



Cimarex Energy Co.

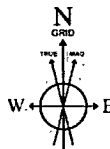
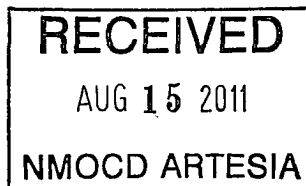
Location: Eddy County, NM
Field: Parkway
Facility: Parkway State Com No. 5Y

Slot: No. 5Y SHL
Well: No. 5Y
Wellbore: No. 5Y PWB



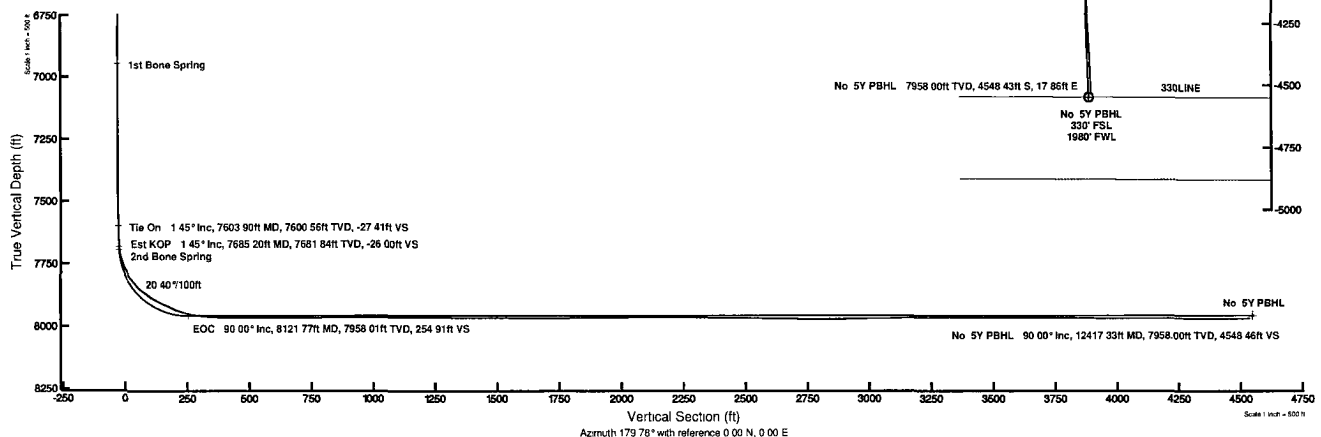
Well Profile Data							
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	VS (ft)
Tie On	7603.90	1.450	226.700	7600.56	26.88	-133.28	-27.41
Est KOP	7685.20	1.450	226.700	7681.84	25.47	-134.78	-26.00
EOC	8121.77	90.000	178.023	7958.01	-255.42	-130.34	254.91
No. 5Y PBHL	12417.33	90.000	178.023	7958.00	-4548.43	17.86	4548.46

30-015-38499



BGGM (1945 0 to 2012 0) Dip: 80.53° Field: 48889.6 nT
Magnetic North is 7.94 degrees East of True North (at 2/28/2011)
Grid North is 0.14 degrees East of True North
To correct azimuth from True to Grid subtract 0.14 degrees
To correct azimuth from Magnetic to Grid add 7.90 degrees
For example: If the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 7.90 = 97.90

Plot reference wellpath as Plan 1	
True vertical depths are referenced to Rig on No. 5Y SHL (KB)	Grid System: NAD83 / TM New Mexico State Planes, Eastern Zone (3001) US feet
Measured depths are referenced to Rig on No. 5Y SHL (KB)	North Reference: Grid north
Rig on No. 5Y SHL (KB) to Mean Sea Level: 3352 feet	Scale: True distance
Mean Sea Level to Mud line (Facility: Parkway State Com No. 5Y): -3352 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: calphuk on 3/17/2011





Actual Wellpath Report

No. 5Y AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No. 5Y SHL
Area	Eddy County, NM	Well	No. 5Y
Field	Parkway	Wellbore	No. 5Y AWB
Facility	Parkway State Com No. 5Y		

REPORT SETUP INFORMATION			
Projection System	NAD83 / TM New Mexico State Planes, Eastern Zone (3001), US feet	Software System	WellArchitect® 2.0
North Reference	Grid	User	Calhphik
Scale	0.999917	Report Generated	4/13/2011 at 10:24:44 AM
Convergence at slot	0.14° East	Database/Source file	WA Midland/No. 5Y_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	623979.18	606456.17	32°40'00.863"N	104°03'53.191"W
Facility Reference Pt			623979.18	606456.17	32°40'00.863"N	104°03'53.191"W
Field Reference Pt			623994.14	604893.77	32°39'45.403"N	104°03'53.063"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Rig on No. 5Y SHL (KB) to GL	18.00ft
Horizontal Reference Pt	Slot	Rig on No. 5Y SHL (KB) to Mean Sea Level	3370.00ft
Vertical Reference Pt	Rig on No. 5Y SHL (KB)	GL to Mud Line (Facility)	0.00ft
MD Reference Pt	Rig on No. 5Y SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	179.78°



Actual Wellpath Report

No. 5Y AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No. 5Y SHL
Area	Eddy County, NM	Well	No. 5Y
Field	Parkway	Wellbore	No. 5Y AWB
Facility	Parkway State Com No. 5Y		

WELLPATH DATA (145 stations) † = interpolated/extrapolated station												
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]	Comments
0.00†	0.000	131.160	0.00	0.00	0.00	0.00	623979.18	606456.17	32°40'00.863"N	104°03'53.191"W	0.00	
18.00	0.000	131.160	18.00	0.00	0.00	0.00	623979.18	606456.17	32°40'00.863"N	104°03'53.191"W	0.00	
118.00	0.760	131.160	118.00	0.44	-0.44	0.50	623979.68	606455.73	32°40'00.859"N	104°03'53.186"W	0.76	
218.00	1.000	147.380	217.99	1.61	-1.61	1.47	623980.65	606454.56	32°40'00.847"N	104°03'53.174"W	0.34	
318.00	1.120	146.440	317.97	3.17	-3.16	2.48	623981.66	606453.01	32°40'00.832"N	104°03'53.162"W	0.12	
418.00	0.950	153.690	417.95	4.73	-4.71	3.39	623982.57	606451.46	32°40'00.817"N	104°03'53.152"W	0.21	
518.00	0.220	107.720	517.95	5.53	-5.52	3.94	623983.12	606450.65	32°40'00.809"N	104°03'53.145"W	0.81	
618.00	0.460	119.140	617.94	5.79	-5.77	4.47	623983.65	606450.40	32°40'00.806"N	104°03'53.139"W	0.25	
756.70	0.730	83.970	756.64	5.97	-5.95	5.84	623985.02	606450.22	32°40'00.804"N	104°03'53.123"W	0.32	
852.00	1.090	81.360	851.93	5.78	-5.75	7.34	623986.52	606450.42	32°40'00.806"N	104°03'53.106"W	0.38	
947.40	1.200	79.890	947.31	5.47	-5.44	9.22	623988.40	606450.73	32°40'00.809"N	104°03'53.084"W	0.12	
1042.80	1.110	77.680	1042.69	5.11	-5.06	11.10	623990.28	606451.11	32°40'00.813"N	104°03'53.062"W	0.11	
1138.10	0.700	52.200	1137.98	4.56	-4.51	12.46	623991.64	606451.66	32°40'00.818"N	104°03'53.046"W	0.59	
1233.50	0.510	11.500	1233.37	3.79	-3.74	13.01	623992.19	606452.43	32°40'00.826"N	104°03'53.039"W	0.48	
1328.80	0.700	334.100	1328.67	2.85	-2.80	12.84	623992.02	606453.37	32°40'00.835"N	104°03'53.041"W	0.45	
1424.20	0.920	316.760	1424.06	1.76	-1.72	12.06	623991.24	606454.45	32°40'00.846"N	104°03'53.050"W	0.34	
1519.50	1.230	315.600	1519.34	0.47	-0.43	10.82	623990.00	606455.74	32°40'00.859"N	104°03'53.065"W	0.33	
1614.80	1.300	314.700	1614.62	-1.03	1.06	9.34	623988.52	606457.23	32°40'00.874"N	104°03'53.082"W	0.08	
1710.20	1.400	309.160	1709.99	-2.53	2.56	7.66	623986.84	606458.73	32°40'00.888"N	104°03'53.102"W	0.17	
1805.60	1.190	317.210	1805.36	-4.00	4.02	6.09	623985.27	606460.19	32°40'00.903"N	104°03'53.120"W	0.29	
1900.90	1.130	307.480	1900.65	-5.30	5.32	4.67	623983.85	606461.49	32°40'00.916"N	104°03'53.137"W	0.22	
1996.30	1.130	303.840	1996.03	-6.41	6.42	3.14	623982.32	606462.59	32°40'00.927"N	104°03'53.154"W	0.08	
2091.60	1.170	302.880	2091.31	-7.46	7.47	1.54	623980.72	606463.64	32°40'00.937"N	104°03'53.173"W	0.05	
2186.90	1.330	292.710	2186.58	-8.43	8.42	-0.29	623978.89	606464.59	32°40'00.947"N	104°03'53.195"W	0.29	
2282.30	1.270	291.080	2281.96	-9.24	9.23	-2.30	623976.88	606465.40	32°40'00.955"N	104°03'53.218"W	0.07	
2377.70	1.070	291.790	2377.34	-9.96	9.94	-4.11	623975.07	606466.11	32°40'00.962"N	104°03'53.239"W	0.21	
2473.00	1.120	290.730	2472.62	-10.63	10.60	-5.81	623973.37	606466.77	32°40'00.968"N	104°03'53.259"W	0.06	
2568.30	1.240	292.830	2567.90	-11.36	11.33	-7.63	623971.55	606467.50	32°40'00.976"N	104°03'53.280"W	0.13	
2663.70	1.210	292.520	2663.28	-12.16	12.12	-9.52	623969.67	606468.29	32°40'00.983"N	104°03'53.302"W	0.03	
2759.10	1.200	288.520	2758.66	-12.87	12.82	-11.39	623967.79	606468.99	32°40'00.990"N	104°03'53.324"W	0.09	
2854.40	1.080	283.950	2853.94	-13.41	13.36	-13.21	623965.97	606469.52	32°40'00.996"N	104°03'53.345"W	0.16	
2949.80	1.030	283.370	2949.32	-13.83	13.77	-14.92	623964.26	606469.94	32°40'01.000"N	104°03'53.365"W	0.05	
3045.10	0.950	287.710	3044.61	-14.27	14.21	-16.50	623962.68	606470.38	32°40'01.004"N	104°03'53.384"W	0.11	
3140.40	0.920	289.770	3139.90	-14.78	14.71	-17.98	623961.21	606470.88	32°40'01.009"N	104°03'53.401"W	0.05	
3235.80	0.900	294.910	3235.29	-15.36	15.28	-19.38	623959.81	606471.45	32°40'01.015"N	104°03'53.418"W	0.09	
3331.20	0.960	294.720	3330.67	-16.01	15.93	-20.78	623958.40	606472.10	32°40'01.022"N	104°03'53.434"W	0.06	
3426.50	1.050	282.250	3425.96	-16.54	16.45	-22.36	623956.82	606472.62	32°40'01.027"N	104°03'53.452"W	0.25	
3521.80	1.120	273.890	3521.24	-16.79	16.70	-24.14	623955.04	606472.87	32°40'01.029"N	104°03'53.473"W	0.18	
3617.20	1.210	273.110	3616.62	-16.92	16.82	-26.08	623953.10	606472.99	32°40'01.030"N	104°03'53.496"W	0.10	
3712.60	1.360	276.370	3712.00	-17.11	17.00	-28.21	623950.97	606473.17	32°40'01.032"N	104°03'53.521"W	0.17	
3807.90	1.440	276.690	3807.27	-17.38	17.26	-30.52	623948.66	606473.43	32°40'01.035"N	104°03'53.548"W	0.08	
3903.30	1.460	283.310	3902.64	-17.81	17.68	-32.90	623946.29	606473.85	32°40'01.039"N	104°03'53.576"W	0.18	
3998.60	1.380	290.510	3997.91	-18.50	18.36	-35.15	623944.03	606474.53	32°40'01.046"N	104°03'53.602"W	0.21	
4093.90	1.250	292.070	4093.18	-19.30	19.16	-37.19	623941.99	606475.33	32°40'01.054"N	104°03'53.626"W	0.14	
4189.30	1.180	293.770	4188.56	-20.10	19.94	-39.05	623940.13	606476.11	32°40'01.062"N	104°03'53.648"W	0.08	



Actual Wellpath Report

No. 5Y AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No. 5Y SHL
Area	Eddy County, NM	Well	No. 5Y
Field	Parkway	Wellbore	No. 5Y AWB
Facility	Parkway State Com No. 5Y		

WELLPATH DATA (145 stations)												
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]	Comments
4284.60	1.290	299.830	4283.84	-21.03	20.87	-40.88	623938.30	606477.04	32°40'01.071"N	104°03'53.669"W	0.18	
4380.00	1.410	295.790	4379.21	-22.09	21.92	-42.87	623936.31	606478.09	32°40'01.081"N	104°03'53.692"W	0.16	
4475.40	1.470	288.910	4474.58	-23.00	22.82	-45.09	623934.10	606478.99	32°40'01.090"N	104°03'53.718"W	0.19	
4570.70	1.540	291.490	4569.85	-23.88	23.69	-47.43	623931.75	606479.86	32°40'01.099"N	104°03'53.745"W	0.10	
4666.10	1.460	290.030	4665.22	-24.77	24.58	-49.77	623929.42	606480.74	32°40'01.108"N	104°03'53.773"W	0.09	
4761.40	1.300	293.340	4760.49	-25.62	25.42	-51.90	623927.28	606481.59	32°40'01.116"N	104°03'53.798"W	0.19	
4856.80	1.270	302.190	4855.87	-26.62	26.41	-53.79	623925.39	606482.58	32°40'01.126"N	104°03'53.820"W	0.21	
4952.10	1.060	305.010	4951.15	-27.70	27.48	-55.41	623923.78	606483.65	32°40'01.137"N	104°03'53.839"W	0.23	
5047.40	1.120	304.300	5046.43	-28.73	28.51	-56.90	623922.29	606484.68	32°40'01.147"N	104°03'53.856"W	0.06	
5142.80	1.310	276.140	5141.81	-29.38	29.15	-58.75	623920.43	606485.32	32°40'01.153"N	104°03'53.878"W	0.65	
5238.10	2.030	276.970	5237.07	-29.72	29.47	-61.51	623917.68	606485.64	32°40'01.157"N	104°03'53.910"W	0.76	
5333.50	2.920	281.790	5332.38	-30.43	30.18	-65.57	623913.62	606486.34	32°40'01.164"N	104°03'53.957"W	0.96	
5428.90	3.520	277.970	5427.63	-31.36	31.08	-70.84	623908.34	606487.25	32°40'01.173"N	104°03'54.019"W	0.67	
5524.20	4.110	271.410	5522.72	-31.87	31.57	-77.16	623902.03	606487.74	32°40'01.178"N	104°03'54.093"W	0.77	
5619.60	4.750	268.730	5617.83	-31.90	31.56	-84.52	623894.66	606487.73	32°40'01.178"N	104°03'54.179"W	0.70	
5714.90	4.470	270.710	5712.82	-31.89	31.52	-92.18	623887.01	606487.69	32°40'01.178"N	104°03'54.269"W	0.34	
5810.30	4.070	268.460	5807.96	-31.87	31.48	-99.28	623879.91	606487.65	32°40'01.177"N	104°03'54.352"W	0.45	
5905.60	3.710	263.410	5903.04	-31.45	31.03	-105.73	623873.46	606487.20	32°40'01.173"N	104°03'54.427"W	0.52	
6000.90	3.500	263.080	5998.15	-30.77	30.33	-111.68	623867.51	606486.50	32°40'01.166"N	104°03'54.497"W	0.22	
6096.30	3.410	260.570	6093.38	-29.97	29.51	-117.37	623861.82	606485.68	32°40'01.158"N	104°03'54.563"W	0.18	
6191.60	3.180	257.480	6188.52	-28.96	28.48	-122.74	623856.45	606484.64	32°40'01.148"N	104°03'54.626"W	0.30	
6287.00	2.610	258.460	6283.80	-27.97	27.47	-127.46	623851.74	606483.64	32°40'01.138"N	104°03'54.681"W	0.60	
6382.40	1.760	259.540	6379.13	-27.28	26.77	-131.02	623848.17	606482.94	32°40'01.131"N	104°03'54.723"W	0.89	
6477.70	0.880	292.750	6474.40	-27.31	26.79	-133.14	623846.05	606482.95	32°40'01.132"N	104°03'54.748"W	1.19	
6573.10	0.440	333.610	6569.80	-27.92	27.40	-133.98	623845.21	606483.56	32°40'01.138"N	104°03'54.758"W	0.65	
6668.40	0.130	336.760	6665.09	-28.35	27.82	-134.18	623845.01	606483.99	32°40'01.142"N	104°03'54.760"W	0.33	
6763.80	0.520	54.480	6760.49	-28.70	28.17	-133.87	623845.32	606484.34	32°40'01.145"N	104°03'54.756"W	0.53	
6859.10	0.610	17.820	6855.79	-29.43	28.91	-133.36	623845.83	606485.08	32°40'01.153"N	104°03'54.751"W	0.38	
6954.40	0.200	9.460	6951.09	-30.08	29.56	-133.18	623846.01	606485.72	32°40'01.159"N	104°03'54.748"W	0.43	
7049.80	0.120	205.400	7046.49	-30.15	29.63	-133.20	623845.99	606485.80	32°40'01.160"N	104°03'54.749"W	0.33	
7145.10	0.300	270.760	7141.79	-30.07	29.54	-133.49	623845.70	606485.71	32°40'01.159"N	104°03'54.752"W	0.29	
7240.50	0.050	58.220	7237.19	-30.09	29.57	-133.70	623845.49	606485.74	32°40'01.159"N	104°03'54.754"W	0.36	
7335.90	0.510	110.760	7332.58	-29.96	29.44	-133.27	623845.92	606485.61	32°40'01.158"N	104°03'54.749"W	0.50	
7431.20	0.330	151.480	7427.88	-29.57	29.05	-132.74	623846.45	606485.22	32°40'01.154"N	104°03'54.743"W	0.35	
7526.60	0.670	169.340	7523.28	-28.78	28.26	-132.51	623846.68	606484.43	32°40'01.146"N	104°03'54.741"W	0.39	
7621.90	1.450	226.700	7618.56	-27.41	26.88	-133.28	623845.91	606483.05	32°40'01.133"N	104°03'54.750"W	1.29	
7655.00	1.900	219.700	7651.65	-26.70	26.17	-133.94	623845.25	606482.34	32°40'01.126"N	104°03'54.757"W	1.49	
7684.00	4.600	189.600	7680.60	-25.19	24.66	-134.44	623844.75	606480.83	32°40'01.111"N	104°03'54.763"W	10.71	
7719.00	11.600	182.300	7715.23	-20.28	19.75	-134.82	623844.37	606475.92	32°40'01.062"N	104°03'54.768"W	20.17	
7751.00	18.900	180.200	7746.08	-11.87	11.34	-134.96	623844.23	606467.51	32°40'00.979"N	104°03'54.770"W	22.87	
7779.00	25.700	179.300	7771.97	-1.25	0.72	-134.91	623844.29	606456.89	32°40'00.874"N	104°03'54.769"W	24.32	
7814.00	33.700	177.800	7802.35	16.07	-16.59	-134.44	623844.75	606439.58	32°40'00.703"N	104°03'54.764"W	22.95	
7846.00	40.700	176.400	7827.83	35.38	-35.90	-133.44	623845.75	606420.27	32°40'00.511"N	104°03'54.753"W	22.03	
7875.00	47.300	175.700	7848.68	55.47	-55.99	-132.05	623847.14	606400.19	32°40'00.313"N	104°03'54.738"W	22.82	
7910.00	54.400	176.200	7870.76	82.53	-83.05	-130.14	623849.05	606373.13	32°40'00.045"N	104°03'54.716"W	20.32	



Actual Wellpath Report

No. 5Y AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No. 5Y SHL
Area	Eddy County, NM	Well	No. 5Y
Field	Parkway	Wellbore	No. 5Y AWP
Facility	Parkway State Com No. 5Y		

WELLPATH DATA (145 stations)												
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]	Comments
7941.00	58.500	176.200	7887.89	108.31	-108.82	-128.43	623850.76	606347.36	32°39'59.790"N	104°03'54.697"W	13.23	
7970.00	61.800	175.700	7902.32	133.41	-133.91	-126.65	623852.54	606322.28	32°39'59.542"N	104°03'54.677"W	11.48	
8005.00	64.600	175.100	7918.10	164.55	-165.04	-124.14	623855.05	606291.14	32°39'59.233"N	104°03'54.648"W	8.14	
8037.00	68.200	175.700	7930.91	193.79	-194.27	-121.79	623857.40	606261.92	32°39'58.944"N	104°03'54.622"W	11.38	
8066.00	71.600	176.000	7940.87	220.95	-221.42	-119.82	623859.37	606234.76	32°39'58.675"N	104°03'54.600"W	11.76	
8100.00	75.700	176.400	7950.44	253.51	-253.97	-117.66	623861.53	606202.22	32°39'58.353"N	104°03'54.575"W	12.11	
8132.00	79.700	176.000	7957.26	284.70	-285.16	-115.59	623863.60	606171.03	32°39'58.045"N	104°03'54.552"W	12.56	
8161.00	83.500	176.800	7961.49	313.34	-313.79	-113.79	623865.40	606142.41	32°39'57.761"N	104°03'54.532"W	13.38	
8196.00	87.600	176.600	7964.21	348.18	-348.62	-111.78	623867.41	606107.58	32°39'57.417"N	104°03'54.509"W	11.73	
8256.00	89.500	177.700	7965.73	408.09	-408.52	-108.80	623870.39	606047.68	32°39'56.824"N	104°03'54.476"W	3.66	
8351.00	89.300	177.500	7966.72	503.02	-503.43	-104.82	623874.37	605952.78	32°39'55.885"N	104°03'54.432"W	0.30	
8447.00	90.500	177.900	7966.89	598.95	-599.35	-100.97	623878.22	605856.87	32°39'54.936"N	104°03'54.390"W	1.32	
8542.00	90.100	177.100	7966.39	693.87	-694.26	-96.82	623882.36	605761.97	32°39'53.996"N	104°03'54.344"W	0.94	
8577.00	90.200	177.700	7966.30	728.84	-729.22	-95.24	623883.95	605727.01	32°39'53.650"N	104°03'54.327"W	1.74	
8672.00	90.000	178.800	7966.13	823.81	-824.18	-92.34	623886.85	605632.06	32°39'52.711"N	104°03'54.296"W	1.18	
8768.00	90.200	179.200	7965.97	919.80	-920.16	-90.66	623888.53	605536.09	32°39'51.761"N	104°03'54.279"W	0.47	
8864.00	90.100	179.300	7965.72	1015.79	-1016.15	-89.40	623889.78	605440.10	32°39'50.811"N	104°03'54.267"W	0.15	
8959.00	90.000	179.000	7965.63	1110.79	-1111.14	-87.99	623891.19	605345.12	32°39'49.871"N	104°03'54.254"W	0.33	
9054.00	90.300	179.200	7965.38	1205.78	-1206.13	-86.50	623892.69	605250.14	32°39'48.932"N	104°03'54.239"W	0.38	
9151.00	89.100	177.800	7965.89	1302.75	-1303.09	-83.96	623895.22	605153.19	32°39'47.972"N	104°03'54.212"W	1.90	
9245.00	89.600	178.500	7966.96	1396.71	-1397.04	-80.93	623898.26	605059.25	32°39'47.043"N	104°03'54.179"W	0.92	
9340.00	89.700	178.700	7967.54	1491.69	-1492.01	-78.61	623900.58	604964.29	32°39'46.103"N	104°03'54.155"W	0.24	
9436.00	89.800	178.600	7967.96	1587.67	-1587.98	-76.35	623902.84	604868.33	32°39'45.153"N	104°03'54.131"W	0.15	
9531.00	90.000	178.500	7968.12	1682.64	-1682.95	-73.94	623905.24	604773.37	32°39'44.213"N	104°03'54.106"W	0.24	
9627.00	90.300	178.200	7967.87	1778.61	-1778.91	-71.18	623908.01	604677.41	32°39'43.264"N	104°03'54.077"W	0.44	
9722.00	90.700	178.100	7967.04	1873.57	-1873.85	-68.11	623911.07	604582.48	32°39'42.324"N	104°03'54.043"W	0.43	
9817.00	90.700	178.300	7965.88	1968.53	-1968.80	-65.13	623914.06	604487.54	32°39'41.385"N	104°03'54.011"W	0.21	
9913.00	90.800	178.100	7964.63	2064.48	-2064.74	-62.11	623917.07	604391.60	32°39'40.435"N	104°03'53.979"W	0.23	
10008.00	89.600	178.800	7964.29	2159.46	-2159.71	-59.54	623919.64	604296.65	32°39'39.496"N	104°03'53.952"W	1.46	
10103.00	89.600	178.300	7964.96	2254.43	-2254.67	-57.14	623922.05	604201.69	32°39'38.556"N	104°03'53.926"W	0.53	
10198.00	89.200	178.300	7965.95	2349.39	-2349.63	-54.32	623924.86	604106.74	32°39'37.617"N	104°03'53.896"W	0.42	
10294.00	89.400	179.400	7967.12	2445.37	-2445.60	-52.39	623926.79	604010.78	32°39'36.667"N	104°03'53.877"W	1.16	
10389.00	89.400	178.600	7968.12	2540.36	-2540.58	-50.74	623928.45	603915.81	32°39'35.727"N	104°03'53.860"W	0.84	
10484.00	88.900	178.700	7969.53	2635.33	-2635.54	-48.50	623930.69	603820.85	32°39'34.787"N	104°03'53.837"W	0.54	
10580.00	89.000	178.400	7971.29	2731.29	-2731.49	-46.07	623933.11	603724.91	32°39'33.838"N	104°03'53.811"W	0.33	
10675.00	90.300	177.400	7971.87	2826.24	-2826.42	-42.59	623936.60	603629.99	32°39'32.899"N	104°03'53.773"W	1.73	
10771.00	90.700	179.000	7971.03	2922.19	-2922.37	-39.57	623939.61	603534.05	32°39'31.949"N	104°03'53.741"W	1.72	
10866.00	90.700	178.600	7969.87	3017.17	-3017.34	-37.58	623941.60	603439.08	32°39'31.009"N	104°03'53.720"W	0.42	
10962.00	91.400	178.400	7968.11	3113.13	-3113.29	-35.07	623944.11	603343.14	32°39'30.060"N	104°03'53.694"W	0.76	
11057.00	90.500	178.100	7966.54	3208.08	-3208.23	-32.17	623947.01	603248.21	32°39'29.121"N	104°03'53.663"W	1.00	
11152.00	90.000	178.200	7966.12	3303.04	-3303.18	-29.10	623950.08	603153.27	32°39'28.181"N	104°03'53.629"W	0.54	
11248.00	89.800	178.000	7966.29	3399.00	-3399.13	-25.92	623953.26	603057.33	32°39'27.232"N	104°03'53.595"W	0.29	
11343.00	90.000	177.300	7966.45	3493.94	-3494.05	-22.03	623957.16	602962.42	32°39'26.292"N	104°03'53.552"W	0.77	
11439.00	89.700	177.300	7966.71	3589.85	-3589.94	-17.50	623961.68	602866.53	32°39'25.343"N	104°03'53.502"W	0.31	
11534.00	90.000	177.500	7966.95	3684.76	-3684.84	-13.19	623965.99	602771.64	32°39'24.404"N	104°03'53.455"W	0.38	



Actual Wellpath Report

No. 5Y AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No. 5Y SHL
Area	Eddy County, NM	Well	No. 5Y
Field	Parkway	Wellbore	No. 5Y AWB
Facility	Parkway State Com No. 5Y		

WELLPATH DATA (145 stations)												
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]	Comments
11629.00	89.500	177.100	7967.37	3779.67	-3779.74	-8.72	623970.46	602676.75	32°39'23.465"N	104°03'53.405"W	0.67	
11725.00	89.400	177.400	7968.29	3875.58	-3875.62	-4.11	623975.07	602580.88	32°39'22.516"N	104°03'53.354"W	0.33	
11820.00	89.600	177.200	7969.12	3970.48	-3970.51	0.36	623979.54	602485.99	32°39'21.577"N	104°03'53.305"W	0.30	
11915.00	90.200	178.000	7969.29	4065.41	-4065.43	4.34	623983.52	602391.09	32°39'20.638"N	104°03'53.261"W	1.05	
12010.00	89.700	177.100	7969.37	4160.34	-4160.34	8.40	623987.58	602296.18	32°39'19.699"N	104°03'53.216"W	1.08	
12106.00	89.400	176.500	7970.12	4256.21	-4256.19	13.76	623992.94	602200.34	32°39'18.750"N	104°03'53.156"W	0.70	
12201.00	89.500	177.100	7971.03	4351.08	-4351.03	19.06	623998.24	602105.51	32°39'17.812"N	104°03'53.097"W	0.64	
12296.00	90.400	177.800	7971.12	4446.00	-4445.94	23.29	624002.47	602010.61	32°39'16.873"N	104°03'53.050"W	1.20	
12344.00	90.800	178.200	7970.61	4493.97	-4493.91	24.96	624004.14	601962.65	32°39'16.398"N	104°03'53.032"W	1.18	
12388.00	90.800	178.200	7970.00	4537.95	-4537.88	26.35	624005.52	601918.68	32°39'15.963"N	104°03'53.017"W	0.00	Project to Bit

TARGETS										
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape	
No. 5Y PBHL		7958.00	-4548.43	17.86	623997.04	601908.13	32°39'15.859"N	104°03'53.117"W	point	

WELLPATH COMPOSITION					Ref Wellbore: No. 5Y AWB	Ref Wellpath: No. 5Y AWP
Start MD [ft]	End MD [ft]	Positional Uncertainty Model			Log Name/Comment	Wellbore
18.00	7621.90	Generic gyro - northseeking (Standard)			Gyro	No. 5Y AWB
7621.90	12388.00	NaviTrak (Standard)			MWD	No. 5Y AWB