

30-015-38066

RECEIVED

MAR 08 2011

NMOCD ARTESIA

Cimarex Energy Co.

Location: Eddy County, NM
Field: Parkway
Facility: Parkway State 17 No. 3HSlot: No. 3H SHL
Well: No. 3H
Wellbore: No. 3H PWB

Well Profile Data

Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	0.00	0.000	90.029	0.00	0.00	0.00	0.00	0.00
EST. KOP	7586.00	0.000	90.029	7586.00	0.00	0.00	0.00	0.00
END OF CURVE	7906.52	89.747	90.029	7790.63	-0.10	203.72	28.00	203.72
No. 3H PBHL	12287.68	89.747	90.029	7810.00	-2.30	4584.84	0.00	4584.84

Plot reference wellpath is Prelim_1

True vertical depths are referenced to Rig on No. 3H SHL (GL)

Measured depths are referenced to Rig on No. 3H SHL (GL)

Rig on No. 3H SHL (GL) to Mean Sea Level: 3368 feet

Mean Sea Level to Mud line (Facility: Parkway State 17 No. 3H): -3368 feet

Coordinates are in feet referenced to SL

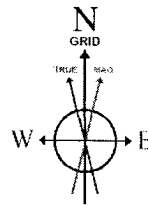
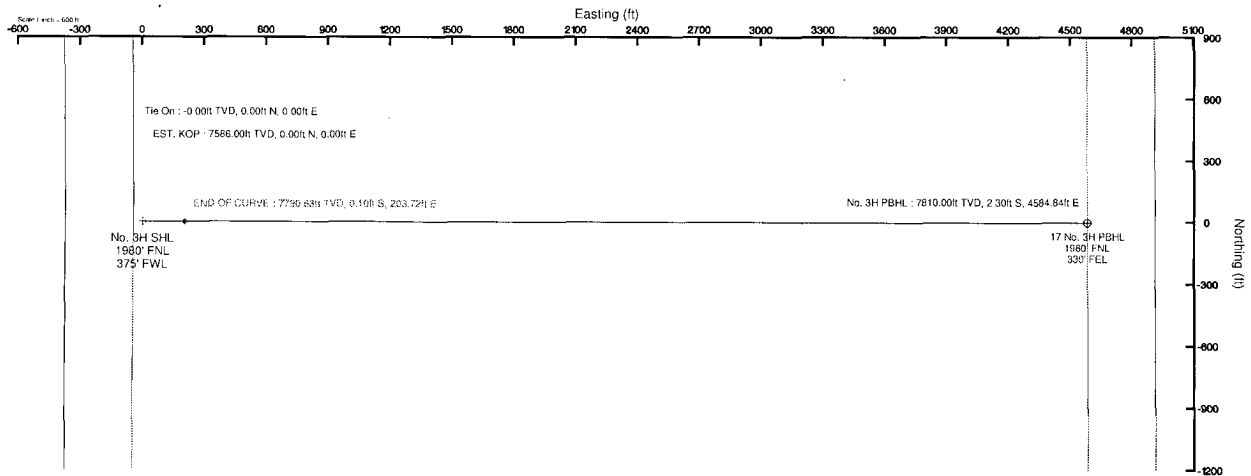
Grid System: NAD83 / TM New Mexico State Planes, Eastern Zone (3001), US feet

North Reference: Grid north

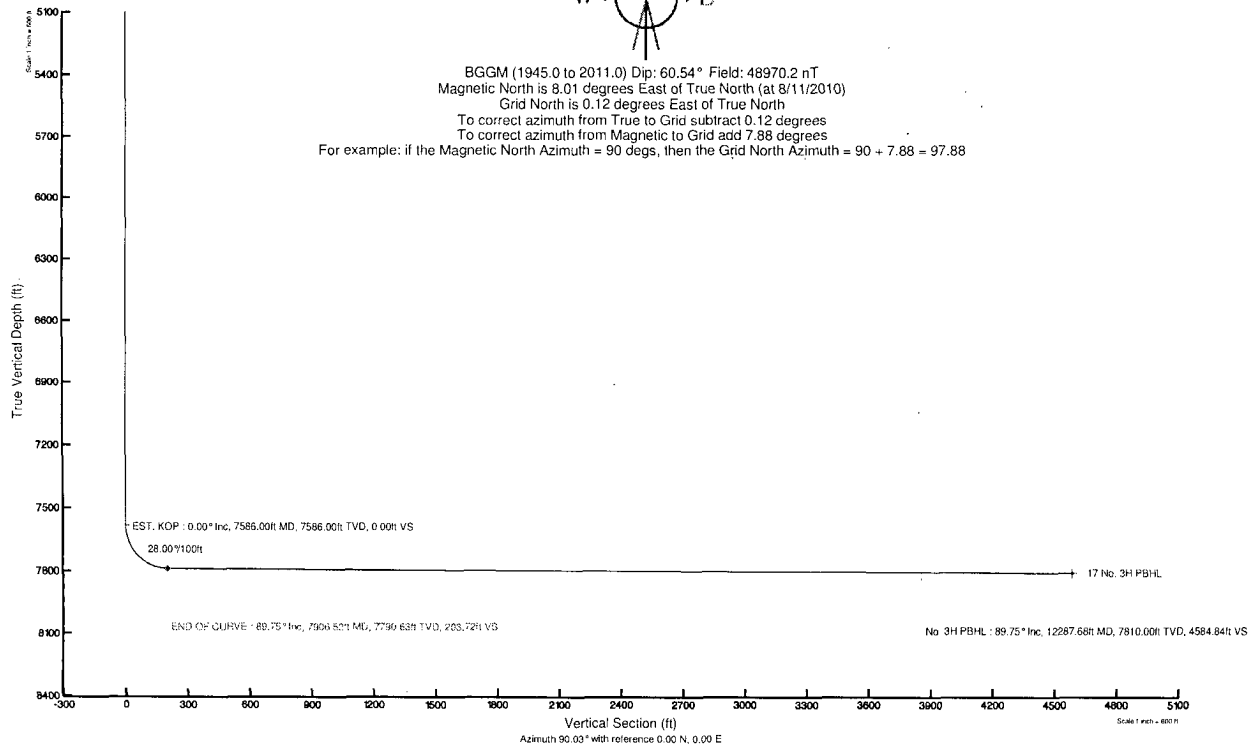
Scale: True distance

Depths are in feet

Created by: Victor Hernandez on 8/11/2010



BGGM (1945.0 to 2011.0) Dip: 60.54° Field: 48970.2 nT
Magnetic North is 8.01 degrees East of True North (at 8/11/2010)
Grid North is 0.12 degrees East of True North
To correct azimuth from True to Grid subtract 0.12 degrees
To correct azimuth from Magnetic to Grid add 7.88 degrees
For example: if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 7.88 = 97.88





Planned Wellpath Report

Prelim_1
Page 1 of 4



REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No. 3H SHL
Area	Eddy County, NM	Well	No. 3H
Field	Parkway	Wellbore	No. 3H PWB
Facility	Parkway State 17 No. 3H		

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	Victor Hernandez
Scale	0.999915	Report Generated	8/11/2010 at 12:35:16 PM
Convergence at slot	0.12° East	Database/Source file	WA_Midland/No. 3H_PWB.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	611805.30	604892.30	32°39'45.671"N	104°06'15.650"W
Facility Reference Pt			611805.30	604892.30	32°39'45.671"N	104°06'15.650"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. 3H SHL (GL) to GL	0.00ft
Horizontal Reference Pt	SL	Rig on No. 3H SHL (GL) to Mean Sea Level	3368.00ft
Vertical Reference Pt	Rig on No. 3H SHL (GL)	GL to Mud Line (Facility)	0.00ft
MD Reference Pt	Rig on No. 3H SHL (GL)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	90.03°



Planned Wellpath Report

Prelim_1
Page 2 of 4



REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No. 3H SHL
Area	Eddy County, NM	Well	No. 3H
Field	Parkway	Wellbore	No. 3H PWB
Facility	Parkway State 17 No. 3H		

WELLPATH DATA (51 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	90.029	0.00	0.00	0.00	0.00	611805.30	604892.30	32°39'45.671"N	104°06'15.650"W	0.00	Tie On
7586.00	0.000	90.029	7586.00	0.00	0.00	0.00	611805.30	604892.30	32°39'45.671"N	104°06'15.650"W	0.00	EST. KOP
7686.00†	28.000	90.029	7682.07	23.95	-0.01	23.95	611829.25	604892.29	32°39'45.670"N	104°06'15.369"W	28.00	
7786.00†	56.000	90.029	7755.64	90.20	-0.05	90.20	611895.49	604892.25	32°39'45.668"N	104°06'14.594"W	28.00	
7886.00†	84.000	90.029	7789.51	183.24	-0.09	183.24	611988.52	604892.21	32°39'45.666"N	104°06'13.506"W	28.00	
7906.52	89.747	90.029	7790.63	203.72	-0.10	203.72	612009.01	604892.20	32°39'45.665"N	104°06'13.267"W	28.00	END OF CURVE
7986.00†	89.747	90.029	7790.98	283.20	-0.14	283.20	612088.47	604892.16	32°39'45.663"N	104°06'12.337"W	0.00	
8086.00†	89.747	90.029	7791.42	383.20	-0.19	383.20	612188.46	604892.11	32°39'45.661"N	104°06'11.167"W	0.00	
8186.00†	89.747	90.029	7791.86	483.20	-0.24	483.20	612288.45	604892.06	32°39'45.658"N	104°06'09.998"W	0.00	
8286.00†	89.747	90.029	7792.30	583.20	-0.29	583.20	612388.44	604892.01	32°39'45.655"N	104°06'08.828"W	0.00	
8386.00†	89.747	90.029	7792.75	683.19	-0.34	683.19	612488.43	604891.96	32°39'45.653"N	104°06'07.658"W	0.00	
8486.00†	89.747	90.029	7793.19	783.19	-0.39	783.19	612588.43	604891.91	32°39'45.650"N	104°06'06.488"W	0.00	
8586.00†	89.747	90.029	7793.63	883.19	-0.44	883.19	612688.42	604891.86	32°39'45.647"N	104°06'05.319"W	0.00	
8686.00†	89.747	90.029	7794.07	983.19	-0.49	983.19	612788.41	604891.81	32°39'45.645"N	104°06'04.149"W	0.00	
8786.00†	89.747	90.029	7794.51	1083.19	-0.54	1083.19	612888.40	604891.76	32°39'45.642"N	104°06'02.979"W	0.00	
8886.00†	89.747	90.029	7794.96	1183.19	-0.59	1183.19	612988.39	604891.71	32°39'45.639"N	104°06'01.810"W	0.00	
8986.00†	89.747	90.029	7795.40	1283.19	-0.64	1283.19	613088.38	604891.66	32°39'45.637"N	104°06'00.640"W	0.00	
9086.00†	89.747	90.029	7795.84	1383.19	-0.69	1383.19	613188.37	604891.61	32°39'45.634"N	104°05'59.470"W	0.00	
9186.00†	89.747	90.029	7796.28	1483.19	-0.74	1483.19	613288.36	604891.56	32°39'45.631"N	104°05'58.301"W	0.00	
9286.00†	89.747	90.029	7796.73	1583.19	-0.79	1583.19	613388.35	604891.51	32°39'45.629"N	104°05'57.131"W	0.00	
9386.00†	89.747	90.029	7797.17	1683.18	-0.84	1683.18	613488.34	604891.46	32°39'45.626"N	104°05'55.961"W	0.00	
9486.00†	89.747	90.029	7797.61	1783.18	-0.89	1783.18	613588.33	604891.41	32°39'45.623"N	104°05'54.791"W	0.00	
9586.00†	89.747	90.029	7798.05	1883.18	-0.94	1883.18	613688.32	604891.36	32°39'45.621"N	104°05'53.622"W	0.00	
9686.00†	89.747	90.029	7798.49	1983.18	-0.99	1983.18	613788.31	604891.31	32°39'45.618"N	104°05'52.452"W	0.00	
9786.00†	89.747	90.029	7798.94	2083.18	-1.05	2083.18	613888.30	604891.25	32°39'45.615"N	104°05'51.282"W	0.00	
9886.00†	89.747	90.029	7799.38	2183.18	-1.10	2183.18	613988.29	604891.20	32°39'45.613"N	104°05'50.113"W	0.00	
9986.00†	89.747	90.029	7799.82	2283.18	-1.15	2283.18	614088.28	604891.15	32°39'45.610"N	104°05'48.943"W	0.00	
10086.00†	89.747	90.029	7800.26	2383.18	-1.20	2383.18	614188.27	604891.10	32°39'45.607"N	104°05'47.773"W	0.00	
10186.00†	89.747	90.029	7800.71	2483.18	-1.25	2483.18	614288.26	604891.05	32°39'45.604"N	104°05'46.603"W	0.00	
10286.00†	89.747	90.029	7801.15	2583.18	-1.30	2583.18	614388.25	604891.00	32°39'45.602"N	104°05'45.434"W	0.00	



Planned Wellpath Report

Prelim_1
Page 3 of 4



REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No. 3H SHL
Area	Eddy County, NM	Well	No. 3H
Field	Parkway	Wellbore	No. 3H PWB
Facility	Parkway State 17 No. 3H		

WELLPATH DATA (51 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
10386.00†	89.747	90.029	7801.59	2683.17	-1.35	2683.17	614488.24	604890.95	32°39'45.599"N	104°05'44.264"W	0.00	
10486.00†	89.747	90.029	7802.03	2783.17	-1.40	2783.17	614588.23	604890.90	32°39'45.596"N	104°05'43.094"W	0.00	
10586.00†	89.747	90.029	7802.47	2883.17	-1.45	2883.17	614688.22	604890.85	32°39'45.594"N	104°05'41.925"W	0.00	
10686.00†	89.747	90.029	7802.92	2983.17	-1.50	2983.17	614788.21	604890.80	32°39'45.591"N	104°05'40.755"W	0.00	
10786.00†	89.747	90.029	7803.36	3083.17	-1.55	3083.17	614888.20	604890.75	32°39'45.588"N	104°05'39.585"W	0.00	
10886.00†	89.747	90.029	7803.80	3183.17	-1.60	3183.17	614988.19	604890.70	32°39'45.585"N	104°05'38.416"W	0.00	
10986.00†	89.747	90.029	7804.24	3283.17	-1.65	3283.17	615088.18	604890.65	32°39'45.583"N	104°05'37.246"W	0.00	
11086.00†	89.747	90.029	7804.69	3383.17	-1.70	3383.17	615188.17	604890.60	32°39'45.580"N	104°05'36.076"W	0.00	
11186.00†	89.747	90.029	7805.13	3483.17	-1.75	3483.17	615288.16	604890.55	32°39'45.577"N	104°05'34.906"W	0.00	
11286.00†	89.747	90.029	7805.57	3583.17	-1.80	3583.17	615388.15	604890.50	32°39'45.575"N	104°05'33.737"W	0.00	
11386.00†	89.747	90.029	7806.01	3683.17	-1.85	3683.16	615488.14	604890.45	32°39'45.572"N	104°05'32.567"W	0.00	
11486.00†	89.747	90.029	7806.45	3783.16	-1.90	3783.16	615588.13	604890.40	32°39'45.569"N	104°05'31.397"W	0.00	
11586.00†	89.747	90.029	7806.90	3883.16	-1.95	3883.16	615688.12	604890.35	32°39'45.566"N	104°05'30.228"W	0.00	
11686.00†	89.747	90.029	7807.34	3983.16	-2.00	3983.16	615788.11	604890.30	32°39'45.564"N	104°05'29.058"W	0.00	
11786.00†	89.747	90.029	7807.78	4083.16	-2.05	4083.16	615888.10	604890.25	32°39'45.561"N	104°05'27.888"W	0.00	
11886.00†	89.747	90.029	7808.22	4183.16	-2.10	4183.16	615988.09	604890.20	32°39'45.558"N	104°05'26.719"W	0.00	
11986.00†	89.747	90.029	7808.67	4283.16	-2.15	4283.16	616088.09	604890.15	32°39'45.555"N	104°05'25.549"W	0.00	
12086.00†	89.747	90.029	7809.11	4383.16	-2.20	4383.16	616188.08	604890.10	32°39'45.553"N	104°05'24.379"W	0.00	
12186.00†	89.747	90.029	7809.55	4483.16	-2.25	4483.16	616288.07	604890.05	32°39'45.550"N	104°05'23.209"W	0.00	
12286.00†	89.747	90.029	7809.99	4583.16	-2.30	4583.16	616388.06	604890.00	32°39'45.547"N	104°05'22.040"W	0.00	
12287.68	89.747	90.029	7810.00†	4584.84	-2.30	4584.84	616389.74	604890.00	32°39'45.547"N	104°05'22.020"W	0.00	No. 3H PBHL



Planned Wellpath Report

Prelim_1

Page 4 of 4



REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No. 3H SHL
Area	Eddy County, NM	Well	No. 3H
Field	Parkway	Wellbore	No. 3H PWB
Facility	Parkway State 17 No. 3H		

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
1) 17 No. 3H PBHL	12287.68	7810.00	-2.30	4584.84	616389.74	604890.00	32°39'45.547"N	104°05'22.020"W	point

SURVEY PROGRAM Ref Wellbore: No. 3H PWB Ref Wellpath: Prelim_1

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	12287.68	NaviTrak (Standard)		No. 3H PWB

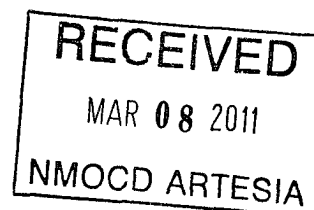


Cimarex Energy Co. of Colorado

600 N. Marienfeld St. ♦ Suite 400 ♦ Midland, TX 79701 ♦ (432) 571-7800 ♦ Fax (432) 620-1940
A subsidiary of Cimarex Energy Co. • A NYSE Listed Company • "XEC"

August 11, 2010

Oil Conservation Division
District II Office
1301 W. Grand Ave.
Artesia, New Mexico 88210
Attn: Ms. Linda Bratcher



Re: Statewide Rule 118
Hydrogen Sulfide Gas Contingency Plan
Proposed Parkway State 17 Com No. 3 Well

Dear Ms. Bratcher:

In accordance with NMAC 19.15.3.118 C. (1) governing the determination of the hydrogen sulfide concentration in gaseous mixtures in each of its operations, Cimarex Energy Co. of Colorado does not anticipate that there will be enough H₂S from the surface to the Bone Spring formations to meet the OCD's minimum requirements for the submission of a contingency plan for the drilling and completion of the following test(s):

Parkway State 17 Com No. 3
17-19S-29E
SHL 1980 FNL & 375 FWL
BHL 1980 FNL & 330 FEL
Eddy County, NM

If anything further is needed regarding this issue, or if you have any questions, please feel free to contact the undersigned at 432-620-1938.

Yours truly,

Zeno Farris
Manager Operations Administration