

APPENDIX 5A

DEVIATION SURVEY REPORTS: STANDARD

PetroFrontier

Georgina Basin

Baldwin

Baldwin 2/2H

Baldwin-2

Design: Baldwin-2

Standard Survey Report

13 February, 2012

Petrofrontier

Survey Report

Company:	PetroFrontier	Local Co-ordinate Reference:	Site Baldwin
Project:	Georgina Basin	TVD Reference:	revised well RT @ 353.08m
Site:	Baldwin	MD Reference:	revised well RT @ 353.08m
Well:	Baldwin 2/2H	North Reference:	True
Wellbore:	Baldwin-2	Survey Calculation Method:	Minimum Curvature
Design:	Baldwin-2	Database:	edm1

Project	Georgina Basin		
Map System:	Universal Transverse Mercator	System Datum:	Ground Level
Geo Datum:	GDA94		
Map Zone:	Zone 53S (132 E to 138 E)		

Site						Baldwin, EP103 NT								
Site Position: From: Map			Northing:			7,537,603.50 m			Latitude:			22° 15' 49.763 S		
			Easting:			607,021.40 m			Longitude:			136° 2' 19.360 E		
			Slot Radius:			13.200 in			Grid Convergence:			-0.39 °		
Position Uncertainty:			2.00 m											

Well	Baldwin 2/2H					
Well Position	+N/-S	0.00 m	Northing:	7,537,603.50 m	Latitude:	22° 15' 49.763 S
	+E/-W	0.00 m	Easting:	607,021.40 m	Longitude:	136° 2' 19.360 E
Position Uncertainty		3.00 m	Wellhead Elevation:	348.38 m	Ground Level:	348.38 m

Wellbore	Baldwin-2				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	8/2/2011	5.49	-53.58	52,066

Design	Baldwin-2				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (m)	+N/-S (m)	+E/-W (m)	Direction (°)	
	0.00	0.00	0.00	18.36	

Survey Program	Date	2/13/2012			
From (m)	To (m)	Survey (Wellbore)	Tool Name	Description	
120.00	404.00	Film SS (Baldwin-2)	DIPMETER	Dipmeter or other wireline log	
415.00	951.00	GPIT (Baldwin-2)	MWD	MWD - Standard	

Survey										
Measured Depth (m)	Inclination (°)	Azimuth (°)	Vertical Depth (m)	+N/-S (m)	+E/-W (m)	Vertical Section (m)	Dogleg Rate (°/30m)	Build Rate (°/30m)	Turn Rate (°/30m)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	
23.00	0.14	10.00	23.00	0.03	0.01	0.03	0.187	0.187	0.000	
13 3/8"										
120.00	0.75	10.00	120.00	0.77	0.14	0.78	0.187	0.187	0.000	
183.00	0.50	10.00	182.99	1.45	0.26	1.46	0.119	-0.119	0.000	
240.00	0.10	135.00	239.99	1.66	0.33	1.68	0.296	-0.211	65.789	
309.00	0.50	10.00	308.99	1.91	0.43	1.95	0.245	0.174	-54.348	
366.00	0.50	35.00	365.99	2.36	0.61	2.44	0.114	0.000	13.158	
404.00	0.50	10.00	403.99	2.66	0.74	2.76	0.171	0.000	-19.737	
415.00	0.26	221.39	414.99	2.69	0.73	2.78	2.008	-0.649	-405.300	

Petrofrontier

Survey Report

Company:	PetroFrontier	Local Co-ordinate Reference:	Site Baldwin
Project:	Georgina Basin	TVD Reference:	revised well RT @ 353.08m
Site:	Baldwin	MD Reference:	revised well RT @ 353.08m
Well:	Baldwin 2/2H	North Reference:	True
Wellbore:	Baldwin-2	Survey Calculation Method:	Minimum Curvature
Design:	Baldwin-2	Database:	edm1

Survey										
Measured Depth (m)	Inclination (°)	Azimuth (°)	Vertical Depth (m)	+N/-S (m)	+E/-W (m)	Vertical Section (m)	Dogleg Rate (°/30m)	Build Rate (°/30m)	Turn Rate (°/30m)	
416.00	0.19	230.58	415.99	2.69	0.73	2.78	2.358	-2.097	275.772	
417.80	0.12	10.85	417.79	2.69	0.73	2.78	4.935	-1.173	2,337.769	
9 5/8"										
420.00	0.48	29.26	419.99	2.70	0.73	2.79	4.935	4.822	251.005	
430.00	0.63	23.29	429.99	2.78	0.77	2.89	0.506	0.476	-17.897	
440.00	0.52	1.14	439.99	2.88	0.80	2.98	0.747	-0.348	-66.451	
451.00	0.41	2.53	450.99	2.97	0.80	3.07	0.290	-0.289	3.803	
460.00	0.54	30.87	459.99	3.04	0.82	3.14	0.880	0.426	94.442	
471.00	0.64	28.78	470.99	3.14	0.88	3.25	0.287	0.281	-5.702	
480.00	0.59	24.52	479.98	3.22	0.92	3.35	0.242	-0.189	-14.197	
490.00	0.50	27.30	489.98	3.31	0.96	3.44	0.260	-0.247	8.355	
500.00	0.60	28.08	499.98	3.39	1.01	3.54	0.281	0.280	2.337	
510.00	0.65	18.63	509.98	3.49	1.05	3.65	0.347	0.160	-28.342	
515.10	0.63	16.52	515.08	3.55	1.07	3.70	0.202	-0.147	-12.402	
7"										
520.00	0.60	14.34	519.98	3.60	1.08	3.76	0.202	-0.142	-13.392	
530.00	0.55	23.20	529.98	3.69	1.11	3.86	0.306	-0.149	26.580	
541.00	0.65	32.14	540.98	3.80	1.17	3.97	0.378	0.278	24.400	
550.00	0.74	27.45	549.98	3.89	1.22	4.08	0.346	0.289	-15.643	
560.00	0.75	22.14	559.98	4.01	1.28	4.21	0.208	0.015	-15.939	
571.00	0.69	25.57	570.98	4.13	1.33	4.34	0.198	-0.159	9.371	
580.00	0.77	33.78	579.98	4.23	1.39	4.46	0.432	0.259	27.361	
590.00	0.93	38.18	589.98	4.35	1.48	4.60	0.519	0.481	13.183	
600.00	0.99	33.57	599.98	4.49	1.57	4.76	0.300	0.192	-13.816	
610.00	0.97	33.72	609.97	4.63	1.67	4.92	0.066	-0.066	0.459	
621.00	0.91	36.83	620.97	4.78	1.77	5.09	0.209	-0.156	8.471	
631.00	0.92	36.25	630.97	4.91	1.87	5.24	0.045	0.036	-1.754	
640.00	0.96	30.84	639.97	5.03	1.95	5.39	0.318	0.117	-18.030	
650.00	0.90	24.63	649.97	5.17	2.02	5.55	0.355	-0.189	-18.619	
660.00	0.84	26.20	659.97	5.31	2.09	5.70	0.192	-0.178	4.717	
671.00	0.85	30.38	670.97	5.45	2.17	5.86	0.173	0.043	11.388	
680.00	0.94	29.02	679.97	5.57	2.24	5.99	0.289	0.280	-4.525	
690.00	1.00	23.05	689.96	5.72	2.31	6.16	0.359	0.194	-17.922	
701.00	1.02	22.07	700.96	5.90	2.38	6.35	0.066	0.046	-2.675	
710.00	1.04	23.09	709.96	6.05	2.45	6.52	0.108	0.089	3.413	
720.00	1.03	25.73	719.96	6.22	2.52	6.70	0.147	-0.031	7.921	
730.00	0.97	28.43	729.96	6.37	2.60	6.87	0.237	-0.190	8.104	
741.00	0.98	27.99	740.96	6.54	2.69	7.05	0.026	0.016	-1.216	
750.00	0.99	26.63	749.96	6.68	2.76	7.21	0.089	0.043	-4.536	
761.00	0.94	24.62	760.95	6.84	2.84	7.39	0.175	-0.149	-5.472	
770.00	0.94	22.18	769.95	6.98	2.90	7.54	0.135	0.022	-8.126	
781.00	0.90	22.01	780.95	7.14	2.96	7.71	0.117	-0.117	-0.456	
790.00	0.88	20.72	789.95	7.27	3.01	7.85	0.082	-0.048	-4.303	

Petrofrontier

Survey Report

Company:	PetroFrontier	Local Co-ordinate Reference:	Site Baldwin
Project:	Georgina Basin	TVD Reference:	revised well RT @ 353.08m
Site:	Baldwin	MD Reference:	revised well RT @ 353.08m
Well:	Baldwin 2/2H	North Reference:	True
Wellbore:	Baldwin-2	Survey Calculation Method:	Minimum Curvature
Design:	Baldwin-2	Database:	edm1

Survey										
Measured Depth (m)	Inclination (°)	Azimuth (°)	Vertical Depth (m)	+N/-S (m)	+E/-W (m)	Vertical Section (m)	Dogleg Rate (°/30m)	Build Rate (°/30m)	Turn Rate (°/30m)	
800.00	0.90	21.13	799.95	7.42	3.07	8.01	0.058	0.055	1.236	
810.00	0.91	16.30	809.95	7.57	3.12	8.17	0.233	0.036	-14.500	
821.00	0.85	16.35	820.95	7.73	3.17	8.33	0.184	-0.184	0.121	
830.00	0.91	17.02	829.95	7.86	3.21	8.47	0.207	0.204	2.262	
841.00	0.96	16.46	840.94	8.03	3.26	8.65	0.152	0.150	-1.544	
850.00	0.92	11.76	849.94	8.18	3.30	8.80	0.298	-0.151	-15.655	
860.00	0.76	6.54	859.94	8.32	3.32	8.94	0.531	-0.480	-15.655	
870.00	0.64	1.38	869.94	8.44	3.33	9.06	0.398	-0.351	-15.480	
881.00	0.27	320.53	880.94	8.52	3.31	9.13	1.283	-1.006	-111.410	
890.00	0.50	227.71	889.94	8.51	3.27	9.11	1.938	0.759	-309.404	
900.00	0.93	234.74	899.94	8.44	3.17	9.01	1.326	1.302	21.072	
911.00	1.07	229.51	910.94	8.32	3.02	8.85	0.437	0.360	-14.250	
920.00	1.42	220.67	919.94	8.18	2.88	8.67	1.346	1.188	-29.455	
931.00	1.52	215.38	930.93	7.96	2.71	8.41	0.456	0.266	-14.442	
941.00	1.73	205.49	940.93	7.71	2.57	8.13	1.042	0.620	-29.656	
951.00	1.73	194.73	950.92	7.43	2.47	7.83	0.973	0.010	-32.293	

Casing Points					
Measured Depth (m)	Vertical Depth (m)	Name	Casing Diameter (in)	Hole Diameter (in)	
23.00	23.00	13 3/8"	13.375	17.500	
417.80	417.79	9 5/8"	9.625	12.250	
515.10	515.08	7"	7.000	7.500	

Checked By: _____	Approved By: _____	Date: _____
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PetroFrontier

Georgina Basin

Baldwin

Baldwin 2/2H

Baldwin-2H

Design: Baldwin-2H

Survey Report - Geographic

05 March, 2012

Petrofrontier
Survey Report - Geographic

Company:	PetroFrontier	Local Co-ordinate Reference:	Site Baldwin
Project:	Georgina Basin	TVD Reference:	revised well RT @ 353.08m
Site:	Baldwin	MD Reference:	revised well RT @ 353.08m
Well:	Baldwin 2/2H	North Reference:	True
Wellbore:	Baldwin-2H	Survey Calculation Method:	Minimum Curvature
Design:	Baldwin-2H	Database:	edm1

Project	Georgina Basin		
Map System:	Universal Transverse Mercator	System Datum:	Ground Level
Geo Datum:	GDA94		
Map Zone:	Zone 53S (132 E to 138 E)		

Site		Baldwin, EP103 NT			
Site Position:		Northing:	7,537,603.50 m	Latitude:	22° 15' 49.763 S
From:	Map	Easting:	607,021.40 m	Longitude:	136° 2' 19.360 E
Position Uncertainty:	2.00 m	Slot Radius:	13.200 in	Grid Convergence:	-0.39 °

Well	Baldwin 2/2H					
Well Position	+N/-S	0.00 m	Northing:	7,537,603.50 m	Latitude:	22° 15' 49.763 S
	+E/-W	0.00 m	Easting:	607,021.40 m	Longitude:	136° 2' 19.360 E
Position Uncertainty		3.00 m	Wellhead Elevation:	348.38 m	Ground Level:	348.38 m

Wellbore	Baldwin-2H				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	8/2/2011	5.49	-53.58	52,066

Design	Baldwin-2H				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	530.15
Vertical Section:	Depth From (TVD) (m)	+N/-S (m)	+E/-W (m)	Direction (°)	
	0.00	0.00	0.00	14.44	

Survey Program	Date	3/5/2012			
From (m)	To (m)	Survey (Wellbore)	Tool Name	Description	
120.00	404.00	Film SS (Baldwin-2)	DIPMETER	Dipmeter or other wireline log	
415.00	530.15	GPIT (Baldwin-2)	MWD	MWD - Standard	
538.10	1,603.45	6 1/8" MWD (Baldwin-2H)	MWD	MWD - Standard	

Survey										
Measured Depth (m)	Inclination (°)	Azimuth (°)	Vertical Depth (m)	+N/-S (m)	+E/-W (m)	Map Northing (m)	Map Easting (m)	Latitude	Longitude	
0.00	0.00	0.00	0.00	0.00	0.00	7,537,603.50	607,021.40	22° 15' 49.763 S	136° 2' 19.360 E	
120.00	0.75	10.00	120.00	0.77	0.14	7,537,604.27	607,021.55	22° 15' 49.738 S	136° 2' 19.365 E	
183.00	0.50	10.00	182.99	1.45	0.26	7,537,604.95	607,021.67	22° 15' 49.716 S	136° 2' 19.369 E	
240.00	0.10	135.00	239.99	1.66	0.33	7,537,605.16	607,021.75	22° 15' 49.709 S	136° 2' 19.372 E	
309.00	0.50	10.00	308.99	1.91	0.43	7,537,605.41	607,021.85	22° 15' 49.700 S	136° 2' 19.375 E	
366.00	0.50	35.00	365.99	2.36	0.61	7,537,605.86	607,022.03	22° 15' 49.686 S	136° 2' 19.381 E	
404.00	0.50	10.00	403.99	2.66	0.74	7,537,606.16	607,022.16	22° 15' 49.676 S	136° 2' 19.386 E	
415.00	0.26	221.39	414.99	2.69	0.73	7,537,606.18	607,022.15	22° 15' 49.675 S	136° 2' 19.386 E	
416.00	0.19	230.58	415.99	2.69	0.73	7,537,606.18	607,022.15	22° 15' 49.675 S	136° 2' 19.385 E	

Petrofrontier

Survey Report - Geographic

Company:	PetroFrontier	Local Co-ordinate Reference:	Site Baldwin
Project:	Georgina Basin	TVD Reference:	revised well RT @ 353.08m
Site:	Baldwin	MD Reference:	revised well RT @ 353.08m
Well:	Baldwin 2/2H	North Reference:	True
Wellbore:	Baldwin-2H	Survey Calculation Method:	Minimum Curvature
Design:	Baldwin-2H	Database:	edm1

Survey										
Measured Depth (m)	Inclination (°)	Azimuth (°)	Vertical Depth (m)	+N/-S (m)	+E/-W (m)	Map Northing (m)	Map Easting (m)	Latitude	Longitude	
417.80	0.12	10.85	417.79	2.69	0.73	7,537,606.18	607,022.15	22° 15' 49.675 S	136° 2' 19.385 E	
9 5/8"										
420.00	0.48	29.26	419.99	2.70	0.73	7,537,606.19	607,022.15	22° 15' 49.675 S	136° 2' 19.386 E	
430.00	0.63	23.29	429.99	2.78	0.77	7,537,606.28	607,022.20	22° 15' 49.672 S	136° 2' 19.387 E	
440.00	0.52	1.14	439.99	2.88	0.80	7,537,606.37	607,022.22	22° 15' 49.669 S	136° 2' 19.388 E	
451.00	0.41	2.53	450.99	2.97	0.80	7,537,606.46	607,022.22	22° 15' 49.666 S	136° 2' 19.388 E	
460.00	0.54	30.87	459.99	3.04	0.82	7,537,606.53	607,022.25	22° 15' 49.664 S	136° 2' 19.389 E	
471.00	0.64	28.78	470.99	3.14	0.88	7,537,606.63	607,022.30	22° 15' 49.661 S	136° 2' 19.391 E	
480.00	0.59	24.52	479.98	3.22	0.92	7,537,606.72	607,022.35	22° 15' 49.658 S	136° 2' 19.392 E	
490.00	0.50	27.30	489.98	3.31	0.96	7,537,606.80	607,022.39	22° 15' 49.655 S	136° 2' 19.394 E	
500.00	0.60	28.08	499.98	3.39	1.01	7,537,606.89	607,022.43	22° 15' 49.652 S	136° 2' 19.395 E	
510.00	0.65	18.63	509.98	3.49	1.05	7,537,606.98	607,022.48	22° 15' 49.649 S	136° 2' 19.397 E	
515.10	0.63	16.52	515.08	3.55	1.07	7,537,607.04	607,022.49	22° 15' 49.647 S	136° 2' 19.397 E	
7"										
520.00	0.60	14.34	519.98	3.60	1.08	7,537,607.09	607,022.51	22° 15' 49.646 S	136° 2' 19.398 E	
530.00	0.55	23.20	529.98	3.69	1.11	7,537,607.18	607,022.54	22° 15' 49.643 S	136° 2' 19.399 E	
536.50	2.33	345.89	536.48	3.85	1.09	7,537,607.34	607,022.52	22° 15' 49.637 S	136° 2' 19.398 E	
KOP										
538.10	2.80	344.20	538.08	3.92	1.07	7,537,607.41	607,022.50	22° 15' 49.635 S	136° 2' 19.398 E	
547.72	6.40	349.00	547.67	4.67	0.91	7,537,608.16	607,022.34	22° 15' 49.611 S	136° 2' 19.392 E	
557.36	10.80	358.50	557.20	6.10	0.78	7,537,609.60	607,022.23	22° 15' 49.564 S	136° 2' 19.387 E	
566.99	14.10	3.20	566.60	8.18	0.82	7,537,611.67	607,022.28	22° 15' 49.497 S	136° 2' 19.389 E	
575.64	15.40	5.10	574.96	10.37	0.98	7,537,613.86	607,022.46	22° 15' 49.425 S	136° 2' 19.394 E	
585.21	16.60	6.70	584.16	13.00	1.26	7,537,616.49	607,022.75	22° 15' 49.340 S	136° 2' 19.404 E	
594.85	17.30	7.70	593.38	15.78	1.61	7,537,619.27	607,023.12	22° 15' 49.249 S	136° 2' 19.416 E	
604.53	18.10	9.40	602.61	18.69	2.05	7,537,622.18	607,023.58	22° 15' 49.155 S	136° 2' 19.432 E	
614.16	18.80	11.20	611.74	21.69	2.59	7,537,625.17	607,024.15	22° 15' 49.057 S	136° 2' 19.451 E	
623.77	20.00	12.80	620.80	24.81	3.26	7,537,628.29	607,024.83	22° 15' 48.956 S	136° 2' 19.474 E	
633.40	21.30	13.70	629.82	28.12	4.04	7,537,631.59	607,025.63	22° 15' 48.848 S	136° 2' 19.501 E	
643.50	22.10	13.40	639.20	31.75	4.91	7,537,635.21	607,026.53	22° 15' 48.730 S	136° 2' 19.532 E	
652.66	22.40	12.80	647.68	35.13	5.70	7,537,638.59	607,027.34	22° 15' 48.620 S	136° 2' 19.559 E	
662.29	22.50	12.80	656.58	38.71	6.51	7,537,642.17	607,028.18	22° 15' 48.504 S	136° 2' 19.588 E	
671.90	23.00	13.50	665.44	42.33	7.36	7,537,645.78	607,029.05	22° 15' 48.386 S	136° 2' 19.617 E	
681.53	24.10	14.20	674.27	46.07	8.28	7,537,649.51	607,030.00	22° 15' 48.265 S	136° 2' 19.649 E	
691.14	25.10	14.20	683.01	49.95	9.26	7,537,653.38	607,031.01	22° 15' 48.138 S	136° 2' 19.684 E	
700.77	26.40	14.50	691.68	54.00	10.30	7,537,657.43	607,032.07	22° 15' 48.007 S	136° 2' 19.720 E	
710.38	28.00	15.40	700.23	58.24	11.43	7,537,661.66	607,033.24	22° 15' 47.869 S	136° 2' 19.759 E	
719.99	29.50	15.20	708.65	62.70	12.65	7,537,666.11	607,034.49	22° 15' 47.724 S	136° 2' 19.802 E	
729.61	30.80	15.30	716.97	67.36	13.92	7,537,670.76	607,035.79	22° 15' 47.572 S	136° 2' 19.846 E	
739.24	32.30	14.90	725.18	72.23	15.24	7,537,675.62	607,037.14	22° 15' 47.414 S	136° 2' 19.892 E	
748.85	34.80	15.10	733.18	77.36	16.61	7,537,680.74	607,038.55	22° 15' 47.247 S	136° 2' 19.940 E	
758.46	37.00	15.20	740.97	82.80	18.08	7,537,686.17	607,040.06	22° 15' 47.070 S	136° 2' 19.992 E	
763.46	37.80	15.20	744.94	85.73	18.88	7,537,689.09	607,040.87	22° 15' 46.975 S	136° 2' 20.020 E	
768.07	38.10	14.90	748.58	88.47	19.62	7,537,691.83	607,041.63	22° 15' 46.886 S	136° 2' 20.045 E	
773.07	38.90	14.80	752.49	91.47	20.41	7,537,694.83	607,042.44	22° 15' 46.788 S	136° 2' 20.073 E	
777.66	39.60	14.90	756.04	94.28	21.16	7,537,697.63	607,043.21	22° 15' 46.697 S	136° 2' 20.099 E	
787.30	41.50	15.10	763.37	100.33	22.78	7,537,703.67	607,044.87	22° 15' 46.500 S	136° 2' 20.156 E	
796.90	42.90	15.60	770.48	106.55	24.49	7,537,709.88	607,046.62	22° 15' 46.298 S	136° 2' 20.215 E	
806.50	43.90	15.40	777.45	112.91	26.25	7,537,716.22	607,048.43	22° 15' 46.091 S	136° 2' 20.277 E	
816.20	45.50	14.90	784.35	119.49	28.03	7,537,722.80	607,050.26	22° 15' 45.877 S	136° 2' 20.339 E	
825.77	46.80	15.00	790.98	126.16	29.81	7,537,729.45	607,052.08	22° 15' 45.660 S	136° 2' 20.402 E	
835.40	48.20	14.90	797.48	133.02	31.64	7,537,736.30	607,053.96	22° 15' 45.437 S	136° 2' 20.466 E	
845.02	49.90	15.20	803.79	140.04	33.53	7,537,743.30	607,055.90	22° 15' 45.209 S	136° 2' 20.531 E	
854.63	51.70	15.40	809.86	147.22	35.50	7,537,750.47	607,057.91	22° 15' 44.975 S	136° 2' 20.600 E	
864.24	53.50	15.50	815.70	154.58	37.53	7,537,757.82	607,059.99	22° 15' 44.736 S	136° 2' 20.671 E	

Petrofrontier

Survey Report - Geographic

Company:	PetroFrontier	Local Co-ordinate Reference:	Site Baldwin
Project:	Georgina Basin	TVD Reference:	revised well RT @ 353.08m
Site:	Baldwin	MD Reference:	revised well RT @ 353.08m
Well:	Baldwin 2/2H	North Reference:	True
Wellbore:	Baldwin-2H	Survey Calculation Method:	Minimum Curvature
Design:	Baldwin-2H	Database:	edm1

Survey									
Measured Depth (m)	Inclination (°)	Azimuth (°)	Vertical Depth (m)	+N/-S (m)	+E/-W (m)	Map Northing (m)	Map Easting (m)	Latitude	Longitude
873.35	55.00	15.60	821.02	161.70	39.51	7,537,764.92	607,062.03	22° 15' 44.504 S	136° 2' 20.740 E
883.95	56.20	15.40	827.01	170.13	41.85	7,537,773.34	607,064.42	22° 15' 44.230 S	136° 2' 20.822 E
893.07	57.30	15.20	832.01	177.49	43.86	7,537,780.68	607,066.48	22° 15' 43.991 S	136° 2' 20.892 E
902.70	59.10	15.10	837.08	185.39	46.00	7,537,788.56	607,068.68	22° 15' 43.734 S	136° 2' 20.967 E
912.32	60.90	15.40	841.89	193.42	48.19	7,537,796.59	607,070.92	22° 15' 43.473 S	136° 2' 21.044 E
921.93	62.70	15.70	846.44	201.58	50.46	7,537,804.73	607,073.25	22° 15' 43.207 S	136° 2' 21.123 E
931.56	64.10	15.20	850.75	209.88	52.76	7,537,813.01	607,075.60	22° 15' 42.938 S	136° 2' 21.203 E
941.18	64.90	15.00	854.89	218.26	55.02	7,537,821.38	607,077.92	22° 15' 42.665 S	136° 2' 21.282 E
950.66	65.80	14.60	858.84	226.59	57.22	7,537,829.69	607,080.18	22° 15' 42.394 S	136° 2' 21.359 E
960.27	67.20	14.00	862.67	235.13	59.40	7,537,838.22	607,082.41	22° 15' 42.116 S	136° 2' 21.435 E
972.00	69.50	14.30	867.00	245.70	62.06	7,537,848.77	607,085.15	22° 15' 41.773 S	136° 2' 21.528 E
981.63	71.40	14.50	870.22	254.49	64.32	7,537,857.54	607,087.47	22° 15' 41.487 S	136° 2' 21.607 E
991.26	73.40	14.70	873.14	263.38	66.63	7,537,866.41	607,089.84	22° 15' 41.198 S	136° 2' 21.688 E
1,000.88	75.70	15.00	875.70	272.34	69.01	7,537,875.36	607,092.28	22° 15' 40.907 S	136° 2' 21.771 E
1,010.51	78.10	15.70	877.88	281.38	71.49	7,537,884.38	607,094.83	22° 15' 40.612 S	136° 2' 21.858 E
1,020.14	80.10	16.00	879.70	290.48	74.07	7,537,893.46	607,097.47	22° 15' 40.317 S	136° 2' 21.948 E
1,029.77	81.90	16.40	881.21	299.61	76.73	7,537,902.58	607,100.19	22° 15' 40.020 S	136° 2' 22.041 E
1,039.39	83.70	16.20	882.41	308.77	79.41	7,537,911.72	607,102.93	22° 15' 39.722 S	136° 2' 22.134 E
1,049.02	85.90	16.20	883.29	317.98	82.08	7,537,920.91	607,105.67	22° 15' 39.422 S	136° 2' 22.228 E
1,058.66	87.60	16.00	883.83	327.23	84.75	7,537,930.14	607,108.40	22° 15' 39.122 S	136° 2' 22.321 E
1,068.23	89.20	15.80	884.10	336.43	87.37	7,537,939.32	607,111.08	22° 15' 38.822 S	136° 2' 22.412 E
1,077.85	90.20	15.80	884.15	345.68	89.99	7,537,948.56	607,113.77	22° 15' 38.521 S	136° 2' 22.504 E
1,087.46	90.70	15.80	884.08	354.93	92.61	7,537,957.78	607,116.45	22° 15' 38.221 S	136° 2' 22.595 E
1,097.10	90.50	15.70	883.97	364.21	95.22	7,537,967.04	607,119.13	22° 15' 37.919 S	136° 2' 22.687 E
1,106.71	89.80	16.00	883.95	373.45	97.85	7,537,976.27	607,121.81	22° 15' 37.618 S	136° 2' 22.778 E
1,116.32	88.40	15.90	884.10	382.69	100.49	7,537,985.49	607,124.52	22° 15' 37.318 S	136° 2' 22.871 E
1,125.94	87.70	15.90	884.43	391.94	103.12	7,537,994.72	607,127.21	22° 15' 37.017 S	136° 2' 22.963 E
1,135.55	88.80	15.60	884.72	401.18	105.73	7,538,003.95	607,129.89	22° 15' 36.717 S	136° 2' 23.054 E
1,145.17	89.50	15.60	884.86	410.45	108.32	7,538,013.19	607,132.54	22° 15' 36.415 S	136° 2' 23.144 E
1,154.79	89.00	15.30	884.99	419.72	110.88	7,538,022.45	607,135.16	22° 15' 36.114 S	136° 2' 23.234 E
1,164.41	88.10	15.20	885.23	429.00	113.41	7,538,031.71	607,137.76	22° 15' 35.812 S	136° 2' 23.322 E
1,174.03	87.40	15.20	885.61	438.27	115.93	7,538,040.97	607,140.34	22° 15' 35.511 S	136° 2' 23.410 E
1,183.66	86.50	15.40	886.12	447.55	118.47	7,538,050.22	607,142.94	22° 15' 35.209 S	136° 2' 23.499 E
1,193.28	87.50	14.70	886.63	456.83	120.96	7,538,059.48	607,145.50	22° 15' 34.907 S	136° 2' 23.586 E
1,202.90	89.00	14.70	886.92	466.13	123.40	7,538,068.77	607,148.00	22° 15' 34.605 S	136° 2' 23.671 E
1,212.52	89.40	14.60	887.05	475.43	125.83	7,538,078.06	607,150.50	22° 15' 34.302 S	136° 2' 23.756 E
1,222.14	90.00	14.50	887.11	484.74	128.25	7,538,087.35	607,152.98	22° 15' 33.999 S	136° 2' 23.840 E
1,231.77	90.10	14.50	887.10	494.07	130.66	7,538,096.66	607,155.45	22° 15' 33.696 S	136° 2' 23.925 E
1,241.36	90.20	14.30	887.07	503.36	133.05	7,538,105.93	607,157.90	22° 15' 33.394 S	136° 2' 24.008 E
1,250.99	89.70	13.80	887.08	512.70	135.38	7,538,115.25	607,160.31	22° 15' 33.090 S	136° 2' 24.090 E
1,260.62	88.80	13.90	887.21	522.05	137.69	7,538,124.59	607,162.67	22° 15' 32.786 S	136° 2' 24.170 E
1,270.25	89.40	14.10	887.36	531.39	140.02	7,538,133.91	607,165.07	22° 15' 32.482 S	136° 2' 24.252 E
1,279.00	89.40	14.40	887.45	539.87	142.17	7,538,142.38	607,167.28	22° 15' 32.207 S	136° 2' 24.327 E
1,289.50	88.80	14.50	887.61	550.04	144.79	7,538,152.53	607,169.97	22° 15' 31.876 S	136° 2' 24.418 E
1,299.14	88.00	14.50	887.88	559.37	147.20	7,538,161.84	607,172.45	22° 15' 31.573 S	136° 2' 24.503 E
1,308.76	87.50	14.30	888.26	568.68	149.59	7,538,171.13	607,174.90	22° 15' 31.270 S	136° 2' 24.586 E
1,318.38	87.00	14.40	888.72	577.99	151.98	7,538,180.43	607,177.35	22° 15' 30.967 S	136° 2' 24.669 E
1,328.00	87.10	14.30	889.22	587.29	154.36	7,538,189.72	607,179.79	22° 15' 30.665 S	136° 2' 24.753 E
1,337.62	87.50	13.90	889.67	596.61	156.70	7,538,199.02	607,182.20	22° 15' 30.362 S	136° 2' 24.834 E
1,348.61	87.60	14.10	890.14	607.27	159.35	7,538,209.66	607,184.93	22° 15' 30.015 S	136° 2' 24.927 E
1,358.22	88.00	13.60	890.51	616.59	161.65	7,538,218.96	607,187.29	22° 15' 29.712 S	136° 2' 25.007 E
1,367.66	88.70	13.80	890.78	625.76	163.89	7,538,228.12	607,189.59	22° 15' 29.414 S	136° 2' 25.085 E
1,374.68	89.00	13.70	890.92	632.57	165.56	7,538,234.92	607,191.30	22° 15' 29.192 S	136° 2' 25.144 E
1,384.31	88.40	13.30	891.14	641.94	167.80	7,538,244.27	607,193.61	22° 15' 28.888 S	136° 2' 25.222 E
1,393.50	88.90	13.50	891.36	650.87	169.93	7,538,253.19	607,195.80	22° 15' 28.597 S	136° 2' 25.297 E

Petrofrontier
Survey Report - Geographic

Company:	PetroFrontier	Local Co-ordinate Reference:	Site Baldwin
Project:	Georgina Basin	TVD Reference:	revised well RT @ 353.08m
Site:	Baldwin	MD Reference:	revised well RT @ 353.08m
Well:	Baldwin 2/2H	North Reference:	True
Wellbore:	Baldwin-2H	Survey Calculation Method:	Minimum Curvature
Design:	Baldwin-2H	Database:	edm1

Survey									
Measured Depth (m)	Inclination (°)	Azimuth (°)	Vertical Depth (m)	+N/-S (m)	+E/-W (m)	Map Northing (m)	Map Easting (m)	Latitude	Longitude
1,403.14	89.60	13.70	891.48	660.24	172.20	7,538,262.54	607,198.13	22° 15' 28.292 S	136° 2' 25.376 E
1,412.75	89.90	13.50	891.53	669.58	174.46	7,538,271.87	607,200.46	22° 15' 27.989 S	136° 2' 25.455 E
1,422.38	90.70	13.90	891.47	678.94	176.74	7,538,281.21	607,202.80	22° 15' 27.684 S	136° 2' 25.534 E
1,431.99	91.60	14.60	891.28	688.25	179.10	7,538,290.50	607,205.23	22° 15' 27.382 S	136° 2' 25.617 E
1,441.20	92.40	14.70	890.96	697.16	181.43	7,538,299.39	607,207.62	22° 15' 27.092 S	136° 2' 25.698 E
1,450.82	93.80	14.70	890.44	706.45	183.87	7,538,308.67	607,210.12	22° 15' 26.790 S	136° 2' 25.784 E
1,460.42	94.70	14.50	889.73	715.71	186.28	7,538,317.91	607,212.60	22° 15' 26.489 S	136° 2' 25.868 E
1,470.03	95.60	14.40	888.87	724.98	188.67	7,538,327.17	607,215.05	22° 15' 26.187 S	136° 2' 25.951 E
1,479.64	95.90	13.80	887.90	734.25	191.00	7,538,336.42	607,217.44	22° 15' 25.886 S	136° 2' 26.033 E
1,489.26	95.60	13.50	886.94	743.55	193.26	7,538,345.71	607,219.77	22° 15' 25.583 S	136° 2' 26.112 E
1,498.88	96.10	13.10	885.96	752.87	195.46	7,538,355.01	607,222.03	22° 15' 25.280 S	136° 2' 26.188 E
1,508.50	96.70	12.60	884.89	762.19	197.59	7,538,364.31	607,224.22	22° 15' 24.977 S	136° 2' 26.263 E
1,514.99	97.00	12.20	884.11	768.48	198.97	7,538,370.60	607,225.65	22° 15' 24.773 S	136° 2' 26.311 E
1,524.62	96.40	12.30	882.99	777.83	201.00	7,538,379.93	607,227.74	22° 15' 24.469 S	136° 2' 26.382 E
1,534.25	96.00	12.90	881.95	787.17	203.09	7,538,389.26	607,229.89	22° 15' 24.165 S	136° 2' 26.455 E
1,543.87	96.30	13.40	880.92	796.49	205.27	7,538,398.56	607,232.13	22° 15' 23.862 S	136° 2' 26.531 E
1,553.49	96.80	13.60	879.82	805.78	207.50	7,538,407.83	607,234.43	22° 15' 23.560 S	136° 2' 26.609 E
1,563.12	97.10	13.60	878.66	815.07	209.74	7,538,417.11	607,236.74	22° 15' 23.258 S	136° 2' 26.687 E
1,572.74	97.00	14.20	877.47	824.34	212.04	7,538,426.36	607,239.10	22° 15' 22.956 S	136° 2' 26.768 E
1,582.37	97.10	14.70	876.29	833.59	214.42	7,538,435.60	607,241.55	22° 15' 22.655 S	136° 2' 26.851 E
1,591.95	96.10	14.90	875.19	842.79	216.85	7,538,444.78	607,244.04	22° 15' 22.356 S	136° 2' 26.936 E
1,603.45	94.90	15.14	874.09	853.85	219.82	7,538,455.82	607,247.08	22° 15' 21.996 S	136° 2' 27.039 E
1,605.00	94.90	15.14	873.96	855.34	220.22	7,538,457.30	607,247.50	22° 15' 21.948 S	136° 2' 27.053 E
Projection to TD									

Casing Points					
Measured Depth (m)	Vertical Depth (m)	Name	Casing Diameter (in)	Hole Diameter (in)	
417.80	417.79	9 5/8"	9.625	12.250	
515.10	515.08	7"	7.000	7.500	

Design Annotations					
Measured Depth (m)	Vertical Depth (m)	Local Coordinates			
		+N/-S (m)	+E/-W (m)	Comment	
536.50	536.48	3.85	1.09	KOP	
1,605.00	873.96	855.34	220.22	Projection to TD	

Checked By: _____ Approved By: _____ Date: _____

PetroFrontier

Georgina Basin

Baldwin

Baldwin 2/2H

Baldwin-2H ST1

Design: Baldwin-2H ST1

Standard Survey Report

05 March, 2012

Petrofrontier

Survey Report

Company:	PetroFrontier	Local Co-ordinate Reference:	Site Baldwin
Project:	Georgina Basin	TVD Reference:	revised well RT @ 353.08m
Site:	Baldwin	MD Reference:	revised well RT @ 353.08m
Well:	Baldwin 2/2H	North Reference:	True
Wellbore:	Baldwin-2H ST1	Survey Calculation Method:	Minimum Curvature
Design:	Baldwin-2H ST1	Database:	edm1

Project	Georgina Basin		
Map System:	Universal Transverse Mercator	System Datum:	Ground Level
Geo Datum:	GDA94		
Map Zone:	Zone 53S (132 E to 138 E)		

Site		Baldwin, EP103 NT				
Site Position:		Northing:	7,537,603.50 m	Latitude:	22° 15' 49.763 S	
From:	Map	Easting:	607,021.40 m	Longitude:	136° 2' 19.360 E	
Position Uncertainty:		2.00 m	Slot Radius:	13.200 in	Grid Convergence:	-0.39 °

Well	Baldwin 2/2H					
Well Position	+N/-S	0.00 m	Northing:	7,537,603.50 m	Latitude:	22° 15' 49.763 S
	+E/-W	0.00 m	Easting:	607,021.40 m	Longitude:	136° 2' 19.360 E
Position Uncertainty		3.00 m	Wellhead Elevation:	348.38 m	Ground Level:	348.38 m

Wellbore	Baldwin-2H ST1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	9/11/2011	5.49	-53.58	52,063

Design	Baldwin-2H ST1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	1,087.25
Vertical Section:	Depth From (TVD) (m)	+N/-S (m)	+E/-W (m)	Direction (°)	
	0.00	0.00	0.00	13.30	

Survey Program	Date	3/5/2012			
From (m)	To (m)	Survey (Wellbore)	Tool Name	Description	
120.00	404.00	Film SS (Baldwin-2)	DIPMETER	Dipmeter or other wireline log	
415.00	530.15	GPIT (Baldwin-2)	MWD	MWD - Standard	
538.10	1,087.25	6 1/8" MWD (Baldwin-2H)	MWD	MWD - Standard	
1,096.87	1,952.50	6-1/8" MWD (Baldwin-2H ST1)	MWD	MWD - Standard	

Survey										
Measured Depth (m)	Inclination (°)	Azimuth (°)	Vertical Depth (m)	+N/-S (m)	+E/-W (m)	Vertical Section (m)	Dogleg Rate (°/30m)	Build Rate (°/30m)	Turn Rate (°/30m)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	
120.00	0.75	10.00	120.00	0.77	0.14	0.78	0.187	0.187	0.000	
183.00	0.50	10.00	182.99	1.45	0.26	1.47	0.119	-0.119	0.000	
240.00	0.10	135.00	239.99	1.66	0.33	1.69	0.296	-0.211	65.789	
309.00	0.50	10.00	308.99	1.91	0.43	1.96	0.245	0.174	-54.348	
366.00	0.50	35.00	365.99	2.36	0.61	2.44	0.114	0.000	13.158	
404.00	0.50	10.00	403.99	2.66	0.74	2.76	0.171	0.000	-19.737	
415.00	0.26	221.39	414.99	2.69	0.73	2.79	2.008	-0.649	-405.300	

Petrofrontier

Survey Report

Company:	PetroFrontier	Local Co-ordinate Reference:	Site Baldwin
Project:	Georgina Basin	TVD Reference:	revised well RT @ 353.08m
Site:	Baldwin	MD Reference:	revised well RT @ 353.08m
Well:	Baldwin 2/2H	North Reference:	True
Wellbore:	Baldwin-2H ST1	Survey Calculation Method:	Minimum Curvature
Design:	Baldwin-2H ST1	Database:	edm1

Survey									
Measured Depth (m)	Inclination (°)	Azimuth (°)	Vertical Depth (m)	+N-S (m)	+E-W (m)	Vertical Section (m)	Dogleg Rate (°/30m)	Build Rate (°/30m)	Turn Rate (°/30m)
416.00	0.19	230.58	415.99	2.69	0.73	2.78	2.358	-2.097	275.772
417.80	0.12	10.85	417.79	2.69	0.73	2.78	4.935	-1.173	2,337.769
9 5/8"									
420.00	0.48	29.26	419.99	2.70	0.73	2.79	4.935	4.822	251.005
430.00	0.63	23.29	429.99	2.78	0.77	2.89	0.506	0.476	-17.897
440.00	0.52	1.14	439.99	2.88	0.80	2.99	0.747	-0.348	-66.451
451.00	0.41	2.53	450.99	2.97	0.80	3.07	0.290	-0.289	3.803
460.00	0.54	30.87	459.99	3.04	0.82	3.15	0.880	0.426	94.442
471.00	0.64	28.78	470.99	3.14	0.88	3.25	0.287	0.281	-5.702
480.00	0.59	24.52	479.98	3.22	0.92	3.35	0.242	-0.189	-14.197
490.00	0.50	27.30	489.98	3.31	0.96	3.44	0.260	-0.247	8.355
500.00	0.60	28.08	499.98	3.39	1.01	3.53	0.281	0.280	2.337
510.00	0.65	18.63	509.98	3.49	1.05	3.64	0.347	0.160	-28.342
515.10	0.63	16.52	515.08	3.55	1.07	3.70	0.202	-0.147	-12.402
7"									
520.00	0.60	14.34	519.98	3.60	1.08	3.75	0.202	-0.142	-13.392
530.00	0.55	23.20	529.98	3.69	1.11	3.85	0.306	-0.149	26.580
538.10	2.80	344.20	538.08	3.92	1.07	4.06	8.873	8.323	-144.434
547.72	6.40	349.00	547.67	4.67	0.91	4.76	11.281	11.227	14.969
557.36	10.80	358.50	557.20	6.10	0.78	6.12	14.343	13.693	29.564
566.99	14.10	3.20	566.60	8.18	0.82	8.15	10.746	10.280	14.642
575.64	15.40	5.10	574.96	10.37	0.98	10.32	4.810	4.509	6.590
585.21	16.60	6.70	584.16	13.00	1.26	12.94	4.007	3.762	5.016
594.85	17.30	7.70	593.38	15.78	1.61	15.73	2.360	2.178	3.112
604.53	18.10	9.40	602.61	18.69	2.05	18.66	2.952	2.479	5.269
614.16	18.80	11.20	611.74	21.69	2.59	21.71	2.811	2.181	5.607
623.77	20.00	12.80	620.80	24.81	3.26	24.90	4.097	3.746	4.995
633.40	21.30	13.70	629.82	28.12	4.04	28.29	4.169	4.050	2.804
643.50	22.10	13.40	639.20	31.75	4.91	32.03	2.399	2.376	-0.891
652.66	22.40	12.80	647.68	35.13	5.70	35.50	1.232	0.983	-1.965
662.29	22.50	12.80	656.58	38.71	6.51	39.17	0.312	0.312	0.000
671.90	23.00	13.50	665.44	42.33	7.36	42.89	1.775	1.561	2.185
681.53	24.10	14.20	674.27	46.07	8.28	46.74	3.536	3.427	2.181
691.14	25.10	14.20	683.01	49.95	9.26	50.74	3.122	3.122	0.000
700.77	26.40	14.50	691.68	54.00	10.30	54.92	4.070	4.050	0.935
710.38	28.00	15.40	700.23	58.24	11.43	59.31	5.157	4.995	2.810
719.99	29.50	15.20	708.65	62.70	12.65	63.93	4.692	4.683	-0.624
729.61	30.80	15.30	716.97	67.36	13.92	68.76	4.057	4.054	0.312
739.24	32.30	14.90	725.18	72.23	15.24	73.80	4.718	4.673	-1.246
748.85	34.80	15.10	733.18	77.36	16.61	79.10	7.812	7.804	0.624
758.46	37.00	15.20	740.97	82.80	18.08	84.74	6.870	6.868	0.312
763.46	37.80	15.20	744.94	85.73	18.88	87.77	4.800	4.800	0.000
768.07	38.10	14.90	748.58	88.47	19.62	90.61	2.292	1.952	-1.952
773.07	38.90	14.80	752.49	91.47	20.41	93.72	4.815	4.800	-0.600

Petrofrontier

Survey Report

Company:	PetroFrontier	Local Co-ordinate Reference:	Site Baldwin
Project:	Georgina Basin	TVD Reference:	revised well RT @ 353.08m
Site:	Baldwin	MD Reference:	revised well RT @ 353.08m
Well:	Baldwin 2/2H	North Reference:	True
Wellbore:	Baldwin-2H ST1	Survey Calculation Method:	Minimum Curvature
Design:	Baldwin-2H ST1	Database:	edm1

Survey									
Measured Depth (m)	Inclination (°)	Azimuth (°)	Vertical Depth (m)	+N/-S (m)	+E/-W (m)	Vertical Section (m)	Dogleg Rate (°/30m)	Build Rate (°/30m)	Turn Rate (°/30m)
777.66	39.60	14.90	756.04	94.28	21.16	96.62	4.594	4.575	0.654
787.30	41.50	15.10	763.37	100.33	22.78	102.88	5.927	5.913	0.622
796.90	42.90	15.60	770.48	106.55	24.49	109.33	4.499	4.375	1.562
806.50	43.90	15.40	777.45	112.91	26.25	115.92	3.154	3.125	-0.625
816.20	45.50	14.90	784.35	119.49	28.03	122.74	5.067	4.948	-1.546
825.77	46.80	15.00	790.98	126.16	29.81	129.64	4.081	4.075	0.313
835.40	48.20	14.90	797.48	133.02	31.64	136.73	4.367	4.361	-0.312
845.02	49.90	15.20	803.79	140.04	33.53	144.00	5.348	5.301	0.936
854.63	51.70	15.40	809.86	147.22	35.50	151.44	5.640	5.619	0.624
864.24	53.50	15.50	815.70	154.58	37.53	159.07	5.625	5.619	0.312
873.35	55.00	15.60	821.02	161.70	39.51	166.45	4.947	4.940	0.329
883.95	56.20	15.40	827.01	170.13	41.85	175.19	3.428	3.396	-0.566
893.07	57.30	15.20	832.01	177.49	43.86	182.82	3.660	3.618	-0.658
902.70	59.10	15.10	837.08	185.39	46.00	191.00	5.614	5.607	-0.312
912.32	60.90	15.40	841.89	193.42	48.19	199.32	5.671	5.613	0.936
921.93	62.70	15.70	846.44	201.58	50.46	207.78	5.679	5.619	0.937
931.56	64.10	15.20	850.75	209.88	52.76	216.39	4.578	4.361	-1.558
941.18	64.90	15.00	854.89	218.26	55.02	225.07	2.558	2.495	-0.624
950.66	65.80	14.60	858.84	226.59	57.22	233.68	3.072	2.848	-1.266
960.27	67.20	14.00	862.67	235.13	59.40	242.49	4.696	4.370	-1.873
972.00	69.50	14.30	867.00	245.70	62.06	253.39	5.925	5.882	0.767
981.63	71.40	14.50	870.22	254.49	64.32	262.46	5.948	5.919	0.623
991.26	73.40	14.70	873.14	263.38	66.63	271.64	6.259	6.231	0.623
1,000.88	75.70	15.00	875.70	272.34	69.01	280.91	7.229	7.173	0.936
1,010.51	78.10	15.70	877.88	281.38	71.49	290.28	7.772	7.477	2.181
1,020.14	80.10	16.00	879.70	290.48	74.07	299.73	6.298	6.231	0.935
1,029.77	81.90	16.40	881.21	299.61	76.73	309.23	5.741	5.607	1.246
1,039.39	83.70	16.20	882.41	308.77	79.41	318.76	5.647	5.613	-0.624
1,049.02	85.90	16.20	883.29	317.98	82.08	328.33	6.854	6.854	0.000
1,058.66	87.60	16.00	883.83	327.23	84.75	337.95	5.327	5.290	-0.622
1,068.23	89.20	15.80	884.10	336.43	87.37	347.50	5.055	5.016	-0.627
1,077.85	90.20	15.80	884.15	345.68	89.99	357.11	3.119	3.119	0.000
1,087.25	90.69	15.80	884.08	354.73	92.55	366.50	1.561	1.561	0.000
1,096.87	90.50	15.40	883.98	363.99	95.14	376.12	1.380	-0.590	-1.247
1,104.00	90.43	14.22	883.92	370.89	96.96	383.24	4.994	-0.311	-4.984
KOP									
1,106.50	90.40	13.80	883.90	373.31	97.56	385.74	4.994	-0.312	-4.984
1,116.11	90.60	12.90	883.82	382.66	99.78	395.35	2.878	0.624	-2.810
1,125.73	91.60	12.80	883.63	392.04	101.92	404.97	3.134	3.119	-0.312
1,135.34	92.70	12.70	883.27	401.41	104.04	414.57	3.448	3.434	-0.312
1,144.96	92.90	12.60	882.80	410.78	106.14	424.18	0.697	0.624	-0.312
1,154.58	91.40	12.30	882.44	420.17	108.22	433.79	4.770	-4.678	-0.936
1,164.20	90.00	12.60	882.33	429.56	110.29	443.41	4.465	-4.366	0.936

Petrofrontier

Survey Report

Company:	PetroFrontier	Local Co-ordinate Reference:	Site Baldwin
Project:	Georgina Basin	TVD Reference:	revised well RT @ 353.08m
Site:	Baldwin	MD Reference:	revised well RT @ 353.08m
Well:	Baldwin 2/2H	North Reference:	True
Wellbore:	Baldwin-2H ST1	Survey Calculation Method:	Minimum Curvature
Design:	Baldwin-2H ST1	Database:	edm1

Survey										
Measured Depth (m)	Inclination (°)	Azimuth (°)	Vertical Depth (m)	+N/-S (m)	+E/-W (m)	Vertical Section (m)	Dogleg Rate (°/30m)	Build Rate (°/30m)	Turn Rate (°/30m)	
1,173.82	90.00	13.80	882.33	438.93	112.49	453.03	3.742	0.000	3.742	
1,183.45	90.40	14.40	882.29	448.27	114.83	462.66	2.246	1.246	1.869	
1,193.07	91.30	14.30	882.15	457.58	117.22	472.28	2.824	2.807	-0.312	
1,202.69	92.10	14.40	881.86	466.90	119.60	481.89	2.514	2.495	0.312	
1,212.31	92.40	14.60	881.49	476.21	122.01	491.50	1.124	0.936	0.624	
1,221.84	92.40	14.50	881.09	485.42	124.40	501.02	0.315	0.000	-0.315	
1,231.47	93.10	14.30	880.62	494.74	126.79	510.64	2.268	2.181	-0.623	
1,241.07	93.50	13.40	880.07	504.05	129.09	520.22	3.074	1.250	-2.812	
1,250.68	92.70	12.40	879.55	513.40	131.23	529.82	3.994	-2.497	-3.122	
1,260.31	92.20	11.40	879.14	522.81	133.21	539.44	3.480	-1.558	-3.115	
1,269.91	92.50	11.40	878.75	532.22	135.11	549.02	0.937	0.937	0.000	
1,279.53	92.90	11.30	878.29	541.64	137.00	558.63	1.286	1.247	-0.312	
1,289.13	91.90	11.20	877.89	551.04	138.87	568.21	3.141	-3.125	-0.312	
1,298.75	92.00	11.00	877.56	560.48	140.72	577.82	0.697	0.312	-0.624	
1,308.37	91.70	11.50	877.25	569.91	142.60	587.43	1.818	-0.936	1.559	
1,317.99	91.60	11.70	876.98	579.33	144.53	597.04	0.697	-0.312	0.624	
1,327.61	91.20	11.90	876.74	588.74	146.50	606.65	1.395	-1.247	0.624	
1,337.23	91.30	12.00	876.53	598.15	148.49	616.27	0.441	0.312	0.312	
1,346.82	91.30	12.30	876.31	607.52	150.51	625.85	0.938	0.000	0.938	
1,356.43	91.40	12.30	876.09	616.91	152.55	635.46	0.312	0.312	0.000	
1,365.87	91.50	12.80	875.85	626.12	154.60	644.90	1.620	0.318	1.589	
1,375.50	92.20	13.00	875.54	635.50	156.75	654.52	2.268	2.181	0.623	
1,385.13	92.20	13.00	875.17	644.88	158.92	664.14	0.000	0.000	0.000	
1,394.32	91.90	12.70	874.84	653.83	160.96	673.33	1.385	-0.979	-0.979	
1,403.96	92.00	12.60	874.51	663.24	163.07	682.96	0.440	0.311	-0.311	
1,413.57	91.70	13.20	874.20	672.60	165.21	692.57	2.093	-0.937	1.873	
1,423.20	92.20	13.50	873.87	681.96	167.44	702.19	1.816	1.558	0.935	
1,432.81	92.80	13.60	873.45	691.30	169.69	711.79	1.899	1.873	0.312	
1,442.02	92.30	13.40	873.04	700.24	171.83	720.99	1.754	-1.629	-0.651	
1,451.64	93.00	13.40	872.60	709.59	174.06	730.60	2.183	2.183	0.000	
1,461.24	93.10	13.40	872.09	718.92	176.28	740.19	0.312	0.312	0.000	
1,467.91	92.60	12.90	871.76	725.40	177.80	746.85	3.178	-2.249	-2.249	
1,477.52	92.70	12.80	871.31	734.76	179.93	756.45	0.441	0.312	-0.312	
1,487.13	91.30	13.00	870.98	744.12	182.08	766.05	4.415	-4.370	0.624	
1,496.75	90.00	13.10	870.87	753.49	184.25	775.67	4.066	-4.054	0.312	
1,506.37	90.40	13.00	870.84	762.87	186.42	785.29	1.286	1.247	-0.312	
1,515.99	90.80	13.00	870.73	772.24	188.58	794.91	1.247	1.247	0.000	
1,525.62	91.50	13.00	870.54	781.62	190.75	804.54	2.181	2.181	0.000	
1,535.25	91.90	12.80	870.26	791.00	192.90	814.16	1.393	1.246	-0.623	
1,544.87	91.60	12.40	869.96	800.39	195.00	823.78	1.559	-0.936	-1.247	
1,554.49	91.90	12.30	869.67	809.78	197.05	833.39	0.986	0.936	-0.312	
1,564.12	92.00	12.40	869.34	819.18	199.11	843.02	0.440	0.312	0.312	
1,573.74	91.10	12.30	869.08	828.58	201.17	852.63	2.824	-2.807	-0.312	

Petrofrontier

Survey Report

Company:	PetroFrontier	Local Co-ordinate Reference:	Site Baldwin
Project:	Georgina Basin	TVD Reference:	revised well RT @ 353.08m
Site:	Baldwin	MD Reference:	revised well RT @ 353.08m
Well:	Baldwin 2/2H	North Reference:	True
Wellbore:	Baldwin-2H ST1	Survey Calculation Method:	Minimum Curvature
Design:	Baldwin-2H ST1	Database:	edm1

Survey										
Measured Depth (m)	Inclination (°)	Azimuth (°)	Vertical Depth (m)	+N/-S (m)	+E/-W (m)	Vertical Section (m)	Dogleg Rate (°/30m)	Build Rate (°/30m)	Turn Rate (°/30m)	
1,583.37	91.20	12.10	868.89	837.99	203.20	862.26	0.696	0.312	-0.623	
1,592.95	91.50	12.60	868.66	847.34	205.25	871.83	1.826	0.939	1.566	
1,602.58	91.80	13.00	868.38	856.73	207.38	881.46	1.557	0.935	1.246	
1,612.22	92.10	13.10	868.06	866.11	209.56	891.09	0.984	0.934	0.311	
1,621.85	92.70	13.00	867.65	875.49	211.73	900.71	1.895	1.869	-0.312	
1,631.49	93.50	12.90	867.13	884.87	213.89	910.34	2.509	2.490	-0.311	
1,641.10	93.50	12.70	866.54	894.22	216.02	919.93	0.623	0.000	-0.624	
1,650.73	93.70	12.40	865.94	903.60	218.10	929.54	1.122	0.623	-0.935	
1,660.34	93.20	12.30	865.36	912.97	220.16	939.13	1.592	-1.561	-0.312	
1,669.96	92.40	12.00	864.89	922.37	222.18	948.74	2.664	-2.495	-0.936	
1,679.59	91.60	11.60	864.56	931.79	224.15	958.36	2.786	-2.492	-1.246	
1,689.20	91.60	11.60	864.29	941.20	226.08	967.96	0.000	0.000	0.000	
1,698.83	91.40	12.00	864.04	950.62	228.05	977.59	1.393	-0.623	1.246	
1,708.44	90.30	12.10	863.89	960.02	230.05	987.19	3.448	-3.434	0.312	
1,718.06	89.20	11.80	863.93	969.43	232.04	996.81	3.556	-3.430	-0.936	
1,727.67	88.70	12.10	864.11	978.83	234.03	1,006.42	1.820	-1.561	0.937	
1,737.28	88.80	12.40	864.32	988.22	236.07	1,016.02	0.987	0.312	0.937	
1,746.89	89.10	12.20	864.50	997.61	238.12	1,025.63	1.126	0.937	-0.624	
1,756.50	89.00	12.90	864.66	1,006.99	240.21	1,035.24	2.207	-0.312	2.185	
1,766.13	89.30	13.00	864.80	1,016.37	242.36	1,044.86	0.985	0.935	0.312	
1,775.76	89.80	13.00	864.87	1,025.75	244.53	1,054.49	1.558	1.558	0.000	
1,785.35	90.70	13.10	864.83	1,035.09	246.70	1,064.08	2.833	2.815	0.313	
1,794.53	91.20	12.90	864.68	1,044.04	248.76	1,073.26	1.760	1.634	-0.654	
1,804.14	90.50	12.40	864.54	1,053.41	250.86	1,082.87	2.685	-2.185	-1.561	
1,814.02	90.80	12.30	864.43	1,063.06	252.98	1,092.75	0.960	0.911	-0.304	
1,823.64	90.90	12.20	864.28	1,072.46	255.02	1,102.37	0.441	0.312	-0.312	
1,833.26	90.90	12.10	864.13	1,081.87	257.04	1,111.98	0.312	0.000	-0.312	
1,842.89	90.90	12.20	863.98	1,091.28	259.07	1,121.61	0.311	0.000	0.312	
1,852.50	91.30	12.20	863.80	1,100.67	261.10	1,131.22	1.249	1.249	0.000	
1,862.12	91.30	12.40	863.58	1,110.07	263.15	1,140.83	0.624	0.000	0.624	
1,871.73	91.90	12.30	863.31	1,119.45	265.20	1,150.44	1.899	1.873	-0.312	
1,881.29	92.10	12.50	862.98	1,128.78	267.26	1,159.99	0.887	0.628	0.628	
1,890.45	91.70	12.50	862.67	1,137.72	269.24	1,169.14	1.310	-1.310	0.000	
1,900.08	91.70	12.80	862.39	1,147.11	271.34	1,178.77	0.934	0.000	0.935	
1,909.70	92.10	13.00	862.07	1,156.49	273.49	1,188.38	1.394	1.247	0.624	
1,919.31	91.60	13.10	861.76	1,165.84	275.66	1,197.99	1.592	-1.561	0.312	
1,928.94	90.40	13.30	861.59	1,175.22	277.86	1,207.62	3.790	-3.738	0.623	
1,938.57	89.20	13.00	861.62	1,184.59	280.05	1,217.25	3.853	-3.738	-0.935	
1,952.50	89.20	13.00	861.82	1,198.17	283.18	1,231.18	0.000	0.000	0.000	
Projection to TD										

Petrofrontier

Survey Report

Company:	PetroFrontier	Local Co-ordinate Reference:	Site Baldwin
Project:	Georgina Basin	TVD Reference:	revised well RT @ 353.08m
Site:	Baldwin	MD Reference:	revised well RT @ 353.08m
Well:	Baldwin 2/2H	North Reference:	True
Wellbore:	Baldwin-2H ST1	Survey Calculation Method:	Minimum Curvature
Design:	Baldwin-2H ST1	Database:	edm1

Casing Points					
Measured Depth (m)	Vertical Depth (m)	Name		Casing Diameter (in)	Hole Diameter (in)
417.80	417.79	9 5/8"		9.625	12.250
515.10	515.08	7"		7.000	7.500

Design Annotations					
Measured Depth (m)	Vertical Depth (m)	Local Coordinates		Comment	
		+N/-S (m)	+E/-W (m)		
1,104.00	883.92	370.89	96.96	KOP	
1,952.50	861.82	1,198.17	283.18	Projection to TD	

Checked By: _____ Approved By: _____ Date: _____