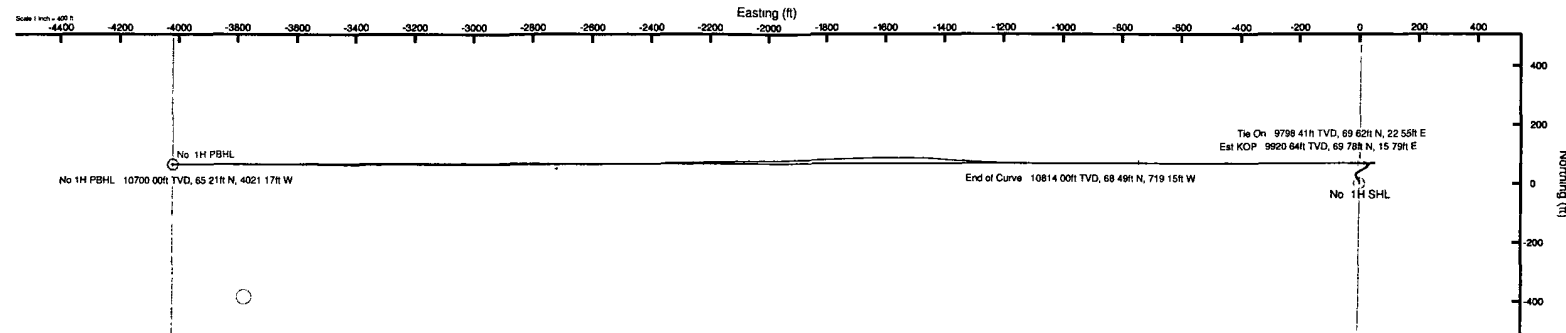
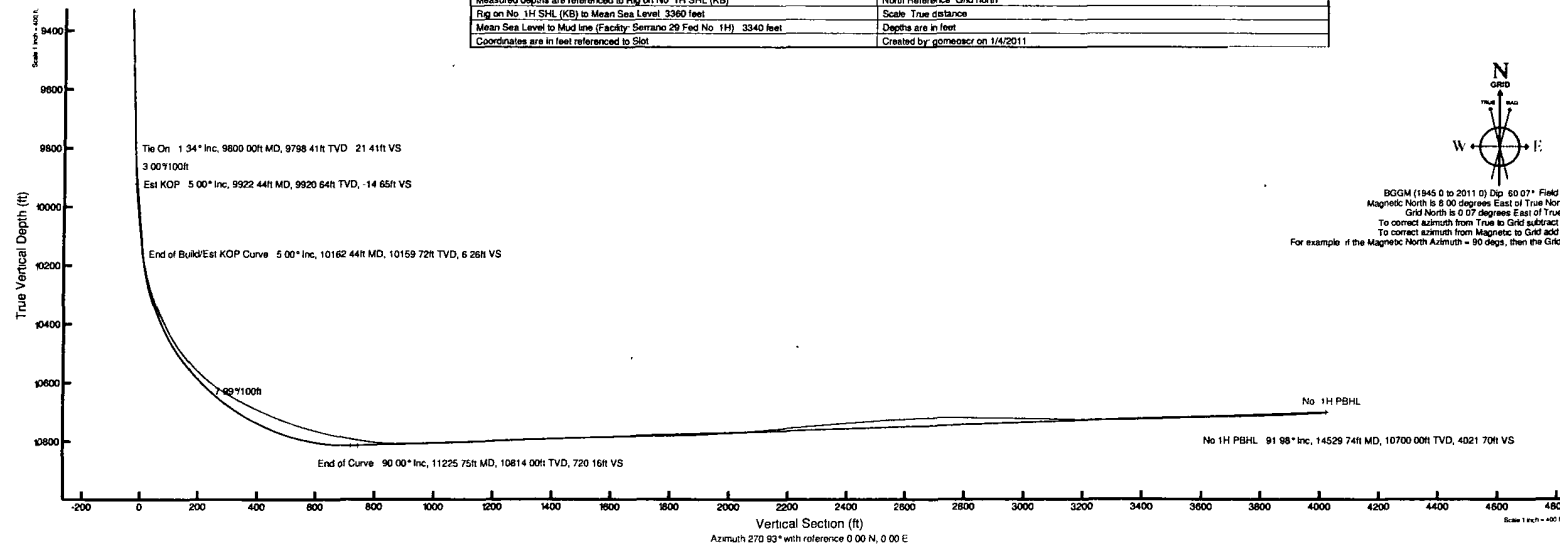


Well Profile Data							
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)
Tie On	9800.00	1.340	276.770	9798.41	69.62	22.55	0.18
Est KOP	9922.44	5.000	269.900	9920.64	69.78	15.79	3.00
End of Build/Est KOP Curve	10162.44	5.000	269.900	10159.72	69.74	-5.13	0.00
End of Curve	11225.75	90.000	269.900	10814.00	68.49	-719.15	7.99
EOB	11250.56	91.985	269.943	10813.57	68.46	-743.96	8.00
No 1H PBHL	14529.74	91.985	269.943	10700.00	65.21	-4021.17	0.00



Plot reference wellpath as Plan #1	
True vertical depths are referenced to Rig on No. 1H SHL (KB)	Grid System: NAD83 / TM New Mexico State Planes, Eastern Zone (3001), US feet
Measured depths are referenced to Rig on No. 1H SHL (KB)	North Reference: Grid north
Rig on No. 1H SHL (KB) to Mean Sea Level: 3360 feet	Scale: True distance
Mean Sea Level to Mud line (Facility: Serrano 29 Fed No. 1H): 3340 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: gomeoscr on 1/4/2011



N
Grid
True
Magnetic

W E

BGGM (1945.0 to 2011.0) Dip: 60.07° Field: 45660.3 nT
Magnetic North is 8.00 degrees East of True North (at 9/17/2010)
Grid North is 0.07 degrees East of True North
To correct azimuth from True to Grid subtract 0.07 degrees
To correct azimuth from Magnetic to Grid add 7.93 degrees
For example if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 7.93 = 97.93



Actual Wellpath Report

No. 1H AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	Devon Energy	Slot	No. 1H SHL
Area	Eddy County, NM	Well	No. 1H
Field	(Serrano) Sec 29, T24S, R27E	Wellbore	No. 1H AWB
Facility	Serrano 29 Fed No. 1H		

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	Gomeoscr
Scale	0.999911	Report Generated	1/4/2011 at 8:27:31 AM
Convergence at slot	0.07° East	Database/Source file	WA Midland/No. 1H_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	580665.60	432863.80	32°11'23.842"N	104°12'22.323"W
Facility Reference Pt			580665.60	432863.80	32°11'23.842"N	104°12'22.323"W
Field Reference Pt			580665.60	432863.80	32°11'23.842"N	104°12'22.323"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Rig on No. 1H SHL (KB) to Facility Vertical Datum	20.00ft
Horizontal Reference Pt	Slot	Rig on No. 1H SHL (KB) to Mean Sea Level	3360.00ft
Vertical Reference Pt	Rig on No. 1H SHL (KB)	Facility Vertical Datum to Mud Line (Facility)	0.00ft
MD Reference Pt	Rig on No. 1H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	270.93°

30-015-37743



Actual Wellpath Report

No. 1H AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	Devon Energy	Slot	No. 1H SHL
Area	Eddy County, NM	Well	No. 1H
Field	(Serrano) Sec 29, T24S, R27E	Wellbore	No. 1H AWB
Facility	Serrano 29 Fed No. 1H		

WELLPATH DATA (186 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	25.380	0.00	0.00	0.00	0.00	580665.60	432863.80	32°11'23.842"N	104°12'22.323"W	0.00	
20.00	0.000	25.380	20.00	0.00	0.00	0.00	580665.60	432863.80	32°11'23.842"N	104°12'22.323"W	0.00	
100.00	0.130	25.380	100.00	-0.04	0.08	0.04	580665.64	432863.88	32°11'23.843"N	104°12'22.323"W	0.16	
200.00	0.380	18.750	200.00	-0.19	0.50	0.19	580665.79	432864.30	32°11'23.847"N	104°12'22.321"W	0.25	
300.00	0.560	16.980	300.00	-0.42	1.28	0.44	580666.04	432865.08	32°11'23.855"N	104°12'22.318"W	0.18	
400.00	0.740	5.990	399.99	-0.61	2.39	0.65	580666.25	432866.19	32°11'23.866"N	104°12'22.315"W	0.22	
500.00	0.940	348.930	499.98	-0.50	3.84	0.56	580666.16	432867.64	32°11'23.880"N	104°12'22.316"W	0.32	
600.00	1.270	337.520	599.96	0.11	5.67	-0.02	580665.58	432869.47	32°11'23.898"N	104°12'22.323"W	0.40	
700.00	1.520	336.520	699.93	1.10	7.91	-0.97	580664.63	432871.71	32°11'23.920"N	104°12'22.334"W	0.25	
800.00	1.590	335.860	799.89	2.23	10.39	-2.07	580663.53	432874.19	32°11'23.945"N	104°12'22.347"W	0.07	
900.00	1.830	330.210	899.85	3.64	13.04	-3.43	580662.17	432876.84	32°11'23.971"N	104°12'22.363"W	0.29	
1000.00	1.920	326.380	999.80	5.40	15.82	-5.15	580660.45	432879.62	32°11'23.999"N	104°12'22.383"W	0.15	
1100.00	1.960	327.970	1099.74	7.28	18.67	-6.98	580658.62	432882.46	32°11'24.027"N	104°12'22.404"W	0.07	
1200.00	1.940	328.120	1199.68	9.13	21.55	-8.78	580656.82	432885.35	32°11'24.056"N	104°12'22.425"W	0.02	
1300.00	1.900	329.720	1299.62	10.91	24.42	-10.51	580655.09	432888.22	32°11'24.084"N	104°12'22.445"W	0.07	
1400.00	1.600	350.680	1399.58	12.01	27.23	-11.57	580654.03	432891.03	32°11'24.112"N	104°12'22.457"W	0.70	
1500.00	1.620	16.250	1499.54	11.89	29.97	-11.41	580654.20	432893.76	32°11'24.139"N	104°12'22.455"W	0.71	
1600.00	1.730	25.680	1599.50	10.88	32.68	-10.36	580655.25	432896.48	32°11'24.166"N	104°12'22.443"W	0.30	
1700.00	1.930	43.550	1699.45	9.11	35.26	-8.54	580657.06	432899.06	32°11'24.191"N	104°12'22.422"W	0.60	
1800.00	2.190	52.680	1799.38	6.47	37.64	-5.86	580659.74	432901.44	32°11'24.215"N	104°12'22.391"W	0.42	
1900.00	2.430	59.110	1899.30	3.17	39.89	-2.52	580663.08	432903.69	32°11'24.237"N	104°12'22.352"W	0.35	
2000.00	2.570	61.580	1999.21	-0.59	42.05	1.27	580666.87	432905.84	32°11'24.258"N	104°12'22.308"W	0.18	
2100.00	2.510	61.290	2099.11	-4.44	44.16	5.16	580670.76	432907.96	32°11'24.279"N	104°12'22.262"W	0.06	
2200.00	2.060	61.660	2199.03	-7.92	46.07	8.66	580674.26	432909.87	32°11'24.298"N	104°12'22.222"W	0.45	
2300.00	1.570	59.090	2298.98	-10.65	47.63	11.42	580677.02	432911.42	32°11'24.313"N	104°12'22.190"W	0.50	
2400.00	1.380	57.630	2398.94	-12.82	48.97	13.61	580679.21	432912.77	32°11'24.327"N	104°12'22.164"W	0.19	
2500.00	1.360	59.820	2498.92	-14.84	50.22	15.66	580681.25	432914.01	32°11'24.339"N	104°12'22.140"W	0.06	
2600.00	1.280	58.420	2598.89	-16.80	51.40	17.63	580683.23	432915.19	32°11'24.351"N	104°12'22.117"W	0.09	
2700.00	0.950	55.890	2698.87	-18.42	52.45	19.27	580684.87	432916.24	32°11'24.361"N	104°12'22.098"W	0.33	
2800.00	0.890	57.380	2798.86	-19.74	53.33	20.61	580686.21	432917.13	32°11'24.370"N	104°12'22.082"W	0.06	
2900.00	0.890	52.990	2898.85	-21.00	54.22	21.89	580687.48	432918.01	32°11'24.378"N	104°12'22.068"W	0.07	
3000.00	0.590	46.760	2998.84	-21.99	55.04	22.88	580688.48	432918.83	32°11'24.387"N	104°12'22.056"W	0.31	
3100.00	0.610	47.670	3098.83	-22.74	55.75	23.65	580689.25	432919.54	32°11'24.394"N	104°12'22.047"W	0.02	
3200.00	0.610	42.500	3198.83	-23.48	56.50	24.40	580690.00	432920.29	32°11'24.401"N	104°12'22.038"W	0.06	
3300.00	0.520	36.810	3298.82	-24.10	57.25	25.03	580690.63	432921.05	32°11'24.408"N	104°12'22.031"W	0.11	
3400.00	0.490	39.010	3398.82	-24.63	57.95	25.58	580691.17	432921.75	32°11'24.415"N	104°12'22.025"W	0.04	
3500.00	0.520	41.750	3498.81	-25.19	58.62	26.15	580691.74	432922.42	32°11'24.422"N	104°12'22.018"W	0.04	
3600.00	0.480	39.510	3598.81	-25.75	59.28	26.72	580692.31	432923.08	32°11'24.429"N	104°12'22.011"W	0.04	
3700.00	0.470	43.700	3698.81	-26.29	59.90	27.27	580692.86	432923.70	32°11'24.435"N	104°12'22.005"W	0.04	
3800.00	0.580	40.720	3798.80	-26.89	60.58	27.88	580693.48	432924.38	32°11'24.441"N	104°12'21.998"W	0.11	
3900.00	0.440	37.540	3898.80	-27.45	61.27	28.44	580694.04	432925.07	32°11'24.448"N	104°12'21.991"W	0.14	
4000.00	0.390	40.040	3998.80	-27.89	61.84	28.90	580694.49	432925.63	32°11'24.454"N	104°12'21.986"W	0.05	
4100.00	0.430	48.530	4098.79	-28.38	62.34	29.40	580694.99	432926.14	32°11'24.459"N	104°12'21.980"W	0.07	
4200.00	0.420	40.930	4198.79	-28.89	62.87	29.92	580695.51	432926.66	32°11'24.464"N	104°12'21.974"W	0.06	
4300.00	0.380	39.000	4298.79	-29.33	63.40	30.37	580695.96	432927.20	32°11'24.469"N	104°12'21.969"W	0.04	



Actual Wellpath Report

No. 1H AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	Devon Energy	Slot	No. 1H SHL
Area	Eddy County, NM	Well	No. 1H
Field	(Serrano) Sec 29, T24S, R27E	Wellbore	No. 1H AWB
Facility	Serrano 29 Fed No. 1H		

WELLPATH DATA (186 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
4400.00	0.400	42.000	4398.79	-29.77	63.92	30.81	580696.41	432927.72	32°11'24.474"N	104°12'21.964"W	0.03	
4500.00	0.470	50.720	4498.78	-30.31	64.44	31.36	580696.96	432928.24	32°11'24.479"N	104°12'21.957"W	0.10	
4600.00	0.520	41.670	4598.78	-30.92	65.04	31.98	580697.58	432928.83	32°11'24.485"N	104°12'21.950"W	0.09	
4700.00	0.530	44.680	4698.77	-31.54	65.71	32.61	580698.20	432929.50	32°11'24.492"N	104°12'21.943"W	0.03	
4800.00	0.590	46.700	4798.77	-32.22	66.39	33.31	580698.90	432930.18	32°11'24.499"N	104°12'21.935"W	0.06	
4900.00	0.570	42.930	4898.76	-32.93	67.11	34.02	580699.62	432930.90	32°11'24.506"N	104°12'21.926"W	0.04	
5000.00	0.500	53.390	4998.76	-33.61	67.73	34.71	580700.30	432931.53	32°11'24.512"N	104°12'21.918"W	0.12	
5100.00	0.620	54.710	5098.76	-34.39	68.30	35.50	580701.10	432932.10	32°11'24.518"N	104°12'21.909"W	0.12	
5200.00	0.520	54.470	5198.75	-35.19	68.88	36.31	580701.91	432932.67	32°11'24.523"N	104°12'21.900"W	0.10	
5300.00	0.460	68.330	5298.75	-35.92	69.29	37.05	580702.65	432933.09	32°11'24.527"N	104°12'21.891"W	0.13	
5400.00	0.440	68.510	5398.74	-36.65	69.58	37.78	580703.38	432933.37	32°11'24.530"N	104°12'21.882"W	0.02	
5500.00	0.380	78.200	5498.74	-37.33	69.79	38.47	580704.06	432933.58	32°11'24.532"N	104°12'21.875"W	0.09	
5600.00	0.430	71.130	5598.74	-38.00	69.98	39.14	580704.74	432933.77	32°11'24.534"N	104°12'21.867"W	0.07	
5700.00	0.340	83.410	5698.74	-38.65	70.13	39.79	580705.39	432933.93	32°11'24.536"N	104°12'21.859"W	0.12	
5800.00	0.380	86.270	5798.73	-39.28	70.19	40.42	580706.02	432933.98	32°11'24.536"N	104°12'21.852"W	0.04	
5900.00	0.290	93.690	5898.73	-39.86	70.20	41.00	580706.60	432933.99	32°11'24.536"N	104°12'21.845"W	0.10	
6000.00	0.470	102.140	5998.73	-40.52	70.09	41.66	580707.25	432933.89	32°11'24.535"N	104°12'21.837"W	0.19	
6100.00	0.430	97.090	6098.73	-41.29	69.96	42.43	580708.03	432933.75	32°11'24.534"N	104°12'21.828"W	0.06	
6200.00	0.420	107.140	6198.72	-42.02	69.81	43.15	580708.75	432933.60	32°11'24.532"N	104°12'21.820"W	0.08	
6300.00	0.540	108.340	6298.72	-42.82	69.55	43.95	580709.55	432933.34	32°11'24.530"N	104°12'21.811"W	0.12	
6400.00	0.480	110.400	6398.72	-43.66	69.26	44.79	580710.39	432933.05	32°11'24.527"N	104°12'21.801"W	0.06	
6500.00	0.530	112.770	6498.71	-44.49	68.93	45.61	580711.21	432932.72	32°11'24.524"N	104°12'21.791"W	0.05	
6600.00	0.470	112.190	6598.71	-45.30	68.60	46.42	580712.01	432932.39	32°11'24.520"N	104°12'21.782"W	0.06	
6700.00	0.480	103.790	6698.71	-46.09	68.34	47.20	580712.80	432932.14	32°11'24.518"N	104°12'21.773"W	0.07	
6800.00	0.210	113.610	6798.70	-46.67	68.17	47.78	580713.37	432931.96	32°11'24.516"N	104°12'21.766"W	0.28	
6900.00	0.080	77.610	6898.70	-46.90	68.11	48.01	580713.61	432931.90	32°11'24.516"N	104°12'21.763"W	0.15	
7000.00	0.110	82.690	6998.70	-47.07	68.14	48.18	580713.77	432931.93	32°11'24.516"N	104°12'21.762"W	0.03	
7100.00	0.110	46.490	7098.70	-47.23	68.22	48.34	580713.94	432932.01	32°11'24.517"N	104°12'21.760"W	0.07	
7200.00	0.420	59.720	7198.70	-47.61	68.47	48.73	580714.32	432932.26	32°11'24.519"N	104°12'21.755"W	0.31	
7300.00	0.390	61.640	7298.70	-48.22	68.81	49.34	580714.94	432932.61	32°11'24.523"N	104°12'21.748"W	0.03	
7400.00	0.400	61.940	7398.70	-48.82	69.14	49.95	580715.55	432932.93	32°11'24.526"N	104°12'21.741"W	0.01	
7500.00	0.170	41.890	7498.70	-49.23	69.41	50.36	580715.95	432933.21	32°11'24.528"N	104°12'21.736"W	0.25	
7600.00	0.180	35.210	7598.70	-49.41	69.65	50.55	580716.14	432933.45	32°11'24.531"N	104°12'21.734"W	0.02	
7700.00	0.150	9.990	7698.70	-49.52	69.91	50.66	580716.26	432933.70	32°11'24.533"N	104°12'21.733"W	0.08	
7800.00	0.140	309.360	7798.70	-49.45	70.12	50.59	580716.18	432933.91	32°11'24.535"N	104°12'21.733"W	0.15	
7900.00	0.150	357.670	7898.69	-49.34	70.32	50.49	580716.09	432934.12	32°11'24.537"N	104°12'21.735"W	0.12	
8000.00	0.210	333.570	7998.69	-49.25	70.62	50.40	580716.00	432934.41	32°11'24.540"N	104°12'21.736"W	0.10	
8100.00	0.250	302.130	8098.69	-48.98	70.90	50.14	580715.73	432934.69	32°11'24.543"N	104°12'21.739"W	0.13	
8200.00	0.150	304.820	8198.69	-48.69	71.09	49.84	580715.44	432934.88	32°11'24.545"N	104°12'21.742"W	0.10	
8300.00	0.220	304.010	8298.69	-48.42	71.27	49.58	580715.17	432935.07	32°11'24.547"N	104°12'21.745"W	0.07	
8400.00	0.420	272.520	8398.69	-47.89	71.40	49.05	580714.65	432935.19	32°11'24.548"N	104°12'21.751"W	0.26	
8500.00	0.530	266.730	8498.69	-47.06	71.39	48.22	580713.82	432935.18	32°11'24.548"N	104°12'21.761"W	0.12	
8600.00	0.710	255.520	8598.68	-46.00	71.20	47.16	580712.76	432935.00	32°11'24.546"N	104°12'21.773"W	0.22	
8700.00	0.930	253.570	8698.67	-44.63	70.82	45.78	580711.38	432934.61	32°11'24.542"N	104°12'21.789"W	0.22	
8800.00	1.060	252.100	8798.66	-42.98	70.31	44.13	580709.72	432934.10	32°11'24.537"N	104°12'21.809"W	0.13	



Actual Wellpath Report

No. 1H AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	Devon Energy	Slot	No. 1H SHL
Area	Eddy County, NM	Well	No. 1H
Field	(Serrano) Sec 29, T24S, R27E	Wellbore	No. 1H AWP
Facility	Serrano 29 Fed No. 1H		

WELLPATH DATA (186 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
8900.00	1.000	252.450	8898.64	-41.28	69.76	42.41	580708.01	432933.55	32°11'24.532"N	104°12'21.829"W	0.06	
9000.00	0.950	255.700	8998.63	-39.65	69.29	40.78	580706.37	432933.08	32°11'24.527"N	104°12'21.848"W	0.07	
9100.00	0.940	265.790	9098.61	-38.03	69.03	39.16	580704.75	432932.82	32°11'24.525"N	104°12'21.866"W	0.17	
9200.00	1.060	261.070	9198.60	-36.30	68.82	37.43	580703.02	432932.62	32°11'24.523"N	104°12'21.887"W	0.15	
9300.00	1.330	265.090	9298.57	-34.24	68.58	35.36	580700.95	432932.37	32°11'24.520"N	104°12'21.911"W	0.28	
9400.00	1.470	268.570	9398.55	-31.80	68.45	32.92	580698.51	432932.24	32°11'24.519"N	104°12'21.939"W	0.16	
9500.00	1.540	273.860	9498.51	-29.18	68.51	30.29	580695.89	432932.30	32°11'24.520"N	104°12'21.970"W	0.16	
9600.00	1.580	277.470	9598.47	-26.47	68.78	27.59	580693.18	432932.57	32°11'24.522"N	104°12'22.001"W	0.11	
9700.00	1.470	281.780	9698.44	-23.84	69.22	24.96	580690.56	432933.01	32°11'24.527"N	104°12'22.032"W	0.16	
9800.00	1.340	276.770	9798.41	-21.41	69.62	22.55	580688.14	432933.41	32°11'24.531"N	104°12'22.060"W	0.18	
9826.00	1.500	283.500	9824.40	-20.78	69.73	21.91	580687.51	432933.52	32°11'24.532"N	104°12'22.067"W	0.89	
9857.00	1.300	294.600	9855.39	-20.06	69.97	21.20	580686.80	432933.77	32°11'24.534"N	104°12'22.075"W	1.08	
9889.00	1.300	297.600	9887.38	-19.41	70.29	20.55	580686.15	432934.09	32°11'24.538"N	104°12'22.083"W	0.21	
10013.00	6.300	258.700	10011.08	-11.49	69.61	12.62	580678.22	432933.40	32°11'24.531"N	104°12'22.175"W	4.32	
10046.00	6.200	267.000	10043.89	-7.95	69.16	9.07	580674.67	432932.96	32°11'24.526"N	104°12'22.217"W	2.75	
10076.00	6.200	267.300	10073.71	-4.71	69.00	5.83	580671.43	432932.79	32°11'24.525"N	104°12'22.254"W	0.11	
10109.00	6.300	271.800	10106.52	-1.12	68.97	2.24	580667.84	432932.77	32°11'24.525"N	104°12'22.296"W	1.51	
10141.00	6.200	263.900	10138.33	2.35	68.85	-1.23	580664.37	432932.64	32°11'24.523"N	104°12'22.336"W	2.70	
10170.00	8.500	267.400	10167.09	6.04	68.58	-4.93	580660.67	432932.38	32°11'24.521"N	104°12'22.379"W	8.08	
10203.00	11.800	269.000	10199.56	11.85	68.41	-10.74	580654.86	432932.21	32°11'24.519"N	104°12'22.447"W	10.04	
10235.00	13.400	271.700	10230.79	18.83	68.46	-17.72	580647.88	432932.26	32°11'24.520"N	104°12'22.528"W	5.33	
10265.00	15.100	273.100	10259.87	26.21	68.78	-25.10	580640.51	432932.57	32°11'24.523"N	104°12'22.614"W	5.78	
10298.00	18.100	273.700	10291.49	35.63	69.34	-34.51	580631.10	432933.14	32°11'24.529"N	104°12'22.724"W	9.11	
10330.00	21.100	273.000	10321.63	46.35	69.96	-45.22	580620.38	432933.76	32°11'24.535"N	104°12'22.848"W	9.40	
10359.00	23.300	271.100	10348.48	57.30	70.35	-56.17	580609.44	432934.14	32°11'24.539"N	104°12'22.976"W	7.98	
10393.00	25.900	269.600	10379.39	71.45	70.43	-70.32	580595.29	432934.22	32°11'24.540"N	104°12'23.140"W	7.86	
10424.00	27.200	268.400	10407.12	85.30	70.18	-84.17	580581.43	432933.97	32°11'24.538"N	104°12'23.302"W	4.54	
10453.00	29.500	268.800	10432.64	99.06	69.85	-97.94	580567.67	432933.64	32°11'24.534"N	104°12'23.462"W	7.96	
10487.00	33.100	268.500	10461.69	116.71	69.43	-115.59	580550.02	432933.22	32°11'24.531"N	104°12'23.667"W	10.60	
10518.00	35.500	268.000	10487.30	134.15	68.89	-133.05	580532.56	432932.69	32°11'24.525"N	104°12'23.870"W	7.80	
10548.00	38.700	268.500	10511.22	152.23	68.34	-151.14	580514.47	432932.14	32°11'24.520"N	104°12'24.081"W	10.71	
10581.00	42.100	268.800	10536.35	173.60	67.84	-172.52	580493.10	432931.63	32°11'24.516"N	104°12'24.330"W	10.32	
10613.00	45.300	269.800	10559.48	195.69	67.58	-194.62	580471.00	432931.37	32°11'24.513"N	104°12'24.587"W	10.23	
10642.00	48.000	269.900	10579.39	216.77	67.52	-215.71	580449.91	432931.31	32°11'24.513"N	104°12'24.832"W	9.31	
10676.00	51.300	270.000	10601.40	242.68	67.50	-241.62	580424.01	432931.29	32°11'24.513"N	104°12'25.134"W	9.71	
10707.00	55.300	270.200	10619.92	267.53	67.54	-266.47	580399.16	432931.34	32°11'24.514"N	104°12'25.423"W	12.91	
10736.00	58.900	270.000	10635.67	291.87	67.58	-290.81	580374.82	432931.38	32°11'24.514"N	104°12'25.706"W	12.43	
10776.00	61.800	270.200	10655.46	326.62	67.65	-325.57	580340.06	432931.44	32°11'24.515"N	104°12'26.111"W	7.26	
10809.00	62.400	270.000	10670.90	355.78	67.70	-354.73	580310.90	432931.49	32°11'24.516"N	104°12'26.450"W	1.90	
10840.00	63.900	270.000	10684.90	383.44	67.70	-382.39	580283.24	432931.49	32°11'24.517"N	104°12'26.772"W	4.84	
10870.00	65.500	270.000	10697.72	410.56	67.70	-409.51	580256.12	432931.49	32°11'24.517"N	104°12'27.087"W	5.33	
10903.00	67.400	269.800	10710.90	440.80	67.64	-439.76	580225.88	432931.44	32°11'24.517"N	104°12'27.439"W	5.78	
10935.00	68.600	269.500	10722.89	470.46	67.46	-469.43	580196.21	432931.26	32°11'24.515"N	104°12'27.785"W	3.85	
10964.00	70.100	269.700	10733.12	497.59	67.27	-496.57	580169.08	432931.07	32°11'24.514"N	104°12'28.100"W	5.21	
10998.00	71.700	269.800	10744.24	529.71	67.13	-528.69	580136.95	432930.93	32°11'24.513"N	104°12'28.474"W	4.71	



Actual Wellpath Report

No. 1H AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	Devon Energy	Slot	No. 1H SHL
Area	Eddy County, NM	Well	No. 1H
Field	(Serrano) Sec 29, T24S, R27E	Wellbore	No. 1H AWB
Facility	Serrano 29 Fed No. 1H		

WELLPATH DATA (186 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
11029.00	73.200	270.000	10753.59	559.26	67.08	-558.25	580107.40	432930.88	32°11'24.512"N	104°12'28.818"W	4.88	
11059.00	74.800	270.400	10761.86	588.10	67.18	-587.09	580078.57	432930.98	32°11'24.514"N	104°12'29.154"W	5.49	
11092.00	76.300	270.700	10770.09	620.05	67.49	-619.04	580046.62	432931.28	32°11'24.517"N	104°12'29.525"W	4.63	
11124.00	77.200	270.800	10777.43	651.20	67.90	-650.19	580015.47	432931.69	32°11'24.522"N	104°12'29.888"W	2.83	
11154.00	78.300	270.800	10783.79	680.52	68.31	-679.50	579986.16	432932.10	32°11'24.526"N	104°12'30.229"W	3.67	
11187.00	79.400	270.700	10790.17	712.89	68.73	-711.87	579953.79	432932.52	32°11'24.531"N	104°12'30.606"W	3.35	
11219.00	80.500	270.700	10795.76	744.40	69.12	-743.38	579922.29	432932.91	32°11'24.535"N	104°12'30.972"W	3.44	
11248.00	82.000	270.700	10800.17	773.06	69.47	-772.04	579893.63	432933.26	32°11'24.539"N	104°12'31.306"W	5.17	
11282.00	83.900	270.400	10804.34	806.80	69.79	-805.78	579859.90	432933.58	32°11'24.542"N	104°12'31.698"W	5.66	
11313.00	85.800	270.300	10807.12	837.68	69.98	-836.65	579829.03	432933.77	32°11'24.544"N	104°12'32.058"W	6.14	
11342.00	87.600	270.100	10808.79	866.62	70.08	-865.60	579800.08	432933.87	32°11'24.546"N	104°12'32.395"W	6.24	
11375.00	89.900	269.700	10809.51	899.61	70.02	-898.59	579767.09	432933.82	32°11'24.545"N	104°12'32.778"W	7.07	
11407.00	91.800	269.800	10809.04	931.60	69.88	-930.59	579735.10	432933.68	32°11'24.544"N	104°12'33.151"W	5.95	
11436.00	92.300	269.500	10808.00	960.57	69.70	-959.57	579706.12	432933.50	32°11'24.543"N	104°12'33.488"W	2.01	
11531.00	92.400	270.100	10804.11	1055.47	69.37	-1054.49	579611.21	432933.17	32°11'24.541"N	104°12'34.592"W	0.64	
11626.00	91.900	270.400	10800.54	1150.40	69.79	-1149.42	579516.29	432933.58	32°11'24.546"N	104°12'35.697"W	0.61	
11720.00	92.000	272.100	10797.34	1244.34	71.84	-1243.34	579422.38	432935.63	32°11'24.567"N	104°12'36.790"W	1.81	
11807.00	92.100	274.400	10794.23	1331.21	76.77	-1330.14	579335.59	432940.56	32°11'24.617"N	104°12'37.800"W	2.64	
11852.00	92.200	274.200	10792.54	1376.10	80.14	-1374.98	579290.75	432943.93	32°11'24.651"N	104°12'38.322"W	0.50	
11902.00	92.600	274.500	10790.45	1425.96	83.93	-1424.79	579240.94	432947.72	32°11'24.689"N	104°12'38.901"W	1.00	
11949.00	92.000	271.600	10788.56	1472.89	86.42	-1471.68	579194.05	432950.22	32°11'24.714"N	104°12'39.447"W	6.30	
11996.00	91.000	270.000	10787.33	1519.87	87.08	-1518.66	579147.08	432950.87	32°11'24.721"N	104°12'39.993"W	4.01	
12042.00	91.500	270.100	10786.33	1565.85	87.12	-1564.65	579101.10	432950.91	32°11'24.722"N	104°12'40.529"W	1.11	
12091.00	91.000	269.500	10785.26	1614.83	86.95	-1613.63	579052.11	432950.74	32°11'24.721"N	104°12'41.099"W	1.59	
12136.00	90.300	268.600	10784.75	1659.80	86.20	-1658.62	579007.13	432950.00	32°11'24.714"N	104°12'41.622"W	2.53	
12186.00	90.600	268.100	10784.36	1709.75	84.76	-1708.60	578957.15	432948.56	32°11'24.701"N	104°12'42.204"W	1.17	
12280.00	91.200	267.900	10782.88	1803.62	81.48	-1802.53	578863.23	432945.28	32°11'24.669"N	104°12'43.297"W	0.67	
12375.00	93.300	268.800	10779.15	1898.44	78.75	-1897.41	578768.36	432942.54	32°11'24.643"N	104°12'44.401"W	2.40	
12469.00	94.400	269.000	10772.84	1992.17	76.95	-1991.18	578674.60	432940.74	32°11'24.626"N	104°12'45.492"W	1.19	
12563.00	95.300	269.000	10764.89	2085.78	75.31	-2084.83	578580.96	432939.11	32°11'24.611"N	104°12'46.582"W	0.96	
12658.00	94.700	269.000	10756.61	2180.36	73.66	-2179.45	578486.34	432937.46	32°11'24.596"N	104°12'47.683"W	0.63	
12752.00	95.200	268.800	10748.50	2273.95	71.87	-2273.09	578392.72	432935.66	32°11'24.579"N	104°12'48.772"W	0.57	
12847.00	94.500	268.700	10740.47	2368.54	69.80	-2367.72	578298.09	432933.59	32°11'24.560"N	104°12'49.874"W	0.74	
12941.00	94.400	269.100	10733.18	2462.20	68.00	-2461.42	578204.40	432931.80	32°11'24.543"N	104°12'50.964"W	0.44	
13036.00	93.000	269.100	10727.05	2556.95	66.51	-2556.21	578109.62	432930.31	32°11'24.529"N	104°12'52.067"W	1.47	
13131.00	93.500	269.400	10721.66	2651.76	65.27	-2651.05	578014.79	432929.06	32°11'24.518"N	104°12'53.171"W	0.61	
13225.00	89.800	269.400	10718.95	2745.67	64.29	-2744.99	577920.86	432928.08	32°11'24.509"N	104°12'54.264"W	3.94	
13320.00	88.700	269.700	10720.20	2840.63	63.54	-2839.98	577825.88	432927.34	32°11'24.503"N	104°12'55.369"W	1.20	
13414.00	89.700	269.600	10721.51	2934.60	62.97	-2933.96	577731.90	432926.76	32°11'24.498"N	104°12'56.463"W	1.07	
13509.00	88.400	270.100	10723.08	3029.57	62.72	-3028.95	577636.93	432926.51	32°11'24.497"N	104°12'57.568"W	1.47	
13603.00	89.000	270.100	10725.22	3123.53	62.88	-3122.92	577542.96	432926.68	32°11'24.500"N	104°12'58.662"W	0.64	
13698.00	89.700	270.000	10726.29	3218.51	62.96	-3217.92	577447.98	432926.76	32°11'24.501"N	104°12'59.767"W	0.74	
13792.00	90.300	269.100	10726.29	3312.49	62.23	-3311.91	577353.99	432926.02	32°11'24.495"N	104°13'00.861"W	1.15	
13887.00	91.400	270.000	10724.89	3407.45	61.48	-3406.90	577259.01	432925.27	32°11'24.489"N	104°13'01.966"W	1.50	
13982.00	92.600	271.200	10721.57	3502.38	62.47	-3501.83	577164.09	432926.27	32°11'24.500"N	104°13'03.071"W	1.79	



Actual Wellpath Report

No. 1H AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	Devon Energy	Slot	No. 1H SHL
Area	Eddy County, NM	Well	No. 1H
Field	(Serrano) Sec 29, T24S, R27E	Wellbore	No. 1H AWB
Facility	Serrano 29 Fed No. 1H		

WELLPATH DATA (186 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
14076.00	91.100	270.300	10718.54	3596.33	63.70	-3595.77	577070.16	432927.50	32°11'24.513"N	104°13'04.164"W	1.86	
14171.00	91.400	270.300	10716.46	3691.30	64.20	-3690.74	576975.19	432928.00	32°11'24.519"N	104°13'05.269"W	0.32	
14265.00	91.900	270.300	10713.76	3785.26	64.69	-3784.70	576881.24	432928.49	32°11'24.524"N	104°13'06.362"W	0.53	
14360.00	92.700	270.500	10709.94	3880.17	65.36	-3879.62	576786.33	432929.15	32°11'24.532"N	104°13'07.467"W	0.87	
14442.00	93.100	270.200	10705.80	3962.06	65.86	-3961.52	576704.44	432929.65	32°11'24.538"N	104°13'08.420"W	0.61	
14502.00	93.100	270.200	10702.55	4021.97	66.07	-4021.43	576644.54	432929.86	32°11'24.541"N	104°13'09.117"W	0.00	Proj to Bit

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
No. 1H PBHL		10700.00	65.21	-4021.17	576644.80	432929.00	32°11'24.532"N	104°13'09.114"W	point

WELLPATH COMPOSITION Ref Wellbore: No. 1H AWB Ref Wellpath: No. 1H AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
20.00	9800.00	Gyrodata standard - Continuous gyro	Gyro	No. 1H AWB
9800.00	14502.00	NaviTrak (Standard)	MWD2	No. 1H AWB

2105 MARKET STREET
MIDLAND, TX 79703
24 HR (432) 694-9517

STATE OF NEW MEXICO

COUNTY OF Eddy

I, Donald Hale, Directional Driller certify that I am employed by Baker Hughes INTEQ; did conduct or supervise on the day(s) of Nov 30, 2010 through Jan 2, 2011 the taking of MWD surveys from a depth of 9,800 to a depth of 14,502 that the data is true, correct, complete and within the limitations of the tool as set forth by Baker Hughes INTEQ ; that I am authorized and qualified to make this report; that this survey was conducted at the request of Devon Energy for the Serrano 29 Federal #1H in Eddy County, NM; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by INTEQ.

Donald Hale

Digitally signed by Donald Hale
DN: cn=Donald Hale, c=US,
o=Bakerhughes, ou=INTEQ, email=donald.
hale@bakerhughes.com
Reason: I am approving this document
Date: 2011.02.22 15:47:57 -06'00'

Field Service Engineer: Donald Hale