

5D Survey Report

Survey Tool Ranges			
Name	Start MD (US ft)	End MD (US ft)	Source Survey
MWD	9863.00	14966.00	Weatherford MWD Lateral Svy

Well path created using minimum curvature

Survey Points (Relative to Slot centre, TVD relative to Drill Floor)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	VS (US ft)	DLS (°/100 US ft)	Northing (US ft)	Easting (US ft)	Survey Tool	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	483844.60	820005.40	NSG Cont (Scientific Gyro Svy)	
100.00	0.09	219.87	100.00	-0.06	-0.05	-0.06	0.09	483844.54	820005.35	NSG Cont (Scientific Gyro Svy)	
200.00	0.15	231.72	200.00	-0.20	-0.20	-0.20	0.06	483844.40	820005.20	NSG Cont (Scientific Gyro Svy)	
300.00	0.24	239.90	300.00	-0.39	-0.49	-0.38	0.09	483844.21	820004.91	NSG Cont (Scientific Gyro Svy)	
400.00	0.59	279.51	400.00	-0.41	-1.18	-0.40	0.43	483844.19	820004.22	NSG Cont (Scientific Gyro Svy)	
500.00	0.62	282.50	499.99	-0.21	-2.21	-0.19	0.04	483844.39	820003.19	NSG Cont (Scientific Gyro Svy)	
600.00	0.55	280.71	599.99	0.00	-3.21	0.03	0.07	483844.60	820002.19	NSG Cont (Scientific Gyro Svy)	
700.00	0.41	326.89	699.98	0.39	-3.88	0.43	0.40	483844.99	820001.52	NSG Cont (Scientific Gyro Svy)	
800.00	0.76	35.92	799.98	1.23	-3.69	1.26	0.72	483845.83	820001.71	NSG Cont (Scientific Gyro Svy)	
900.00	1.08	40.48	899.97	2.48	-2.68	2.51	0.33	483847.08	820002.72	NSG Cont (Scientific Gyro Svy)	
1000.00	1.31	38.01	999.94	4.10	-1.37	4.11	0.24	483848.70	820004.03	NSG Cont (Scientific Gyro Svy)	
1100.00	1.58	55.02	1099.91	5.79	0.46	5.78	0.50	483850.39	820005.86	NSG Cont (Scientific Gyro Svy)	
1200.00	2.00	52.68	1199.86	7.64	2.98	7.61	0.43	483852.24	820008.38	NSG Cont (Scientific Gyro Svy)	
1300.00	3.15	45.19	1299.76	10.63	6.32	10.57	1.20	483855.23	820011.72	NSG Cont (Scientific Gyro Svy)	
1400.00	3.69	46.24	1399.58	14.79	10.59	14.69	0.54	483859.39	820015.99	NSG Cont (Scientific Gyro Svy)	
1500.00	3.79	46.73	1499.37	19.28	15.32	19.14	0.10	483863.88	820020.72	NSG Cont (Scientific Gyro Svy)	
1600.00	4.06	42.69	1599.13	24.15	20.13	23.96	0.39	483868.75	820025.53	NSG Cont (Scientific Gyro Svy)	
1613.00	4.06	45.01	1612.10	24.82	20.77	24.62	1.26	483869.42	820026.17	NSG Cont (Scientific Gyro Svy)	Tie on SDI Gyro Svy
1716.00	4.39	42.88	1714.82	30.28	26.03	30.04	0.35	483874.88	820031.43	MWD (Weatherfor d MWD Svy)	First Wft Svy
1748.00	4.01	43.61	1746.74	31.99	27.63	31.73	1.20	483876.59	820033.03	MWD (Weatherfor d MWD Svy)	
1844.00	2.80	42.84	1842.56	36.14	31.54	35.85	1.26	483880.74	820036.94	MWD (Weatherfor d MWD Svy)	
1940.00	1.69	43.35	1938.49	38.89	34.11	38.57	1.16	483883.49	820039.51	MWD (Weatherfor d MWD Svy)	
2036.00	0.71	69.44	2034.47	40.13	35.64	39.80	1.14	483884.73	820041.04		

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2132.00	0.70	126.27	2130.46	39.99	36.67	39.65	0.70	483884.59	820042.07	MWD (Weatherfor d MWD Svy)	
2228.00	0.66	131.62	2226.46	39.27	37.55	38.93	0.08	483883.87	820042.95	MWD (Weatherfor d MWD Svy)	
2323.00	0.82	131.06	2321.45	38.46	38.48	38.11	0.17	483883.06	820043.88	MWD (Weatherfor d MWD Svy)	
2418.00	0.60	149.87	2416.44	37.59	39.24	37.22	0.33	483882.19	820044.64	MWD (Weatherfor d MWD Svy)	
2514.00	0.78	146.31	2512.43	36.61	39.85	36.24	0.19	483881.21	820045.25	MWD (Weatherfor d MWD Svy)	
2610.00	0.79	143.86	2608.42	35.53	40.61	35.15	0.04	483880.13	820046.01	MWD (Weatherfor d MWD Svy)	
2705.00	0.77	118.85	2703.42	34.69	41.55	34.31	0.36	483879.29	820046.95	MWD (Weatherfor d MWD Svy)	
2801.00	0.69	120.63	2799.41	34.09	42.61	33.69	0.09	483878.69	820048.01	MWD (Weatherfor d MWD Svy)	
2895.00	0.55	162.02	2893.40	33.37	43.24	32.97	0.49	483877.97	820048.64	MWD (Weatherfor d MWD Svy)	
2991.00	0.79	213.51	2989.40	32.38	43.02	31.98	0.65	483876.98	820048.42	MWD (Weatherfor d MWD Svy)	
3087.00	0.41	220.94	3085.39	31.57	42.43	31.18	0.40	483876.17	820047.83	MWD (Weatherfor d MWD Svy)	
3182.00	0.31	113.13	3180.39	31.21	42.44	30.82	0.62	483875.81	820047.84	MWD (Weatherfor d MWD Svy)	
3278.00	0.82	75.59	3276.39	31.28	43.34	30.88	0.63	483875.88	820048.74	MWD (Weatherfor d MWD Svy)	
3374.00	0.07	209.07	3372.38	31.40	43.98	30.99	0.91	483876.00	820049.38	MWD (Weatherfor d MWD Svy)	
3470.00	0.35	239.51	3468.38	31.20	43.70	30.80	0.30	483875.80	820049.10	MWD (Weatherfor d MWD Svy)	
3566.00	0.35	159.76	3564.38	30.78	43.55	30.37	0.47	483875.38	820048.95	MWD (Weatherfor d MWD Svy)	
3661.00	0.66	179.39	3659.38	29.96	43.65	29.55	0.37	483874.56	820049.05	MWD (Weatherfor d MWD Svy)	
3757.00	0.74	173.13	3755.37	28.79	43.73	28.38	0.12	483873.39	820049.13	MWD (Weatherfor d MWD Svy)	
3853.00	0.76	171.81	3851.36	27.54	43.90	27.14	0.03	483872.14	820049.30	MWD (Weatherfor d MWD Svy)	
3949.00	0.88	169.10	3947.35	26.19	44.13	25.78	0.13	483870.79	820049.53	MWD (Weatherfor d MWD Svy)	
4045.00	0.84	170.93	4043.34	24.77	44.38	24.36	0.05	483869.37	820049.78	MWD (Weatherfor d MWD Svy)	
4141.00	0.82	160.11	4139.33	23.43	44.72	23.01	0.16	483868.03	820050.12	MWD (Weatherfor d MWD Svy)	
4237.00	0.80	159.97	4235.32	22.15	45.19	21.74	0.02	483866.75	820050.59	MWD (Weatherfor d MWD Svy)	
4333.00	0.77	163.29	4331.31	20.91	45.60	20.48	0.06	483865.51	820051.00	MWD (Weatherfor d MWD Svy)	
4429.00	0.35	174.93	4427.31	20.00	45.81	19.57	0.45	483864.60	820051.21		

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4525.00	0.28	151.43	4523.31	19.50	45.95	19.07	0.15	483864.10	820051.35	MWD (Weatherford d MWD Svy)	
4621.00	0.31	165.37	4619.30	19.04	46.13	18.61	0.08	483863.64	820051.53	MWD (Weatherford d MWD Svy)	
4717.00	1.12	267.46	4715.30	18.75	45.26	18.33	1.27	483863.35	820050.66	MWD (Weatherford d MWD Svy)	
4813.00	1.57	269.38	4811.27	18.69	43.01	18.29	0.47	483863.29	820048.41	MWD (Weatherford d MWD Svy)	
4909.00	0.51	254.61	4907.25	18.56	41.28	18.18	1.13	483863.16	820046.68	MWD (Weatherford d MWD Svy)	
5004.00	0.35	249.34	5002.25	18.35	40.60	17.97	0.17	483862.95	820046.00	MWD (Weatherford d MWD Svy)	
5100.00	0.30	223.44	5098.25	18.06	40.15	17.69	0.16	483862.66	820045.55	MWD (Weatherford d MWD Svy)	
5178.00	0.21	244.53	5176.25	17.85	39.88	17.49	0.16	483862.45	820045.28	MWD (Weatherford d MWD Svy)	
5242.00	0.21	229.44	5240.25	17.73	39.69	17.36	0.09	483862.33	820045.09	MWD	9 7/8 in Csg
5267.00	0.21	223.60	5265.25	17.67	39.62	17.30	0.09	483862.27	820045.02	MWD (Weatherford d MWD Svy)	
5299.00	0.22	226.62	5297.25	17.58	39.54	17.22	0.05	483862.18	820044.94	MWD (Weatherford d MWD Svy)	
5395.00	0.10	255.30	5393.25	17.43	39.32	17.07	0.15	483862.03	820044.72	MWD (Weatherford d MWD Svy)	
5490.00	0.00	0.00	5488.25	17.41	39.24	17.05	0.11	483862.01	820044.64	MWD (Weatherford d MWD Svy)	
5586.00	0.10	200.36	5584.25	17.33	39.21	16.97	0.10	483861.93	820044.61	MWD (Weatherford d MWD Svy)	
5682.00	0.30	223.78	5680.25	17.07	39.01	16.71	0.22	483861.67	820044.41	MWD (Weatherford d MWD Svy)	
5778.00	0.22	216.57	5776.25	16.74	38.73	16.39	0.09	483861.34	820044.13	MWD (Weatherford d MWD Svy)	
5874.00	0.35	227.78	5872.25	16.40	38.40	16.04	0.15	483861.00	820043.80	MWD (Weatherford d MWD Svy)	
5970.00	0.36	247.75	5968.24	16.09	37.90	15.74	0.13	483860.69	820043.30	MWD (Weatherford d MWD Svy)	
6065.00	0.41	246.74	6063.24	15.84	37.32	15.50	0.05	483860.44	820042.72	MWD (Weatherford d MWD Svy)	
6161.00	0.36	231.66	6159.24	15.52	36.76	15.18	0.12	483860.12	820042.16	MWD (Weatherford d MWD Svy)	
6256.00	0.42	246.26	6254.24	15.19	36.21	14.86	0.12	483859.79	820041.61	MWD (Weatherford d MWD Svy)	
6352.00	0.35	247.82	6350.23	14.94	35.62	14.61	0.07	483859.54	820041.02	MWD (Weatherford d MWD Svy)	
6447.00	0.36	263.03	6445.23	14.80	35.05	14.47	0.10	483859.40	820040.45	MWD (Weatherford d MWD Svy)	
6542.00	0.25	266.50	6540.23	14.75	34.55	14.43	0.12	483859.35	820039.95	MWD (Weatherford d MWD Svy)	
6634.00	0.40	252.68	6632.23	14.64	34.04	14.32	0.18	483859.24	820039.44	MWD (Weatherford d MWD Svy)	

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6730.00	0.42	268.83	6728.23	14.53	33.37	14.22	0.12	483859.13	820038.77	MWD (Weatherfor d MWD Svy)	
6826.00	0.51	252.28	6824.22	14.39	32.61	14.09	0.17	483858.99	820038.01	MWD (Weatherfor d MWD Svy)	
6922.00	0.53	258.79	6920.22	14.18	31.77	13.88	0.06	483858.78	820037.17	MWD (Weatherfor d MWD Svy)	
7017.00	0.66	258.19	7015.22	13.98	30.80	13.70	0.14	483858.58	820036.20	MWD (Weatherfor d MWD Svy)	
7112.00	0.69	251.54	7110.21	13.69	29.72	13.41	0.09	483858.29	820035.12	MWD (Weatherfor d MWD Svy)	
7207.00	0.60	243.51	7205.20	13.28	28.74	13.02	0.13	483857.88	820034.14	MWD (Weatherfor d MWD Svy)	
7302.00	0.76	231.80	7300.20	12.67	27.80	12.42	0.22	483857.27	820033.20	MWD (Weatherfor d MWD Svy)	
7397.00	1.00	237.77	7395.19	11.84	26.60	11.59	0.27	483856.44	820032.00	MWD (Weatherfor d MWD Svy)	
7492.00	0.85	259.98	7490.17	11.28	25.20	11.04	0.41	483855.88	820030.60	MWD (Weatherfor d MWD Svy)	
7587.00	0.75	284.57	7585.16	11.31	23.91	11.09	0.37	483855.91	820029.31	MWD (Weatherfor d MWD Svy)	
7682.00	0.41	300.24	7680.16	11.64	23.01	11.42	0.39	483856.24	820028.41	MWD (Weatherfor d MWD Svy)	
7777.00	0.56	289.55	7775.16	11.96	22.28	11.76	0.18	483856.56	820027.68	MWD (Weatherfor d MWD Svy)	
7872.00	0.70	279.70	7870.15	12.22	21.27	12.02	0.19	483856.82	820026.67	MWD (Weatherfor d MWD Svy)	
7967.00	0.40	281.00	7965.15	12.38	20.38	12.19	0.32	483856.98	820025.78	MWD (Weatherfor d MWD Svy)	
8062.00	0.56	280.34	8060.14	12.53	19.59	12.34	0.17	483857.13	820024.99	MWD (Weatherfor d MWD Svy)	
8157.00	0.35	291.57	8155.14	12.72	18.87	12.54	0.24	483857.32	820024.27	MWD (Weatherfor d MWD Svy)	
8251.00	0.35	305.72	8249.14	12.99	18.37	12.82	0.09	483857.59	820023.77	MWD (Weatherfor d MWD Svy)	
8346.00	0.20	270.35	8344.14	13.16	17.96	12.99	0.23	483857.76	820023.36	MWD (Weatherfor d MWD Svy)	
8441.00	0.36	251.15	8439.14	13.06	17.52	12.90	0.19	483857.66	820022.92	MWD (Weatherfor d MWD Svy)	
8536.00	0.70	249.37	8534.13	12.76	16.69	12.61	0.36	483857.36	820022.09	MWD (Weatherfor d MWD Svy)	
8631.00	0.14	24.16	8629.13	12.66	16.20	12.51	0.85	483857.26	820021.60	MWD (Weatherfor d MWD Svy)	
8726.00	0.10	325.95	8724.13	12.84	16.20	12.69	0.13	483857.44	820021.60	MWD (Weatherfor d MWD Svy)	
8821.00	0.63	201.52	8819.13	12.42	15.96	12.27	0.73	483857.02	820021.36	MWD (Weatherfor d MWD Svy)	
8915.00	1.11	213.22	8913.12	11.18	15.27	11.04	0.54	483855.78	820020.67	MWD (Weatherfor d MWD Svy)	
8947.00	1.31	218.80	8945.11	10.63	14.87	10.50	0.72	483855.23	820020.27	MWD (Weatherfor d MWD Svy)	
9010.00	1.75	211.44	9008.09	9.25	13.92	9.12	0.76	483853.85	820019.32		

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9105.00	1.22	218.00	9103.05	7.22	12.54	7.10	0.58	483851.82	820017.94	MWD (Weatherfor d MWD Svy)	
9199.00	0.14	304.52	9197.05	6.49	11.83	6.38	1.30	483851.09	820017.23	MWD (Weatherfor d MWD Svy)	
9294.00	0.77	14.48	9292.04	7.18	11.89	7.07	0.77	483851.78	820017.29	MWD (Weatherfor d MWD Svy)	
9389.00	0.66	338.14	9387.04	8.30	11.85	8.19	0.48	483852.90	820017.25	MWD (Weatherfor d MWD Svy)	
9484.00	0.63	98.73	9482.03	8.73	12.16	8.62	1.18	483853.33	820017.56	MWD (Weatherfor d MWD Svy)	
9579.00	0.82	97.50	9577.03	8.56	13.35	8.44	0.20	483853.16	820018.75	MWD (Weatherfor d MWD Svy)	
9674.00	0.64	88.19	9672.02	8.49	14.55	8.36	0.23	483853.09	820019.95	MWD (Weatherfor d MWD Svy)	
9769.00	0.70	83.82	9767.01	8.57	15.66	8.43	0.08	483853.17	820021.06	MWD (Weatherfor d MWD Svy)	
9863.00	0.29	107.45	9861.01	8.56	16.46	8.41	0.48	483853.16	820021.86	MWD (Weatherfor d MWD Svy)	2
9881.00	0.30	112.61	9879.01	8.53	16.55	8.38	0.16	483853.13	820021.95	MWD (Weatherfor d MWD Lateral Svy)	First Wft Svy
10022.00	6.52	343.49	10019.71	16.07	14.61	15.94	4.76	483860.67	820020.01	MWD (Weatherfor d MWD Lateral Svy)	
10054.00	10.59	352.14	10051.35	20.73	13.69	20.60	13.30	483865.33	820019.09	MWD (Weatherfor d MWD Lateral Svy)	
10085.00	14.33	1.47	10081.62	27.39	13.40	27.26	13.66	483871.99	820018.80	MWD (Weatherfor d MWD Lateral Svy)	
10117.00	18.64	4.53	10112.30	36.45	13.91	36.32	13.73	483881.05	820019.31	MWD (Weatherfor d MWD Lateral Svy)	
10149.00	23.06	4.09	10142.19	47.81	14.76	47.67	13.82	483892.41	820020.16	MWD (Weatherfor d MWD Lateral Svy)	
10180.00	27.48	4.56	10170.22	61.00	15.76	60.85	14.27	483905.60	820021.16	MWD (Weatherfor d MWD Lateral Svy)	
10212.00	31.15	5.11	10198.12	76.61	17.08	76.44	11.50	483921.21	820022.48	MWD (Weatherfor d MWD Lateral Svy)	
10244.00	34.80	5.61	10224.96	93.94	18.71	93.77	11.44	483938.54	820024.11	MWD (Weatherfor d MWD Lateral Svy)	
10275.00	37.64	4.27	10249.96	112.19	20.28	112.00	9.51	483956.79	820025.68	MWD (Weatherfor d MWD Lateral Svy)	
10307.00	39.85	3.72	10274.92	132.17	21.68	131.96	6.99	483976.77	820027.08	MWD (Weatherfor d MWD Lateral Svy)	
10339.00	42.25	3.48	10299.05	153.14	23.00	152.92	7.52	483997.74	820028.40	MWD (Weatherfor d MWD Lateral Svy)	

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10371.00	44.74	3.67	10322.26	175.12	24.37	174.89	7.79	484019.72	820029.77	MWD (Weatherford MWD Lateral Svy)	
10402.00	47.64	3.11	10343.72	197.45	25.69	197.20	9.45	484042.05	820031.09	MWD (Weatherford MWD Lateral Svy)	
10434.00	50.75	2.98	10364.63	221.63	26.98	221.38	9.72	484066.23	820032.38	MWD (Weatherford MWD Lateral Svy)	
10465.00	54.28	2.35	10383.49	246.20	28.12	245.93	11.50	484090.80	820033.52	MWD (Weatherford MWD Lateral Svy)	
10497.00	56.84	2.20	10401.59	272.57	29.16	272.29	8.01	484117.17	820034.56	MWD (Weatherford MWD Lateral Svy)	
10529.00	60.27	1.74	10418.28	299.85	30.10	299.56	10.79	484144.45	820035.50	MWD (Weatherford MWD Lateral Svy)	
10560.00	63.93	1.39	10432.78	327.23	30.85	326.93	11.85	484171.83	820036.25	MWD (Weatherford MWD Lateral Svy)	
10592.00	67.76	1.60	10445.88	356.42	31.61	356.11	11.98	484201.02	820037.01	MWD (Weatherford MWD Lateral Svy)	
10624.00	71.49	1.34	10457.02	386.40	32.38	386.08	11.68	484231.00	820037.78	MWD (Weatherford MWD Lateral Svy)	
10655.00	75.51	1.14	10465.82	416.11	33.02	415.79	12.98	484260.71	820038.42	MWD (Weatherford MWD Lateral Svy)	
10687.00	79.59	0.40	10472.72	447.35	33.44	447.02	12.95	484291.95	820038.84	MWD (Weatherford MWD Lateral Svy)	
10718.00	82.92	0.48	10477.43	477.98	33.67	477.65	10.74	484322.58	820039.07	MWD (Weatherford MWD Lateral Svy)	
10750.00	85.31	0.36	10480.71	509.81	33.91	509.47	7.48	484354.41	820039.31	MWD (Weatherford MWD Lateral Svy)	
10781.00	86.71	359.96	10482.87	540.73	33.99	540.40	4.70	484385.33	820039.39	MWD (Weatherford MWD Lateral Svy)	
10813.00	87.83	359.63	10484.39	572.70	33.88	572.36	3.65	484417.30	820039.28	MWD (Weatherford MWD Lateral Svy)	
10845.00	89.72	358.99	10485.07	604.69	33.49	604.35	6.24	484449.29	820038.89	MWD (Weatherford MWD Lateral Svy)	
10876.00	90.42	358.64	10485.04	635.68	32.85	635.35	2.52	484480.28	820038.25	MWD (Weatherford MWD Lateral Svy)	
10913.00	91.06	358.33	10484.56	672.66	31.87	672.34	1.92	484517.26	820037.27	MWD (Weatherford MWD Lateral Svy)	
10977.00	90.99	358.93	10483.41	736.63	30.34	736.32	0.94	484581.23	820035.74	MWD (Weatherford MWD Lateral Svy)	
11072.00	90.19	359.09	10482.44	831.61	28.70	831.31	0.86	484676.21	820034.10	MWD (Weatherford MWD Lateral Svy)	

5D Survey Report

Survey Points (Relative to Slot centre, TVD relative to Drill Floor)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	VS (US ft)	DLS (°/100 US ft)	Northing (US ft)	Easting (US ft)	Survey Tool	Comment
11167.00	89.94	359.40	10482.33	926.60	27.45	926.31	0.42	484771.20	820032.85	MWD (Weatherfor d MWD Lateral Svy)	
11262.00	90.06	358.70	10482.33	1021.59	25.88	1021.31	0.75	484866.19	820031.28	MWD (Weatherfor d MWD Lateral Svy)	
11357.00	90.43	358.01	10481.92	1116.55	23.15	1116.29	0.82	484961.15	820028.55	MWD (Weatherfor d MWD Lateral Svy)	
11451.00	90.06	357.85	10481.52	1210.49	19.75	1210.25	0.43	485055.09	820025.15	MWD (Weatherfor d MWD Lateral Svy)	
11546.00	89.88	358.11	10481.57	1305.43	16.40	1305.22	0.33	485150.03	820021.80	MWD (Weatherfor d MWD Lateral Svy)	
11641.00	90.18	358.79	10481.52	1400.39	13.84	1400.21	0.78	485244.99	820019.24	MWD (Weatherfor d MWD Lateral Svy)	
11736.00	89.94	359.81	10481.42	1495.38	12.67	1495.20	1.10	485339.98	820018.07	MWD (Weatherfor d MWD Lateral Svy)	
11831.00	90.12	0.10	10481.37	1590.38	12.60	1590.20	0.36	485434.98	820018.00	MWD (Weatherfor d MWD Lateral Svy)	
11926.00	90.31	0.11	10481.01	1685.38	12.77	1685.19	0.20	485529.98	820018.17	MWD (Weatherfor d MWD Lateral Svy)	
12021.00	90.62	358.75	10480.24	1780.37	11.83	1780.19	1.47	485624.97	820017.23	MWD (Weatherfor d MWD Lateral Svy)	
12116.00	90.19	358.49	10479.57	1875.34	9.54	1875.17	0.53	485719.94	820014.94	MWD (Weatherfor d MWD Lateral Svy)	
12209.00	90.43	359.35	10479.07	1968.32	7.79	1968.17	0.96	485812.92	820013.19	MWD (Weatherfor d MWD Lateral Svy)	
12303.00	90.43	359.59	10478.36	2062.32	6.92	2062.17	0.26	485906.92	820012.32	MWD (Weatherfor d MWD Lateral Svy)	
12398.00	90.43	358.95	10477.65	2157.31	5.71	2157.16	0.67	486001.91	820011.11	MWD (Weatherfor d MWD Lateral Svy)	
12491.00	90.25	358.37	10477.10	2250.28	3.53	2250.15	0.65	486094.88	820008.93	MWD (Weatherfor d MWD Lateral Svy)	
12584.00	89.94	358.29	10476.94	2343.24	0.82	2343.13	0.34	486187.84	820006.22	MWD (Weatherfor d MWD Lateral Svy)	
12679.00	90.49	358.06	10476.59	2438.19	-2.20	2438.11	0.63	486282.79	820003.20	MWD (Weatherfor d MWD Lateral Svy)	
12774.00	90.37	358.71	10475.87	2533.15	-4.88	2533.09	0.70	486377.75	820000.52	MWD (Weatherfor d MWD Lateral Svy)	
12867.00	90.49	358.80	10475.18	2626.12	-6.90	2626.08	0.16	486470.72	819998.50	MWD (Weatherfor d MWD Lateral Svy)	
12962.00	90.68	358.36	10474.21	2721.09	-9.25	2721.06	0.50	486565.69	819996.15	MWD (Weatherfor d MWD Lateral Svy)	

5D Survey Report

Survey Points (Relative to Slot centre, TVD relative to Drill Floor)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	VS (US ft)	DLS ("/100 US ft)	Northing (US ft)	Easting (US ft)	Survey Tool	Comment
13054.00	90.25	357.57	10473.46	2813.03	-12.52	2813.02	0.98	486657.63	819992.88	MWD (Weatherfor d MWD Lateral Svy)	
13149.00	90.43	357.43	10472.90	2907.94	-16.66	2907.97	0.24	486752.54	819988.74	MWD (Weatherfor d MWD Lateral Svy)	
13243.00	89.88	358.05	10472.64	3001.86	-20.37	3001.92	0.88	486846.46	819985.03	MWD (Weatherfor d MWD Lateral Svy)	
13336.00	90.37	358.69	10472.44	3094.82	-23.02	3094.90	0.87	486939.42	819982.38	MWD (Weatherfor d MWD Lateral Svy)	
13431.00	90.49	359.77	10471.73	3189.81	-24.29	3189.90	1.14	487034.41	819981.11	MWD (Weatherfor d MWD Lateral Svy)	
13525.00	90.43	0.04	10470.97	3283.81	-24.45	3283.89	0.29	487128.41	819980.95	MWD (Weatherfor d MWD Lateral Svy)	
13620.00	90.43	358.95	10470.26	3378.80	-25.29	3378.89	1.15	487223.40	819980.11	MWD (Weatherfor d MWD Lateral Svy)	
13715.00	90.12	359.19	10469.80	3473.79	-26.83	3473.89	0.41	487318.39	819978.57	MWD (Weatherfor d MWD Lateral Svy)	
13808.00	90.68	0.09	10469.15	3566.78	-27.41	3566.88	1.14	487411.38	819977.99	MWD (Weatherfor d MWD Lateral Svy)	
13903.00	90.49	0.52	10468.18	3661.77	-26.91	3661.87	0.49	487506.37	819978.49	MWD (Weatherfor d MWD Lateral Svy)	
13997.00	90.31	1.34	10467.53	3755.76	-25.38	3755.83	0.89	487600.36	819980.02	MWD (Weatherfor d MWD Lateral Svy)	
14092.00	90.56	1.33	10466.81	3850.73	-23.17	3850.78	0.26	487695.33	819982.23	MWD (Weatherfor d MWD Lateral Svy)	
14187.00	90.79	1.15	10465.69	3945.70	-21.11	3945.73	0.31	487790.30	819984.29	MWD (Weatherfor d MWD Lateral Svy)	
14281.00	90.43	0.78	10464.69	4039.68	-19.53	4039.69	0.55	487884.28	819985.87	MWD (Weatherfor d MWD Lateral Svy)	
14376.00	90.80	0.27	10463.67	4134.67	-18.66	4134.67	0.66	487979.27	819986.74	MWD (Weatherfor d MWD Lateral Svy)	
14470.00	90.37	359.85	10462.71	4228.67	-18.56	4228.66	0.64	488073.27	819986.84	MWD (Weatherfor d MWD Lateral Svy)	
14565.00	90.74	358.51	10461.79	4323.65	-19.92	4323.65	1.46	488168.25	819985.48	MWD (Weatherfor d MWD Lateral Svy)	
14659.00	90.26	359.03	10460.97	4417.62	-21.94	4417.64	0.75	488262.22	819983.46	MWD (Weatherfor d MWD Lateral Svy)	
14753.00	90.49	358.40	10460.35	4511.60	-24.05	4511.63	0.71	488356.20	819981.35	MWD (Weatherfor d MWD Lateral Svy)	
14848.00	90.43	358.83	10459.59	4606.57	-26.34	4606.61	0.46	488451.17	819979.06	MWD (Weatherfor d MWD Lateral Svy)	

5D Survey Report

Survey Points (Relative to Slot centre, TVD relative to Drill Floor)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	VS (US ft)	DLS (°/100 US ft)	Northing (US ft)	Easting (US ft)	Survey Tool	Comment
14943.00	90.43	358.93	10458.87	4701.55	-28.20	4701.61	0.11	488546.15	819977.20	MWD (Weatherfor d MWD Lateral Svy)	Last Wft Svy
14966.00	90.43	358.93	10458.70	4724.54	-28.63	4724.60	0.00	488569.14	819976.77	MWD (Weatherfor d MWD Lateral Svy)	Projection