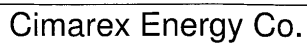


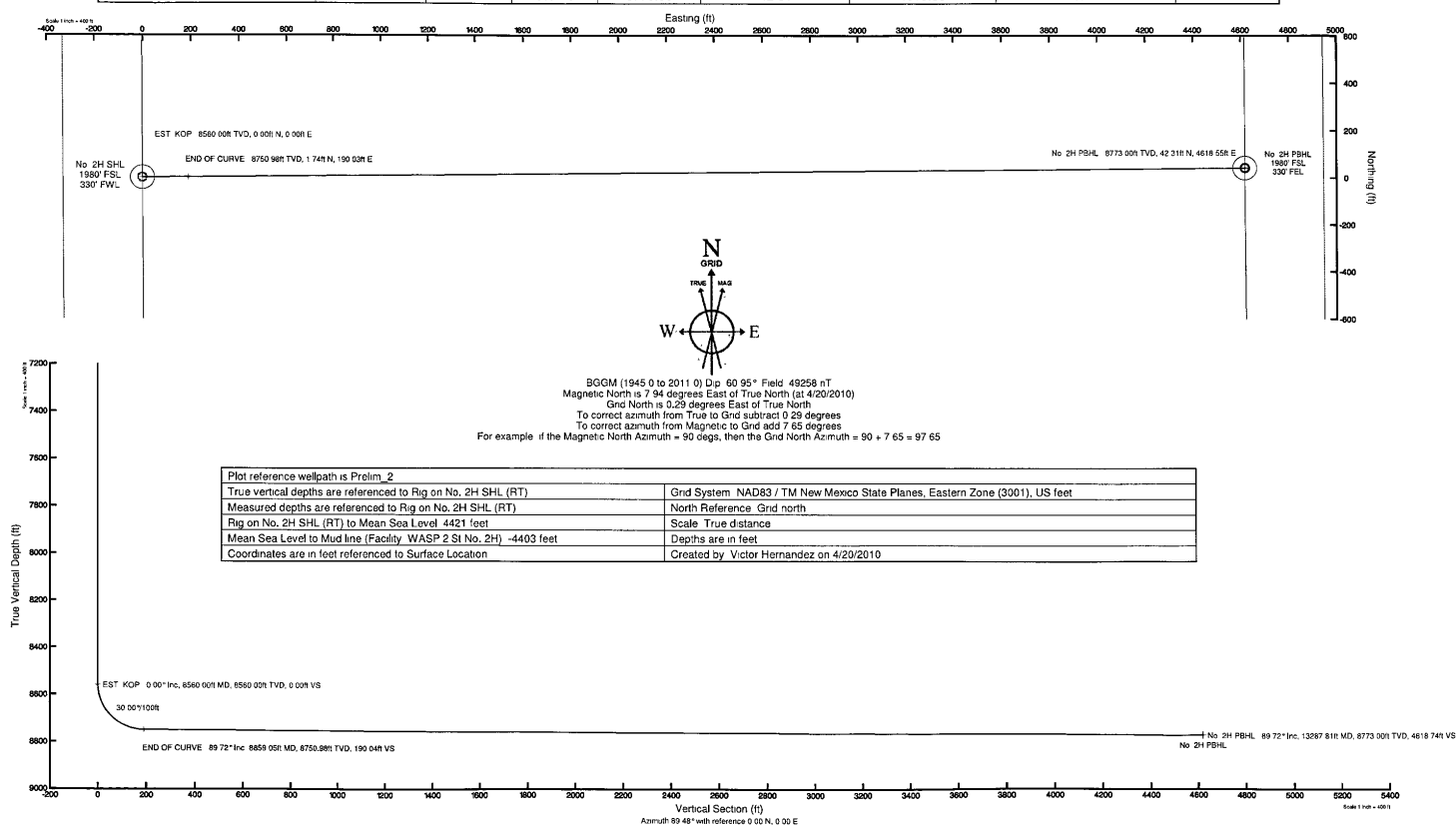
HOBBSOC



Slot	No	2H SHL
Well	No	2H
Wellbore	No	2H 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	89.475	0.00	0.00	0.00	0.00	0.00
EST. KOP	8560.00	0.000	89.475	8560.00	0.00	0.00	0.00	0.00
END OF CURVE	8859.05	89.715	89.475	8750.98	1.74	190.03	30.00	190.04
No. 2H PBHL	13287.81	89.715	89.475	8773.00	42.31	4618.55	0.00	4618.74





Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No. 2H SHL
Area	Chaves County, NM	Well	No. 2H
Field	(WASP) Sec 2, T15S, R31E	Wellbore	No. 2H PWB
Facility	WASP 2 St No. 2H		

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	0.99994	Report Generated	4/20/2010 at 2:18:57 PM
Convergence at slot	0.29° East	Database/Source file	WA_Midland/No. 2H_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	704808.80	743648.50	33°02'35.319"N	103°47'59.501"W
Facility Reference Pt			704808.80	743648.50	33°02'35.319"N	103°47'59.501"W
Field Reference Pt			704819.20	742043.80	33°02'19.441"N	103°47'59.475"W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on No. 2H SHL (RT) to GL	18.00ft
Horizontal Reference Pt	Surface Location	Rig on No. 2H SHL (RT) to Mean Sea Level	4421.00ft
Vertical Reference Pt	Rig on No. 2H SHL (RT)	GL to Mud Line (Facility)	0.00ft
MD Reference Pt	Rig on No. 2H SHL (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	89.48°



Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No. 2H SHL
Area	Chaves County, NM	Well	No. 2H
Field	(WASP) Sec 2, T15S, R31E	Wellbore	No. 2H PWB
Facility	WASP 2 St No. 2H		

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	89.475	0.00	0.00	0.00	0.00	704808.80	743648.50	33°02'35.319"N	103°47'59.501"W	0.00	Tie On
8560.00	0.000	89.475	8560.00	0.00	0.00	0.00	704808.80	743648.50	33°02'35.319"N	103°47'59.501"W	0.00	EST. KOP
8660.00†	30.000	89.475	8655.49	25.59	0.23	25.59	704834.38	743648.73	33°02'35.320"N	103°47'59.200"W	30.00	
8760.00†	60.000	89.475	8725.40	95.49	0.87	95.49	704904.28	743649.37	33°02'35.323"N	103°47'58.379"W	30.00	
8859.05†	89.715	89.475	8750.98	190.04	1.74	190.03	704998.82	743650.24	33°02'35.327"N	103°47'57.269"W	30.00	END OF CURVE
8860.00†	89.715	89.475	8750.99	190.99	1.75	190.98	704999.77	743650.25	33°02'35.327"N	103°47'57.258"W	0.00	
8960.00†	89.715	89.475	8751.49	290.98	2.67	290.97	705099.75	743651.17	33°02'35.331"N	103°47'56.083"W	0.00	
9060.00†	89.715	89.475	8751.98	390.98	3.58	390.97	705199.74	743652.08	33°02'35.335"N	103°47'54.908"W	0.00	
9160.00†	89.715	89.475	8752.48	490.98	4.50	490.96	705299.73	743653.00	33°02'35.339"N	103°47'53.733"W	0.00	
9260.00†	89.715	89.475	8752.98	590.98	5.41	590.96	705399.72	743653.91	33°02'35.343"N	103°47'52.559"W	0.00	
9360.00†	89.715	89.475	8753.47	690.98	6.33	690.95	705499.71	743654.83	33°02'35.347"N	103°47'51.384"W	0.00	
9460.00†	89.715	89.475	8753.97	790.98	7.25	790.95	705599.70	743655.75	33°02'35.351"N	103°47'50.209"W	0.00	
9560.00†	89.715	89.475	8754.47	890.98	8.16	890.94	705699.68	743656.66	33°02'35.355"N	103°47'49.035"W	0.00	
9660.00†	89.715	89.475	8754.97	990.98	9.08	990.93	705799.67	743657.58	33°02'35.359"N	103°47'47.860"W	0.00	
9760.00†	89.715	89.475	8755.46	1090.97	9.99	1090.93	705899.66	743658.49	33°02'35.363"N	103°47'46.685"W	0.00	
9860.00†	89.715	89.475	8755.96	1190.97	10.91	1190.92	705999.65	743659.41	33°02'35.367"N	103°47'45.511"W	0.00	
9960.00†	89.715	89.475	8756.46	1290.97	11.83	1290.92	706099.64	743660.33	33°02'35.371"N	103°47'44.336"W	0.00	
10060.00†	89.715	89.475	8756.95	1390.97	12.74	1390.91	706199.63	743661.24	33°02'35.375"N	103°47'43.161"W	0.00	
10160.00†	89.715	89.475	8757.45	1490.97	13.66	1490.91	706299.61	743662.16	33°02'35.379"N	103°47'41.986"W	0.00	
10260.00†	89.715	89.475	8757.95	1590.97	14.57	1590.90	706399.60	743663.07	33°02'35.383"N	103°47'40.812"W	0.00	
10360.00†	89.715	89.475	8758.45	1690.97	15.49	1690.90	706499.59	743663.99	33°02'35.387"N	103°47'39.637"W	0.00	
10460.00†	89.715	89.475	8758.94	1790.97	16.41	1790.89	706599.58	743664.91	33°02'35.391"N	103°47'38.462"W	0.00	
10560.00†	89.715	89.475	8759.44	1890.96	17.32	1890.89	706699.57	743665.82	33°02'35.395"N	103°47'37.288"W	0.00	
10660.00†	89.715	89.475	8759.94	1990.96	18.24	1990.88	706799.56	743666.74	33°02'35.399"N	103°47'36.113"W	0.00	
10760.00†	89.715	89.475	8760.43	2090.96	19.16	2090.87	706899.54	743667.65	33°02'35.403"N	103°47'34.938"W	0.00	
10860.00†	89.715	89.475	8760.93	2190.96	20.07	2190.87	706999.53	743668.57	33°02'35.407"N	103°47'33.764"W	0.00	
10960.00†	89.715	89.475	8761.43	2290.96	20.99	2290.86	707099.52	743669.49	33°02'35.411"N	103°47'32.589"W	0.00	
11060.00†	89.715	89.475	8761.93	2390.96	21.90	2390.86	707199.51	743670.40	33°02'35.415"N	103°47'31.414"W	0.00	
11160.00†	89.715	89.475	8762.42	2490.96	22.82	2490.85	707299.50	743671.32	33°02'35.419"N	103°47'30.240"W	0.00	
11260.00†	89.715	89.475	8762.92	2590.96	23.74	2590.85	707399.49	743672.23	33°02'35.423"N	103°47'29.065"W	0.00	



Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No. 2H SHL
Area	Chaves County, NM	Well	No. 2H
Field	(WASP) Sec 2, T15S, R31E	Wellbore	No. 2H PWB
Facility	WASP 2 St No. 2H		

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
11360.00†	89.715	89.475	8763.42	2690.96	24.65	2690.84	707499.47	743673.15	33°02'35.427"N		103°47'27.890"W	0.00	
11460.00†	89.715	89.475	8763.91	2790.95	25.57	2790.84	707599.46	743674.07	33°02'35.431"N		103°47'26.715"W	0.00	
11560.00†	89.715	89.475	8764.41	2890.95	26.48	2890.83	707699.45	743674.98	33°02'35.435"N		103°47'25.541"W	0.00	
11660.00†	89.715	89.475	8764.91	2990.95	27.40	2990.83	707799.44	743675.90	33°02'35.439"N		103°47'24.366"W	0.00	
11760.00†	89.715	89.475	8765.40	3090.95	28.32	3090.82	707899.43	743676.81	33°02'35.443"N		103°47'23.191"W	0.00	
11860.00†	89.715	89.475	8765.90	3190.95	29.23	3190.81	707999.42	743677.73	33°02'35.447"N		103°47'22.017"W	0.00	
11960.00†	89.715	89.475	8766.40	3290.95	30.15	3290.81	708099.40	743678.65	33°02'35.451"N		103°47'20.842"W	0.00	
12060.00†	89.715	89.475	8766.90	3390.95	31.06	3390.80	708199.39	743679.56	33°02'35.455"N		103°47'19.667"W	0.00	
12160.00†	89.715	89.475	8767.39	3490.95	31.98	3490.80	708299.38	743680.48	33°02'35.459"N		103°47'18.493"W	0.00	
12260.00†	89.715	89.475	8767.89	3590.94	32.90	3590.79	708399.37	743681.39	33°02'35.463"N		103°47'17.318"W	0.00	
12360.00†	89.715	89.475	8768.39	3690.94	33.81	3690.79	708499.36	743682.31	33°02'35.466"N		103°47'16.143"W	0.00	
12460.00†	89.715	89.475	8768.88	3790.94	34.73	3790.78	708599.35	743683.23	33°02'35.470"N		103°47'14.968"W	0.00	
12560.00†	89.715	89.475	8769.38	3890.94	35.65	3890.78	708699.33	743684.14	33°02'35.474"N		103°47'13.794"W	0.00	
12660.00†	89.715	89.475	8769.88	3990.94	36.56	3990.77	708799.32	743685.06	33°02'35.478"N		103°47'12.619"W	0.00	
12760.00†	89.715	89.475	8770.38	4090.94	37.48	4090.77	708899.31	743685.98	33°02'35.482"N		103°47'11.444"W	0.00	
12860.00†	89.715	89.475	8770.87	4190.94	38.39	4190.76	708999.30	743686.89	33°02'35.486"N		103°47'10.270"W	0.00	
12960.00†	89.715	89.475	8771.37	4290.94	39.31	4290.76	709099.29	743687.81	33°02'35.490"N		103°47'09.095"W	0.00	
13060.00†	89.715	89.475	8771.87	4390.93	40.23	4390.75	709199.28	743688.72	33°02'35.494"N		103°47'07.920"W	0.00	
13160.00†	89.715	89.475	8772.36	4490.93	41.14	4490.74	709299.26	743689.64	33°02'35.498"N		103°47'06.746"W	0.00	
13260.00†	89.715	89.475	8772.86	4590.93	42.06	4590.74	709399.25	743690.56	33°02'35.502"N		103°47'05.571"W	0.00	
13287.81	89.715	89.475	8773.00†	4618.74	42.31	4618.55	709427.06	743690.81	33°02'35.503"N		103°47'05.244"W	0.00	No. 2H PBHL



Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No. 2H SHL
Area	Chaves County, NM	Well	No. 2H
Field	(WASP) Sec 2, T15S, R31E	Wellbore	No. 2H PWB
Facility	WASP 2 St No. 2H		

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
1) No. 2H PBHL	13287.81	8773.00	42.31	4618.55	709427.06	743690.81	33°02'35.503"N	103°47'05.244"W	point

SURVEY PROGRAM Ref Wellbore: No. 2H PWB Ref Wellpath: Prelim_2				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
18.00	13287.81	NaviTrak (Standard)		No. 2H PWB