

SURVEY REPORT MAR 06 2019



Weatherford®

Report Date: 9/21/2018
 Customer: XTO Energy
 Job Name: 13420928
 Well Name: Poker Lake Unit 23 DTD

Field: Wildcat
 Rig: Patterson 793
 Rig Loc: Eddy County, NM

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Survey Calculation Method: Minimum Curvature						
Magnetic Reference	Target Direction	Total Magnetic Field	Magnetic Dip Angle	Magnetic Declination	Grid Convergence	Total Correction
True North	0.01 deg	47767 nT	59.99 deg	6.94 deg	0.00 deg	6.94 deg
Survey Tie-On	Depth	INC	AZ	TVD	NS	EW
	0.00 ft	0.00 deg	0.00 deg	0.00 ft	0.00 ft	0.00 ft

Depth (ft)	Inc (deg)	Azm (deg)	TVD (ft)	Well Head		Vsect (ft)	Dogleg (deg/100ft)
				NS (ft)	EW (ft)		
208.00	1.40	39.00	207.98	1.97	1.60	1.98	0.67
298.00	1.70	51.00	297.95	3.67	3.33	3.67	0.49
393.00	0.80	52.00	392.92	4.96	4.95	4.97	0.95
581.00	1.40	82.00	580.89	6.09	8.25	6.09	0.43
785.00	1.80	71.40	784.81	7.46	13.76	7.46	0.24
878.00	1.70	72.80	877.77	8.33	16.46	8.34	0.12
972.00	1.50	47.20	971.73	9.58	18.70	9.59	0.78
1067.00	1.50	31.00	1066.70	11.49	20.25	11.50	0.44
1161.00	1.20	34.50	1160.67	13.36	21.44	13.36	0.33
1255.00	0.70	25.20	1254.66	14.69	22.24	14.69	0.55
1349.00	0.50	7.20	1348.65	15.62	22.54	15.62	0.29
1444.00	0.40	40.10	1443.65	16.28	22.80	16.29	0.29
1538.00	0.30	338.80	1537.65	16.76	22.93	16.77	0.39
1632.00	0.30	333.10	1631.65	17.21	22.73	17.21	0.03
1726.00	0.30	295.90	1725.65	17.54	22.39	17.54	0.20
1820.00	0.50	239.20	1819.64	17.44	21.82	17.44	0.45
1914.00	0.50	326.20	1913.64	17.57	21.24	17.57	0.73
2009.00	1.60	5.80	2008.63	19.23	21.14	19.23	1.32
2103.00	2.10	7.60	2102.58	22.24	21.50	22.25	0.54
2198.00	3.60	13.20	2197.46	26.87	22.41	26.88	1.60
2292.00	5.70	17.60	2291.14	34.20	24.50	34.20	2.26
2387.00	6.60	17.40	2385.59	43.90	27.56	43.91	0.95
2481.00	6.50	17.10	2478.98	54.14	30.74	54.15	0.11
2575.00	5.50	24.00	2572.47	63.34	34.14	63.35	1.31
2669.00	5.20	24.50	2666.06	71.34	37.73	71.34	0.32
2764.00	5.20	22.50	2760.67	79.23	41.17	79.24	0.19
2859.00	5.10	22.10	2855.28	87.12	44.40	87.13	0.11
2953.00	5.20	22.80	2948.90	94.92	47.63	94.93	0.13
3048.00	5.70	17.90	3043.47	103.38	50.74	103.38	0.72
3142.00	4.70	15.60	3137.09	111.53	53.21	111.54	1.09
3236.00	3.70	15.00	3230.83	118.17	55.03	118.18	1.06
3330.00	2.10	21.80	3324.71	122.70	56.46	122.71	1.74
3424.00	1.60	46.80	3418.66	125.19	58.06	125.20	1.00
3518.00	2.00	67.20	3512.62	126.73	60.52	126.74	0.80
3612.00	0.60	114.60	3606.59	127.16	62.48	127.17	1.76

Depth (ft)	Inc (deg)	Azm (deg)	TVD (ft)	Well Head		VSect (ft)	Dogleg (deg/100ft)
				NS (ft)	EW (ft)		
3706.00	1.00	152.90	3700.58	126.22	63.31	126.23	0.69
3800.00	1.60	171.80	3794.56	124.19	63.87	124.20	0.78
3894.00	1.60	142.30	3888.52	121.86	64.86	121.87	0.87
3988.00	1.30	129.00	3982.49	120.15	66.49	120.16	0.48
4083.00	1.30	151.90	4077.47	118.52	67.83	118.53	0.54
4177.00	0.80	163.30	4171.45	116.95	68.52	116.96	0.57
4271.00	0.70	162.10	4265.44	115.77	68.89	115.79	0.11
4366.00	0.30	180.10	4360.44	114.97	69.07	114.98	0.45
4460.00	0.30	161.20	4454.44	114.49	69.15	114.51	0.10
4555.00	0.40	188.00	4549.44	113.93	69.18	113.94	0.20
4649.00	0.40	189.90	4643.44	113.28	69.08	113.29	0.01
4744.00	0.30	182.80	4738.43	112.71	69.01	112.72	0.11
4839.00	0.50	184.90	4833.43	112.05	68.96	112.06	0.21
4933.00	0.40	191.10	4927.43	111.31	68.86	111.33	0.12
5027.00	0.30	179.70	5021.43	110.75	68.80	110.76	0.13
5121.00	0.20	186.20	5115.43	110.34	68.78	110.35	0.11
5215.00	0.10	207.40	5209.43	110.10	68.73	110.11	0.12
5310.00	0.10	149.70	5304.43	109.96	68.73	109.97	0.10
5404.00	0.10	209.50	5398.42	109.81	68.73	109.83	0.11
5498.00	0.10	248.00	5492.42	109.71	68.62	109.72	0.07
5592.00	0.00	0.00	5586.42	109.68	68.54	109.69	0.11
5687.00	0.10	272.00	5681.42	109.68	68.46	109.70	0.11
5781.00	0.00	0.00	5775.42	109.69	68.38	109.70	0.11
5876.00	0.10	187.40	5870.42	109.60	68.36	109.62	0.11
5970.00	0.30	179.70	5964.42	109.28	68.36	109.29	0.21
6065.00	0.30	191.90	6059.42	108.79	68.31	108.80	0.07
6159.00	0.40	173.00	6153.42	108.22	68.29	108.23	0.16
6253.00	0.40	175.40	6247.42	107.57	68.36	107.58	0.02
6347.00	0.50	162.50	6341.42	106.85	68.51	106.86	0.15
6442.00	0.50	164.80	6436.41	106.05	68.74	106.06	0.02
6536.00	0.40	184.90	6530.41	105.33	68.82	105.34	0.20
6630.00	0.40	222.00	6624.41	104.76	68.58	104.77	0.27
6725.00	0.40	244.40	6719.40	104.37	68.06	104.38	0.16
6819.00	0.30	257.00	6813.40	104.17	67.52	104.18	0.13
6913.00	0.30	243.20	6907.40	104.01	67.06	104.02	0.08
7007.00	0.30	228.80	7001.40	103.73	66.66	103.74	0.08
7102.00	0.30	235.60	7096.40	103.43	66.26	103.44	0.04
7197.00	0.30	208.20	7191.40	103.07	65.94	103.08	0.15
7291.00	0.30	212.60	7285.40	102.64	65.69	102.66	0.02
7385.00	0.40	214.70	7379.39	102.17	65.37	102.18	0.11
7479.00	0.40	214.90	7473.39	101.63	65.00	101.64	0.00
7574.00	0.70	219.90	7568.39	100.91	64.44	100.92	0.32
7668.00	0.60	204.20	7662.38	100.02	63.87	100.03	0.22
7762.00	0.60	194.60	7756.38	99.10	63.54	99.11	0.11
7857.00	0.70	197.60	7851.37	98.06	63.24	98.07	0.11
7951.00	0.60	205.30	7945.36	97.07	62.85	97.08	0.14
8045.00	0.50	208.80	8039.36	96.27	62.45	96.28	0.11
8153.00	0.10	251.80	8147.36	95.82	62.13	95.83	0.40
8247.00	0.50	161.30	8241.36	95.41	62.18	95.42	0.54
8341.00	1.50	333.50	8335.35	96.12	61.77	96.13	2.12

Depth (ft)	Inc (deg)	Azm (deg)	TVD (ft)	Well Head		Vsect (ft)	Dogleg (deg/100ft)
				NS (ft)	EW (ft)		
8435.00	1.50	309.70	8429.32	98.01	60.27	98.02	0.66
8529.00	0.20	344.50	8523.31	98.95	59.28	98.96	1.43
8623.00	0.70	289.10	8617.30	99.30	58.69	99.31	0.65
8717.00	0.40	358.80	8711.30	99.81	58.14	99.82	0.72
8811.00	0.50	300.80	8805.30	100.35	57.79	100.36	0.47
8905.00	0.90	252.00	8899.29	100.33	56.73	100.34	0.73
8999.00	0.30	72.70	8993.29	100.18	56.26	100.19	1.28
9092.00	0.40	70.40	9086.28	100.36	56.80	100.37	0.11
9187.00	0.30	14.00	9181.28	100.71	57.17	100.72	0.36
9281.00	0.30	53.10	9275.28	101.10	57.43	101.11	0.21
9373.00	0.40	103.60	9367.28	101.17	57.94	101.18	0.34
9467.00	0.40	150.00	9461.28	100.81	58.42	100.82	0.34
9552.00	0.30	140.10	9546.28	100.38	58.71	100.39	0.14
9647.00	0.90	187.60	9641.27	99.45	58.77	99.46	0.77
9741.00	1.60	187.30	9735.25	97.42	58.51	97.43	0.74
9835.00	1.10	179.40	9829.22	95.21	58.35	95.22	0.57
9930.00	0.50	227.00	9924.21	94.02	58.06	94.03	0.89
10024.00	0.70	206.60	10018.21	93.22	57.50	93.23	0.31
10118.00	0.80	233.50	10112.20	92.32	56.71	92.33	0.39
10213.00	1.10	238.90	10207.19	91.46	55.40	91.47	0.33
10307.00	1.20	208.40	10301.17	90.12	54.16	90.13	0.65
10401.00	0.90	184.00	10395.15	88.52	53.64	88.53	0.57
10476.00	0.80	196.40	10470.15	87.43	53.45	87.44	0.28
10502.00	0.70	194.50	10496.14	87.10	53.36	87.11	0.40
10565.00	0.70	29.80	10559.14	87.06	53.45	87.07	2.20
10597.00	4.00	20.30	10591.11	88.28	53.94	88.29	10.35
10644.00	9.70	5.20	10637.76	93.77	54.87	93.78	12.62
10691.00	14.20	351.10	10683.74	103.41	54.33	103.42	11.35
10738.00	17.50	344.60	10728.95	115.93	51.56	115.93	7.96
10785.00	20.10	352.50	10773.44	130.75	48.63	130.76	7.73
10832.00	22.60	356.70	10817.22	147.78	47.06	147.78	6.23
10879.00	27.20	1.70	10859.84	167.54	46.86	167.55	10.76
10926.00	33.30	2.30	10900.42	191.19	47.69	191.20	12.99
10974.00	37.80	3.40	10939.47	219.06	49.10	219.07	9.47
11021.00	41.70	4.70	10975.60	249.03	51.23	249.04	8.48
11068.00	45.10	4.90	11009.74	281.20	53.94	281.21	7.24
11115.00	51.20	3.30	11041.08	316.11	56.41	316.12	13.22
11162.00	56.00	1.80	11068.97	353.89	58.08	353.90	10.53
11209.00	60.70	1.20	11093.62	393.87	59.12	393.88	10.06
11256.00	64.00	0.60	11115.43	435.49	59.77	435.50	7.11
11303.00	67.90	2.20	11134.58	478.39	60.83	478.40	8.86
11351.00	72.20	2.80	11150.96	523.46	62.80	523.47	9.04
11398.00	74.80	3.40	11164.31	568.45	65.24	568.46	5.67
11445.00	77.50	2.70	11175.56	614.01	67.67	614.03	5.92
11492.00	78.70	359.90	11185.25	659.99	68.71	660.00	6.36
11540.00	81.00	358.90	11193.71	707.23	68.21	707.24	5.21
11587.00	85.10	358.90	11199.39	753.87	67.32	753.88	8.72
11633.00	88.60	359.00	11201.92	799.78	66.47	799.79	7.61
11726.00	89.90	359.80	11203.14	892.76	65.50	892.78	1.64
11821.00	89.30	357.20	11203.80	987.72	63.01	987.73	2.81

Depth (ft)	Inc (deg)	Azm (deg)	TVD (ft)	Well Head		Vsect (ft)	Dogleg (deg/100ft)
				NS (ft)	EW (ft)		
11915.00	90.30	355.40	11204.13	1081.52	56.95	1081.53	2.19
12009.00	89.70	353.20	11204.13	1175.05	47.61	1175.06	2.43
12104.00	90.10	356.30	11204.29	1269.64	38.92	1269.65	3.29
12198.00	91.00	1.00	11203.39	1363.58	36.71	1363.59	5.09
12292.00	92.40	1.50	11200.60	1457.51	38.76	1457.52	1.58
12387.00	91.60	2.40	11197.29	1552.40	41.99	1552.41	1.27
12481.00	92.60	2.70	11193.84	1646.24	46.17	1646.25	1.11
12574.00	90.90	2.70	11191.00	1739.09	50.55	1739.10	1.83
12668.00	88.90	2.90	11191.17	1832.98	55.14	1832.98	2.14
12762.00	87.70	2.60	11193.96	1926.82	59.64	1926.83	1.32
12889.00	88.79	1.16	11197.85	2053.69	63.81	2053.70	1.42
12983.00	90.95	2.83	11198.06	2147.62	67.08	2147.64	2.90
13077.00	88.57	2.21	11198.45	2241.53	71.21	2241.54	2.62
13171.00	89.10	1.25	11200.36	2335.46	74.05	2335.47	1.17
13265.00	89.93	0.46	11201.16	2429.45	75.45	2429.46	1.22
13359.00	90.73	359.23	11200.62	2523.44	75.20	2523.46	1.56
13453.00	91.78	358.87	11198.56	2617.41	73.64	2617.42	1.18
13550.00	91.08	358.08	11196.14	2714.34	71.06	2714.35	1.09
13644.00	90.90	358.08	11194.51	2808.27	67.91	2808.28	0.19
13738.00	89.19	1.77	11194.44	2902.25	67.79	2902.26	4.33
13832.00	90.37	1.42	11194.80	2996.21	70.40	2996.23	1.31
13926.00	91.82	1.33	11193.01	3090.17	72.66	3090.18	1.55
14021.00	90.15	1.77	11191.37	3185.11	75.23	3185.13	1.82
14115.00	88.84	1.86	11192.20	3279.06	78.21	3279.08	1.40
14209.00	89.36	1.42	11193.68	3373.01	80.90	3373.03	0.72
14304.00	90.37	0.90	11193.90	3467.99	82.82	3468.00	1.20
14398.00	89.14	359.84	11194.30	3561.98	83.43	3562.00	1.73
14492.00	88.57	358.43	11196.18	3655.95	82.01	3655.97	1.62
14586.00	89.89	359.14	11197.44	3749.92	80.01	3749.93	1.59
14680.00	90.59	357.03	11197.05	3843.86	76.87	3843.87	2.36
14774.00	89.49	358.87	11196.99	3937.79	73.51	3937.81	2.28
14868.00	90.95	1.25	11196.62	4031.78	73.61	4031.80	2.97
14962.00	88.75	1.77	11196.87	4125.75	76.09	4125.76	2.40
15056.00	87.16	0.19	11200.22	4219.67	77.69	4219.68	2.38
15150.00	87.74	0.10	11204.41	4313.57	77.93	4313.59	0.62
15244.00	88.79	359.67	11207.25	4407.53	77.74	4407.54	1.21
15338.00	89.49	359.05	11208.66	4501.51	76.69	4501.52	0.99
15432.00	87.47	358.96	11211.16	4595.46	75.06	4595.47	2.15
15526.00	88.13	358.17	11214.77	4689.36	72.71	4689.37	1.09
15620.00	89.14	358.17	11217.00	4783.28	69.71	4783.29	1.07
15715.00	90.68	357.82	11217.15	4878.22	66.38	4878.23	1.66
15808.00	91.43	0.90	11215.44	4971.19	65.35	4971.20	3.41
15903.00	89.14	1.25	11214.97	5066.16	67.13	5066.17	2.44
15996.00	89.71	1.51	11215.90	5159.13	69.37	5159.14	0.67
16091.00	90.90	1.60	11215.40	5254.09	71.95	5254.10	1.26
16186.00	92.18	0.10	11212.84	5349.04	73.35	5349.06	2.08
16280.00	90.64	359.23	11210.53	5443.01	72.80	5443.02	1.88
16375.00	87.69	358.35	11211.91	5537.97	70.80	5537.98	3.24
16469.00	88.13	358.08	11215.34	5631.86	67.87	5631.87	0.55
16563.00	89.14	358.61	11217.58	5725.79	65.16	5725.80	1.21

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				NS (ft)	EW (ft)		
16657.00	90.29	357.29	11218.05	5819.73	61.80	5819.74	1.86
16751.00	90.68	0.72	11217.25	5913.69	60.16	5913.70	3.67
16845.00	91.91	0.10	11215.13	6007.67	60.84	6007.68	1.47
16939.00	90.64	2.04	11213.04	6101.62	62.59	6101.63	2.47
17033.00	91.16	0.90	11211.56	6195.57	65.00	6195.59	1.33
17127.00	89.85	0.81	11210.73	6289.56	66.41	6289.57	1.40
17221.00	90.51	0.46	11210.44	6383.55	67.45	6383.56	0.79
17315.00	91.34	1.33	11208.92	6477.53	68.92	6477.54	1.28
17409.00	90.29	359.75	11207.58	6571.51	69.80	6571.52	2.02
17503.00	91.69	359.75	11205.96	6665.49	69.39	6665.50	1.49
17597.00	90.86	1.33	11203.87	6759.46	70.28	6759.47	1.90
17692.00	89.45	1.25	11203.61	6854.43	72.42	6854.45	1.49
17786.00	90.11	0.54	11203.97	6948.42	73.88	6948.43	1.03
17879.00	91.21	359.93	11202.90	7041.41	74.27	7041.42	1.35
17974.00	89.98	0.72	11201.91	7136.40	74.80	7136.41	1.54
18068.00	89.58	359.05	11202.27	7230.40	74.62	7230.41	1.83
18162.00	89.76	359.23	11202.82	7324.38	73.21	7324.40	0.27
18257.00	88.79	358.08	11204.02	7419.35	70.98	7419.36	1.58
18351.00	89.54	357.64	11205.39	7513.27	67.47	7513.28	0.93
18446.00	89.49	358.61	11206.19	7608.22	64.36	7608.23	1.02
18540.00	90.81	358.79	11205.95	7702.19	62.23	7702.20	1.42
18634.00	88.97	358.79	11206.13	7796.16	60.24	7796.17	1.96
18726.00	89.23	359.05	11207.57	7888.14	58.51	7888.15	0.40
18820.00	90.51	358.08	11207.78	7982.10	56.15	7982.11	1.71
18914.00	91.60	357.38	11206.05	8076.01	52.43	8076.02	1.38
19009.00	91.82	357.29	11203.22	8170.87	48.01	8170.88	0.25
19104.00	91.34	0.72	11200.60	8265.80	46.37	8265.81	3.64
19198.00	89.32	4.06	11200.06	8359.70	50.29	8359.71	4.15
19293.00	90.02	4.94	11200.60	8454.40	57.74	8454.41	1.18
19387.00	89.67	4.15	11200.86	8548.11	65.19	8548.12	0.92
19481.00	90.46	4.32	11200.75	8641.85	72.13	8641.86	0.86
19576.00	90.59	3.88	11199.88	8736.60	78.92	8736.62	0.48
19670.00	92.00	3.18	11197.76	8830.40	84.71	8830.41	1.67
19765.00	91.25	1.86	11195.06	8925.26	88.88	8925.28	1.60
19859.00	89.67	1.69	11194.31	9019.21	91.79	9019.23	1.69
19953.00	89.41	1.77	11195.06	9113.17	94.63	9113.18	0.29
20047.00	91.47	2.48	11194.34	9207.09	98.12	9207.11	2.32
20142.00	90.90	2.39	11192.38	9301.99	102.15	9302.01	0.61
20236.00	88.40	1.16	11192.95	9395.93	105.06	9395.95	2.96
20331.00	86.59	359.84	11197.10	9490.83	105.89	9490.85	2.36
20426.00	86.55	357.64	11202.79	9585.63	103.81	9585.65	2.31
20520.00	86.55	357.56	11208.44	9679.38	99.88	9679.40	0.08
20615.00	88.09	356.94	11212.89	9774.16	95.33	9774.18	1.75
20709.00	88.75	357.38	11215.48	9868.01	90.67	9868.03	0.84
20803.00	90.86	356.94	11215.80	9961.89	86.01	9961.90	2.29
20898.00	90.73	356.59	11214.48	10056.73	80.65	10056.74	0.39
20993.00	92.53	357.56	11211.78	10151.56	75.81	10151.58	2.15
21087.00	90.64	358.43	11209.18	10245.46	72.52	10245.48	2.21
21182.00	91.47	359.31	11207.43	10340.43	70.65	10340.44	1.27
21276.00	92.35	359.58	11204.29	10434.37	69.74	10434.38	0.98

Depth (ft)	Inc (deg)	Azm (deg)	TVD (ft)	Well Head		Vsect (ft)	Dogleg (deg/100ft)
				NS (ft)	EW (ft)		
21371.00	93.05	358.35	11199.82	10529.25	68.02	10529.26	1.49
21465.00	91.08	0.54	11196.43	10623.17	67.11	10623.18	3.13
21559.00	89.10	2.39	11196.28	10717.13	69.52	10717.14	2.88
21654.00	89.36	2.21	11197.56	10812.05	73.33	10812.06	0.33
21748.00	90.68	1.77	11197.53	10905.99	76.59	10906.00	1.48
21843.00	91.91	1.16	11195.38	11000.93	79.02	11000.94	1.45
21935.00	91.03	0.28	11193.02	11092.89	80.18	11092.90	1.35
22031.00	91.12	0.46	11191.22	11188.87	80.80	11188.88	0.21
22125.00	91.08	0.90	11189.42	11282.85	81.91	11282.86	0.47
22218.00	90.20	1.07	11188.38	11375.83	83.51	11375.84	0.96
22312.00	91.30	0.98	11187.15	11469.80	85.19	11469.82	1.17
22406.00	90.42	1.16	11185.74	11563.77	86.95	11563.79	0.96
22501.00	88.40	0.98	11186.71	11658.75	88.72	11658.76	2.13
22596.00	88.57	0.54	11189.23	11753.71	89.98	11753.72	0.50
22690.00	90.77	0.19	11189.77	11847.70	90.58	11847.71	2.37
22782.00	90.18	359.89	11189.00	11939.69	90.64	11939.71	0.72
22876.00	88.59	358.65	11190.01	12033.67	89.45	12033.69	2.14
22970.00	88.68	357.42	11192.25	12127.59	86.22	12127.61	1.31
23065.00	87.47	356.69	11195.44	12222.41	81.35	12222.42	1.49
23160.00	88.52	356.54	11198.77	12317.18	75.74	12317.20	1.12
23254.00	88.59	356.01	11201.14	12410.96	69.64	12410.97	0.57
23348.00	89.63	356.80	11202.60	12504.76	63.74	12504.77	1.39
23441.00	89.75	357.60	11203.10	12597.64	59.20	12597.65	0.87
23536.00	89.57	359.03	11203.66	12692.60	56.41	12692.61	1.52
23629.00	89.94	0.66	11204.06	12785.59	56.15	12785.60	1.80
23723.00	89.63	1.85	11204.41	12879.57	58.21	12879.58	1.31
23816.00	89.82	2.66	11204.86	12972.49	61.87	12972.51	0.89
23910.00	89.63	1.83	11205.31	13066.42	65.55	13066.43	0.91
24005.00	90.31	0.86	11205.36	13161.39	67.78	13161.40	1.25
24099.00	90.09	0.42	11205.03	13255.39	68.83	13255.40	0.52
24193.00	90.25	0.13	11204.76	13349.38	69.29	13349.40	0.35
24287.00	90.44	1.47	11204.19	13443.37	70.60	13443.38	1.44
24355.00	90.35	1.65	11203.72	13511.34	72.45	13511.36	0.30
Projected to Total Depth:							
24384.00	90.35	1.65	11203.54	13540.33	73.28	13540.34	0.00

Vertical Section is 13540.34 ft along the target direction of 0.01 deg at a measured depth of 24384.00 ft.
Horizontal Displacement is 13540.53 ft along the well bore azimuth of 0.31 deg.
The total correction is 6.94 deg relative to True North.