

APPENDIX 5B

DEVIATION SURVEY REPORTS: GEOGRAPHIC

PetroFrontier

Georgina Basin

Baldwin

Baldwin 2/2H

Baldwin-2

Design: Baldwin-2

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-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:		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-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	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	950.00	GPIT (Baldwin-2)	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
23.00	0.14	10.00	23.00	0.03	0.01	7,537,603.53	607,021.41	22° 15' 49.762 S	136° 2' 19.360 E
13 3/8"									
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-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)	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	
541.00	0.65	32.14	540.98	3.80	1.17	7,537,607.29	607,022.60	22° 15' 49.639 S	136° 2' 19.401 E	
550.00	0.74	27.45	549.98	3.89	1.22	7,537,607.38	607,022.65	22° 15' 49.636 S	136° 2' 19.403 E	
560.00	0.75	22.14	559.98	4.01	1.28	7,537,607.50	607,022.71	22° 15' 49.632 S	136° 2' 19.405 E	
571.00	0.69	25.57	570.98	4.13	1.33	7,537,607.62	607,022.76	22° 15' 49.628 S	136° 2' 19.407 E	
580.00	0.77	33.78	579.98	4.23	1.39	7,537,607.72	607,022.82	22° 15' 49.625 S	136° 2' 19.408 E	
590.00	0.93	38.18	589.98	4.35	1.48	7,537,607.84	607,022.91	22° 15' 49.621 S	136° 2' 19.412 E	
600.00	0.99	33.57	599.98	4.49	1.57	7,537,607.98	607,023.01	22° 15' 49.617 S	136° 2' 19.415 E	
610.00	0.97	33.72	609.97	4.63	1.67	7,537,608.12	607,023.10	22° 15' 49.612 S	136° 2' 19.418 E	
621.00	0.91	36.83	620.97	4.78	1.77	7,537,608.26	607,023.21	22° 15' 49.607 S	136° 2' 19.422 E	
631.00	0.92	36.25	630.97	4.91	1.87	7,537,608.39	607,023.30	22° 15' 49.603 S	136° 2' 19.425 E	
640.00	0.96	30.84	639.97	5.03	1.95	7,537,608.51	607,023.39	22° 15' 49.599 S	136° 2' 19.428 E	
650.00	0.90	24.63	649.97	5.17	2.02	7,537,608.66	607,023.46	22° 15' 49.594 S	136° 2' 19.431 E	
660.00	0.84	26.20	659.97	5.31	2.09	7,537,608.79	607,023.53	22° 15' 49.590 S	136° 2' 19.433 E	
671.00	0.85	30.38	670.97	5.45	2.17	7,537,608.93	607,023.61	22° 15' 49.585 S	136° 2' 19.436 E	
680.00	0.94	29.02	679.97	5.57	2.24	7,537,609.06	607,023.68	22° 15' 49.581 S	136° 2' 19.438 E	
690.00	1.00	23.05	689.96	5.72	2.31	7,537,609.21	607,023.75	22° 15' 49.576 S	136° 2' 19.441 E	
701.00	1.02	22.07	700.96	5.90	2.38	7,537,609.39	607,023.83	22° 15' 49.571 S	136° 2' 19.443 E	
710.00	1.04	23.09	709.96	6.05	2.45	7,537,609.53	607,023.89	22° 15' 49.566 S	136° 2' 19.445 E	
720.00	1.03	25.73	719.96	6.22	2.52	7,537,609.70	607,023.97	22° 15' 49.560 S	136° 2' 19.448 E	
730.00	0.97	28.43	729.96	6.37	2.60	7,537,609.85	607,024.05	22° 15' 49.555 S	136° 2' 19.451 E	
741.00	0.98	27.99	740.96	6.54	2.69	7,537,610.02	607,024.14	22° 15' 49.550 S	136° 2' 19.454 E	
750.00	0.99	26.63	749.96	6.68	2.76	7,537,610.16	607,024.21	22° 15' 49.546 S	136° 2' 19.456 E	
761.00	0.94	24.62	760.95	6.84	2.84	7,537,610.32	607,024.29	22° 15' 49.540 S	136° 2' 19.459 E	
770.00	0.94	22.18	769.95	6.98	2.90	7,537,610.46	607,024.35	22° 15' 49.536 S	136° 2' 19.461 E	
781.00	0.90	22.01	780.95	7.14	2.96	7,537,610.62	607,024.42	22° 15' 49.530 S	136° 2' 19.464 E	
790.00	0.88	20.72	789.95	7.27	3.01	7,537,610.75	607,024.47	22° 15' 49.526 S	136° 2' 19.465 E	
800.00	0.90	21.13	799.95	7.42	3.07	7,537,610.89	607,024.52	22° 15' 49.521 S	136° 2' 19.467 E	
810.00	0.91	16.30	809.95	7.57	3.12	7,537,611.04	607,024.58	22° 15' 49.517 S	136° 2' 19.469 E	
821.00	0.85	16.35	820.95	7.73	3.17	7,537,611.21	607,024.63	22° 15' 49.511 S	136° 2' 19.471 E	
830.00	0.91	17.02	829.95	7.86	3.21	7,537,611.34	607,024.67	22° 15' 49.507 S	136° 2' 19.472 E	
841.00	0.96	16.46	840.94	8.03	3.26	7,537,611.51	607,024.72	22° 15' 49.501 S	136° 2' 19.474 E	
850.00	0.92	11.76	849.94	8.18	3.30	7,537,611.65	607,024.76	22° 15' 49.497 S	136° 2' 19.475 E	
860.00	0.76	6.54	859.94	8.32	3.32	7,537,611.80	607,024.78	22° 15' 49.492 S	136° 2' 19.476 E	
870.00	0.64	1.38	869.94	8.44	3.33	7,537,611.92	607,024.79	22° 15' 49.488 S	136° 2' 19.476 E	
881.00	0.27	320.53	880.94	8.52	3.31	7,537,612.00	607,024.78	22° 15' 49.485 S	136° 2' 19.476 E	
890.00	0.50	227.71	889.94	8.51	3.27	7,537,611.99	607,024.73	22° 15' 49.486 S	136° 2' 19.474 E	
900.00	0.93	234.74	899.94	8.44	3.17	7,537,611.91	607,024.63	22° 15' 49.488 S	136° 2' 19.471 E	
911.00	1.07	229.51	910.94	8.32	3.02	7,537,611.80	607,024.48	22° 15' 49.492 S	136° 2' 19.466 E	
920.00	1.42	220.67	919.94	8.18	2.88	7,537,611.66	607,024.34	22° 15' 49.497 S	136° 2' 19.461 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-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)	Map Northing (m)	Map Easting (m)	Latitude	Longitude	
931.00	1.52	215.38	930.93	7.96	2.71	7,537,611.44	607,024.17	22° 15' 49.504 S	136° 2' 19.455 E	
941.00	1.73	205.49	940.93	7.71	2.57	7,537,611.20	607,024.03	22° 15' 49.512 S	136° 2' 19.450 E	
950.00	1.73	194.73	949.92	7.46	2.48	7,537,610.94	607,023.93	22° 15' 49.520 S	136° 2' 19.447 E	

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	

Design Annotations					
Measured Depth (m)	Vertical Depth (m)	Local Coordinates			
		+N/-S (m)	+E/-W (m)	Comment	
315.01	315.00	1.97	0.44	TOC (tail) 9 5/8 and 5½" @ 315mMD	
485.00	484.98	3.27	0.94	TOC (tail) 7" @ 485m	

Checked By: _____ Approved By: _____ Date: _____

PetroFrontier

Georgina Basin

Baldwin

Baldwin 2/2H

Baldwin-2H

Design: Baldwin-2H

Survey Report - Geographic

05 March, 2012

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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	

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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		Comment	
		+N/-S (m)	+E/-W (m)		
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

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 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
From:	Map	Easting:	607,021.40 m
Position Uncertainty:	2.00 m	Slot Radius:	13.200 in
		Latitude:	22° 15' 49.763 S
		Longitude:	136° 2' 19.360 E
		Grid Convergence:	-0.39 °

Well	Baldwin 2/2H		
Well Position	+N/-S	0.00 m	Northing:
	+E/-W	0.00 m	Easting:
Position Uncertainty	3.00 m	Wellhead Elevation:	348.38 m
		Latitude:	22° 15' 49.763 S
		Longitude:	136° 2' 19.360 E
		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)	+N/-S	+E/-W	Direction
	(m)	(m)	(m)	(°)
	0.00	0.00	0.00	13.30

Survey Program	Date	3/5/2012		
From	To	Survey (Wellbore)	Tool Name	Description
(m)	(m)			
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	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Map	Map			
Depth	(°)	(°)	Depth	(m)	(m)	Northing	Easting	Latitude	Longitude	
(m)			(m)			(m)	(m)			
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 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)	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	
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	
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	

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 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)	Map Northing (m)	Map Easting (m)	Latitude	Longitude
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
1,087.25	90.69	15.80	884.08	354.73	92.55	7,537,957.58	607,116.39	22° 15' 38.227 S	136° 2' 22.593 E
1,096.87	90.50	15.40	883.98	363.99	95.14	7,537,966.83	607,119.04	22° 15' 37.926 S	136° 2' 22.684 E
1,104.00	90.43	14.22	883.92	370.89	96.96	7,537,973.71	607,120.91	22° 15' 37.702 S	136° 2' 22.747 E
KOP									
1,106.50	90.40	13.80	883.90	373.31	97.56	7,537,976.13	607,121.53	22° 15' 37.623 S	136° 2' 22.768 E
1,116.11	90.60	12.90	883.82	382.66	99.78	7,537,985.47	607,123.81	22° 15' 37.319 S	136° 2' 22.846 E
1,125.73	91.60	12.80	883.63	392.04	101.92	7,537,994.83	607,126.01	22° 15' 37.014 S	136° 2' 22.921 E
1,135.34	92.70	12.70	883.27	401.41	104.04	7,538,004.18	607,128.20	22° 15' 36.709 S	136° 2' 22.995 E
1,144.96	92.90	12.60	882.80	410.78	106.14	7,538,013.54	607,130.37	22° 15' 36.405 S	136° 2' 23.068 E
1,154.58	91.40	12.30	882.44	420.17	108.22	7,538,022.91	607,132.50	22° 15' 36.099 S	136° 2' 23.141 E
1,164.20	90.00	12.60	882.33	429.56	110.29	7,538,032.29	607,134.64	22° 15' 35.794 S	136° 2' 23.213 E
1,173.82	90.00	13.80	882.33	438.93	112.49	7,538,041.64	607,136.90	22° 15' 35.489 S	136° 2' 23.290 E
1,183.45	90.40	14.40	882.29	448.27	114.83	7,538,050.97	607,139.31	22° 15' 35.186 S	136° 2' 23.372 E
1,193.07	91.30	14.30	882.15	457.58	117.22	7,538,060.27	607,141.76	22° 15' 34.883 S	136° 2' 23.455 E
1,202.69	92.10	14.40	881.86	466.90	119.60	7,538,069.57	607,144.21	22° 15' 34.580 S	136° 2' 23.538 E
1,212.31	92.40	14.60	881.49	476.21	122.01	7,538,078.86	607,146.68	22° 15' 34.277 S	136° 2' 23.622 E
1,221.84	92.40	14.50	881.09	485.42	124.40	7,538,088.06	607,149.13	22° 15' 33.977 S	136° 2' 23.706 E
1,231.47	93.10	14.30	880.62	494.74	126.79	7,538,097.36	607,151.59	22° 15' 33.674 S	136° 2' 23.790 E
1,241.07	93.50	13.40	880.07	504.05	129.09	7,538,106.64	607,153.95	22° 15' 33.372 S	136° 2' 23.870 E
1,250.68	92.70	12.40	879.55	513.40	131.23	7,538,115.98	607,156.15	22° 15' 33.068 S	136° 2' 23.945 E
1,260.31	92.20	11.40	879.14	522.81	133.21	7,538,125.38	607,158.20	22° 15' 32.761 S	136° 2' 24.014 E
1,269.91	92.50	11.40	878.75	532.22	135.11	7,538,134.77	607,160.16	22° 15' 32.456 S	136° 2' 24.080 E
1,279.53	92.90	11.30	878.29	541.64	137.00	7,538,144.18	607,162.12	22° 15' 32.149 S	136° 2' 24.146 E
1,289.13	91.90	11.20	877.89	551.04	138.87	7,538,153.58	607,164.06	22° 15' 31.843 S	136° 2' 24.211 E
1,298.75	92.00	11.00	877.56	560.48	140.72	7,538,163.00	607,165.97	22° 15' 31.537 S	136° 2' 24.276 E
1,308.37	91.70	11.50	877.25	569.91	142.60	7,538,172.41	607,167.91	22° 15' 31.230 S	136° 2' 24.342 E
1,317.99	91.60	11.70	876.98	579.33	144.53	7,538,181.82	607,169.91	22° 15' 30.924 S	136° 2' 24.409 E
1,327.61	91.20	11.90	876.74	588.74	146.50	7,538,191.22	607,171.94	22° 15' 30.617 S	136° 2' 24.478 E
1,337.23	91.30	12.00	876.53	598.15	148.49	7,538,200.62	607,174.00	22° 15' 30.311 S	136° 2' 24.548 E
1,346.82	91.30	12.30	876.31	607.52	150.51	7,538,209.97	607,176.08	22° 15' 30.007 S	136° 2' 24.618 E
1,356.43	91.40	12.30	876.09	616.91	152.55	7,538,219.35	607,178.19	22° 15' 29.701 S	136° 2' 24.689 E
1,365.87	91.50	12.80	875.85	626.12	154.60	7,538,228.54	607,180.30	22° 15' 29.402 S	136° 2' 24.761 E
1,375.50	92.20	13.00	875.54	635.50	156.75	7,538,237.91	607,182.52	22° 15' 29.097 S	136° 2' 24.836 E
1,385.13	92.20	13.00	875.17	644.88	158.92	7,538,247.27	607,184.75	22° 15' 28.792 S	136° 2' 24.912 E
1,394.32	91.90	12.70	874.84	653.83	160.96	7,538,256.21	607,186.85	22° 15' 28.501 S	136° 2' 24.983 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 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)	Map Northing (m)	Map Easting (m)	Latitude	Longitude
1,403.96	92.00	12.60	874.51	663.24	163.07	7,538,265.60	607,189.02	22° 15' 28.195 S	136° 2' 25.057 E
1,413.57	91.70	13.20	874.20	672.60	165.21	7,538,274.95	607,191.23	22° 15' 27.891 S	136° 2' 25.132 E
1,423.20	92.20	13.50	873.87	681.96	167.44	7,538,284.29	607,193.52	22° 15' 27.586 S	136° 2' 25.209 E
1,432.81	92.80	13.60	873.45	691.30	169.69	7,538,293.61	607,195.83	22° 15' 27.283 S	136° 2' 25.288 E
1,442.02	92.30	13.40	873.04	700.24	171.83	7,538,302.54	607,198.04	22° 15' 26.992 S	136° 2' 25.363 E
1,451.64	93.00	13.40	872.60	709.59	174.06	7,538,311.88	607,200.33	22° 15' 26.688 S	136° 2' 25.441 E
1,461.24	93.10	13.40	872.09	718.92	176.28	7,538,321.19	607,202.62	22° 15' 26.384 S	136° 2' 25.518 E
1,467.91	92.60	12.90	871.76	725.40	177.80	7,538,327.66	607,204.18	22° 15' 26.173 S	136° 2' 25.571 E
1,477.52	92.70	12.80	871.31	734.76	179.93	7,538,337.01	607,206.38	22° 15' 25.869 S	136° 2' 25.646 E
1,487.13	91.30	13.00	870.98	744.12	182.08	7,538,346.35	607,208.59	22° 15' 25.565 S	136° 2' 25.721 E
1,496.75	90.00	13.10	870.87	753.49	184.25	7,538,355.71	607,210.82	22° 15' 25.260 S	136° 2' 25.797 E
1,506.37	90.40	13.00	870.84	762.87	186.42	7,538,365.07	607,213.06	22° 15' 24.955 S	136° 2' 25.873 E
1,515.99	90.80	13.00	870.73	772.24	188.58	7,538,374.42	607,215.29	22° 15' 24.650 S	136° 2' 25.948 E
1,525.62	91.50	13.00	870.54	781.62	190.75	7,538,383.79	607,217.52	22° 15' 24.345 S	136° 2' 26.024 E
1,535.25	91.90	12.80	870.26	791.00	192.90	7,538,393.16	607,219.73	22° 15' 24.040 S	136° 2' 26.099 E
1,544.87	91.60	12.40	869.96	800.39	195.00	7,538,402.53	607,221.89	22° 15' 23.735 S	136° 2' 26.172 E
1,554.49	91.90	12.30	869.67	809.78	197.05	7,538,411.91	607,224.01	22° 15' 23.430 S	136° 2' 26.244 E
1,564.12	92.00	12.40	869.34	819.18	199.11	7,538,421.29	607,226.14	22° 15' 23.124 S	136° 2' 26.316 E
1,573.74	91.10	12.30	869.08	828.58	201.17	7,538,430.67	607,228.26	22° 15' 22.818 S	136° 2' 26.388 E
1,583.37	91.20	12.10	868.89	837.99	203.20	7,538,440.07	607,230.36	22° 15' 22.512 S	136° 2' 26.459 E
1,592.95	91.50	12.60	868.66	847.34	205.25	7,538,449.41	607,232.47	22° 15' 22.208 S	136° 2' 26.530 E
1,602.58	91.80	13.00	868.38	856.73	207.38	7,538,458.78	607,234.67	22° 15' 21.903 S	136° 2' 26.605 E
1,612.22	92.10	13.10	868.06	866.11	209.56	7,538,468.15	607,236.91	22° 15' 21.598 S	136° 2' 26.681 E
1,621.85	92.70	13.00	867.65	875.49	211.73	7,538,477.51	607,239.14	22° 15' 21.293 S	136° 2' 26.757 E
1,631.49	93.50	12.90	867.13	884.87	213.89	7,538,486.88	607,241.37	22° 15' 20.988 S	136° 2' 26.832 E
1,641.10	93.50	12.70	866.54	894.22	216.02	7,538,496.22	607,243.56	22° 15' 20.684 S	136° 2' 26.906 E
1,650.73	93.70	12.40	865.94	903.60	218.10	7,538,505.58	607,245.71	22° 15' 20.379 S	136° 2' 26.979 E
1,660.34	93.20	12.30	865.36	912.97	220.16	7,538,514.94	607,247.82	22° 15' 20.074 S	136° 2' 27.051 E
1,669.96	92.40	12.00	864.89	922.37	222.18	7,538,524.32	607,249.91	22° 15' 19.768 S	136° 2' 27.122 E
1,679.59	91.60	11.60	864.56	931.79	224.15	7,538,533.72	607,251.94	22° 15' 19.462 S	136° 2' 27.190 E
1,689.20	91.60	11.60	864.29	941.20	226.08	7,538,543.12	607,253.94	22° 15' 19.156 S	136° 2' 27.258 E
1,698.83	91.40	12.00	864.04	950.62	228.05	7,538,552.53	607,255.97	22° 15' 18.850 S	136° 2' 27.327 E
1,708.44	90.30	12.10	863.89	960.02	230.05	7,538,561.91	607,258.04	22° 15' 18.544 S	136° 2' 27.397 E
1,718.06	89.20	11.80	863.93	969.43	232.04	7,538,571.31	607,260.10	22° 15' 18.238 S	136° 2' 27.466 E
1,727.67	88.70	12.10	864.11	978.83	234.03	7,538,580.70	607,262.15	22° 15' 17.932 S	136° 2' 27.536 E
1,737.28	88.80	12.40	864.32	988.22	236.07	7,538,590.07	607,264.26	22° 15' 17.627 S	136° 2' 27.607 E
1,746.89	89.10	12.20	864.50	997.61	238.12	7,538,599.45	607,266.37	22° 15' 17.322 S	136° 2' 27.679 E
1,756.50	89.00	12.90	864.66	1,006.99	240.21	7,538,608.81	607,268.52	22° 15' 17.017 S	136° 2' 27.751 E
1,766.13	89.30	13.00	864.80	1,016.37	242.36	7,538,618.18	607,270.74	22° 15' 16.712 S	136° 2' 27.827 E
1,775.76	89.80	13.00	864.87	1,025.75	244.53	7,538,627.55	607,272.97	22° 15' 16.406 S	136° 2' 27.903 E
1,785.35	90.70	13.10	864.83	1,035.09	246.70	7,538,636.87	607,275.20	22° 15' 16.103 S	136° 2' 27.978 E
1,794.53	91.20	12.90	864.68	1,044.04	248.76	7,538,645.80	607,277.33	22° 15' 15.812 S	136° 2' 28.050 E
1,804.14	90.50	12.40	864.54	1,053.41	250.86	7,538,655.16	607,279.50	22° 15' 15.507 S	136° 2' 28.124 E
1,814.02	90.80	12.30	864.43	1,063.06	252.98	7,538,664.80	607,281.68	22° 15' 15.193 S	136° 2' 28.198 E
1,823.64	90.90	12.20	864.28	1,072.46	255.02	7,538,674.19	607,283.78	22° 15' 14.887 S	136° 2' 28.269 E
1,833.26	90.90	12.10	864.13	1,081.87	257.04	7,538,683.57	607,285.87	22° 15' 14.582 S	136° 2' 28.340 E
1,842.89	90.90	12.20	863.98	1,091.28	259.07	7,538,692.97	607,287.96	22° 15' 14.275 S	136° 2' 28.410 E
1,852.50	91.30	12.20	863.80	1,100.67	261.10	7,538,702.35	607,290.06	22° 15' 13.970 S	136° 2' 28.481 E
1,862.12	91.30	12.40	863.58	1,110.07	263.15	7,538,711.73	607,292.17	22° 15' 13.665 S	136° 2' 28.553 E
1,871.73	91.90	12.30	863.31	1,119.45	265.20	7,538,721.10	607,294.29	22° 15' 13.359 S	136° 2' 28.625 E
1,881.29	92.10	12.50	862.98	1,128.78	267.26	7,538,730.42	607,296.41	22° 15' 13.056 S	136° 2' 28.696 E
1,890.45	91.70	12.50	862.67	1,137.72	269.24	7,538,739.34	607,298.45	22° 15' 12.765 S	136° 2' 28.766 E
1,900.08	91.70	12.80	862.39	1,147.11	271.34	7,538,748.72	607,300.62	22° 15' 12.460 S	136° 2' 28.839 E
1,909.70	92.10	13.00	862.07	1,156.49	273.49	7,538,758.08	607,302.83	22° 15' 12.155 S	136° 2' 28.914 E
1,919.31	91.60	13.10	861.76	1,165.84	275.66	7,538,767.42	607,305.06	22° 15' 11.851 S	136° 2' 28.990 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 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)	Map Northing (m)	Map Easting (m)	Latitude	Longitude
1,928.94	90.40	13.30	861.59	1,175.22	277.86	7,538,776.78	607,307.33	22° 15' 11.546 S	136° 2' 29.067 E
1,938.57	89.20	13.00	861.62	1,184.59	280.05	7,538,786.14	607,309.58	22° 15' 11.241 S	136° 2' 29.143 E
1,952.50	89.20	13.00	861.82	1,198.17	283.18	7,538,799.69	607,312.81	22° 15' 10.800 S	136° 2' 29.253 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	
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: _____