible cleat or fractures.	0.050	281.560	0.050	
SILTSTONE	grey to light grey, coal wisps at top,				

GEOLOGICAL DESCRIPTION OF STRATA		EST'THICK.	EST.DEPTH	RECOVERED	REMARKS
SILTSTONE	occasional carbonaceous laminae, medium strength.	0.590	282.150	0.590	PV3 Sample C5
CARB MUDSTONE	grey, muddy at base, gradational basal contact.	0.280	282.430	0.280	
COAL	dark brown, occasional coal bands, tends to stony coal at base.	0.230	282.660	0.230	
SILTSTONE	Dull banded, cc mineralisation, carb mud in part.	0.220	282.880	0.220	
MUDSTONE	grey, muddy in part, occasional coal wisps.	0.750	283.630	0.750	
CARB MUDSTONE	grey, tends to carb mud at base, low strength, broken throughout, gradational basal contact.	0.470	284.100	0.470	PV3 Sample C6
COAL	brown to grey, tends to muddy at top, tuffaceous band at base, low to medium strength.	0.700	284.800	0.700	
MUDSTONE	Stony, black brown, tends to carb mud throughout.	0.170	284.970	0.170	
COAL	grey, low strength, fractured throughout.	0.340	285.310	0.340	
SILTSTONE	Dull minor bright, cc mineralisation, tends to stony coal in part.	0.200	285.510	0.200	
SILTSTONE	grey, tends to muddy at top, tends to sandy at base, occasional carbonaceous laminae, medium strength.	2.640	288.150	2.640	PV3 Sample SS1
SANDSTONE	grey, occasional carbonaceous laminae, carbonaceous at middle, gradational basal contact.	2.350	290.500	2.350	
SANDSTONE	light grey, medium grained, occasional carbonaceous laminae, medium strength.	0.650	291.150	0.650	
SANDSTONE	light grey, medium grained, medium to high strength.	0.300	291.450	0.300	
SANDSTONE	light grey, medium grained, carbonaceous laminae at middle, medium to high strength, 1 fracture.	1.010	292.460	1.010	
SANDSTONE	grey, fine grained, occasionally very fine grained, abundant carbonaceous laminae at top, coal band at 1.50m from top of unit, occasional coal wisps, occasional silty blebs, medium strength, 1 fracture, gradational basal contact.	3.150	295.610	3.150	
SANDSTONE	light grey, medium grained, carbonaceous laminae throughout, occasional coal wisps, medium strength, 4 fractures, sharp basal contact.	6.250	301.860	6.250	
MUDSTONE	grey, coal wisps at base, medium strength.	0.210	302.070	0.210	

GEOLOGICAL DESCRIPTION OF STRATA		EST'THICK.	EST.DEPTH	RECOVERED	REMARKS
COAL	Dull, tending to carbonaceous mudstone, face cleat, average spacing 5mm, penetrating 30% of unit, 30% carbonate filled, dips 90 degrees, no visible butt cleat.	0.180	302.250	0.180	Top PV3ED158
CARB MUDSTONE	dark grey, low strength.	0.060	302.310	0.060	
COAL	Dull minor bright, face cleat, average spacing 5mm, penetrating 60% of unit, 60% carbonate filled, dips 90 degrees, no visible butt cleat.	0.100	302.410	0.100	Base PV3ED158
CARB MUDSTONE	dark grey, tending to stony coal at base, low strength.	0.130	302.540	0.130	
COAL	Dull minor bright, occasional coal laminae, tending to stony coal in part, face cleat, average spacing 5mm, penetrating 40% of unit, 100% carbonate filled, dips 90 degrees, no visible butt cleat.	0.360	302.900	0.360	
MUDSTONE	grey to dark grey, coal wisps throughout, tends to carb mud at base.	0.130	303.030	0.130	
SILTSTONE	light grey, coal wisps throughout, tends to muddy in part, sideritic traces throughout, medium strength.	3.130	306.160	3.130	
CARB MUDSTONE	brown to light brown, sideritic in part, medium to high strength.	0.450	306.610	0.450	
SILTSTONE	light grey to grey, tends to muddy at top, sandy bands at base, medium strength, gradational basal contact.	0.870	307.480	0.870	
SANDSTONE	grey, fine grained, occasional sideritic nodule, carbonaceous in part, carbonaceous laminae throughout, medium to high strength.	3.480	310.960	3.440	
SANDSTONE	light grey to white, fine grained, sideritic throughout, occasional carbonaceous traces, very high strength, irregular basal contact.	0.760	311.720	0.760	
SANDSTONE	grey, fine grained, medium strength.	1.230	312.950	1.230	
COAL	Dull, no visible cleat or fractures.	0.080	313.030	0.080	
CARB MUDSTONE	dark brown, tends to muddy at base, low to medium strength.	0.180	313.210	0.180	
MUDSTONE	grey to brown, coal wisps throughout, low strength.	0.350	313.560	0.350	
CARB MUDSTONE	dark brown to black, tends to stony coal in part, medium strength.	0.250	313.810	0.250	

GEOLOGICAL DESCRIPTION OF STRATA		EST'THICK.	EST.DEPTH	RECOVERED	REMARKS
COAL	Dull minor bright, face cleat, average spacing 3mm, penetrating 10% of unit, 70% carbonate filled, dips 90 degrees, no visible butt cleat.	0.080	313.890	0.080	PV3ED308
CARB MUDSTONE	dark brown to black, tends to muddy in part, coal bands throughout.	1.150	315.040	1.150	
COAL	Dull minor bright, face cleat, average spacing 3mm, penetrating 10% of unit, no visible mineralisation, dips 90 degrees, butt cleat, average spacing 6mm, penetrating 10% of unit, no visible mineralisation, dips 90 degrees with azimuth 70 degrees to face cleat.	0.060	315.100	0.060	
SILTSTONE	grey, tends to muddy at base, occasional coal wisps.	0.710	315.810	0.710	
COAL	Dull minor bright, occasional stony laminae, face cleat, average spacing 5mm, penetrating 30% of unit, 30% carbonate filled, dips 90 degrees, butt cleat, average spacing 5mm, penetrating 30% of unit, 30% carbonate filled, dips 90 degrees with azimuth 90 degrees to face cleat.	0.330	316.140	0.330	Top PV3ED070
SILTSTONE	grey, tends to muddy in part, occasional carbonaceous laminae, medium strength, gradational basal contact.	1.190	317.330	1.190	
MUDSTONE	grey to dark grey, occasional carbonaceous traces, medium strength.	0.680	318.010	0.680	
SILTSTONE	grey, tends to muddy in part, occasional coal wisps, sideritic in part, medium strength.	5.180	323.190	5.180	
MUDSTONE	grey, low to medium strength, fractured.	0.390	323.580	0.390	Base PV3ED070
COAL	Stony, face cleat, average spacing 30mm, penetrating 60% of unit, no visible mineralisation, dips 90 degrees, no visible butt cleat.	0.090	323.670	0.090	
CARB MUDSTONE	grey to dark grey, tuffaceous, low strength.	0.060	323.730	0.060	PV3 Sample C7
COAL	Dull minor bright, occasional stony traces, face cleat, average spacing 20mm, penetrating 60% of unit, 30% carbonate filled, dips 90 degrees, butt cleat, average spacing 30mm, penetrating 70% of unit, 100% carbonate filled, dips 90 degrees with azimuth 50 degrees to face cleat.	0.330	324.060	0.330	
COAL	Dull minor bright.	0.290	324.350	0.290	

GEOLOGICAL DESCRIPTION OF STRATA		EST'THICK.	EST.DEPTH	RECOVERED	REMARKS
SILTSTONE	grey, occasional carbonaceous laminae, carbonaceous at top.	1.140	325.490	1.140	Top PV3ED580
COAL	Dull minor bright, tending to stony coal, face cleat, average spacing 30mm, penetrating 90% of unit, 100% carbonate filled, dips 90 degrees, no visible butt cleat.	0.520	326.010	0.520	
TUFF	grey brown to light grey, occasional carbonaceous traces, low strength.	0.050	326.060	0.050	
COAL	Dull, occasional stony traces, low strength, face cleat, average spacing 20mm, penetrating 70% of unit, no visible mineralisation, dips 90 degrees, no visible butt cleat.	0.180	326.240	0.180	Base PV3ED580
CARB MUDSTONE	dark brown, very low strength to low strength.	0.030	326.270	0.030	
CARB MUDSTONE	dark brown to black, coal bands throughout.	0.160	326.430	0.160	
SILTSTONE	grey, occasional carbonaceous laminae.	1.290	327.720	1.290	Top PV3ED236
CARB MUDSTONE	brown, tends to stony coal throughout.	0.150	327.870	0.150	
COAL	Dull minor bright, face cleat, average spacing 5mm, penetrating 30% of unit, 10% carbonate filled, dips 90 degrees, no visible butt cleat.	0.140	328.010	0.140	
CARB MUDSTONE	dark grey, tending to stony coal, tuffaceous, low strength.	0.040	328.050	0.040	Base PV3ED236
COAL	Dull minor bright, tending to stony coal, face cleat, average spacing 30mm, penetrating 70% of unit, 20% carbonate filled, dips 90 degrees, no visible butt cleat.	0.340	328.390	0.340	
TUFF	brown, occasional carbonaceous laminae, low strength.	0.090	328.480	0.090	
COAL	Dull, tending to stony coal, face cleat, average spacing 30mm, penetrating 70% of unit, no visible mineralisation, dips 90 degrees, butt cleat, average spacing 30mm, penetrating 70% of unit, no visible mineralisation, dips 90 degrees with azimuth 80 degrees to face cleat.	0.320	328.800	0.320	
SILTSTONE	grey, occasional coal wisps.	0.830	329.630	0.830	
MUDSTONE	grey, tends to carb mud throughout, occasional coal wisps.	0.150	329.780	0.150	
COAL	Dull banded, face cleat, average spacing 5mm, penetrating 20% of unit, no visible mineralisation, dips 90 degrees, no visible butt				

GEOLOGICAL DESCRIPTION OF STRATA		EST'THICK.	EST.DEPTH	RECOVERED	REMARKS
CARB MUDSTONE	cleat. brown, coal bands throughout, tends to muddy at base.	0.100	329.880	0.100	PV3 Sample C8
SILTSTONE	grey, tends to muddy in part, medium strength.	0.390	330.270	0.390	
COAL	Stony, black brown, tends to carb mud in part.	1.130	331.400	1.030	
COAL	Dull minor bright, tends to stony coal in part.	0.090	331.490	0.090	
SILTSTONE	Dull minor bright, tends to stony coal in part.	0.250	331.740	0.250	
SILTSTONE	grey, tends to stony coal at top, tends to muddy in part, medium strength, fractured throughout.	2.340	334.080	2.340	
SILTSTONE	grey, occasional coal wisps, occasional sandy bands, occasional sideritic bands, 50 degree slickensided fracture at 2.75m from top of unit.	4.640	338.720	4.640	PV3 Sample C9
CORE LOSS		0.250	338.970	0.000	
SILTSTONE	grey, muddy in part, occasional coal wisps and bands, occasional sandy bands, gradational basal contact.	1.880	340.850	1.880	
COAL	Dull banded, cleated, cc mineralisation.	0.180	341.030	0.180	
MUDSTONE	grey, occasional coal wisps, low to medium strength.	0.160	341.190	0.160	
COAL	Dull banded, tends to stony coal throughout, no visible cleat or fractures.	0.130	341.320	0.130	
CARB MUDSTONE	light brown to black, muddy at base, coal wisps throughout, fractured at base.	0.230	341.550	0.230	Top PV3ED276
SILTSTONE	grey, tends to very fine grained sandstone in part, coal wisps throughout, carbonaceous at base.	0.780	342.330	0.780	
MUDSTONE	grey, carbonaceous in part, low strength, badly broken throughout.	0.750	343.080	0.750	
COAL	Dull, occasional stony and carbonate traces, face cleat, average spacing 30mm, penetrating 20% of unit, 30% carbonate filled, dips 90 degrees, butt cleat, average spacing 30mm, penetrating 20% of unit, 30% carbonate filled, dips 90 degrees with azimuth 90 degrees to face cleat.	0.200	343.280	0.200	
CARB MUDSTONE	dark grey, low strength.	0.020	343.300	0.020	
COAL	Dull minor bright, occasional stony traces, face cleat, average spacing 5mm, penetrating 20% of unit, 10% carbonate filled, dips 90 degrees, no				

GEOLOGICAL DESCRIPTION OF STRATA		EST'THICK.	EST.DEPTH	RECOVERED	REMARKS
CARB MUDSTONE	visible butt cleat. dark brown, occasional coal wisps, very low strength to low strength.	0.050	343.350	0.050	Base PV3ED276
CORE LOSS		0.070	343.420	0.070	
MUDSTONE		0.050	343.470	0.000	
COAL		0.150	343.620	0.150	
MUDSTONE	grey, low strength, badly broken throughout.	0.140	343.760	0.140	PV3 Sample C10
CARB MUDSTONE	Dull banded, badly broken throughout, face cleat, average spacing 8mm, penetrating 15% of unit, no visible mineralisation, dips 90 degrees, no visible butt cleat.	0.070	343.830	0.070	
COAL	grey, occasional coal wisps, low strength.	0.080	343.910	0.080	
CARB MUDSTONE	brown to grey, coal wisps throughout.	0.260	344.170	0.260	
SILTSTONE	Dull banded, cc mineralisation, tends to stony coal in part.	0.530	344.700	0.530	
MUDSTONE	brown to grey, tends to muddy in part, coal wisps throughout, occasional coal bands.	0.390	345.090	0.390	
COAL	grey to light grey, occasional carbonaceous laminae.	0.090	345.180	0.090	
MUDSTONE	grey, badly broken.	0.130	345.310	0.130	
SILTSTONE	Dull banded, fragmented, face cleat, average spacing 2mm, penetrating 20% of unit, 20% carbonate filled, dips 90 degrees, butt cleat, average spacing 8mm, penetrating 20% of unit, 20% carbonate filled, dips 90 degrees with azimuth 65 degrees to face cleat.	0.630	345.940	0.630	
SANDSTONE	grey, carbonaceous at top, low to medium strength.	1.410	347.350	1.410	
COAL	grey, occasional sandy bands, carbonaceous laminae throughout, occasional coal wisps, medium strength, sharp basal contact.	5.470	352.820	5.330	PV3 Sample C11
SILTSTONE	light grey, fine to medium grained, carbonaceous laminae throughout, occasional silty bands and blebs, medium to high strength.	0.220	353.040	0.220	
MUDSTONE	Dull minor bright, cleated, cc mineralisation, tuffaceous bands at top and at base.	2.180	355.220	2.180	
SILTSTONE	grey to light grey, tends to muddy throughout, occasional coal wisps.	0.530	355.750	0.530	

GEOLOGICAL DESCRIPTION OF STRATA		EST'THICK.	EST.DEPTH	RECOVERED	REMARKS
SANDSTONE	occasional clayey nodule, tends to muddy in part, tends to carb mud in middle, carb mud band at 1.72m, medium strength, 8 fractures, gradational basal contact. light grey to grey, fine to coarse grained, common siltstone laminae and thin beds at top, sideritic thin bed at 1.72m, carbonaceous clasts at bottom, high strength, 15 fractures, sharp basal contact.	3.040	358.790	3.040	PV3 Sample SS2 8.44 - 8.74m
SILTSTONE	grey, carbonaceous wisps, medium strength, sharp basal contact.	9.060	367.850	8.970	
COAL	Dull, face cleat, average spacing 40mm, penetrating 90% of unit, 90% carbonate filled, dips 80 degrees, no visible butt cleat.	0.100	367.950	0.100	
SILTSTONE	grey, medium strength, 2 fractures, gradational basal contact.	0.110	368.060	0.110	
CARB MUDSTONE	dark brown, coaly traces, medium strength, sharp basal contact.	0.190	368.250	0.190	
MUDSTONE	dark grey brown, carbonaceous traces, medium strength, sharp irregular basal contact.	0.090	368.340	0.090	
COAL	Dull, face cleat, average spacing 40mm, penetrating 100% of unit, no visible mineralisation, dips 80 degrees, butt cleat, average spacing 50mm, penetrating 100% of unit, no visible mineralisation, dips 80 degrees with azimuth 90 degrees to face cleat.	0.080	368.420	0.080	
MUDSTONE	brown grey, medium strength, sharp basal contact.	0.070	368.490	0.070	
SILTSTONE	grey, carbonaceous traces, medium strength, basal parting.	0.070	368.560	0.070	
COAL	Dull banded, fractured.	0.040	368.600	0.040	
TUFF	cream brown, low strength, sharp irregular basal contact.	0.030	368.630	0.030	
COAL	Dull, face cleat, average spacing 40mm, penetrating 100% of unit, 70% carbonate filled, dips 90 degrees, no visible butt cleat.	0.070	368.700	0.070	
SILTSTONE	grey, common carbonaceous wisps, carb mud band at .23m, medium strength, 6 fractures, sharp basal contact.	0.110	368.810	0.110	
		0.820	369.630	0.820	

GEOLOGICAL DESCRIPTION OF STRATA		EST'THICK.	EST.DEPTH	RECOVERED	REMARKS
SANDSTONE	grey to light grey, very fine grained to fine grained, siltstone laminae, carbonaceous traces at bottom, high strength, 5 fractures, basal parting.	1.460	371.090	1.460	
MUDSTONE	light brown, carbonaceous traces and wisps, medium strength, sharp irregular basal contact.	0.090	371.180	0.090	
SILTSTONE	grey, medium strength, sharp basal contact.	0.130	371.310	0.130	
TUFF	cream, carbonaceous wisps, low strength, sharp basal contact.	0.090	371.400	0.090	
CARB MUDSTONE	brown, carbonaceous traces, medium strength, sharp irregular basal contact.	0.090	371.490	0.090	
SILTSTONE	grey, sandstone laminae, carbonaceous wisps, carb mud band at 1.06m and 1.12m, carbonaceous thick traces at bottom, high strength, 7 fractures, gradational basal contact.	1.860	373.350	1.860	
SANDSTONE	grey, very fine grained to fine grained, siltstone laminae, occasional sideritic clasts, silty at bottom, high strength, 11 fractures, sharp irregular basal contact.	2.450	375.800	2.450	
SANDSTONE	light grey, fine to medium grained, occasional siltstone laminae, high strength, 3 fractures, gradational basal contact.	1.410	377.210	1.410	
SILTSTONE	grey, mudstone band at .56m, medium strength, 7 fractures, sharp irregular basal contact.	0.760	377.970	0.760	
MUDSTONE	dark brown, carbonaceous traces and wisps, medium strength, sharp basal contact.	0.220	378.190	0.220	
COAL	Dull, face cleat, average spacing 20mm, penetrating 100% of unit, no visible mineralisation, dips 90 degrees, no visible butt cleat.	0.040	378.230	0.040	
CARB MUDSTONE	black brown, coaly traces, medium strength, basal parting.	0.210	378.440	0.210	
MUDSTONE	brown, carbonaceous laminae and traces, medium strength, gradational basal contact.	0.060	378.500	0.060	
SILTSTONE	grey, sandstone laminae, sideritic pebbly clasts to bottom, medium strength, 12 fractures, basal parting.	1.860	380.360	1.860	
COAL	Dull minor bright, face cleat, average spacing 30mm, penetrating 80% of unit, 100% carbonate				

GEOLOGICAL DESCRIPTION OF STRATA		EST'THICK.	EST.DEPTH	RECOVERED	REMARKS
SILTSTONE	filled, dips 90 degrees, no visible butt cleat. grey, sandy at top, carbonaceous wisps, carbonaceous bands at .36m, medium strength, 5 fractures, sharp basal contact.	0.160	380.520	0.160	
CARB MUDSTONE	black brown, coaly laminae and traces, few carbonate filled cleats, medium strength, gradational basal contact.	0.610	381.130	0.610	
SANDSTONE	grey, fine grained, siltstone laminae, high strength, 5 fractures, basal parting.	0.150	381.280	0.150	
SILTSTONE	grey, carb mud band at top, carbonaceous wisps, medium strength, 3 fractures, basal parting.	1.100	382.380	1.100	
CARB MUDSTONE	brown black, coaly traces, medium strength, basal parting.	0.300	382.680	0.300	
SILTSTONE	grey, low strength, 3 fractures, sharp irregular basal contact.	0.150	382.830	0.150	
CARB MUDSTONE	dark brown, coaly thick traces, medium strength, 1 fracture, sharp irregular basal contact.	0.310	383.140	0.310	
SANDSTONE	grey, very fine grained to fine grained, siltstone laminae, carbonaceous wisps, sideritic at bottom, high strength, 6 fractures, sharp irregular basal contact.	0.210	383.350	0.210	
MUDSTONE	brown grey, carbonaceous wisps, medium strength, 1 fracture, basal parting.	1.690	385.040	1.690	
CARB MUDSTONE	dark brown, few carbonaceous laminae, medium strength, gradational basal contact.	0.540	385.580	0.540	
MUDSTONE	brown grey, carbonaceous traces, medium strength, 1 fracture, sharp irregular basal contact.	0.220	385.800	0.220	
SILTSTONE	grey, carbonaceous wisps, carb mud band at top, medium strength, 3 fractures, sharp basal contact.	0.190	385.990	0.190	
COAL	Dull minor bright, face cleat, average spacing 25mm, penetrating 90% of unit, 100% carbonate filled, dips 90 degrees, no visible butt cleat.	0.450	386.440	0.450	
SILTSTONE	grey, sandstone laminae, medium strength, 6 fractures, basal parting.	0.070	386.510	0.070	
COAL	Dull, face cleat, average spacing 20mm, penetrating 100% of unit, 50% carbonate filled, dips 90 degrees, no visible butt cleat.	0.590	387.100	0.590	
		0.150	387.250	0.150	

GEOLOGICAL DESCRIPTION OF STRATA		EST'THICK.	EST.DEPTH	RECOVERED	REMARKS
SILTSTONE	grey, medium strength, 8 fractures, sharp irregular basal contact.	1.770	389.020	1.770	Top PV3ED695
SANDSTONE	light grey, medium grained, finer grains at top, common carbonaceous laminae to bottom, sideritic thick bands at 7.77m and 9.07m, high strength, 11 fractures, sharp basal contact.	9.560	398.580	9.470	
SILTSTONE	grey brown, high strength, gradational basal contact.	0.050	398.630	0.050	
TUFF	grey brown, occasional carbonaceous laminae, low strength.	0.030	398.660	0.030	
COAL	Dull.	0.040	398.700	0.040	
CARB MUDSTONE	dark grey, tuffaceous, low strength.	0.040	398.740	0.040	
COAL	Dull minor bright, occasional coal laminae, face cleat, average spacing 20mm, penetrating 50% of unit, 10% carbonate filled, dips 90 degrees, no visible butt cleat.	0.280	399.020	0.280	Base PV3ED695
CARB MUDSTONE	dark grey, tuffaceous, low strength.	0.030	399.050	0.030	
COAL	Dull minor bright, face cleat, average spacing 20mm, penetrating 60% of unit, 20% carbonate filled, dips 90 degrees, butt cleat, average spacing 30mm, penetrating 60% of unit, 70% carbonate filled, dips 90 degrees with azimuth 70 degrees to face cleat.	0.060	399.110	0.060	
SILTSTONE	grey, carbonaceous wisps, sandy at top, medium strength, 5 fractures, gradational basal contact.	1.740	400.850	1.680	
CARB MUDSTONE	dark brown, carbonaceous laminae and traces, medium strength, 1 fracture, basal parting.	0.260	401.110	0.260	
TUFF	cream, medium strength, sharp basal contact.	0.080	401.190	0.080	
CARB MUDSTONE	black brown, coaly traces, medium strength, gradational basal contact.	0.070	401.260	0.070	
COAL	Dull minor bright, face cleat, average spacing 40mm, penetrating 90% of unit, 90% carbonate filled, dips 90 degrees, butt cleat, average spacing 50mm, penetrating 40% of unit, 09% carbonate filled, dips 90 degrees with azimuth 90 degrees to face cleat.	0.120	401.380	0.120	
SILTSTONE	grey, carbonaceous wisps, medium strength, basal parting.	0.200	401.580	0.200	

GEOLOGICAL DESCRIPTION OF STRATA		EST'THICK.	EST.DEPTH	RECOVERED	REMARKS
MUDSTONE	brown, carbonaceous traces, medium strength, sharp basal contact.	0.060	401.640	0.060	
COAL	Dull minor bright, face cleat, average spacing 40mm, penetrating 100% of unit, 100% carbonate filled, dips 90 degrees, no visible butt cleat.	0.200	401.840	0.200	
SILTSTONE	grey, sandy at top, occasional sideritic clasts, few mudstone laminae, pyrite clasts at 1.2m, occasional carbonaceous thick traces to bottom, medium strength to high strength, 37 fractures, sharp basal contact.	7.870	409.710	7.820	
CARB MUDSTONE	black brown, carbonaceous laminae and traces, medium strength, 1 fracture, gradational basal contact.	0.230	409.940	0.230	
TUFF	white grey brown, carbonaceous wisps, medium strength, sharp basal contact.	0.070	410.010	0.070	
COAL	Dull minor bright, occasional stony traces, face cleat, average spacing 30mm, penetrating 100% of unit, 10% carbonate filled, dips 90 degrees, no visible butt cleat.	0.120	410.130	0.120	Top PV3ED581
CARB MUDSTONE	dark brown, low strength.	0.100	410.230	0.100	
COAL	Dull minor bright, occasional stony traces, face cleat, average spacing 5mm, penetrating 40% of unit, 30% carbonate filled, dips 90 degrees, no visible butt cleat.	0.240	410.470	0.240	Base PV3ED581
CARB MUDSTONE	brown, very low strength to low strength.	0.020	410.490	0.020	
SANDSTONE	light grey, very fine grained to fine grained, siltstone laminae, light brown at top, occasional carbonaceous wisps, silty soft thin bed and carb mud band at 2.31m, high strength, 13 fractures, basal parting.	4.850	415.340	4.850	
COAL	Dull, face cleat, average spacing 15mm, penetrating 100% of unit, no visible mineralisation, dips 90 degrees, no visible butt cleat.	0.110	415.450	0.110	Top PV3ED666
CARB MUDSTONE	brown, low strength.	0.110	415.560	0.110	
COAL	Dull minor bright, occasional stony traces, face cleat, average spacing 20mm, penetrating 40% of unit, 20% carbonate filled, dips 90 degrees, butt cleat, average spacing 20mm, penetrating				

GEOLOGICAL DESCRIPTION OF STRATA		EST'THICK.	EST.DEPTH	RECOVERED	REMARKS
TUFF	40% of unit, 20% carbonate filled, dips 90 degrees with azimuth 90 degrees to face cleat. buff to yellow brown, occasional carbonaceous wisps, low strength.	0.290	415.850	0.290	Base PV3ED666
COAL	Dull minor bright, occasional stony traces, face cleat, average spacing 5mm, penetrating 40% of unit, 40% carbonate filled, dips 90 degrees, butt cleat, average spacing 20mm, penetrating 40% of unit, 40% carbonate filled, dips 90 degrees with azimuth 90 degrees to face cleat.	0.040	415.890	0.040	
CARB MUDSTONE	dark brown, medium strength, 1 fracture, sharp basal contact.	0.570	416.460	0.570	
MUDSTONE	brown, sandstone band in middle, medium strength, sharp basal contact.	0.070	416.530	0.070	
TUFF	brown cream, carbonaceous wisps, low strength, sharp irregular basal contact.	0.140	416.670	0.140	
CARB MUDSTONE	brown, tuffaceous laminae, medium strength, gradational basal contact.	0.070	416.740	0.070	
TUFF	grey cream, low strength, sharp basal contact.	0.070	416.810	0.070	
MUDSTONE	brown, medium strength, 1 fracture, sharp irregular basal contact.	0.100	416.910	0.100	
TUFF	brown cream, low strength, sharp basal contact.	0.090	417.000	0.090	
MUDSTONE	brown to dark brown, tuffaceous band in middle and bottom, medium strength, 1 fracture, gradational basal contact.	0.050	417.050	0.050	
SILTSTONE	grey, carbonaceous laminae and bands, medium strength, 4 fractures, sharp basal contact.	0.300	417.350	0.300	Top PV3ED682
CORE LOSS		0.850	418.200	0.850	
COAL	Dull, face cleat, average spacing 40mm, penetrating 100% of unit, no visible mineralisation, dips 90 degrees, butt cleat, average spacing 50mm, penetrating 50% of unit, no visible mineralisation, dips 90 degrees with azimuth 80 degrees to face cleat.	0.120	418.320	0.000	
TUFF	grey brown, occasional carbonaceous traces, low strength.	0.230	418.550	0.230	
COAL	Dull minor bright, occasional stony coal, face cleat, average spacing 20mm, penetrating 30% of unit, 10% carbonate filled, dips 90 degrees, no	0.060	418.610	0.060	

GEOLOGICAL DESCRIPTION OF STRATA		EST'THICK.	EST.DEPTH	RECOVERED	REMARKS
TUFF	visible butt cleat. grey brown, occasional carbonaceous and coal traces, low strength.	0.220	418.830	0.220	Base PV3ED682
COAL	Dull minor bright, occasional stony traces, face cleat, average spacing 20mm, penetrating 50% of unit, 10% carbonate filled, dips 90 degrees, butt cleat, average spacing 30mm, penetrating 50% of unit, 10% carbonate filled, dips 90 degrees with azimuth 90 degrees to face cleat.	0.040	418.870	0.040	
SILTSTONE	grey, sandstone laminae and bands at top, few carbonaceous wisps, medium strength, 17 fractures, gradational basal contact.	0.290	419.160	0.290	
SANDSTONE	grey, very fine grained to fine grained, siltstone laminae, high strength, 15 fractures, gradational basal contact.	3.100	422.260	3.100	
SANDSTONE	light grey, fine to medium grained, occasional carbonaceous laminae, high strength, 5 fractures, sharp basal contact.	4.930	427.190	4.930	
SILTSTONE	grey, high strength, 8 fractures, sharp basal contact.	3.100	430.290	3.100	
SANDSTONE	light grey, medium grained, siltstone laminae at top, occasional carbonaceous laminae, high strength, 6 fractures, sharp basal contact.	0.980	431.270	0.980	
SANDSTONE	grey, very fine grained to fine grained, common siltstone laminae, medium grained at bottom, high strength, 11 fractures, gradational basal contact.	2.140	433.410	2.140	
SANDSTONE	grey, medium grained, carbonaceous laminae, carbonaceous tick laminae to bottom, high strength, 5 fractures, sharp irregular basal contact.	3.170	436.580	3.170	
SILTSTONE	grey, sideritic bands at .23m and .44m, sandstone laminae to bottom, high strength, 8 fractures, gradational basal contact.	2.830	439.410	2.830	
SANDSTONE	light grey, fine to medium grained, carbonaceous laminae to bottom, high strength, 15 fractures, sharp basal contact.	1.590	441.000	1.590	
SANDSTONE	grey, very fine grained to fine grained, occasional siltstone laminae, high strength, 12	4.650	445.650	4.620	

GEOLOGICAL DESCRIPTION OF STRATA		EST'THICK.	EST.DEPTH	RECOVERED	REMARKS
COAL	fractures, basal parting. Dull minor bright, occasional stony traces, face cleat, average spacing 20mm, penetrating 40% of unit, 20% carbonate filled, dips 90 degrees, no visible butt cleat.	4.150	449.800	4.150	Top PV3ED227
CARB MUDSTONE	dark brown, low strength.	0.370	450.170	0.370	Base PV3ED227
CARB MUDSTONE	black brown, occasional tuffaceous laminae, medium strength, 1 fracture, gradational basal contact.	0.040	450.210	0.040	
CARB MUDSTONE	dark grey, tending to stony coal, low strength.	0.260	450.470	0.260	Top PV3ED549
COAL	Dull minor bright, occasional stony traces, face cleat, average spacing 5mm, penetrating 20% of unit, no visible mineralisation, dips 90 degrees, no visible butt cleat.	0.070	450.540	0.070	
TUFF	grey brown, occasional carbonaceous laminae, low strength.	0.280	450.820	0.280	
CARB MUDSTONE	dark brown, occasional coal wisps, low strength.	0.070	450.890	0.070	
COAL	Dull, occasional stony traces, face cleat, average spacing 30mm, penetrating 60% of unit, 10% carbonate filled, dips 90 degrees, no visible butt cleat.	0.330	451.220	0.330	
CARB MUDSTONE	dark brown, low strength.	0.250	451.470	0.250	
COAL	Dull minor bright, tending to stony coal, face cleat, average spacing 15mm, penetrating 40% of unit, 10% carbonate filled, dips 90 degrees, no visible butt cleat.	0.020	451.490	0.020	Base PV3ED549 Top PV3ED696
COAL	Dull, occasional stony traces.	0.080	451.570	0.080	
COAL	Dull minor bright, occasional stony traces, face cleat, average spacing 15mm, penetrating 60% of unit, 30% carbonate filled, dips 90 degrees, no visible butt cleat.	0.050	451.620	0.050	
TUFF	grey brown, occasional carbonaceous traces and occasional coal laminae, low strength.	0.060	451.680	0.060	
COAL	Dull.	0.040	451.720	0.040	
CARB MUDSTONE	dark brown, tending to stony coal, low strength.	0.140	451.860	0.140	
COAL	Dull.	0.060	451.920	0.060	
CARB MUDSTONE	dark grey, low strength.	0.020	451.940	0.020	
		0.010	451.950	0.010	

GEOLOGICAL DESCRIPTION OF STRATA		EST'THICK.	EST.DEPTH	RECOVERED	REMARKS
COAL	Dull.	0.090	452.040	0.090	Base PV3ED696
CARB MUDSTONE	dark grey, occasional coal wisps, low strength.	0.020	452.060	0.020	
COAL	Dull minor bright, occasional stony traces, face cleat, average spacing 5mm, penetrating 40% of unit, 10% carbonate filled, dips 90 degrees, no visible butt cleat.	0.480	452.540	0.480	
SANDSTONE	grey, fine grained, carbonaceous traces, high strength, 2 fractures, sharp basal contact.	0.900	453.440	0.900	
COAL	Dull, face cleat, average spacing 10mm, penetrating 100% of unit, 90% carbonate filled, dips 90 degrees, no visible butt cleat.	0.080	453.520	0.080	Top PV3ED011
SANDSTONE	grey, very fine grained to fine grained, common siltstone laminae, occasional carbonaceous wisps, brown in colour to bottom, high strength, 17 fractures, sharp basal contact.	4.580	458.100	4.580	
SILTSTONE	grey, dark grey at bottom, medium strength, 5 fractures, sharp irregular basal contact.	0.540	458.640	0.540	
SILTSTONE	cream grey, low strength, gradational basal contact.	0.270	458.910	0.270	
SILTSTONE	grey, occasional sandstone laminae, medium strength, 2 fractures, gradational basal contact.	0.680	459.590	0.680	
CARB MUDSTONE	black brown, mudstone splotches, medium strength, 1 fracture, gradational basal contact.	0.160	459.750	0.160	
COAL	Dull, face cleat, average spacing 20mm, penetrating 100% of unit, no visible mineralisation, dips 90 degrees, no visible butt cleat.	0.060	459.810	0.060	
TUFF	grey brown, occasional coal traces and occasional carbonaceous traces, low strength.	0.010	459.820	0.010	
COAL	Dull, face cleat, average spacing 5mm, penetrating 20% of unit, no visible mineralisation, dips 90 degrees, no visible butt cleat.	0.090	459.910	0.090	
TUFF	off white, occasional carbonaceous traces, low strength.	0.030	459.940	0.030	
COAL	Dull, face cleat, average spacing 5mm, penetrating 40% of unit, no visible				

GEOLOGICAL DESCRIPTION OF STRATA		EST'THICK.	EST.DEPTH	RECOVERED	REMARKS
	mineralisation, dips 90 degrees, no visible butt cleat.	0.010	459.950	0.010	
TUFF	off white, occasional carbonaceous traces, low strength.	0.010	459.960	0.010	
COAL	Dull minor bright, face cleat, average spacing 5mm, penetrating 20% of unit, no visible mineralisation, dips 90 degrees, no visible butt cleat.	0.140	460.100	0.140	
TUFF	off white, occasional carbonaceous traces, low strength.	0.030	460.130	0.030	
COAL	Dull minor bright, face cleat, average spacing 5mm, penetrating 50% of unit, 100% carbonate filled, dips 90 degrees, no visible butt cleat.	0.290	460.420	0.290	
TUFF	grey brown, occasional carbonaceous traces, low strength.	0.020	460.440	0.020	
COAL	Dull minor bright, face cleat, average spacing 20mm, penetrating 70% of unit, 100% carbonate filled, dips 90 degrees, butt cleat, average spacing 30mm, penetrating 70% of unit, 70% carbonate filled, dips 90 degrees with azimuth 90 degrees to face cleat.	0.100	460.540	0.100	
TUFF	grey brown, occasional carbonaceous laminae, low strength.	0.010	460.550	0.010	
COAL	Dull, face cleat, average spacing 5mm, penetrating 40% of unit, 10% carbonate filled, dips 90 degrees, no visible butt cleat.	0.010	460.560	0.010	
COAL	Stony, tending to carbonaceous mudstone.	0.090	460.650	0.090	
COAL	Dull minor bright, occasional stony traces, face cleat, average spacing 5mm, penetrating 40% of unit, 10% carbonate filled, dips 90 degrees, butt cleat, average spacing 30mm, penetrating 40% of unit, 10% carbonate filled, dips 90 degrees with azimuth 70 degrees to face cleat.	0.170	460.820	0.170	Base PV3ED011
CARB MUDSTONE	black brown, common tuffaceous bands, medium strength, 1 fracture, sharp basal contact.	0.290	461.110	0.290	
COAL	Dull, face cleat, average spacing 20mm, penetrating 100% of unit, no visible mineralisation, dips 90 degrees, no visible butt cleat.	0.040	461.150	0.040	

GEOLOGICAL DESCRIPTION OF STRATA		EST'THICK.	EST.DEPTH	RECOVERED	REMARKS
CARB MUDSTONE	black brown, medium strength, gradational basal contact.	0.030	461.180	0.030	Top PV3ED036
COAL	Dull, face cleat, average spacing 40mm, penetrating 100% of unit, no visible mineralisation, dips 90 degrees, no visible butt cleat.	0.040	461.220	0.040	
CARB MUDSTONE	black brown, medium strength, sharp basal contact.	0.020	461.240	0.020	
TUFF	white cream, medium strength, sharp irregular basal contact.	0.010	461.250	0.010	
COAL	Dull banded, face cleat, average spacing 30mm, penetrating 100% of unit, no visible mineralisation, dips 90 degrees, no visible butt cleat.	0.060	461.310	0.060	
CARB MUDSTONE	brown black, medium strength, sharp basal contact.	0.010	461.320	0.010	
COAL	Dull banded, face cleat, average spacing 10mm, penetrating 100% of unit, no visible mineralisation, dips 90 degrees, butt cleat, average spacing 10mm, penetrating 100% of unit, no visible mineralisation, dips 90 degrees with azimuth 90 degrees to face cleat.	0.010	461.330	0.010	
COAL	Dull minor bright, occasional stony laminae, face cleat, average spacing 5mm, penetrating 50% of unit, 30% carbonate filled, dips 90 degrees, no visible butt cleat.	0.330	461.660	0.330	
TUFF	light grey, occasional carbonaceous laminae, low strength.	0.020	461.680	0.020	
COAL	Dull banded, occasional stony laminae, face cleat, average spacing 5mm, penetrating 50% of unit, 10% carbonate filled, dips 90 degrees, no visible butt cleat.	0.260	461.940	0.260	
TUFF	light grey, occasional carbonaceous laminae, low strength.	0.010	461.950	0.010	
COAL	Dull banded, occasional stony laminae, face cleat, average spacing 5mm, penetrating 60% of unit, 30% carbonate filled, dips 90 degrees, no visible butt cleat.	0.220	462.170	0.220	
TUFF	grey brown to dark grey, occasional coal and				

GEOLOGICAL DESCRIPTION OF STRATA		EST'THICK.	EST.DEPTH	RECOVERED	REMARKS
COAL	carbonaceous wisps, low strength. Dull minor bright, occasional stony traces, face cleat, average spacing 10mm, penetrating 30% of unit, 40% carbonate filled, dips 90 degrees, butt cleat, average spacing 30mm, penetrating 30% of unit, 40% carbonate filled, dips 90 degrees with azimuth 70 degrees to face cleat.	0.050	462.220	0.050	Base PV3ED036
COAL	Dull and bright, face cleat, average spacing 5mm, penetrating 100% of unit, no visible mineralisation, dips 90 degrees, no visible butt cleat.	0.130	462.350	0.130	
TUFF	brown cream, medium strength, sharp basal contact.	0.060	462.410	0.060	
COAL	Dull, face cleat, average spacing 30mm, penetrating 100% of unit, no visible mineralisation, dips 90 degrees, no visible butt cleat.	0.030	462.440	0.030	
CARB MUDSTONE	black brown, medium strength, gradational basal contact.	0.070	462.510	0.070	PV3 Sample C13
TUFF	grey cream brown, siltstone laminae, medium strength, gradational basal contact.	0.040	462.550	0.040	
COAL	Dull, face cleat, average spacing 25mm, penetrating 100% of unit, 90% carbonate filled, dips 90 degrees, no visible butt cleat.	0.130	462.680	0.130	
TUFF	light brown to cream, silty at top, medium strength to low strength, sharp irregular basal contact.	0.240	462.920	0.240	
CARB MUDSTONE	black brown, coaly traces, tuffaceous band in middle, medium strength, gradational basal contact.	0.160	463.080	0.160	
TUFF	white cream, medium strength, sharp irregular basal contact.	0.370	463.450	0.370	
COAL	Dull, face cleat, average spacing 40mm, penetrating 100% of unit, 90% carbonate filled, dips 90 degrees, no visible butt cleat.	0.040	463.490	0.040	
TUFF	dark cream, carb mud band in middle, medium strength, sharp basal contact.	0.140	463.630	0.140	
COAL	Dull, face cleat, average spacing 30mm, penetrating 100% of unit, no visible	0.080	463.710	0.080	

GEOLOGICAL DESCRIPTION OF STRATA		EST'THICK.	EST.DEPTH	RECOVERED	REMARKS
CARB MUDSTONE COAL	mineralisation, dips 90 degrees, no visible butt cleat.	0.050	463.760	0.050	Top PV3ED102
	black brown, medium strength, basal parting.	0.060	463.820	0.060	
CARB MUDSTONE COAL	Dull, face cleat, average spacing 40mm, penetrating 100% of unit, no visible mineralisation, dips 90 degrees, no visible butt cleat.	0.120	463.940	0.120	
	brown to dark brown, coaly bands at top, tuffaceous thin bed at bottom, medium strength, sharp irregular basal contact.	0.300	464.240	0.300	
TUFF MUDSTONE	Dull, face cleat, average spacing 50mm, penetrating 100% of unit, no visible mineralisation, dips 90 degrees, no visible butt cleat.	0.150	464.390	0.150	
	brown cream, carbonaceous traces, medium strength, sharp irregular basal contact.	0.140	464.530	0.140	
COAL TUFF	brown, tuffaceous splotches, medium strength, sharp basal contact.	0.050	464.580	0.050	
	Dull minor bright, face cleat, average spacing 20mm, penetrating 90% of unit, no visible mineralisation, dips 90 degrees, no visible butt cleat.	0.140	464.720	0.140	
CORE LOSS TUFF	dark cream, carbonaceous wisps, medium strength, sharp basal contact.	0.020	464.740	0.020	
		0.020	464.760	0.000	
COAL COAL	off white, occasional carbonaceous traces, low strength.	0.010	464.770	0.010	
	Dull minor bright, occasional stony traces, face cleat, average spacing 5mm, penetrating 30% of unit, 30% carbonate filled, dips 90 degrees, no visible butt cleat.	0.270	465.040	0.270	
COAL COAL	Stony, face cleat, average spacing 5mm, penetrating 30% of unit, no visible mineralisation, dips 90 degrees, no visible butt cleat.	0.160	465.200	0.160	
	Dull minor bright, occasional stony laminae, face cleat, average spacing 5mm, penetrating 40% of unit, 20% carbonate filled, dips 90 degrees, butt cleat, average spacing 5mm, penetrating 40%				

GEOLOGICAL DESCRIPTION OF STRATA		EST'THICK.	EST.DEPTH	RECOVERED	REMARKS
TUFF	of unit, 20% carbonate filled, dips 90 degrees with azimuth 90 degrees to face cleat.	0.470	465.670	0.470	
COAL	light grey, occasional carbonaceous laminae, low strength.	0.050	465.720	0.050	Base PV3ED102
COAL	Dull minor bright, face cleat, average spacing 25mm, penetrating 90% of unit, 100% carbonate filled, dips 90 degrees, no visible butt cleat.	0.270	465.990	0.270	PV3 Sample C14
COAL	Dull minor bright, face cleat, average spacing 20mm, penetrating 50% of unit, 100% carbonate filled, dips 90 degrees, no visible butt cleat.	0.170	466.160	0.170	Top PV3ED681
CARB MUDSTONE	brown, tuffaceous, low strength.	0.040	466.200	0.040	
COAL	Dull minor bright, occasional stony traces, face cleat, average spacing 5mm, penetrating 50% of unit, 30% carbonate filled, dips 90 degrees, butt cleat, average spacing 30mm, penetrating 40% of unit, 20% carbonate filled, dips 90 degrees with azimuth 60 degrees to face cleat.	0.830	467.030	0.830	Base PV3ED681
SANDSTONE	light grey, fine grained, silty at top, high strength, 3 fractures, gradational basal contact.	1.070	468.100	1.070	
COAL	Dull minor bright, face cleat, average spacing 20mm, penetrating 90% of unit, 50% carbonate filled, dips 90 degrees, no visible butt cleat.	0.140	468.240	0.140	
SANDSTONE	grey, fine grained, silty at top and bottom, high strength, 3 fractures, gradational basal contact.	0.520	468.760	0.520	
CARB MUDSTONE	black brown, medium strength, 1 fracture, sharp basal contact.	0.120	468.880	0.120	
COAL	Dull, face cleat, average spacing 10mm, penetrating 100% of unit, no visible mineralisation, dips 90 degrees, no visible butt cleat.	0.040	468.920	0.040	
TUFF	light brown, carbonaceous laminae, medium strength, gradational basal contact.	0.040	468.960	0.040	
COAL	Dull minor bright, face cleat, average spacing 20mm, penetrating 100% of unit, no visible mineralisation, dips 90 degrees, butt cleat, average spacing 40mm, penetrating 100% of unit, no visible mineralisation, dips 90 degrees with				

GEOLOGICAL DESCRIPTION OF STRATA		EST'THICK.	EST.DEPTH	RECOVERED	REMARKS
COAL	azimuth 80 degrees to face cleat. Dull minor bright, occasional stony laminae, face cleat, average spacing 3mm, penetrating 80% of unit, 60% carbonate filled, dips 90 degrees, no visible butt cleat.	0.090	469.050	0.090	PV3ED687
SILTSTONE	grey, medium strength, 1 fracture, gradational basal contact.	0.510	469.560	0.510	
COAL	Dull, face cleat, average spacing 15mm, penetrating 100% of unit, no visible mineralisation, dips 90 degrees, no visible butt cleat.	0.130	469.690	0.130	
SILTSTONE	grey, carbonaceous laminae and traces, medium strength, basal parting.	0.040	469.730	0.040	
COAL	Dull minor bright, face cleat, average spacing 15mm, penetrating 100% of unit, 90% carbonate filled, dips 90 degrees, no visible butt cleat.	0.070	469.800	0.070	PV3 Sample C15
SILTSTONE	grey, sandy at top, high strength, 6 fractures, basal parting.	0.100	469.900	0.100	
SANDSTONE	grey brown, fine grained, occasional siltstone laminae, high strength, 6 fractures, gradational basal contact.	1.070	470.970	1.070	
COAL	Dull, face cleat, average spacing 25mm, penetrating 90% of unit, 80% carbonate filled, dips 90 degrees, no visible butt cleat.	1.750	472.720	1.750	
TUFF	brown cream, carbonaceous traces, medium strength, basal parting.	0.410	473.130	0.410	
CARB MUDSTONE	black brown, medium strength, gradational basal contact.	0.070	473.200	0.070	
SANDSTONE	grey, fine to medium grained, siltstone laminae to top, carbonaceous traces at top, medium grained to bottom, occasional carbonaceous laminae at bottom, high strength, 14 fractures, sharp basal contact.	0.140	473.340	0.140	
COAL	Dull minor bright, occasional stony traces, face cleat, average spacing 10mm, penetrating 60% of unit, 30% carbonate filled, dips 90 degrees, no visible butt cleat.	5.600	478.940	5.580	
TUFF	light grey, occasional carbonaceous laminae, low strength.	0.290	479.230	0.290	Top PV3ED683
		0.030	479.260	0.030	

GEOLOGICAL DESCRIPTION OF STRATA		EST'THICK.	EST.DEPTH	RECOVERED	REMARKS
COAL	Dull minor bright, face cleat, average spacing 5mm, penetrating 50% of unit, 30% carbonate filled, dips 90 degrees, no visible butt cleat.	0.230	479.490	0.230	Base PV3ED683
SANDSTONE	grey, fine grained, siltstone laminae, high strength, 1 fracture, sharp basal contact.	0.190	479.680	0.190	
COAL	Dull, face cleat, average spacing 40mm, penetrating 100% of unit, no visible mineralisation, dips 90 degrees, no visible butt cleat.	0.010	479.690	0.010	
COAL	Dull minor bright, face cleat, average spacing 30mm, penetrating 40% of unit, 100% carbonate filled, dips 90 degrees, no visible butt cleat.	0.090	479.780	0.090	Top PV3ED088
TUFF	buff, occasional carbonaceous traces, low strength.	0.050	479.830	0.050	
COAL	Dull minor bright, face cleat, average spacing 30mm, penetrating 30% of unit, 30% carbonate filled, dips 90 degrees, no visible butt cleat.	0.060	479.890	0.060	
CARB MUDSTONE	dark grey, low strength.	0.070	479.960	0.070	Base PV3ED088
COAL	Dull minor bright, occasional stony traces, face cleat, average spacing 20mm, penetrating 40% of unit, 40% carbonate filled, dips 90 degrees, butt cleat, average spacing 30mm, penetrating 40% of unit, 40% carbonate filled, dips 90 degrees with azimuth 70 degrees to face cleat.	0.410	480.370	0.410	
COAL	Dull, face cleat, average spacing 20mm, penetrating 100% of unit, 90% carbonate filled, dips 90 degrees, no visible butt cleat.	0.110	480.480	0.110	
SILTSTONE	grey, sandstone laminae and bands throughout, carbonaceous traces at top, medium strength to high strength, 21 fractures, basal parting.	7.040	487.520	7.040	
SANDSTONE	light grey, medium grained, occasional carbonaceous thick traces, sideritic band at .80m, high strength, sharp basal contact.	0.960	488.480	0.960	
SANDSTONE	grey, very fine grained to fine grained, high strength, 1 fracture, sharp basal contact.	1.630	490.110	1.630	
SANDSTONE	light grey, medium to coarse grained, few carbonaceous laminae, siltstone and sideritic clasts at top, sideritic and siltstone clasts from middle to bottom, conglomerate medium bed				

GEOLOGICAL DESCRIPTION OF STRATA		EST'THICK.	EST.DEPTH	RECOVERED	REMARKS
COAL	at bottom, high strength, 17 fractures. Dull, face cleat, average spacing 20mm, penetrating 100% of unit, 100% carbonate filled, dips 90 degrees, no visible butt cleat.	24.640	514.750	24.520	
SILTSTONE	grey, brown in colour at top and bottom, few carbonaceous traces, high strength, 6 fractures, sharp basal contact.	0.080	514.830	0.080	
SANDSTONE	grey, fine grained, occasional siltstone thin beds and laminae, high strength, 10 fractures, sharp basal contact.	1.450	516.280	1.450	
SANDSTONE	grey, very fine grained to fine grained, common siltstone laminae and thin beds, occasional carbonaceous wisps and traces, few mudstone bands, occasional light grey medium grained sandstone thin beds, sandy at bottom, high strength, 35 fractures, sharp basal contact.	6.720	523.000	6.720	
COAL	Dull, face cleat, average spacing 15mm, penetrating 100% of unit, 100% carbonate filled, dips 90 degrees, no visible butt cleat.	16.570	539.570	16.570	PV3 Sample C16
SANDSTONE	grey, very fine grained to fine grained, common siltstone laminae and thin beds, high strength, 11 fractures, sharp basal contact.	0.240	539.810	0.240	
COAL	Dull, face cleat, average spacing 5mm, penetrating 90% of unit, 90% carbonate filled, dips 90 degrees, butt cleat, average spacing 20mm, penetrating 80% of unit, 90% carbonate filled, dips 90 degrees with azimuth 80 degrees to face cleat.	5.300	545.110	5.300	PV3 Sample C17
SANDSTONE	grey, very fine grained to fine grained, common siltstone laminae, coaly band at 1.01m and 3.5m, sideritic band at 2.7m, carb mud band with at 0.77m, high strength, 30 fractures, basal parting.	0.150	545.260	0.150	
COAL	Dull minor bright, face cleat, average spacing 10mm, penetrating 80% of unit, 90% carbonate filled, dips 90 degrees, no visible butt cleat.	16.080	561.340	16.080	PV3 Sample C18 0.04 - 0.19m
SANDSTONE	grey, very fine grained to fine grained, common siltstone laminae and thin beds, occasional light grey medium grained sandstone thin beds,	0.210	561.550	0.210	TD

BORE NAME: Plainview 3

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GEOLOGICAL DESCRIPTION OF STRATA

EST'THICK.

EST.DEPTH

RECOVERED

REMARKS

high strength, 4 fractures.

2.880

564.430

2.880

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RTI Act 2009

Definition of Geological Terms

Weathering	
Soil	Rock has been totally degraded to a soil in which no evidence of the original rock fabric is preserved.
Completely Weathered	Rock has been weathered to the point where it exhibits only soil properties (disintegrates in water or with light handling). Original fabric is mainly preserved. Coal has weathered to a powdery or clayey soot. Colour ranges from black to medium brown with further deterioration.
Highly Weathered	Rock strength and competence has been clearly reduced, such that pieces are either friable or able to be broken across the rock fabric. Discolouring is evident, usually by oxide staining. Coal shows some original fabric (cleats, bands, etc.) but is friable between fingers and dispenses in water.
Moderately Weathered	Rock has undergone prominent changes in colour, lustre, and strength. However, the material is not friable and cannot be broken by hand across the fabric. Coal may appear dustier or cause smudging to fingers when moist.
Slightly Weathered	Rock shows slight change of colour and lustre, but usually has little reduction in strength when compared with fresh material. Coal may show discolouration.
Fresh	Rock or coal shows no sign of decomposition.

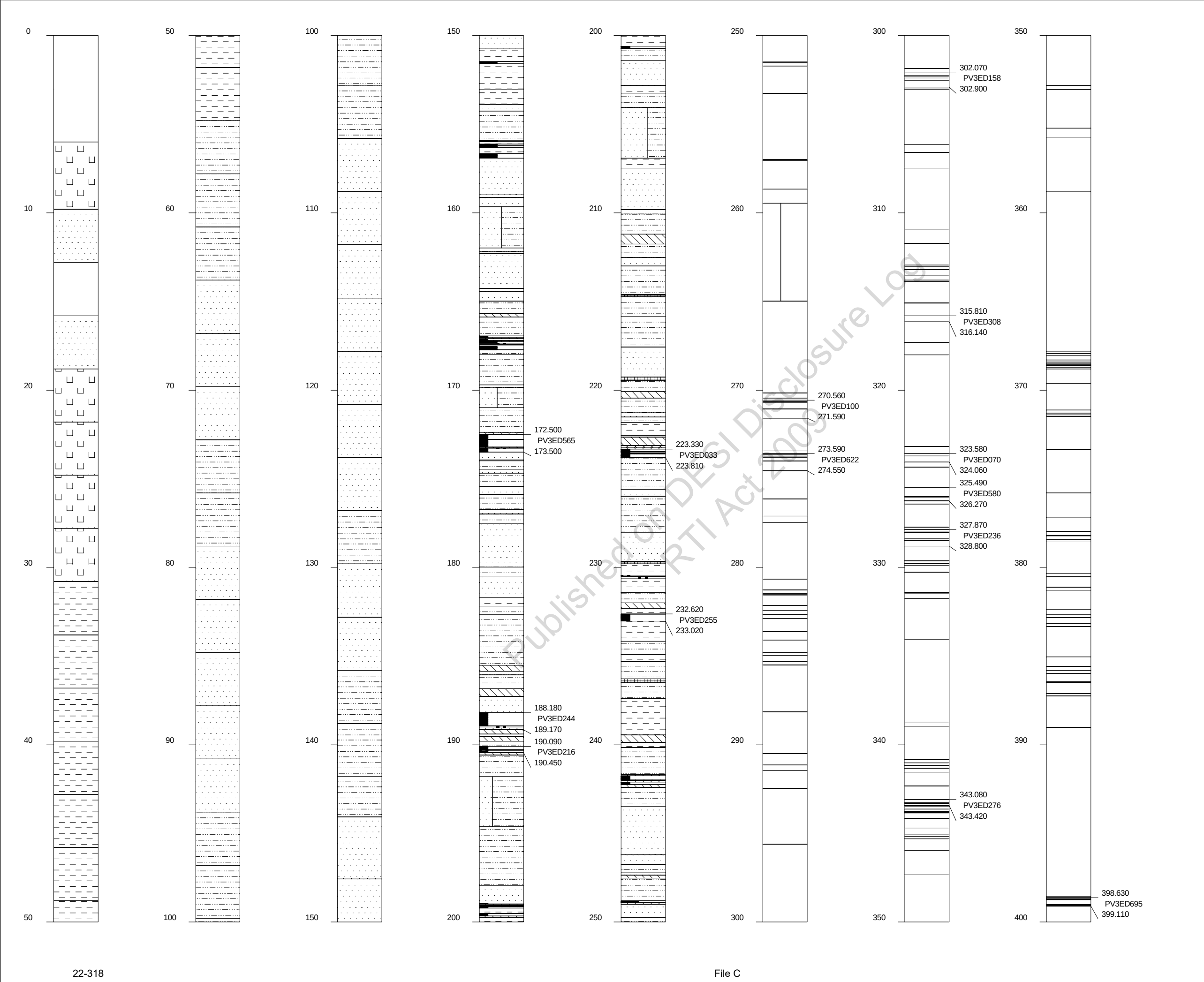
Note: Rock is fresh unless stated otherwise.

Strength	
Extremely Low Strength	May be broken in hand with difficulty, Crumbles under firm blows with hammer.
Very Low Strength	May be peeled with pocketknife. Drill cuttings often destroyed by drilling.
Low Strength	Deep indentations made with pick. May be peeled with difficulty with pocketknife. Cuttings easily broken with fingers.
Medium Strength	Fractures with moderate blow of hammer. Cannot be peeled with pocketknife. Pick indents to 5mm. Cuttings require mild effort to break between fingers.
High Strength	Fractures with full blow of hammer. Cuttings require maximum effort to break between fingers.
Very High Strength	Requires several hammer blows to break. Cuttings not breakable with fingers.
Extremely High Strength	Maximum effort necessary to chip rock. Drill return likely to be fine grains or paste.

Grain Size				
Lithology	Description	Smallest (mm)	Largest (mm)	Comments
Conglomerate	Boulder	256		
	Cobble	64	256	
	Pebble	4	64	
	Granule	2	4	
Sandstone	Very Coarse	1	2	
	Coarse	0.5	1	
	Medium	0.25	0.5	
	Fine	0.125	0.25	
	Very Fine	0.0625	0.125	Particles visible
Siltstone		0.0039	0.0625	Particles not visible, distinguishable by scraping
Mudstone			0.0039	Impossible to feel particles when scraping

Bedding	
Very thickly bedded	>2.0m
Thickly bedded	0.60 - 2.0m
Medium bedded	0.20 - 0.60m
Thinly bedded	0.06 - 0.20m
Very thinly bedded	0.02 - 0.06m
Thickly laminated	6mm - 2cm
Thinly laminated	<6mm

Coal Brightness		
Coal lithotype	Abbreviation	% Bright Coal
Bright	B	>90
Bright banded	Bb	60 to 90
Dull and bright	DB	40 to 60
Dull banded	Db	10 to 40
Dull minor bright	Dmb	1 to 10
Dull	D	<1



LEGEND

	NO SAMPLE
	ALLUVIUM
	SANDSTONE
	CLAYEY SAND
	MUDSTONE
	SILTSTONE
	CARB MUDSTONE
	COAL Dull banded
	COAL Dull minor bright
	COAL Story
	COAL Dull
	TUFF
	SIDERITE
	CORE LOSS

BOREHOLE NO:

PROJECT

Plainview-3

DATE DRILLED

April 2008

LOGGED BY:

sch4p4(6)

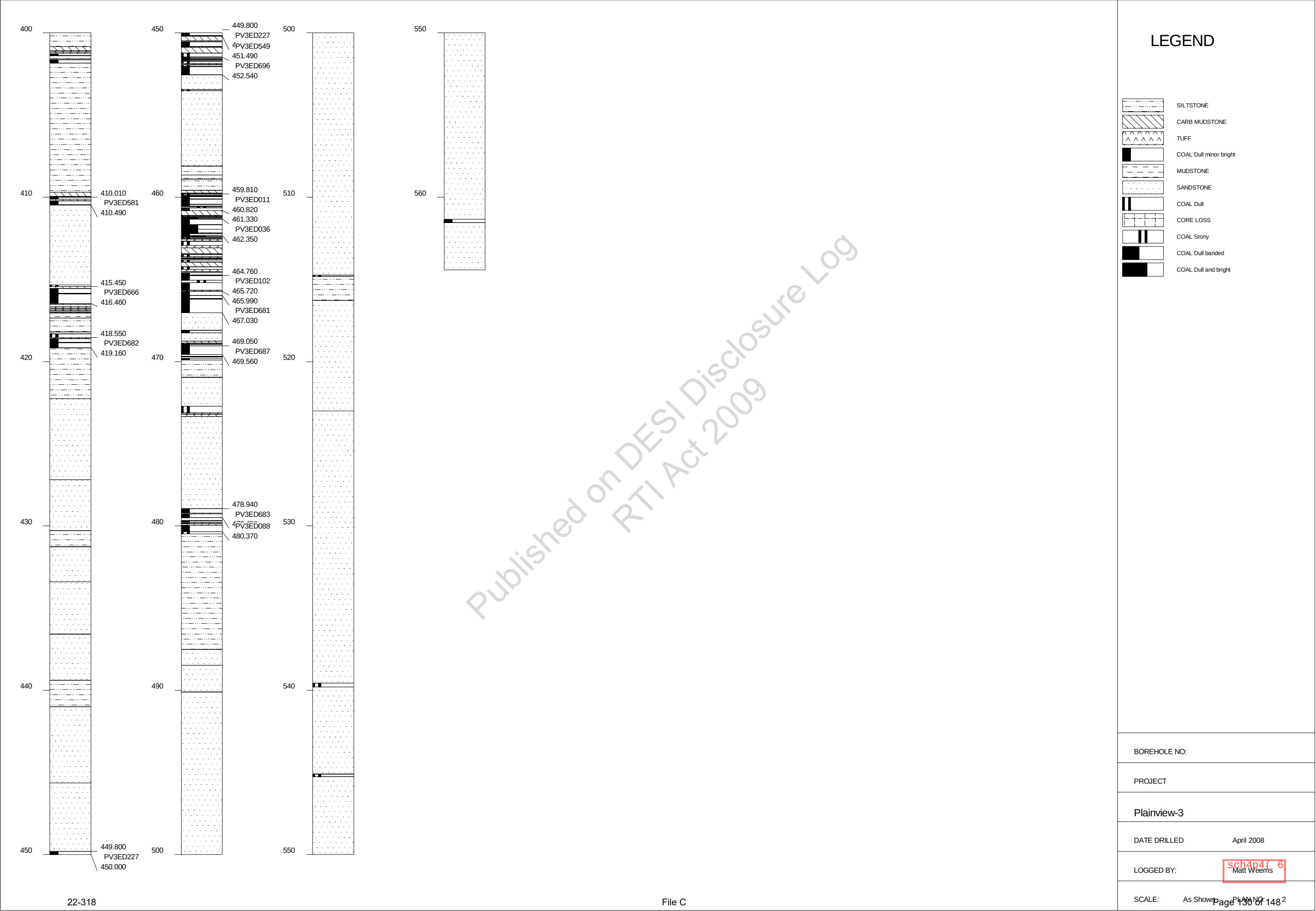
Matt Weems

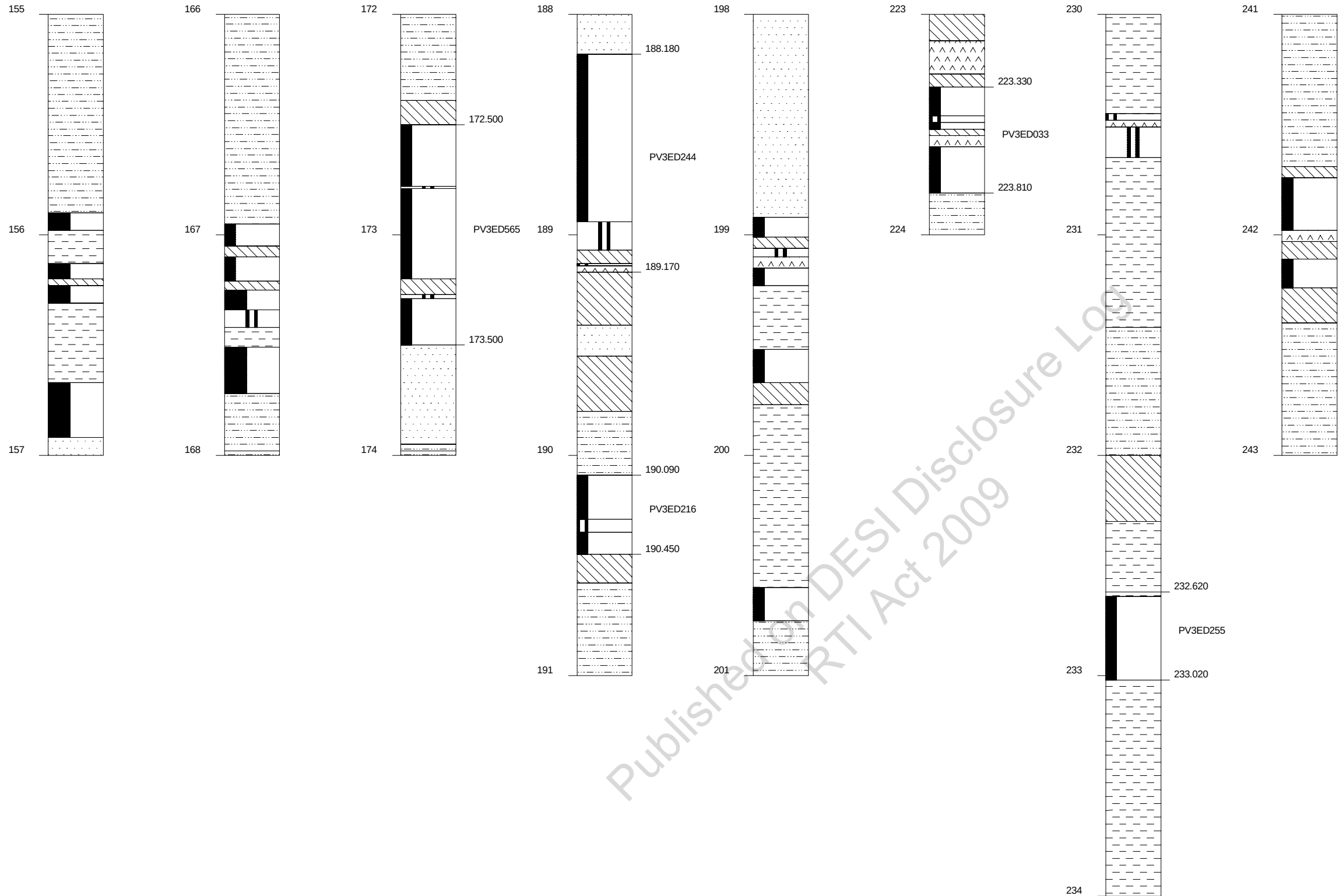
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PLAN

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LEGEND

- SILTSTONE
- COAL Dull banded
- MUDSTONE
- CARB MUDSTONE
- SANDSTONE
- COAL Dull minor bright
- COAL Stony
- COAL Dull
- TUFF

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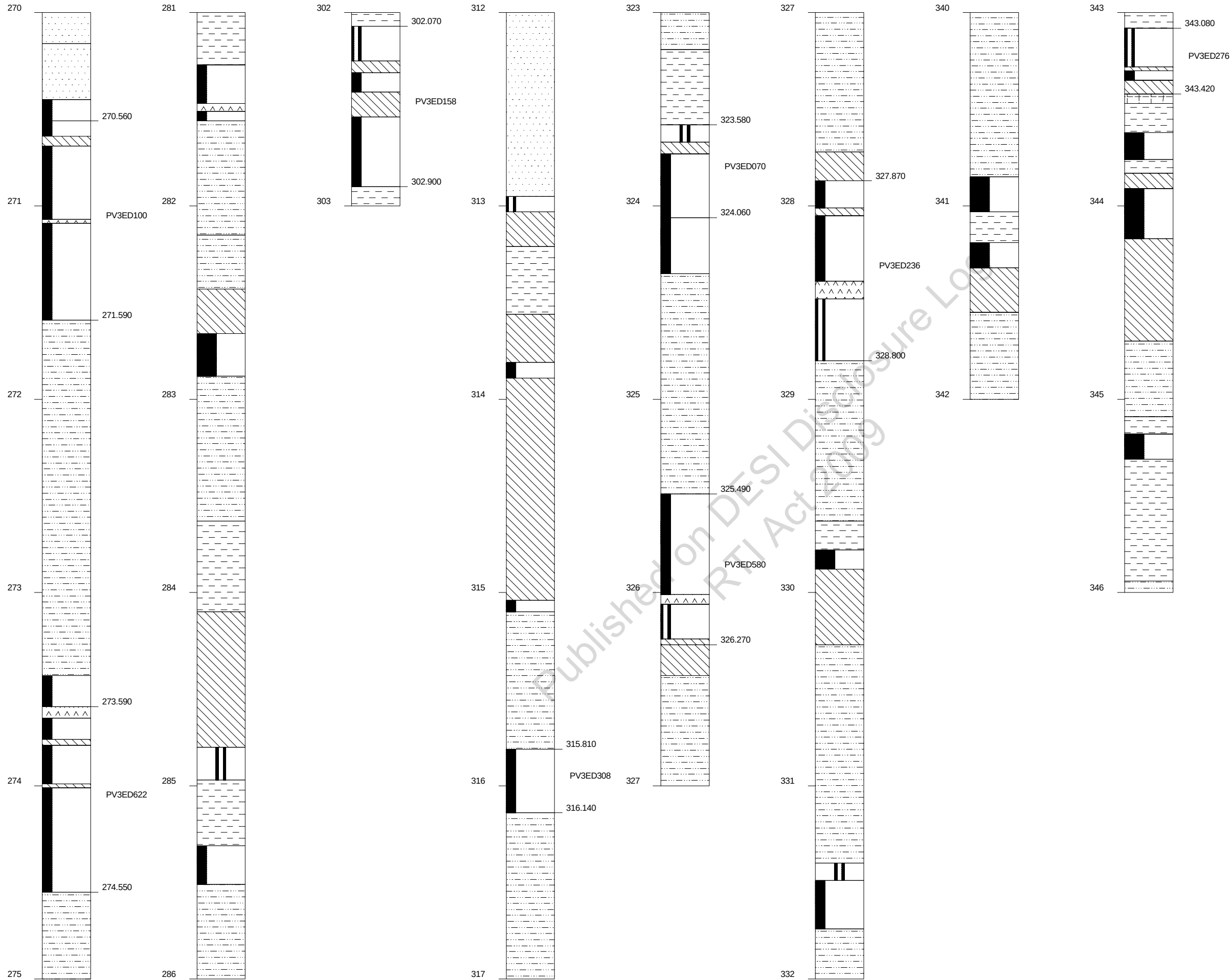
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DATE DRILLED April 2008

LOGGED BY: Matt Weems (6)

SCALE: As Shown PLAN No. 1483



LEGEND

- SANDSTONE
- COAL Dull minor bright
- CARB MUDSTONE
- TUFF
- SILTSTONE
- MUDSTONE
- COAL Dull banded
- COAL Stony
- COAL Dull
- CORE LOSS

BOREHOLE NO:

PROJECT

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DATE DRILLED April 2008

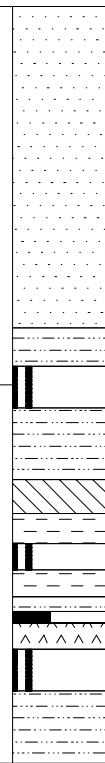
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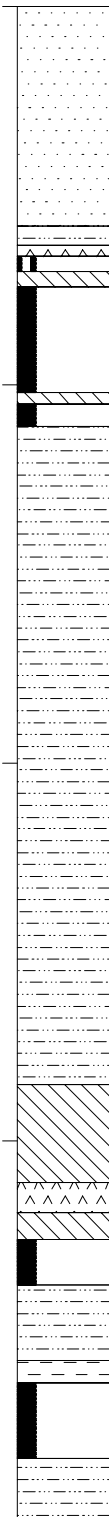
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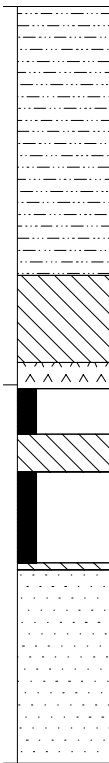
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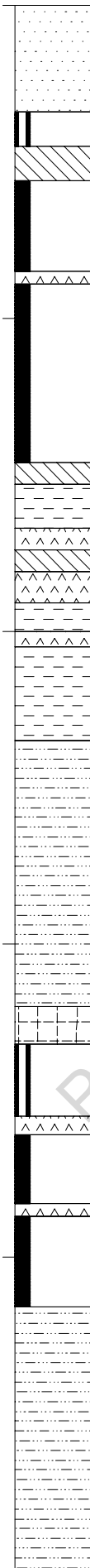
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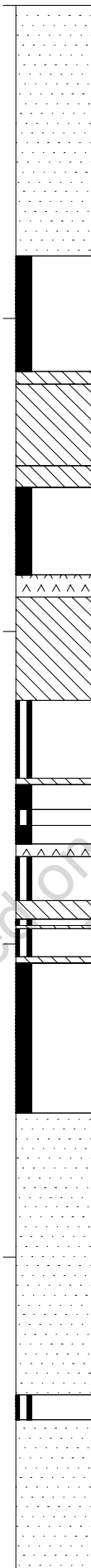
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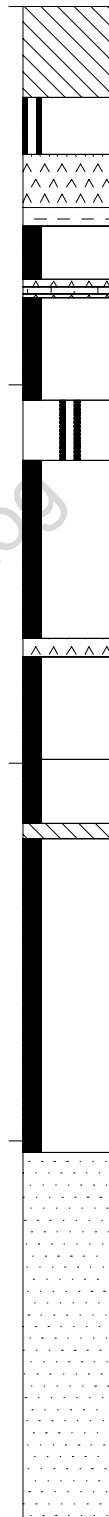
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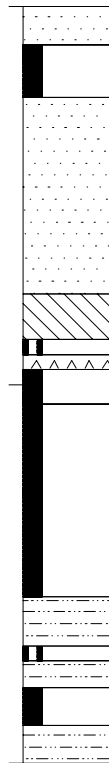
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LEGEND

- SANDSTONE
- SILTSTONE
- COAL Dull
- CARB MUDSTONE
- MUDSTONE
- COAL Dull banded
- TUFF
- COAL Dull minor bright
- CORE LOSS
- COAL Story
- COAL Dull and bright

BOREHOLE NO:

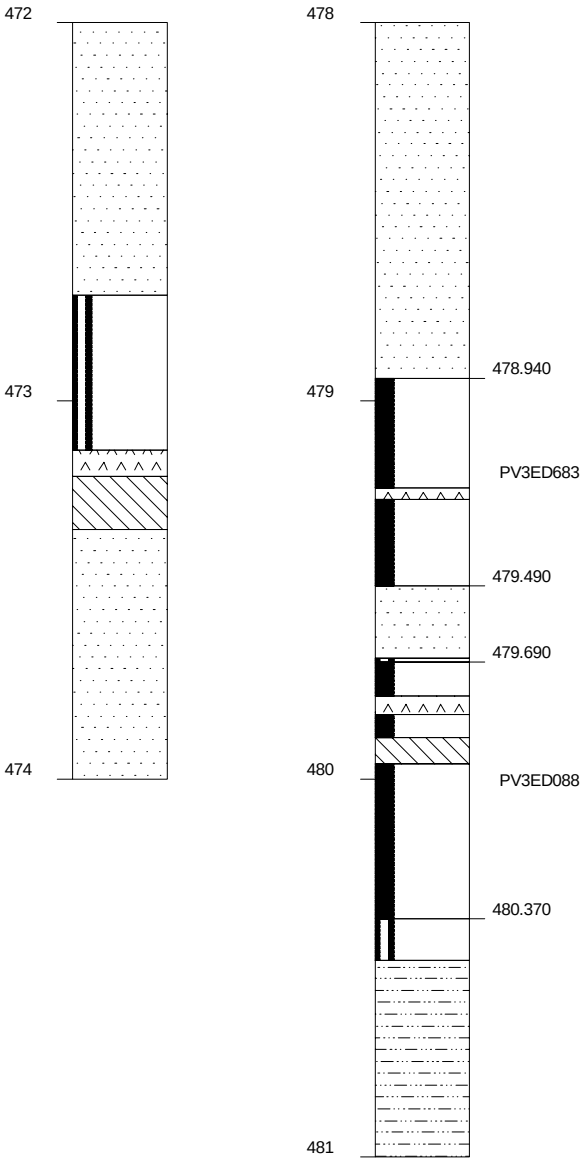
PROJECT

Plainview-3

DATE DRILLED April 2008

LOGGED BY: sch4p4(Matt Weems

SCALE: As Shown PLAN NO. 5



LEGEND

- SANDSTONE
- COAL Dull
- TUFF
- CARB MUDSTONE
- COAL Dull minor bright
- SILTSTONE

Published on DESI Disclosure Log
RTI Act 2009

BOREHOLE NO:

PROJECT

Plainview-3

DATE DRILLED April 2008

LOGGED BY: sch4n4 (6) Matt Weems

SCALE: As Shown PLAN No. 144-148 6

Plainview-3 Well Abandonment Report

Surat Basin
PL238
Plainview
Operated By Arrow Energy Pty
Ltd

03/02/2012	WELL ABANDONMENT REPORT FOR PLAINVIEW-3	sch4p4(6) Personal information		
		JNIGHTINGALE	DCUMMING	CBRADFORD
		<i>Jnightingale</i>	<i>[Signature]</i>	<i>[Signature]</i>
DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED

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1 WELL DATA CARD

Well Name and Number		Plainview-3
Petroleum Tenure		PL238
Location	Latitude	-27° 28' 50.25" S
	Longitude	151° 10' 40.57" E
	Easting	319980.93
	Northing	6959008.288
	Zone	56
	Datum	GDA94
Elevation	GL (m)	351.41
	KB (m)	NA
TD (m)		564.20
Well Type		Corehole with continuous core
Drilling Contractor		Major Drilling
Rig Type and Number		Major70 - UDR 1200
Operator		Arrow Energy Pty Ltd
Hole Status		P&A
P&A Date		18-May-2005
Date Well Completion Report Submitted		17-Mar-2010

* All depths measured from ground level

2 DRILLING AND COMPLETION SUMMARY

Plainview-3 was drilled by Arrow Energy Ltd through April and May, 2008 to a total depth (TD) of 564.19m in ATP 683P. The well was designed to test gas contents and coal properties in the southermost part of PLA 238, west of the Horrane fault. It was located in an area free of intensive cultivation and a likely early site for development drilling when a PL was granted.

A 7 7/8" (200mm) hole was drilled on Water using a PCD bit to a depth of 6m for the Conductor section. The conductor casing was installed and cemented using 1.28 barrels of cement.

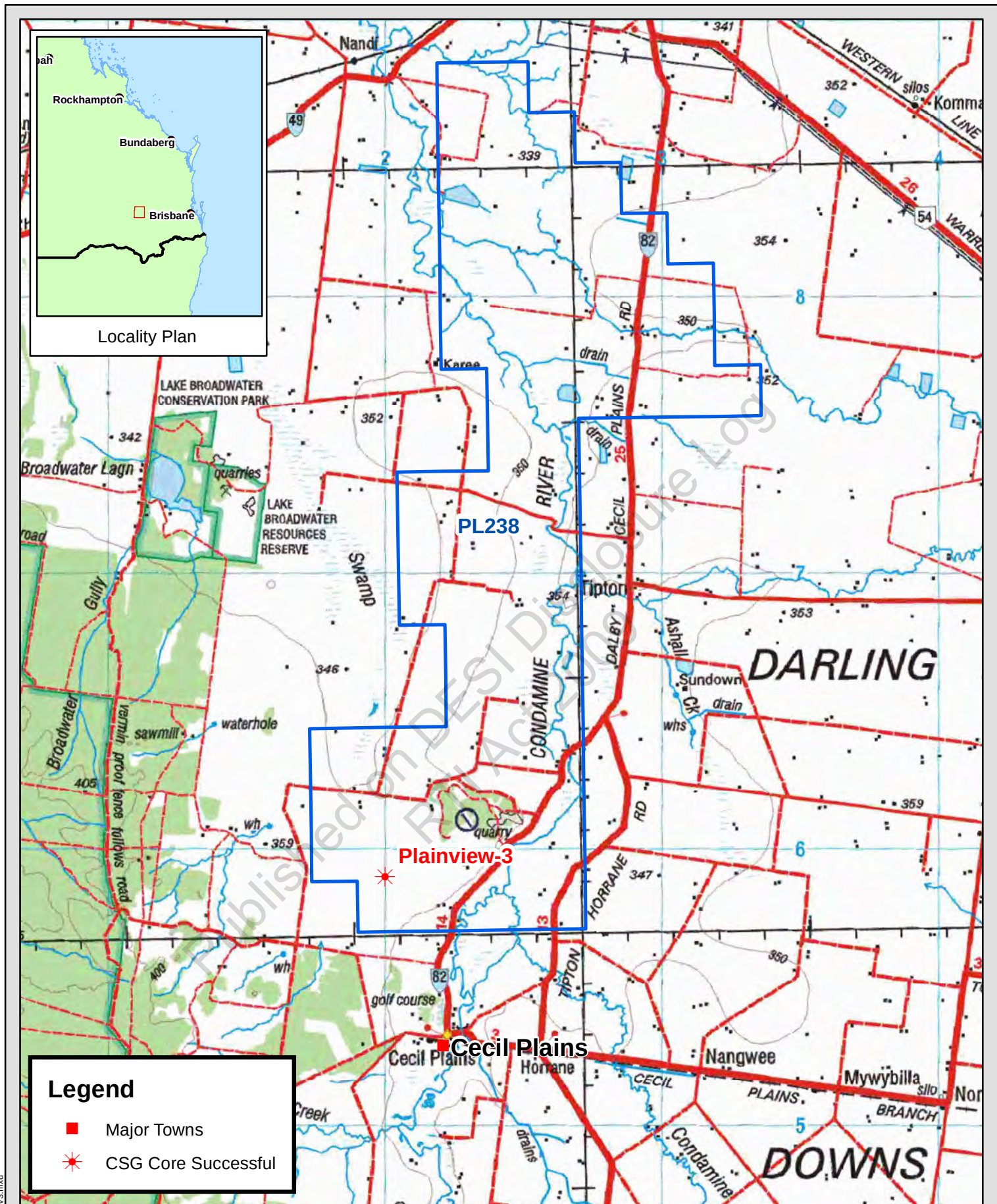
The surface section was drilled on Water, Liquid Polymer and CR-650 with a 5 3/4" (146mm) PCD bit to a depth of 143.5m. No difficulties were encountered.

Surface casing of 4 1/2" (114mm) was run to a depth of 142.5m. A total quantity of 10 barrels of cement with an SG of 1.68 and 6.59 barrels of chase water was used to cement the surface casing.

The BOP was nipped up and a successful pressure test conducted at 300psi. The BHA (3 3/4" (96mm) HQ bit) was then run in the hole and the cement plug tagged at 122m. The hole was then cored on Water, Liquid Polymer and CR-650 to a depth of 564.19m (TD). Core recovery was excellent (422.05m of core recovered from 420.69m of drilling – >100%). A net coal thickness of 27.17m was recorded (a field coal thickness of 29.4m was recorded where all desorption samples were assumed to be stone free coal). The entirety of the net total was obtained within the Walloon Coal Measures.

A total of 27 coal samples were taken for Desorption, Coal Proximate, Langmuir Isotherm as well as Maceral and Vitrinite Reflectance analysis across the Walloon Coal Measures. The hole was geophysically logged on the 1st of May, 2008. DST testing was conducted from the 2nd to the 5th of May, 2008 over 4 separate intervals. The top depths of each interval were 161m, 312m, 398m and 448m.

Plainview-3 was plugged and abandoned on the 18th of May 2005 with a continuous cement plug from 0.00m to the total depth using 44.52 barrels of cement.



Plainview-3

Source:
Arrow Energy Pty Ltd
Geosciences Australia
Dept. Envir. and Resource Mgmt.

Date: 3/02/2012
Issued To: Southern Exploration
Author: J. Nightingale

0 5 10
Kilometres
Scale: 1:180,000 @ A4
Coordinate System: GDA 1994 MGA Zone 56



Based on or contains data provided by the State of Queensland (Department of Environment and Resource Management) [2012]. In consideration of the State permitting use of this data you acknowledge and agree that the State gives no warranty in relation to the data (including accuracy, reliability, completeness, currency or suitability) and accepts no liability (including without limitation, liability in negligence) for any loss, damage or costs (including consequential damage) relating to any use of the data. Data must not be used for direct marketing or be used in breach of the privacy laws

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The dimensions, areas, number of lots, size & location of corridor information are approximate only and may vary.

Disclaimer: While all reasonable care has been taken to ensure the information contained on this map is up to date and accurate, no warranty is given that the information contained on this map is free from error or omission. Any reliance placed on such information shall be at the sole risk of the user. Please verify the accuracy of all information prior to using it.

Note: The information shown on this map is a copyright of Arrow Energy Pty Ltd and, where applicable, its affiliates and coventurers.

SPLD: 12/4/2008 TD: 29/04/2008 RELEASE: 02/05/2008	ELEVATION: 351.41m	CASING SHOE: 143.5	NET COAL: 27.17m
	LATITUDE: 27° 28' 50.2457"	TOTAL DEPTH: 564.2	GROSS COAL: 29.40m
	LONGITUDE: 151° 10' 40.5697"	CONTRACTOR: Major Drilling	GROSS DESORBING COAL: 19.72m
	EASTING: 319 980.930 E	RIG: P70	NO. OF DESORPTION SAMPLES: 27
	NORTHING: 6 959 008.288 N	GEOLOGIST: M. Jacobs/M. Weems	



- Open Hole
- Cement
- Unslotted Casing
- Slotted Casing
- Gravel Pack
- Cored Hole
- Coal Seam

5 POSITION OF SIGNIFICANT INTERSECTIONS

5.1 COAL SEAMS

Formation	From (m)	To (m)	Thickness (m)
Wambo	240.97	241.06	0.08
Wambo	241.49	242.03	0.54
Wambo	242.07	242.28	0.21
Wambo	248.79	248.88	0.09
Wambo	257.02	257.05	0.02
Wambo	270.44	271.63	1.20
Wambo	273.39	274.54	1.14
Wambo	281.31	281.45	0.15
Wambo	282.67	282.88	0.22
Wambo	284.74	284.94	0.21
Wambo	285.36	285.63	0.26
Argyle	302.13	302.92	0.79
Argyle	312.96	313.05	0.08
Argyle	313.08	313.31	0.22
Argyle	313.50	314.13	0.64
Argyle	314.30	314.38	0.08
Argyle	315.00	315.08	0.08
Argyle	315.86	316.10	0.24
Argyle	318.15	318.21	0.06
Argyle	323.74	324.57	0.84
Argyle	325.50	326.18	0.67
Argyle	327.62	328.81	1.19
Argyle	329.63	329.99	0.35
Argyle	330.11	330.29	0.18
Argyle	331.27	331.79	0.51
Argyle	332.50	332.60	0.10
Argyle	340.88	340.99	0.11
Argyle	341.23	341.36	0.13
Argyle	343.01	343.04	0.02
Argyle	343.05	343.35	0.30
Argyle	343.63	344.42	0.79
Argyle	344.44	344.44	0.01

Formation	From (m)	To (m)	Thickness (m)
Argyle	345.18	345.57	0.40
Wambo	239.62	239.85	0.24
Wambo	237.59	237.69	0.10
Wambo	232.71	233.05	0.34
Wambo	230.49	230.63	0.15
Wambo	223.26	223.78	0.52
Macalister	200.63	200.75	0.11
Macalister	199.53	199.75	0.22
Macalister	198.85	199.26	0.41
Macalister	172.51	173.49	0.97
Macalister	167.56	167.75	0.18
Macalister	167.34	167.38	0.04
Macalister	166.95	167.26	0.31
Macalister	165.82	165.84	0.02
Kogan	156.72	156.88	0.16
Kogan	156.13	156.29	0.17
Macalister	196.26	196.28	0.01
Macalister	194.79	194.81	0.01
Macalister	190.12	190.47	0.35
Macalister	189.88	189.96	0.08
Macalister	189.65	189.78	0.13
Macalister	188.22	189.63	1.42
Macalister	187.71	187.79	0.09
Macalister	187.69	187.69	0.01
Macalister	186.75	186.88	0.14
Taroom	352.86	353.00	0.15
Taroom	367.95	368.07	0.12
Taroom	368.46	368.48	0.01
Taroom	368.50	368.88	0.37
Taroom	371.36	371.38	0.03
Taroom	371.42	371.54	0.12
Taroom	371.55	371.60	0.05
Taroom	380.42	380.45	0.04
Taroom	385.58	385.74	0.15
Taroom	386.44	386.50	0.05

Formation	From (m)	To (m)	Thickness (m)
Taroom	387.11	387.20	0.10
Taroom	398.74	399.07	0.34
Taroom	400.98	401.14	0.17
Taroom	401.18	401.20	0.03
Taroom	401.24	401.86	0.62
Taroom	410.04	410.10	0.06
Taroom	410.13	410.13	0.01
Taroom	410.25	410.42	0.17
Taroom	415.56	415.75	0.19
Taroom	415.88	416.50	0.62
Taroom	416.56	416.64	0.08
Taroom	418.31	418.61	0.30
Taroom	418.71	418.75	0.04
Taroom	418.81	419.17	0.36
Condamine	449.86	450.17	0.31
Condamine	450.19	450.19	0.01
Condamine	450.37	450.42	0.05
Condamine	450.48	450.79	0.31
Condamine	451.24	452.48	1.24
Condamine	453.48	453.50	0.02
Condamine	459.74	460.71	0.98
Condamine	460.77	460.81	0.03
Condamine	461.13	461.26	0.14
Condamine	461.27	462.11	0.83
Condamine	462.12	462.14	0.03
Condamine	462.17	462.31	0.15
Condamine	462.70	462.86	0.15
Condamine	463.48	463.64	0.17
Condamine	463.70	463.89	0.19
Condamine	463.90	463.94	0.03
Condamine	464.19	464.31	0.12
Condamine	464.77	465.63	0.86
Condamine	465.64	465.67	0.02
Condamine	465.73	466.96	1.24
Condamine	468.94	469.51	0.58

Formation	From (m)	To (m)	Thickness (m)
Condamine	472.73	473.20	0.48
Condamine	473.24	473.27	0.04
Condamine	478.96	479.25	0.28
Condamine	479.25	479.42	0.16
Condamine	479.74	479.76	0.03
Condamine	479.94	480.44	0.49
Eurombah Fm	539.61	539.77	0.17

*All depths measured from Ground Level

5.2 NATURAL UNDERGROUND RESERVOIRS

All coal seams are considered natural underground reservoirs. See 5.1 for details.

5.3 AQUIFERS

Formation	From (m)	To (m)	Thickness (m)
Alluvium	0.00	27.55	27.55
Springbok Sst	103.50	150.95	47.45
Tangalooma SST	347.58	352.37	4.79

*All depths measured from Ground Level

6 DRILLING/ENGINEERING DATA

6.1 HOLE SIZE

Interval (from/to) (m)	Hole Size (inches)	Bit Type	Fluid	Fluid Additives
0.00-6.00	7 7/8"	PDC	Water	-
6.00-143.50	5 3/4"	PDC	Water	Liquid Polymer, CR-650
143.50-564.19	96mm	HQ	Water	Liquid Polymer, CR-650

*All depths measured from Ground Level

6.2 CASING

Casing Phase	Interval (from/to) (m)	OD (inches)	API Grade	Thread	Weight (ppf)
Conductor	0.00-6.00	6 5/8"	5LB	SFJ	17.02
Surface	0.00-143.50	4 1/2"	5LB	SFJ	10.79

*All depths measured from Ground Level

6.3 ADDITIONAL EQUIPMENT AND HAZARDS

No additional equipment or hazards.

6.4 CEMENT CASING ANNULUS

Casing Phase	Interval (from/to) (m)	Cement Type	Slurry Volume (Barrels)	Slurry Weight (ppg)	Displacement Volume (Barrels)	Comments
Conductor	0.00-6.00	Class A	1.28	16.50	0.00	-
Surface	0.00-143.50	Class A	10.00	16.80	6.59	-

*All depths measured from Ground Level

6.5 CEMENT PLUG DETAILS

Interval (from/to) (m)	Cement Type	Slurry Volume (Barrels)	Slurry Weight (ppg)	Comments
0.00-564.19	Class A	44.52	16.80	-

*All depths measured from Ground Level

6.6 CEMENT LOSSES/COMPLICATIONS

No cement losses or complications.

6.7 PERFORATION / SLOTTING DETAILS

Perforation and slotting not conducted.

7 DETAILS OF STIMULATION

Stimulation not conducted.

APPENDIX 1. DOWN HOLE SURVEY

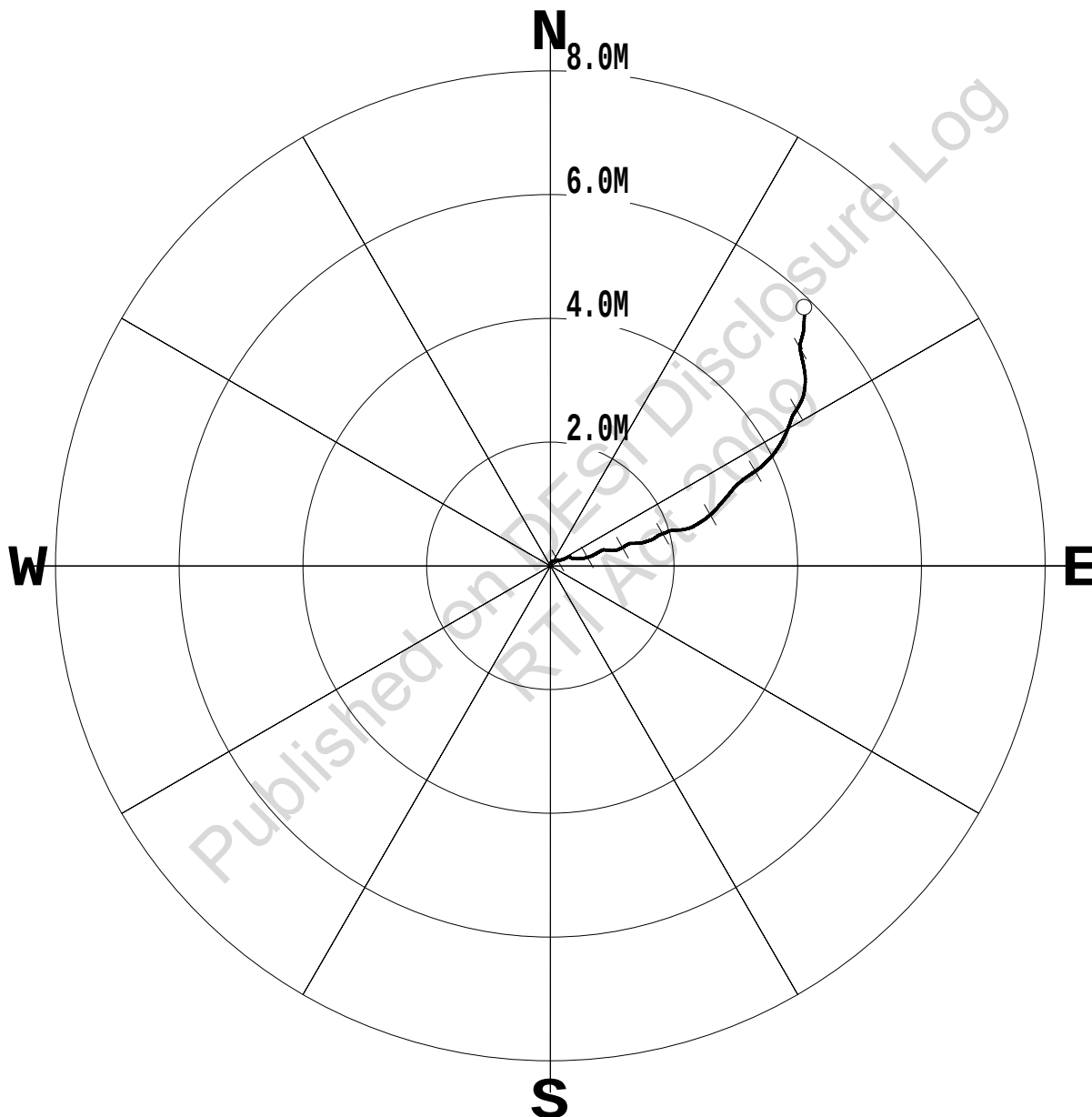
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RTI Act 2009

PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ARROW ENERGY
LOCATION: PLAINVIEW
HOLE ID: PLAINVIEW3
DATE OF LOG: 05/01/08
PROBE: 9057A 553

MAG DECL: 0.0

SCALE: 1 M/CM
TRUE DEPTH: 540.84 M
AZIMUTH: 44.5
DISTANCE: 5.9 M
+ = 50 M INCR
○ = BOTTOM OF HOLE



PLAINVIEW3_LIST

* * * * * COMPU-LOG - VERTICAL DEVIATION * * * * *

CLIENT : ARROW ENERGY HOLE ID. : PLAINVIEW3
 FIELD OFFICE : DATE OF LOG : 05/01/08
 DATA FROM : NONE PROBE : 9057A , 553
 MAG. DECL. : 0.000 DEPTH UNITS : METERS
 LOG: PLAINVIEW3_DEVI.log

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
137.31	137.31	0.00	0.00	0.0	48.7	0.7	48.7
145.85	145.85	0.08	0.05	0.1	34.1	0.9	81.9
155.85	155.85	0.11	0.20	0.2	62.6	0.9	73.6
165.85	165.85	0.14	0.29	0.3	63.5	0.3	74.7
175.85	175.85	0.14	0.32	0.4	66.6	0.1	176.2
185.85	185.85	0.12	0.39	0.4	73.5	0.8	97.8
195.85	195.85	0.12	0.53	0.5	77.2	0.9	78.3
205.85	205.85	0.16	0.67	0.7	76.5	0.7	64.1
215.85	215.84	0.23	0.79	0.8	73.9	0.6	57.0
225.85	225.84	0.26	0.87	0.9	73.4	0.3	102.4
235.85	235.84	0.25	0.98	1.0	75.9	0.9	89.9
245.85	245.84	0.27	1.11	1.1	76.4	0.6	67.2
255.85	255.84	0.33	1.21	1.3	74.9	0.8	61.1
265.85	265.84	0.37	1.31	1.4	74.4	0.6	91.0
275.85	275.84	0.37	1.46	1.5	75.8	0.8	85.5
285.85	285.84	0.43	1.65	1.7	75.5	0.7	68.6
295.85	295.84	0.49	1.75	1.8	74.3	0.7	61.6
305.85	305.84	0.55	1.90	2.0	73.7	0.6	61.8
315.85	315.83	0.58	2.02	2.1	74.0	0.8	81.6
325.85	325.83	0.59	2.16	2.2	74.8	0.9	81.7
335.85	335.83	0.65	2.34	2.4	74.4	1.2	60.1
345.85	345.83	0.77	2.52	2.6	73.0	1.1	56.6
355.85	355.83	0.91	2.67	2.8	71.2	1.1	42.6
365.85	365.83	1.06	2.80	3.0	69.3	1.2	45.3
375.85	375.82	1.20	2.92	3.2	67.6	1.1	39.1
385.85	385.82	1.34	3.06	3.3	66.3	1.2	51.6
395.85	395.82	1.47	3.23	3.6	65.5	1.3	55.2
405.85	405.82	1.61	3.42	3.8	64.8	1.5	46.9
415.85	415.81	1.81	3.61	4.0	63.4	1.7	37.7
425.85	425.81	2.05	3.76	4.3	61.4	1.6	26.4
435.85	435.81	2.28	3.86	4.5	59.5	1.3	19.0
445.85	445.80	2.46	3.94	4.6	58.0	1.0	32.3
455.85	455.80	2.64	4.04	4.8	56.9	1.3	26.5
465.85	465.80	2.86	4.11	5.0	55.1	1.4	6.9
475.85	475.80	3.11	4.11	5.2	52.9	1.3	352.8
485.85	485.79	3.30	4.08	5.2	51.1	1.0	344.7
495.85	495.79	3.45	4.05	5.3	49.5	0.9	348.7
505.85	505.79	3.59	4.04	5.4	48.4	0.8	9.7
515.85	515.79	3.74	4.08	5.5	47.5	1.0	12.4
525.85	525.79	3.94	4.10	5.7	46.2	1.2	4.6
535.85	535.79	4.11	4.11	5.8	45.0	0.9	358.9
540.90	540.84	4.18	4.10	5.9	44.5	0.5	14.3