



Cimarex Energy Co.

Location Eddy County, NM
Field (Osmatlick DL) Sec 7, T16S, R29E
Facility, Drumstick 7 Fed Com No. 1H ST01

Well No. 1H SHL
Well No. 1H ST02
Wellbore No. 1H ST02 PWB

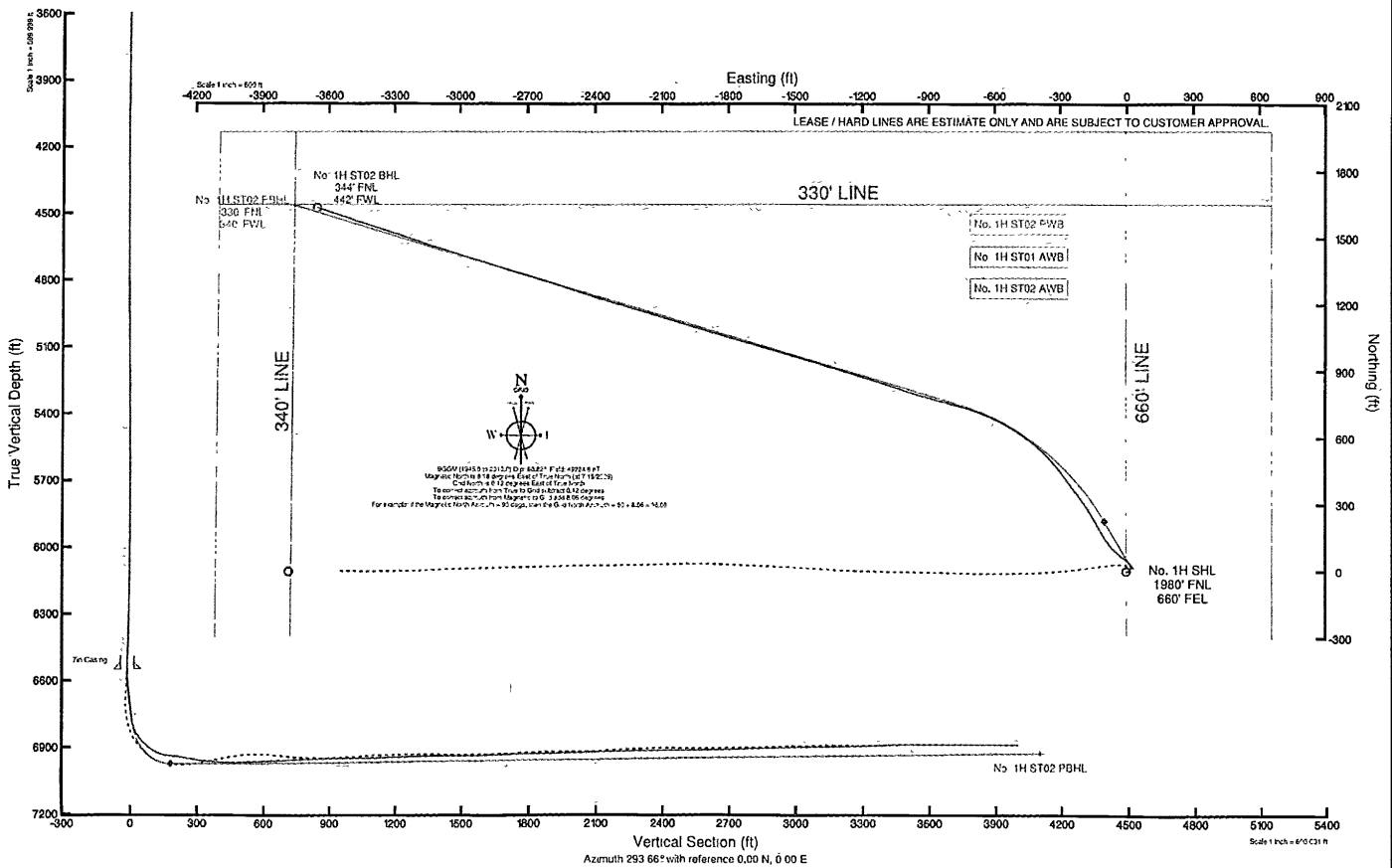
Reference: 1H ST02 PWB	Scale: 1 inch = 600 ft
1H ST02 PWB (1H ST02 PWB) (1H ST02 PWB)	Scale: 1 inch = 600 ft
1H ST02 PWB (1H ST02 PWB) (1H ST02 PWB)	Scale: 1 inch = 600 ft
1H ST02 PWB (1H ST02 PWB) (1H ST02 PWB)	Scale: 1 inch = 600 ft
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1H ST02 PWB (1H ST02 PWB) (1H ST02 PWB)	Scale: 1 inch = 600 ft

Well Profile Data

Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
TIE ON	6500.00	2.520	88.197	8499.68	16.51	23.27	0.00	-14.69
EST. KOP	6549.00	2.500	330.000	6548.66	17.47	23.82	8.79	-14.81
END OF BUILD	6659.00	8.000	330.000	6658.16	26.18	18.79	5.00	-6.70
END OF HOLD	6789.00	8.000	330.000	6788.89	41.85	9.74	0.00	7.87
END OF CURVE	7098.42	90.000	330.000	6973.00	227.26	-97.31	26.50	180.33
END OF TURN	7966.27	90.768	286.613	6966.89	752.44	-762.13	5.00	1000.04
No. 1H ST02 PWB	11090.49	90.768	286.613	6925.00	1645.59	-3755.67	0.00	4100.37



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REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No. 1H SHL
Area	Eddy County, NM	Well	No. 1H ST02
Field	(Drumstick DL) Sec 7, T16S, R29E	Wellbore	No. 1H ST02 AWB
Facility	Drumstick 7 Fed Com No. 1H ST01	Sidetrack from	No. 1H ST01 AWB at 6500.00 MD

REPORT SETUP INFORMATION

Projection System	NAD27 / TM New Mexico State Planes, Eastern Zone (3001), US feet	Software System	WellArchitect® 2.0
North Reference	Grid	User	Victor Hernandez
Scale	0.999915	Report Generated	7/30/2009 at 8:59:01 AM
Convergence at slot	0.12° East	Database/Source file	WA_Midland/No. 1H_ST02_AWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	0.00	0.00	569351.15	705002.81	32°56'16.523"N	104°06'26.227"W
Facility Reference Pt			569351.15	705002.81	32°56'16.523"N	104°06'26.227"W
Field Reference Pt			569351.15	705002.81	32°56'16.523"N	104°06'26.227"W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on No. 1H SHL (RT) to Facility Vertical Datum	17.50ft
Horizontal Reference Pt	Facility Center	Rig on No. 1H SHL (RT) to Mean Sea Level	3688.50ft
Vertical Reference Pt	Rig on No. 1H SHL (RT)	Facility Vertical Datum to Mud Line (Facility)	0.00ft
MD Reference Pt	Rig on No. 1H SHL (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	293.66°



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REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No. 1H SHL
Area	Eddy County, NM	Well	No. 1H ST02
Field	(Drumstick DL) Sec 7, T16S, R29E	Wellbore	No. 1H ST02 AWB
Facility	Drumstick 7 Fed Com No. 1H ST01	Sidetrack from	No. 1H ST01 AWB at 6500.00 MD

WELLPATH DATA (201 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]
0.00	0.000	110.257	0.00	0.00	0.00	0.00	0.00
100.00	0.660	110.257	100.00	-0.57	-0.20	0.54	0.66
200.00	0.640	99.597	199.99	-1.69	-0.49	1.63	0.12
300.00	0.610	103.527	299.99	-2.76	-0.71	2.70	0.05
400.00	0.510	107.617	399.98	-3.72	-0.97	3.64	0.11
500.00	0.460	92.597	499.98	-4.54	-1.12	4.47	0.14
600.00	0.450	79.037	599.97	-5.24	-1.07	5.25	0.11
700.00	0.420	83.857	699.97	-5.88	-0.95	6.00	0.05
800.00	0.560	90.487	799.97	-6.65	-0.92	6.86	0.15
900.00	0.530	79.977	899.96	-7.48	-0.84	7.80	0.10
1000.00	0.290	62.917	999.96	-8.03	-0.64	8.48	0.27
1100.00	0.290	42.997	1099.96	-8.27	-0.34	8.88	0.10
1200.00	0.200	63.027	1199.96	-8.46	-0.08	9.21	0.12
1300.00	0.380	67.367	1299.96	-8.80	0.13	9.67	0.18
1400.00	0.590	69.267	1399.95	-9.40	0.44	10.46	0.21
1500.00	0.710	56.247	1499.95	-10.10	0.96	11.45	0.19
1600.00	0.530	56.877	1599.94	-10.69	1.56	12.36	0.18
1700.00	0.700	70.347	1699.94	-11.39	2.02	13.32	0.22
1800.00	0.750	57.737	1799.93	-12.20	2.57	14.45	0.17
1900.00	0.480	67.847	1899.92	-12.86	3.08	15.39	0.29
2000.00	0.550	43.667	1999.92	-13.31	3.59	16.11	0.23
2100.00	0.700	341.987	2099.91	-13.07	4.51	16.25	0.65
2200.00	0.650	322.277	2199.91	-12.17	5.54	15.71	0.24
2300.00	0.420	298.617	2299.90	-11.31	6.17	15.05	0.31
2400.00	0.410	321.787	2399.90	-10.62	6.62	14.50	0.17
2500.00	0.300	288.687	2499.90	-10.05	6.99	14.03	0.23
2600.00	0.250	314.117	2599.90	-9.58	7.23	13.63	0.13
2700.00	0.260	246.017	2699.90	-9.23	7.28	13.26	0.29
2800.00	0.240	308.217	2799.89	-8.87	7.32	12.89	0.26
2900.00	0.040	73.067	2899.89	-8.69	7.46	12.76	0.26



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REFERENCE WELLPATH IDENTIFICATION

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Area	Eddy County, NM	Well	No. 1H ST02
Field	(Drumstick DL) Sec 7, T16S, R29E	Wellbore	No. 1H ST02 AWB
Facility	Drumstick 7 Fed Com No. 1H ST01	Sidetrack from	No. 1H ST01 AWB at 6500.00 MD

WELLPATH DATA (201 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]
3000.00	0.120	329.747	2999.89	-8.64	7.56	12.74	0.13
3100.00	0.310	31.437	3099.89	-8.59	7.88	12.83	0.27
3200.00	0.120	18.647	3199.89	-8.61	8.21	13.00	0.19
3300.00	0.380	344.987	3299.89	-8.40	8.63	12.95	0.29
3400.00	0.190	6.407	3399.89	-8.14	9.12	12.88	0.21
3500.00	0.820	74.107	3499.89	-8.64	9.48	13.59	0.77
3600.00	0.840	81.997	3599.88	-9.82	9.78	15.01	0.12
3700.00	0.840	66.637	3699.87	-10.94	10.17	16.40	0.22
3800.00	0.650	55.207	3799.86	-11.74	10.78	17.54	0.24
3900.00	0.540	75.077	3899.85	-12.41	11.23	18.46	0.23
4000.00	0.550	48.787	3999.85	-12.98	11.67	19.28	0.25
4100.00	0.160	22.557	4099.85	-13.18	12.11	19.70	0.41
4200.00	0.400	16.527	4199.84	-13.13	12.58	19.85	0.24
4300.00	0.090	341.927	4299.84	-13.04	12.99	19.92	0.33
4400.00	0.370	324.207	4399.84	-12.71	13.32	19.71	0.29
4500.00	0.100	313.497	4499.84	-12.35	13.64	19.46	0.27
4600.00	0.370	296.937	4599.84	-11.94	13.85	19.11	0.28
4700.00	0.130	258.957	4699.84	-11.53	13.97	18.71	0.28
4800.00	0.460	263.577	4799.84	-11.09	13.91	18.20	0.33
4900.00	0.440	293.177	4899.83	-10.35	14.01	17.45	0.23
5000.00	0.450	285.697	4999.83	-9.58	14.27	16.71	0.06
5100.00	0.480	276.497	5099.83	-8.79	14.43	15.92	0.08
5200.00	0.500	273.517	5199.82	-7.98	14.50	15.07	0.03
5300.00	0.290	275.377	5299.82	-7.33	14.55	14.38	0.21
5400.00	0.370	254.897	5399.82	-6.84	14.49	13.82	0.14
5500.00	0.350	259.527	5499.82	-6.34	14.35	13.21	0.04
5600.00	0.210	267.277	5599.82	-5.92	14.29	12.72	0.14
5700.00	0.140	332.737	5699.82	-5.66	14.39	12.48	0.20
5800.00	0.050	310.397	5799.82	-5.52	14.52	12.39	0.10
5900.00	0.510	54.947	5899.82	-5.71	14.81	12.72	0.52



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REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No. 1H SHL
Area	Eddy County, NM	Well	No. 1H ST02
Field	(Drumstick DL) Sec 7, T16S, R29E	Wellbore	No. 1H ST02 AWB
Facility	Drumstick 7 Fed Com No. 1H ST01	Sidetrack from	No. 1H ST01 AWB at 6500.00 MD

WELLPATH DATA (201 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]
6000.00	0.530	55.187	5999.81	-6.19	15.33	13.47	0.02
6100.00	0.690	66.207	6099.81	-6.83	15.83	14.40	0.20
6200.00	0.700	89.277	6199.80	-7.80	16.08	15.56	0.28
6300.00	0.950	82.667	6299.79	-9.07	16.20	16.99	0.27
6400.00	1.870	87.657	6399.76	-11.24	16.37	19.45	0.93
6500.00	2.520	88.197	6499.68	-14.69	16.51	23.27	0.65
6564.00	2.800	37.200	6563.62	-16.33	17.79	25.63	3.60
6595.00	5.500	346.700	6594.55	-15.61	19.84	25.74	13.87
6627.00	7.300	329.800	6626.35	-13.05	23.09	24.37	8.09
6659.00	6.900	333.800	6658.10	-9.94	26.58	22.50	1.99
6690.00	8.300	332.200	6688.83	-6.76	30.23	20.63	4.57
6726.00	7.800	322.000	6724.48	-2.58	34.45	17.91	4.20
6758.00	7.600	321.400	6756.19	1.20	37.82	15.26	0.67
6790.00	13.900	320.000	6787.61	6.53	42.42	11.46	19.70
6821.00	23.600	310.400	6816.94	15.83	49.31	-4.32	32.73
6853.00	32.200	301.500	6845.20	30.44	57.94	-7.85	29.79
6885.00	41.200	308.200	6870.85	49.14	68.94	-23.44	30.75
6916.00	50.300	310.700	6892.46	70.47	83.06	-40.54	29.91
6948.00	59.300	316.600	6910.89	94.97	101.13	-59.38	31.89
6979.00	67.800	323.000	6924.70	119.82	122.33	-77.22	33.05
7010.00	76.800	326.800	6934.12	145.03	146.48	-94.16	31.29
7042.00	87.000	330.200	6938.62	170.99	173.45	-110.68	33.56
7074.00	84.900	329.800	6940.88	196.70	201.10	-126.64	6.68
7105.00	82.400	329.700	6944.31	221.59	227.71	-142.16	8.07
7137.00	81.000	328.900	6948.93	247.33	254.94	-158.32	5.03
7168.00	81.500	327.700	6953.65	272.54	281.00	-174.42	4.15
7200.00	82.900	326.000	6957.99	299.07	307.55	-191.76	6.84
7232.00	85.100	324.200	6961.33	326.22	333.64	-209.97	8.86
7263.00	86.100	323.500	6963.71	352.93	358.60	-228.20	3.93
7295.00	86.000	323.600	6965.92	380.61	384.28	-247.17	0.44



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REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No. 1H SHL
Area	Eddy County, NM	Well	No. 1H ST02
Field	(Drumstick DL) Sec 7, T16S, R29E	Wellbore	No. 1H ST02 AWB
Facility	Drumstick 7 Fed Com No. 1H ST01	Sidetrack from	No. 1H ST01 AWB at 6500.00 MD

WELLPATH DATA (201 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]
7327.00	87.000	323.500	6967.87	408.30	409.97	-266.14	3.14
7358.00	89.000	322.200	6968.95	435.35	434.66	-284.85	7.69
7390.00	90.400	319.900	6969.12	463.76	459.55	-304.97	8.41
7422.00	91.600	318.700	6968.56	492.60	483.80	-325.83	5.30
7454.00	92.700	317.100	6967.36	521.76	507.53	-347.27	6.06
7485.00	91.600	314.300	6966.20	550.47	529.70	-368.90	9.70
7517.00	91.300	311.600	6965.39	580.66	551.49	-392.31	8.49
7549.00	91.800	308.800	6964.52	611.32	572.14	-416.74	8.89
7580.00	92.700	306.100	6963.31	641.40	590.97	-441.33	9.17
7612.00	93.500	304.100	6961.57	672.72	609.34	-467.47	6.72
7644.00	93.400	302.400	6959.65	704.21	626.85	-494.18	5.31
7676.00	92.400	300.700	6958.03	735.87	643.58	-521.42	6.16
7708.00	91.500	298.600	6956.94	767.67	659.40	-549.21	7.14
7739.00	92.000	296.800	6955.99	798.58	673.80	-576.64	6.02
7771.00	92.800	294.200	6954.65	830.53	687.56	-605.50	8.49
7803.00	92.700	292.400	6953.12	862.49	700.20	-634.85	5.63
7835.00	91.900	290.900	6951.83	894.45	712.00	-664.57	5.31
7867.00	91.000	289.000	6951.02	926.37	722.91	-694.64	6.57
7898.00	90.700	286.700	6950.56	957.20	732.41	-724.14	7.48
7930.00	90.700	285.600	6950.17	988.93	741.31	-754.88	3.44
7961.00	90.600	285.500	6949.82	1019.61	749.62	-784.74	0.46
7993.00	90.800	285.300	6949.43	1051.28	758.12	-815.59	0.88
8025.00	90.800	285.100	6948.98	1082.93	766.51	-846.47	0.62
8056.00	91.600	285.300	6948.33	1113.58	774.64	-876.37	2.66
8088.00	92.700	285.100	6947.13	1145.21	783.02	-907.23	3.49
8120.00	92.400	286.600	6945.71	1176.88	791.75	-937.98	4.78
8151.00	92.000	287.600	6944.52	1207.66	800.86	-967.59	3.47
8183.00	91.600	287.300	6943.52	1239.45	810.45	-998.10	1.56
8215.00	91.400	287.300	6942.68	1271.25	819.96	-1028.65	0.62
8247.00	91.000	287.400	6942.01	1303.05	829.50	-1059.18	1.29



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REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No. 1H SHL
Area	Eddy County, NM	Well	No. 1H ST02
Field	(Drumstick DL) Sec 7, T16S, R29E	Wellbore	No. 1H ST02 AWB
Facility	Drumstick 7 Fed Com No. 1H ST01	Sidetrack from	No. 1H ST01 AWB at 6500.00 MD

WELLPATH DATA (201 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]
8278.00	91.100	287.700	6941.44	1333.86	838.85	-1088.73	1.02
8310.00	91.100	287.300	6940.83	1365.67	848.47	-1119.25	1.25
8342.00	90.700	287.200	6940.32	1397.47	857.96	-1149.80	1.29
8374.00	90.900	287.400	6939.88	1429.27	867.47	-1180.35	0.88
8406.00	90.700	287.400	6939.43	1461.08	877.04	-1210.89	0.62
8437.00	90.400	287.500	6939.13	1491.89	886.34	-1240.46	1.02
8468.00	90.800	287.400	6938.81	1522.71	895.63	-1270.03	1.33
8500.00	91.000	287.500	6938.30	1554.52	905.23	-1300.55	0.70
8532.00	91.100	287.100	6937.72	1586.31	914.74	-1331.10	1.29
8563.00	92.200	287.000	6936.82	1617.09	923.83	-1360.73	3.56
8595.00	92.900	286.900	6935.40	1648.84	933.15	-1391.31	2.21
8627.00	93.100	286.800	6933.73	1680.57	942.41	-1421.89	0.70
8659.00	92.900	286.400	6932.05	1712.29	951.54	-1452.51	1.40
8690.00	91.800	286.500	6930.78	1743.02	960.31	-1482.22	3.56
8722.00	90.900	286.500	6930.03	1774.76	969.40	-1512.89	2.81
8754.00	90.700	286.400	6929.58	1806.50	978.46	-1543.58	0.70
8785.00	91.400	286.200	6929.01	1837.24	987.16	-1573.33	2.35
8817.00	91.700	286.300	6928.15	1868.96	996.11	-1604.04	0.99
8849.00	91.600	286.000	6927.22	1900.67	1005.01	-1634.76	0.99
8881.00	91.600	285.900	6926.33	1932.37	1013.80	-1665.52	0.31
8912.00	91.600	285.500	6925.47	1963.06	1022.18	-1695.35	1.29
8944.00	91.700	285.300	6924.54	1994.72	1030.68	-1726.19	0.70
8976.00	91.900	285.200	6923.54	2026.36	1039.09	-1757.05	0.70
9007.00	91.800	286.200	6922.54	2057.04	1047.47	-1786.88	3.24
9039.00	91.700	286.900	6921.56	2088.78	1056.58	-1817.53	2.21
9071.00	91.800	286.800	6920.58	2120.54	1065.86	-1848.15	0.44
9102.00	91.900	286.600	6919.58	2151.29	1074.76	-1877.82	0.72
9133.00	91.700	286.400	6918.61	2182.04	1083.56	-1907.53	0.91
9165.00	91.400	287.000	6917.74	2213.79	1092.75	-1938.17	2.10
9197.00	90.800	287.100	6917.13	2245.57	1102.13	-1968.76	1.90



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REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No. 1H SHL
Area	Eddy County, NM	Well	No. 1H ST02
Field	(Drumstick DL) Sec 7, T16S, R29E	Wellbore	No. 1H ST02 AWB
Facility	Drumstick 7 Fed Com No. 1H ST01	Sidetrack from	No. 1H ST01 AWB at 6500.00 MD

WELLPATH DATA (201 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]
9228.00	90.900	286.900	6916.67	2276.36	1111.19	-1998.40	0.72
9260.00	90.700	286.800	6916.22	2308.13	1120.47	-2029.02	0.70
9292.00	90.700	286.500	6915.83	2339.89	1129.64	-2059.68	0.94
9323.00	90.700	286.500	6915.45	2370.64	1138.44	-2089.40	0.00
9355.00	90.600	286.500	6915.09	2402.39	1147.53	-2120.08	-0.31
9387.00	90.600	286.600	6914.76	2434.14	1156.64	-2150.75	0.31
9418.00	90.700	286.600	6914.40	2464.91	1165.50	-2180.46	0.32
9450.00	90.900	286.400	6913.96	2496.65	1174.59	-2211.14	0.88
9481.00	90.900	286.500	6913.47	2527.40	1183.37	-2240.87	0.32
9513.00	90.900	286.800	6912.97	2559.16	1192.53	-2271.52	0.94
9545.00	91.000	287.200	6912.44	2590.94	1201.89	-2302.12	1.29
9576.00	90.900	287.500	6911.92	2621.75	1211.13	-2331.70	1.02
9608.00	91.100	287.500	6911.36	2653.56	1220.75	-2362.22	0.62
9639.00	91.700	287.500	6910.61	2684.37	1230.07	-2391.78	1.94
9671.00	92.200	287.500	6909.52	2716.17	1239.69	-2422.28	1.56
9703.00	92.200	287.500	6908.29	2747.96	1249.30	-2452.77	0.00
9734.00	92.300	287.300	6907.07	2778.75	1258.57	-2482.33	0.72
9766.00	92.500	287.600	6905.73	2810.53	1268.15	-2512.83	1.13
9798.00	91.900	287.800	6904.50	2842.34	1277.88	-2543.29	1.98
9829.00	91.600	287.600	6903.56	2873.16	1287.30	-2572.81	1.16
9861.00	91.700	287.800	6902.64	2904.97	1297.02	-2603.29	0.70
9893.00	91.700	287.600	6901.69	2936.78	1306.75	-2633.76	0.62
9924.00	91.700	287.700	6900.77	2967.60	1316.14	-2663.29	0.32
9956.00	91.500	287.700	6899.87	2999.41	1325.87	-2693.76	0.62
9987.00	91.200	287.600	6899.14	3030.23	1335.26	-2723.29	1.02
10019.00	91.000	287.500	6898.53	3062.05	1344.91	-2753.80	0.70
10051.00	91.300	287.500	6897.89	3093.86	1354.53	-2784.31	0.94
10082.00	90.900	287.200	6897.29	3124.66	1363.77	-2813.89	1.61
10114.00	91.000	287.100	6896.76	3156.45	1373.21	-2844.47	0.44
10146.00	91.100	287.400	6896.17	3188.25	1382.70	-2875.02	0.99



Actual Wellpath Report

No. 1H ST02 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No. 1H SHL
Area	Eddy County, NM	Well	No. 1H ST02
Field	(Drumstick DL) Sec 7, T16S, R29E	Wellbore	No. 1H ST02 AWB
Facility	Drumstick 7 Fed Com No. 1H ST01	Sidetrack from	No. 1H ST01 AWB at 6500.00 MD

WELLPATH DATA (201 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]
10178.00	91.300	287.300	6895.50	3220.04	1392.24	-2905.56	0.70
10209.00	91.300	287.000	6894.80	3250.84	1401.38	-2935.17	0.97
10240.00	91.200	287.000	6894.12	3281.62	1410.44	-2964.81	0.32
10272.00	91.500	287.400	6893.37	3313.41	1419.90	-2995.37	1.56
10304.00	92.000	287.900	6892.39	3345.22	1429.59	-3025.85	2.21
10335.00	92.300	288.100	6891.23	3376.04	1439.17	-3055.31	1.16
10367.00	92.100	288.000	6890.00	3407.87	1449.08	-3085.71	0.70
10399.00	91.700	287.800	6888.94	3439.69	1458.91	-3116.15	1.40
10430.00	90.900	287.900	6888.24	3470.52	1468.41	-3145.65	2.60
10461.00	90.500	287.900	6887.86	3501.36	1477.93	-3175.15	1.29
10493.00	90.200	287.600	6887.66	3533.19	1487.69	-3205.62	1.33
10525.00	90.300	287.700	6887.52	3565.01	1497.39	-3236.12	0.44
10557.00	89.900	287.700	6887.47	3596.84	1507.12	-3266.60	1.25
10589.00	89.900	287.900	6887.52	3628.67	1516.90	-3297.07	0.62
10620.00	89.900	288.000	6887.58	3659.52	1526.46	-3326.56	0.32
10684.00	89.900	287.900	6887.69	3723.20	1546.18	-3387.44	0.16
10746.00	89.800	288.000	6887.85	3784.89	1565.29	-3446.43	0.23
10810.00	89.900	288.100	6888.02	3848.59	1585.12	-3507.28	0.22
10873.00	89.900	287.800	6888.13	3911.27	1604.53	-3567.21	0.48
10905.00	89.800	287.600	6888.21	3943.10	1614.26	-3597.69	0.70
10964.00†	89.800	287.600	6888.42	4001.77	1632.10	-3653.93	0.00



Actual Wellpath Report

No. 1H ST02 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No. 1H SHL
Area	Eddy County, NM	Well	No. 1H ST02
Field	(Drumstick DL) Sec 7, T16S, R29E	Wellbore	No. 1H ST02 AWB
Facility	Drumstick 7 Fed Com No. 1H ST01	Sidetrack from	No. 1H ST01 AWB at 6500.00 MD

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
No. 1H ST02 PBHL		6925.00	1645.59	-3755.67	565595.81	706648.26	32°56'32.883"N	104°07'10.253"W	point

WELLPATH COMPOSITION

Ref Wellbore: No. 1H ST02 AWB

Ref Wellpath: No. 1H ST02 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	6500.00	Generic gyro - continuous (Standard)	GYRO	No. 1H ST01 AWB
6500.00	10905.00	NaviTrak (Standard)	MWD	No. 1H ST02 AWB
10905.00	10964.00	Blind Drilling (std)	Projection to bit	No. 1H ST02 AWB