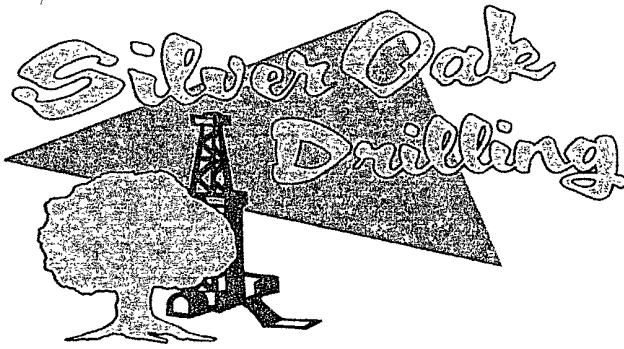




PO Box 1370
Artesia, NM 88211-1370
(505) 748-1288

April 30, 2009

Yates Petroleum Corporation
105 S. 4th
Artesia, NM 88211-1395

RE: Ninja BMN State Com #1X
990' FNL & 200' FWL
Sec. 11, T15S, R31E
Chaves County, New Mexico

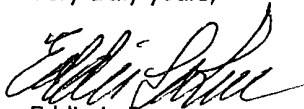
30-005-29083

Dear Sir,

The attached is the Deviation Survey for the above captioned well.

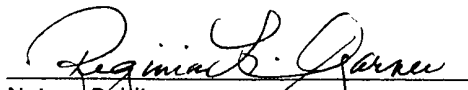
SUR: A-11-15s-31e, 990/N & 200/E
BHL: D-11-15s-31e, 487/N & 4528/E
API # 30-005-29083

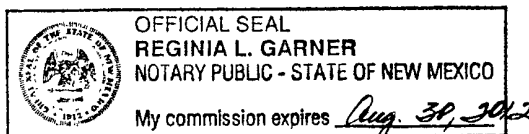
Very truly yours,


Eddie LaRue
Operations Manager

State of New Mexico }
County of Eddy }

The foregoing was acknowledged before me this 30th day of April, 2009.


Notary Public

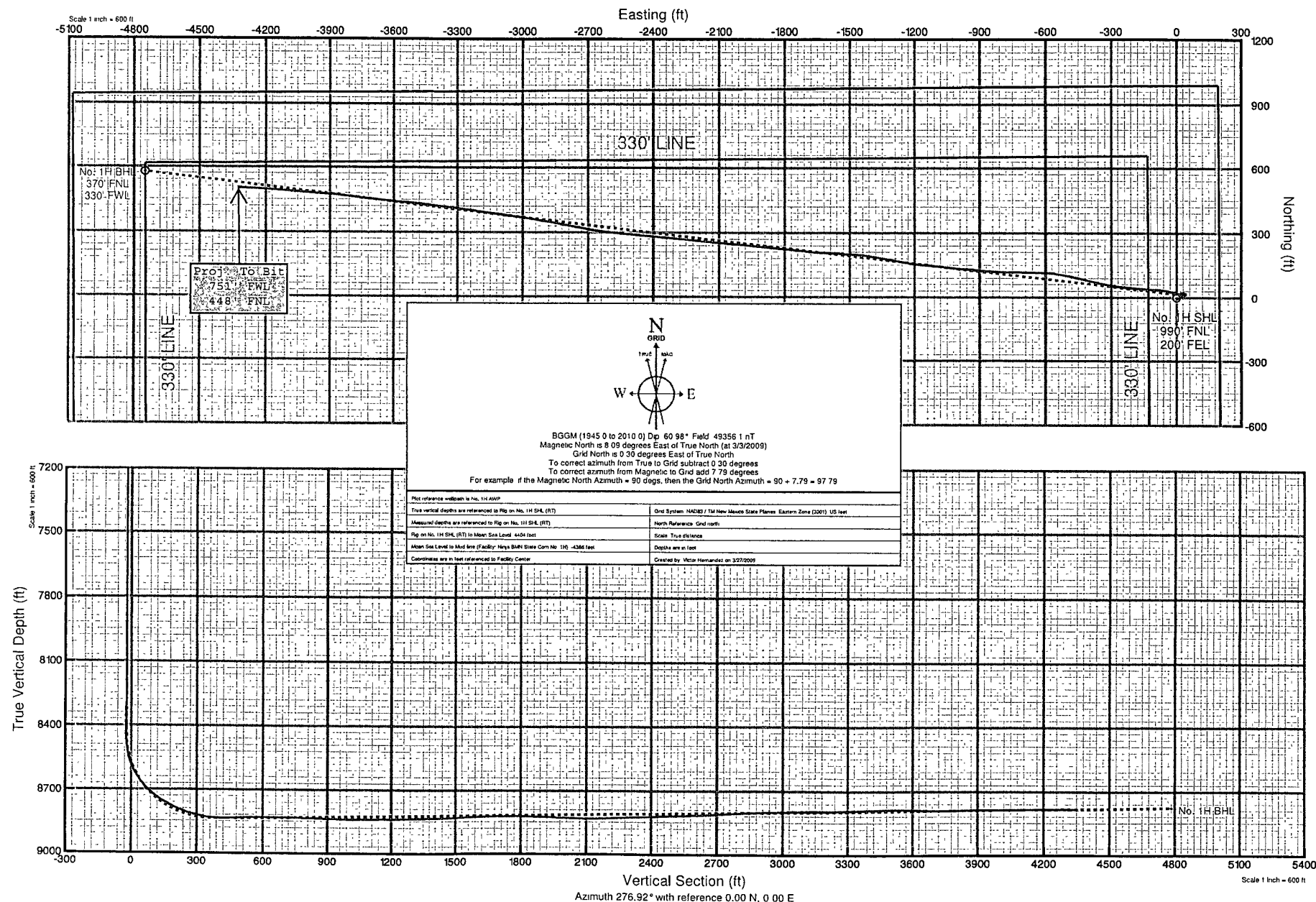


KJ

Date	Depth	Dev	Dir/AZM	TVD	Horiz Disp
02/18/2009	200.00	1.50	0.00	0 00	0.00
02/18/2009	400.00	1.00	0.00	0.00	0.00
02/20/2009	670.00	1.00	0.00	0.00	0.00
02/20/2009	887.00	1.00	0.00	0.00	0.00
02/20/2009	1080.00	1.25	0.00	0.00	0.00
02/20/2009	1505.00	1.00	0.00	0.00	0.00
02/21/2009	2119.00	3.00	0.00	0.00	0.00
02/21/2009	2245.00	2.00	0.00	0.00	0.00
02/22/2009	2385.00	1.75	0.00	0.00	0.00
02/22/2009	2511.00	1.75	0.00	0.00	0.00
02/23/2009	2758.00	1.00	0.00	0.00	0.00
02/24/2009	3255.00	1 75	0.00	0.00	0.00
02/25/2009	3370.00	0.75	0.00	0.00	0.00
02/26/2009	3468.00	1.75	0.00	0.00	0.00
02/26/2009	3590.00	1.00	0.00	0.00	0.00
02/26/2009	3724.00	0.75	0.00	0.00	0.00
02/27/2009	4003.00	1.00	0.00	0.00	0.00
03/01/2009	4204.00	0.50	0.00	0.00	0.00
03/01/2009	4452.00	0.75	0.00	0.00	0.00
03/01/2009	4665.00	1.00	0.00	0.00	0.00
03/02/2009	4915.00	1.00	0.00	0.00	0.00
03/02/2009	5163.00	0.75	0.00	0.00	0.00
03/02/2009	5542.00	1.00	0.00	0.00	0.00
03/02/2009	5785.00	1.00	0.00	0.00	0.00
03/03/2009	6097.00	0.25	0.00	0.00	0.00
03/03/2009	6566.00	1.25	0.00	0.00	0.00
03/04/2009	6907.00	1.00	0.00	0.00	0.00
03/04/2009	7308.00	0.50	0.00	0.00	0.00
03/05/2009	7717.00	0.75	0.00	0.00	0.00
03/10/2009	8429.00	0.50	107.90	8428.00	0.00
03/10/2009	8460.00	1.20	315.40	8457.30	0.00
03/10/2009	8524.00	9.90	284.70	8523.00	0.00
03/10/2009	8555.00	15.40	285.20	8553.00	0.00
03/10/2009	8587.00	20.30	287.60	8584.00	0.00
03/10/2009	8618.00	26.40	285.70	8612.00	0.00
03/10/2009	8650.00	32.10	283.20	8640.01	0.00
03/10/2009	8681.00	37.50	281.80	8665.00	0.00
03/10/2009	8712.00	42.50	277.80	8689.00	0.00
03/11/2009	8744.00	47.60	273.00	8711.00	0.00
03/11/2009	8775.00	52.20	272.00	8731.77	0.00
03/11/2009	8806.00	56.00	274.00	8749.00	0.00
03/11/2009	8838.00	60.20	2741.00	8767.00	0.00
03/11/2009	8870.00	63.20	275.10	8782.02	0.00
03/11/2009	8902.00	65.70	274.60	8795.82	0.00
03/11/2009	8934.00	69.20	276.90	8808.09	0.00
03/11/2009	8966.00	74.20	277.80	8818.00	0.00
03/11/2009	8998.00	77.40	279.10	8825.00	312.49
03/11/2009	9030.00	81.90	283.50	8831.00	343.86
03/11/2009	9062.00	86.40	282.80	8834.70	375.10
03/11/2009	9094.00	88.88	283.70	8836.00	407.29
03/12/2009	9125.00	90.90	284.30	8836.00	0.00
03/12/2009	9157.00	93.00	283.80	8834.45	0.00
03/12/2009	9195.00	93.00	282.10	8833.00	587.50
03/13/2009	9226.00	91.00	280.20	8831.99	0.00
03/13/2009	9258.00	90.10	276.40	8831.68	0.00
03/13/2009	9289.00	90.10	273.10	8831.63	0.00
03/13/2009	9321.00	90.10	272.00	8831.57	0.00
03/13/2009	9385.00	90.00	272.10	8831.50	697.00
03/13/2009	9417.00	88.20	271.20	8832.00	729.00
03/13/2009	9448.00	88.00	270.40	8833.02	759.90
03/13/2009	9543.00	87.90	273.70	8836.30	854.20
03/13/2009	9575.00	88.00	274.80	8837.40	886.14
03/13/2009	9607.00	88.10	275.40	8838.00	918.11
03/14/2009	9702.00	90.10	274.90	8841.00	1013.00
03/14/2009	9734.00	90.50	276.20	8841.00	1045.00
03/14/2009	9766.00	90.60	276.30	8840.00	1077.00
03/14/2009	9798.00	90.60	275.60	8840.00	1108.00
03/14/2009	9830.00	90.50	274.50	8840.00	1140.00
03/14/2009	9861.00	90.60	274.80	8840.00	1184.00
03/14/2009	9893.00	90.50	277.10	8839.40	1203.90
03/14/2009	9925.00	90.60	278.90	8839.00	1235.90
03/14/2009	9957.00	91.50	280.10	8838.00	1268.00

Date	Depth	Dev	Dir/AZM	TVD	Horiz Disp
03/14/2009	9989.00	91.50	280.60	8837.00	1299.83
03/14/2009	10021.00	91.60	280.20	8836.87	1331.79
03/14/2009	10053.00	91.50	280.00	8836.00	1363.71
03/15/2009	10084.00	91.60	280.10	8835.00	1394.00
03/15/2009	10116.00	92.10	279.10	8834.00	1426.00
03/15/2009	10148.00	92.30	275.30	8832.00	1458.00
03/15/2009	10180.00	92.60	273.90	8831.00	1477.00
03/15/2009	10212.00	92.70	273.80	8829.00	1552.00
03/15/2009	10275.00	92.80	273.70	8826.95	1585.27
03/15/2009	10307.00	91.60	272.90	8825.70	1617.18
03/15/2009	10339.00	91.60	272.40	8824.00	1649.00
03/16/2009	10402.00	91.60	276.30	8823.07	1712.00
03/16/2009	10434.00	90.80	276.30	8822.00	1743.00
03/16/2009	10466.00	89.60	276.20	8822.28	1775.99
03/16/2009	10498.00	88.50	276.20	8822.00	1807.00
03/16/2009	10530.00	88.00	257.90	8823.00	1839.00
03/16/2009	10657.00	88.00	275.30	8828.11	1966.86
03/17/2009	10721.00	88.10	275.10	8830.00	2030.00
03/17/2009	10753.00	88.10	275.40	8831.00	2062.00
03/17/2009	10784.00	89.00	275.60	8832.00	2093.00
03/18/2009	10814.00	90.10	275.40	8832.37	2123.73
03/18/2009	10847.00	91.20	275.80	8832.00	2156.00
03/19/2009	10879.00	92.10	276.10	8831.00	2188.70
03/19/2009	10910.00	92.10	276.00	8829.94	2219.68
03/20/2009	10928.00	92.10	275.26	8829.28	2237.66
03/20/2009	10942.00	92.10	275.60	8828.77	2251.65
03/20/2009	10974.00	92.00	275.50	8827.62	2283.62
03/20/2009	11006.00	92.10	275.40	8826.00	2315.00
03/20/2009	11038.00	92.10	275.20	8825.00	2347.00
03/20/2009	11069.00	92.40	275.30	8824.00	2378.00
03/21/2009	11101.00	93.30	275.10	8822.00	2410.46
03/21/2009	11133.00	93.10	275.00	8820.00	2442.39
03/21/2009	11164.00	90.10	274.90	8819.00	2473.00
03/21/2009	11196.00	90.60	275.20	8819.10	2505.30
03/21/2009	11228.00	90.90	275.10	8818.68	2537.31
03/21/2009	11259.00	92.40	275.80	8817.79	2568.29
03/21/2009	11291.00	92.20	276.30	8816.51	2600.26
03/21/2009	11322.00	92.90	276.80	8815.13	2631.23
03/21/2009	11354.00	93.20	277.00	8813.00	2663.00
03/22/2009	11383.00	93.20	279.90	8811.83	2692.13
03/22/2009	11415.00	93.10	280.70	8810.10	2724.02
03/22/2009	11447.00	93.00	280.70	8808.40	2755.91
03/22/2009	11479.00	93.10	280.60	8806.69	2787.79
03/22/2009	11510.00	93.00	280.90	8805.04	2818.68
03/22/2009	11542.00	93.00	280.90	8803.00	2850.00
03/22/2009	11606.00	91.30	279.60	8800.00	2914.00
03/23/2009	11638.00	90.90	279.20	8800.00	2946.37
03/23/2009	11669.00	90.90	278.80	8800.00	2977.29
03/23/2009	11701.00	91.10	278.00	8799.00	3009.00
03/23/2009	11733.00	91.10	278.10	8798.75	3041.31
03/23/2009	11765.00	91.50	278.00	8798.00	3073.30
03/23/2009	11796.00	91.70	278.20	8797.00	3104.00
03/23/2009	11859.00	90.70	277.70	8795.00	3167.00
03/23/2009	11890.00	90.70	277.80	8795.00	3198.00
03/23/2009	11922.00	90.90	277.90	8795.01	3230.24
03/23/2009	11954.00	91.20	277.70	8794.43	3262.23
03/23/2009	11986.00	91.60	278.00	8793.65	3294.22
03/24/2009	12018.00	91.70	277.80	8792.72	3326.20
03/24/2009	12050.00	91.80	277.40	8791.75	3358.18
03/24/2009	12082.00	91.40	276.80	8790.00	3410.00
03/24/2009	12113.00	91.30	276.20	8790.12	8790.12
03/24/2009	12145.00	91.40	276.40	8789.00	3453.00
03/24/2009	12177.00	91.90	276.40	8788.00	3485.00
03/24/2009	12240.00	89.20	275.30	8787.00	3448.00
03/24/2009	12272.00	88.50	275.50	8788.00	3580.00
03/24/2009	12304.00	88.20	275.00	8789.41	3612.06
03/25/2009	12368.00	88.80	275.40	8791.00	3676.00
03/25/2009	12399.00	89.30	275.90	8791.00	3707.00
03/25/2009	12431.00	90.50	276.30	8791.00	3739.00
03/25/2009	12462.00	91.10	276.60	8791.20	3770.00
03/25/2009	12493.00	91.80	276.80	8790.40	3800.90
03/26/2009	12525.00	92.10	277.30	8789.35	3832.97

Date	Depth	Dev	Dir/AZM	TVD	Horiz Disp
03/26/2009	12589.00	91.00	275.40	8787.60	3896.90
03/26/2009	12621.00	90.20	274.50	8787.00	3928.90
03/26/2009	12652.00	90.10	274.20	8787.00	3959.00
03/26/2009	12684.00	90.10	274.30	8787.10	3991.80
03/26/2009	12748.00	90.70	274.30	8786.70	4055.78
03/26/2009	12811.00	91.10	274.60	8785.71	4118.70
03/27/2009	12874.00	91.30	274.20	8784.39	4181.64
03/27/2009	12938.00	89.30	272.70	8784.00	4245.00
03/27/2009	12998.00	90.10	272.90	8784.37	4305.35
# EOF					





Actual Wellpath Report

No. 1H AWP

Page 1 of 10



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	Yates Petroleum Corporation	Slot	No. 1H SHL
Area	Chaves County, NM	Well	No. 1H
Field	(Ninja) Sec 11, T15S, R31E	Wellbore	No. 1H AWB
Facility	Ninja BMN State Com 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	Victor Hernandez
Scale	0.999942	Report Generated	3/27/2009 at 11:28:33 AM
Convergence at slot	0.30° 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	709572.82	740722.56	33°02'06.126"N	103°47'03.714"W
Facility Reference Pt			709572.82	740722.56	33°02'06.126"N	103°47'03.714"W
Field Reference Pt			709572.82	740722.56	33°02'06.126"N	103°47'03.714"W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on No. 1H SHL (RT) to Facility Vertical Datum	18.00ft
Horizontal Reference Pt	Facility Center	Rig on No. 1H SHL (RT) to Mean Sea Level	4404.00ft
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	276.92°

SUR:A-11-15s-31e, 990/N & 200/E
BHL: D-11-15s-31e, 487/N & 4528/E
API # 30-005-29083



Actual Wellpath Report

No. 1H AWP

Page 2 of 10



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	Yates Petroleum Corporation	Slot	No. 1H SHL
Area	Chaves County, NM	Well	No. 1H
Field	(Ninja) Sec 11, T15S, R31E	Wellbore	No. 1H AWP
Facility	Ninja BMN State Com No. 1H		

WELLPATH DATA (224 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]
0.00	0.000	187.080	0.00	0.00	0.00	0.00	709572.82	740722.56	33°02'06.126"N	103°47'03.714"W	0.00
62.30	0.210	187.080	62.30	0.00	-0.11	-0.01	709572.81	740722.45	33°02'06.125"N	103°47'03.714"W	0.34
158.30	0.140	153.480	158.30	-0.06	-0.39	0.02	709572.84	740722.17	33°02'06.122"N	103°47'03.714"W	0.13
250.20	0.290	163.130	250.20	-0.22	-0.72	0.13	709572.95	740721.84	33°02'06.119"N	103°47'03.712"W	0.17
342.20	0.120	179.160	342.20	-0.34	-1.03	0.21	709573.03	740721.53	33°02'06.116"N	103°47'03.712"W	0.19
434.10	0.380	144.700	434.10	-0.56	-1.38	0.40	709573.22	740721.18	33°02'06.113"N	103°47'03.709"W	0.31
526.10	0.320	163.720	526.10	-0.87	-1.87	0.65	709573.47	740720.69	33°02'06.108"N	103°47'03.707"W	0.14
618.00	0.240	113.970	617.99	-1.16	-2.20	0.90	709573.72	740720.36	33°02'06.105"N	103°47'03.704"W	0.27
710.00	0.260	101.830	709.99	-1.55	-2.32	1.28	709574.10	740720.24	33°02'06.103"N	103°47'03.699"W	0.06
820.80	0.250	101.420	820.79	-2.04	-2.42	1.76	709574.58	740720.14	33°02'06.102"N	103°47'03.693"W	0.01
912.70	0.210	133.420	912.69	-2.37	-2.57	2.08	709574.90	740719.99	33°02'06.101"N	103°47'03.690"W	0.14
1004.70	0.170	137.060	1004.69	-2.61	-2.79	2.29	709575.11	740719.77	33°02'06.099"N	103°47'03.687"W	0.05
1098.10	0.260	140.080	1098.09	-2.87	-3.05	2.53	709575.34	740719.51	33°02'06.096"N	103°47'03.685"W	0.10
1191.50	0.350	141.980	1191.49	-3.23	-3.44	2.84	709575.66	740719.12	33°02'06.092"N	103°47'03.681"W	0.10
1284.80	0.170	143.190	1284.79	-3.55	-3.78	3.10	709575.91	740718.78	33°02'06.089"N	103°47'03.678"W	0.19
1378.20	0.240	91.920	1378.19	-3.82	-3.89	3.37	709576.19	740718.67	33°02'06.088"N	103°47'03.675"W	0.20
1471.60	0.560	97.260	1471.59	-4.47	-3.96	4.02	709576.84	740718.60	33°02'06.087"N	103°47'03.667"W	0.34
1565.00	0.340	102.940	1564.98	-5.20	-4.08	4.74	709577.56	740718.48	33°02'06.086"N	103°47'03.659"W	0.24
1658.30	0.230	37.130	1658.28	-5.57	-3.99	5.13	709577.95	740718.57	33°02'06.087"N	103°47'03.654"W	0.35
1751.70	0.350	66.060	1751.68	-5.91	-3.73	5.50	709578.32	740718.83	33°02'06.089"N	103°47'03.650"W	0.20
1845.10	0.150	60.300	1845.08	-6.25	-3.55	5.87	709578.69	740719.01	33°02'06.091"N	103°47'03.645"W	0.22
1938.50	0.720	46.750	1938.48	-6.73	-3.09	6.40	709579.22	740719.47	33°02'06.096"N	103°47'03.639"W	0.62
2031.90	2.100	59.060	2031.85	-8.45	-1.80	8.30	709581.12	740720.76	33°02'06.108"N	103°47'03.617"W	1.50
2125.30	2.430	66.730	2125.17	-11.52	-0.14	11.58	709584.40	740722.42	33°02'06.124"N	103°47'03.578"W	0.48
2218.60	2.100	60.900	2218.40	-14.61	-1.47	14.89	709587.71	740724.03	33°02'06.140"N	103°47'03.539"W	0.43
2312.00	1.990	55.340	2311.74	-17.21	3.22	17.72	709590.54	740725.78	33°02'06.157"N	103°47'03.506"W	0.24
2405.40	1.790	63.630	2405.09	-19.64	4.79	20.36	709593.18	740727.35	33°02'06.173"N	103°47'03.475"W	0.36
2498.80	1.670	68.250	2498.45	-22.05	5.95	22.94	709595.75	740728.51	33°02'06.184"N	103°47'03.444"W	0.20
2592.20	1.190	72.160	2591.82	-24.13	6.75	25.12	709597.94	740729.31	33°02'06.192"N	103°47'03.419"W	0.52
2685.50	1.000	74.130	2685.10	-25.76	7.27	26.83	709599.65	740729.83	33°02'06.197"N	103°47'03.398"W	0.21



Actual Wellpath Report

No. 1H AWP

Page 3 of 10



REFERENCE WELLPATH IDENTIFICATION

Operator	Yates Petroleum Corporation	Slot	No. 1H SHL
Area	Chaves County, NM	Well	No. 1H
Field	(Ninja) Sec 11, T15S, R31E	Wellbore	No. 1H AWP
Facility	Ninja BMN State Com No. 1H		

WELLPATH DATA (224 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]
2778.90	0.790	83.740	2778.49	-27.14	7.56	28.25	709601.07	740730.12	33°02'06.200"N	103°47'03.382"W	0.28
2872.30	0.670	88.670	2871.88	-28.30	7.64	29.44	709602.26	740730.20	33°02'06.200"N	103°47'03.368"W	0.14
2965.70	0.740	74.120	2965.28	-29.40	7.82	30.56	709603.38	740730.38	33°02'06.202"N	103°47'03.355"W	0.21
3059.00	1.050	64.310	3058.56	-30.67	8.36	31.91	709604.73	740730.92	33°02'06.207"N	103°47'03.339"W	0.37
3152.40	1.340	56.980	3151.94	-32.23	9.32	33.60	709606.42	740731.88	33°02'06.217"N	103°47'03.319"W	0.35
3248.80	1.320	54.350	3248.32	-33.92	10.58	35.45	709608.27	740733.14	33°02'06.229"N	103°47'03.297"W	0.07
3339.20	1.280	46.240	3338.69	-35.32	11.89	37.02	709609.84	740734.45	33°02'06.242"N	103°47'03.278"W	0.21
3432.60	1.180	52.670	3432.07	-36.67	13.19	38.54	709611.36	740735.75	33°02'06.255"N	103°47'03.260"W	0.18
3525.90	0.930	52.070	3525.36	-37.90	14.24	39.90	709612.72	740736.80	33°02'06.265"N	103°47'03.244"W	0.27
3619.30	0.720	52.590	3618.75	-38.85	15.06	40.97	709613.78	740737.62	33°02'06.273"N	103°47'03.232"W	0.22
3712.70	0.390	42.900	3712.14	-39.46	15.65	41.65	709614.47	740738.21	33°02'06.279"N	103°47'03.224"W	0.37
3806.10	0.280	23.730	3805.54	-39.71	16.10	41.96	709614.78	740738.65	33°02'06.283"N	103°47'03.220"W	0.17
3899.10	0.290	289.140	3898.54	-39.55	16.38	41.83	709614.64	740738.94	33°02'06.286"N	103°47'03.222"W	0.45
3992.80	0.440	272.260	3992.24	-38.96	16.47	41.24	709614.06	740739.03	33°02'06.287"N	103°47'03.229"W	0.20
4086.20	0.350	257.350	4085.64	-38.33	16.42	40.61	709613.42	740738.98	33°02'06.287"N	103°47'03.236"W	0.15
4179.60	0.330	269.180	4179.03	-37.80	16.36	40.06	709612.88	740738.92	33°02'06.286"N	103°47'03.242"W	0.08
4273.00	0.370	280.350	4272.43	-37.23	16.41	39.49	709612.31	740738.97	33°02'06.287"N	103°47'03.249"W	0.08
4366.40	0.440	292.940	4365.83	-36.58	16.60	38.87	709611.68	740739.16	33°02'06.289"N	103°47'03.256"W	0.12
4459.70	0.420	291.640	4459.13	-35.91	16.87	38.22	709611.04	740739.43	33°02'06.291"N	103°47'03.264"W	0.02
4553.80	0.330	297.410	4553.23	-35.32	17.12	37.66	709610.48	740739.68	33°02'06.294"N	103°47'03.271"W	0.10
4646.50	0.350	286.940	4645.92	-34.79	17.33	37.15	709609.97	740739.88	33°02'06.296"N	103°47'03.277"W	0.07
4739.90	0.320	280.620	4739.32	-34.25	17.46	36.62	709609.44	740740.02	33°02'06.297"N	103°47'03.283"W	0.05
4833.30	0.300	266.160	4832.72	-33.75	17.49	36.12	709608.94	740740.05	33°02'06.298"N	103°47'03.289"W	0.09
4926.60	0.260	246.120	4926.02	-33.33	17.39	35.68	709608.50	740739.95	33°02'06.297"N	103°47'03.294"W	0.11
5020.00	0.590	274.280	5019.42	-32.67	17.34	35.01	709607.83	740739.90	33°02'06.296"N	103°47'03.302"W	0.41
5113.40	0.620	279.830	5112.81	-31.68	17.46	34.03	709606.85	740740.02	33°02'06.297"N	103°47'03.313"W	0.07
5206.80	0.460	303.720	5206.21	-30.84	17.75	33.22	709606.04	740740.31	33°02'06.300"N	103°47'03.323"W	0.29
5300.20	0.500	317.600	5299.61	-30.20	18.26	32.64	709605.45	740740.82	33°02'06.305"N	103°47'03.330"W	0.13
5393.50	0.540	320.000	5392.90	-29.57	18.90	32.08	709604.90	740741.46	33°02'06.312"N	103°47'03.336"W	0.05
5486.90	0.420	331.740	5486.30	-29.05	19.54	31.63	709604.45	740742.10	33°02'06.318"N	103°47'03.341"W	0.17



Actual Wellpath Report

No. 1H AWP

Page 4 of 10



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	Yates Petroleum Corporation	Slot	No. 1H SHL
Area	Chaves County, NM	Well	No. 1H
Field	(Ninja) Sec 11, T15S, R31E	Wellbore	No. 1H AWP
Facility	Ninja BMN State Com No. 1H		

WELLPATH DATA (224 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]
5580.30	0.410	317.840	5579.70	-28.60	20.09	31.25	709604.07	740742.65	33°02'06.324"N	103°47'03.346"W	0.11
5673.70	0.410	302.040	5673.09	-28.04	20.51	30.74	709603.56	740743.07	33°02'06.328"N	103°47'03.352"W	0.12
5767.10	0.350	284.130	5766.49	-27.46	20.76	30.18	709603.00	740743.32	33°02'06.330"N	103°47'03.358"W	0.14
5860.50	0.370	283.540	5859.89	-26.88	20.90	29.61	709602.43	740743.46	33°02'06.332"N	103°47'03.365"W	0.02
5953.80	0.240	272.370	5953.19	-26.38	20.98	29.12	709601.94	740743.54	33°02'06.332"N	103°47'03.371"W	0.15
6047.20	0.160	265.040	6046.59	-26.06	20.98	28.80	709601.62	740743.53	33°02'06.332"N	103°47'03.374"W	0.09
6140.60	0.180	230.530	6139.99	-25.83	20.87	28.55	709601.37	740743.43	33°02'06.331"N	103°47'03.377"W	0.11
6234.00	0.280	248.110	6233.39	-25.53	20.69	28.23	709601.05	740743.25	33°02'06.330"N	103°47'03.381"W	0.13
6327.40	0.260	275.560	6326.79	-25.12	20.63	27.81	709600.62	740743.19	33°02'06.329"N	103°47'03.386"W	0.14
6420.70	0.420	280.050	6420.08	-24.56	20.71	27.26	709600.08	740743.27	33°02'06.330"N	103°47'03.393"W	0.17
6514.10	0.480	274.200	6513.48	-23.83	20.80	26.53	709599.35	740743.36	33°02'06.331"N	103°47'03.401"W	0.08
6607.50	0.400	265.220	6606.88	-23.12	20.80	25.82	709598.63	740743.36	33°02'06.331"N	103°47'03.410"W	0.11
6700.90	0.380	239.280	6700.28	-22.56	20.61	25.23	709598.04	740743.17	33°02'06.329"N	103°47'03.416"W	0.19
6794.20	0.370	227.090	6793.57	-22.12	20.25	24.74	709597.56	740742.81	33°02'06.325"N	103°47'03.422"W	0.09
6887.60	0.490	236.920	6886.97	-21.62	19.83	24.18	709597.00	740742.38	33°02'06.321"N	103°47'03.429"W	0.15
6981.00	0.550	251.050	6980.37	-20.91	19.46	23.42	709596.24	740742.02	33°02'06.318"N	103°47'03.438"W	0.15
7074.40	0.480	267.300	7073.76	-20.12	19.30	22.61	709595.43	740741.86	33°02'06.316"N	103°47'03.447"W	0.17
7167.80	0.410	283.130	7167.16	-19.40	19.36	21.89	709594.71	740741.91	33°02'06.317"N	103°47'03.456"W	0.15
7261.10	0.310	283.070	7260.46	-18.82	19.49	21.32	709594.14	740742.05	33°02'06.318"N	103°47'03.462"W	0.11
7354.50	0.270	277.430	7353.86	-18.35	19.57	20.86	709593.68	740742.13	33°02'06.319"N	103°47'03.468"W	0.05
7447.90	0.200	171.480	7447.26	-18.17	19.44	20.66	709593.48	740742.00	33°02'06.318"N	103°47'03.470"W	0.40
7541.30	0.580	146.880	7540.66	-18.52	18.88	20.95	709593.77	740741.44	33°02'06.312"N	103°47'03.467"W	0.44
7634.70	0.700	165.400	7634.05	-19.03	17.94	21.35	709594.17	740740.50	33°02'06.303"N	103°47'03.462"W	0.25
7728.10	0.620	175.260	7727.44	-19.34	16.88	21.53	709594.35	740739.44	33°02'06.292"N	103°47'03.460"W	0.15
7821.40	0.600	177.620	7820.74	-19.52	15.89	21.60	709594.41	740738.45	33°02'06.282"N	103°47'03.459"W	0.03
7914.80	0.450	167.140	7914.13	-19.73	15.04	21.70	709594.52	740737.60	33°02'06.274"N	103°47'03.458"W	0.19
8008.20	0.410	169.970	8007.53	-19.95	14.36	21.84	709594.66	740736.92	33°02'06.267"N	103°47'03.457"W	0.05
8101.60	0.330	189.400	8100.93	-20.03	13.76	21.85	709594.67	740736.32	33°02'06.261"N	103°47'03.456"W	0.16
8195.00	0.230	187.430	8194.33	-20.02	13.31	21.78	709594.60	740735.87	33°02'06.257"N	103°47'03.457"W	0.11
8288.30	0.350	125.450	8287.63	-20.27	12.96	21.99	709594.81	740735.52	33°02'06.253"N	103°47'03.455"W	0.34



Actual Wellpath Report

No. 1H AWP

Page 5 of 10



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	Yates Petroleum Corporation	Slot	No. 1H SHL
Area	Chaves County, NM	Well	No. 1H
Field	(Ninja) Sec 11, T15S, R31E	Wellbore	No. 1H AWB
Facility	Ninja BMN State Com No. 1H		

WELLPATH DATA (224 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]
8394.00	0.700	85.100	8393.32	-21.19	12.83	22.90	709595.72	740735.39	33°02'06.252"N	103°47'03.444"W	0.46
8429.00	0.500	107.900	8428.32	-21.55	12.80	23.26	709596.08	740735.36	33°02'06.252"N	103°47'03.440"W	0.88
8460.00	1.200	315.400	8459.32	-21.42	12.99	23.16	709595.98	740735.55	33°02'06.254"N	103°47'03.441"W	5.35
8492.00	5.500	290.200	8491.26	-19.67	13.76	21.48	709594.30	740736.32	33°02'06.261"N	103°47'03.461"W	13.89
8524.00	9.900	284.700	8522.96	-15.45	14.99	17.38	709590.20	740737.54	33°02'06.274"N	103°47'03.509"W	13.93
8555.00	15.400	285.200	8553.20	-8.73	16.74	10.83	709583.64	740739.30	33°02'06.291"N	103°47'03.586"W	17.75
8587.00	20.300	286.600	8583.65	0.95	19.44	1.40	709574.22	740742.00	33°02'06.319"N	103°47'03.696"W	15.37
8618.00	26.400	285.700	8612.10	13.08	22.85	-10.40	709562.42	740745.41	33°02'06.353"N	103°47'03.835"W	19.71
8650.00	32.100	283.200	8640.01	28.57	26.72	-25.54	709547.28	740749.28	33°02'06.392"N	103°47'04.012"W	18.21
8681.00	37.500	281.800	8665.45	46.17	30.53	-42.81	709530.01	740753.09	33°02'06.431"N	103°47'04.215"W	17.61
8712.00	42.500	277.800	8689.20	66.06	33.89	-62.43	709510.39	740756.44	33°02'06.465"N	103°47'04.445"W	18.13
8744.00	47.600	273.300	8711.80	88.68	36.03	-84.96	709487.86	740758.59	33°02'06.487"N	103°47'04.710"W	18.78
8775.00	52.200	272.000	8731.77	112.32	37.12	-108.64	709464.19	740759.68	33°02'06.499"N	103°47'04.988"W	15.18
8806.00	56.000	274.000	8749.94	137.37	38.45	-133.71	709439.12	740761.00	33°02'06.514"N	103°47'05.282"W	13.32
8838.00	60.200	274.100	8766.85	164.50	40.36	-160.80	709412.03	740762.92	33°02'06.534"N	103°47'05.600"W	13.13
8870.00	63.200	275.100	8782.02	192.64	42.63	-188.88	709383.95	740765.18	33°02'06.558"N	103°47'05.930"W	9.77
8902.00	65.700	274.600	8795.82	221.49	45.07	-217.65	709355.18	740767.62	33°02'06.583"N	103°47'06.268"W	7.94
8934.00	69.200	276.900	8808.09	251.03	48.03	-247.05	709325.79	740770.59	33°02'06.614"N	103°47'06.613"W	12.79
8966.00	74.700	277.800	8818.00	281.45	51.93	-277.21	709295.63	740774.49	33°02'06.654"N	103°47'06.967"W	17.39
8998.00	77.400	279.100	8825.71	312.49	56.49	-307.92	709264.91	740779.05	33°02'06.701"N	103°47'07.327"W	9.31
9030.00	81.900	283.400	8831.46	343.86	62.64	-338.78	709234.06	740785.20	33°02'06.764"N	103°47'07.689"W	19.30
9062.00	86.400	282.800	8834.72	375.50	69.85	-369.78	709203.06	740792.41	33°02'06.837"N	103°47'08.053"W	14.19
9094.00	88.800	283.700	8836.06	407.27	77.18	-400.90	709171.95	740799.74	33°02'06.911"N	103°47'08.418"W	8.01
9125.00	90.900	284.300	8836.15	438.04	84.68	-430.97	709141.87	740807.23	33°02'06.986"N	103°47'08.771"W	7.05
9157.00	93.000	283.800	8835.06	469.77	92.44	-462.00	709110.85	740815.00	33°02'07.065"N	103°47'09.135"W	6.75
9195.00	93.000	282.100	8833.07	507.51	100.95	-498.98	709073.87	740823.50	33°02'07.151"N	103°47'09.569"W	4.47
9226.00	91.000	280.200	8831.99	538.40	106.94	-529.37	709043.48	740829.49	33°02'07.212"N	103°47'09.925"W	8.90
9258.00	90.100	276.400	8831.68	570.38	111.56	-561.03	709011.83	740834.11	33°02'07.259"N	103°47'10.297"W	12.20
9289.00	90.100	273.100	8831.62	601.36	114.12	-591.92	708980.94	740836.68	33°02'07.286"N	103°47'10.660"W	10.65
9321.00	90.100	272.000	8831.57	633.26	116.55	-623.89	708948.97	740838.10	33°02'07.302"N	103°47'11.035"W	3.44



Actual Wellpath Report

No. 1H AWP

Page 6 of 10



INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	Yates Petroleum Corporation	Slot	No. 1H SHL
Area	Chaves County, NM	Well	No. 1H
Field	(Ninja) Sec 11, T15S, R31E	Wellbore	No. 1H AWB
Facility	Ninja BMN State Com No. 1H		

WELLPATH DATA (224 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]
9353.00	90.100	272.000	8831.51	665.14	116.66	-655.87	708916.99	740839.22	33°02'07.314"N	103°47'11.411"W	0.00
9385.00	90.000	272.100	8831.48	697.03	117.81	-687.85	708885.02	740840.36	33°02'07.327"N	103°47'11.786"W	0.44
9417.00	88.200	271.200	8831.99	728.89	118.73	-719.83	708853.04	740841.28	33°02'07.338"N	103°47'12.162"W	6.29
9448.00	88.000	270.400	8833.02	759.69	119.16	-750.81	708822.06	740841.71	33°02'07.344"N	103°47'12.526"W	2.66
9480.00	88.000	270.200	8834.13	791.46	119.33	-782.79	708790.08	740841.88	33°02'07.347"N	103°47'12.901"W	0.62
9511.00	88.100	272.300	8835.19	822.29	120.00	-813.76	708759.11	740842.56	33°02'07.356"N	103°47'13.265"W	6.78
9543.00	87.900	273.700	8836.30	854.19	121.68	-845.69	708727.18	740844.23	33°02'07.374"N	103°47'13.640"W	4.42
9575.00	88.000	274.800	8837.45	886.14	124.05	-877.59	708695.29	740846.60	33°02'07.399"N	103°47'14.015"W	3.45
9607.00	88.100	275.400	8838.54	918.10	126.89	-909.44	708663.43	740849.44	33°02'07.429"N	103°47'14.389"W	1.90
9639.00	88.000	275.100	8839.63	950.07	129.82	-941.29	708631.59	740852.37	33°02'07.459"N	103°47'14.762"W	0.99
9670.00	88.100	274.900	8840.68	981.04	132.52	-972.15	708600.73	740855.07	33°02'07.488"N	103°47'15.125"W	0.72
9702.00	90.100	274.900	8841.18	1013.01	135.25	-1004.03	708568.85	740857.80	33°02'07.516"N	103°47'15.499"W	6.25
9734.00	90.500	276.200	8841.02	1045.00	138.35	-1035.88	708537.00	740860.90	33°02'07.548"N	103°47'15.873"W	4.25
9766.00	90.600	276.300	8840.71	1077.00	141.83	-1067.69	708505.20	740864.38	33°02'07.585"N	103°47'16.246"W	0.44
9798.00	90.600	275.600	8840.37	1108.99	145.15	-1099.51	708473.37	740867.70	33°02'07.619"N	103°47'16.620"W	2.19
9830.00	90.500	274.500	8840.07	1140.97	147.96	-1131.39	708441.50	740870.51	33°02'07.649"N	103°47'16.994"W	3.45
9861.00	90.600	274.800	8839.77	1171.95	150.48	-1162.28	708410.61	740873.03	33°02'07.675"N	103°47'17.357"W	1.02
9893.00	90.500	277.100	8839.46	1203.94	153.79	-1194.11	708378.79	740876.34	33°02'07.709"N	103°47'17.731"W	7.19
9925.00	90.600	278.900	8839.15	1235.93	158.25	-1225.79	708347.10	740880.80	33°02'07.755"N	103°47'18.103"W	5.63
9957.00	91.500	280.100	8838.57	1267.89	163.53	-1257.35	708315.55	740886.08	33°02'07.809"N	103°47'18.473"W	4.69
9989.00	91.500	280.100	8837.73	1299.83	169.14	-1288.84	708284.06	740891.69	33°02'07.866"N	103°47'18.842"W	0.00
10021.00	91.600	280.200	8836.87	1331.77	174.77	-1320.33	708252.57	740897.32	33°02'07.924"N	103°47'19.212"W	0.44
10053.00	91.500	280.000	8836.00	1363.71	180.38	-1351.82	708221.08	740902.93	33°02'07.981"N	103°47'19.582"W	0.70
10084.00	91.600	280.100	8835.16	1394.65	185.79	-1382.33	708190.57	740908.34	33°02'08.036"N	103°47'19.940"W	0.46
10116.00	92.100	279.100	8834.13	1426.60	191.12	-1413.87	708159.04	740913.67	33°02'08.090"N	103°47'20.310"W	3.49
10148.00	92.600	275.300	8832.82	1458.56	195.13	-1445.58	708127.32	740917.68	33°02'08.131"N	103°47'20.682"W	11.97
10180.00	92.600	273.900	8831.36	1490.50	197.69	-1477.45	708095.46	740920.24	33°02'08.158"N	103°47'21.056"W	4.37
10212.00	92.700	273.800	8829.88	1522.42	199.84	-1509.34	708063.57	740922.39	33°02'08.181"N	103°47'21.431"W	0.44
10244.00	92.600	274.100	8828.40	1554.35	202.04	-1541.23	708031.68	740924.59	33°02'08.205"N	103°47'21.805"W	0.99
10275.00	92.800	273.700	8826.94	1585.27	204.15	-1572.12	708000.79	740926.70	33°02'08.227"N	103°47'22.168"W	1.24



Actual Wellpath Report

No. 1H AWP

Page 7 of 10



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	Yates Petroleum Corporation	Slot	No. 1H SHL
Area	Chaves County, NM	Well	No. 1H
Field	(Ninja) Sec 11, T15S, R31E	Wellbore	No. 1H AWP
Facility	Ninja BMN State Com No. 1H		

WELLPATH DATA (224 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]
10307.00	91.600	272.900	8825.72	1617.18	205.99	-1604.05	707968.87	740928.54	33°02'08.247"N	103°47'22.543"W	4.51
10339.00	91.600	272.400	8824.82	1649.08	207.47	-1636.00	707936.92	740930.02	33°02'08.263"N	103°47'22.918"W	1.56
10371.00	91.600	275.200	8823.93	1681.02	209.59	-1667.91	707905.01	740932.14	33°02'08.286"N	103°47'23.293"W	8.75
10402.00	91.600	276.300	8823.06	1712.00	212.69	-1698.75	707874.18	740935.24	33°02'08.318"N	103°47'23.655"W	3.55
10434.00	90.800	276.300	8822.39	1743.99	216.20	-1730.55	707842.38	740938.75	33°02'08.354"N	103°47'24.028"W	2.50
10466.00	89.600	276.200	8822.28	1775.99	219.69	-1762.35	707810.57	740942.23	33°02'08.391"N	103°47'24.401"W	3.76
10498.00	88.500	276.200	8822.81	1807.98	223.14	-1794.16	707778.77	740945.69	33°02'08.426"N	103°47'24.775"W	3.44
10530.00	88.000	275.900	8823.79	1839.96	226.51	-1825.97	707746.96	740949.06	33°02'08.461"N	103°47'25.148"W	1.82
10593.00	88.100	275.800	8825.93	1902.91	232.93	-1888.60	707684.33	740955.48	33°02'08.528"N	103°47'25.883"W	0.22
10657.00	88.000	275.300	8828.11	1966.86	239.12	-1952.27	707620.67	740961.66	33°02'08.592"N	103°47'26.631"W	0.80
10721.00	88.100	275.100	8830.29	2030.79	244.91	-2015.97	707556.97	740967.46	33°02'08.653"N	103°47'27.379"W	0.35
10753.00	88.100	275.400	8831.35	2062.76	247.84	-2047.82	707525.13	740970.39	33°02'08.684"N	103°47'27.753"W	0.94
10784.00	89.000	275.600	8832.13	2093.74	250.81	-2078.66	707494.28	740973.36	33°02'08.715"N	103°47'28.115"W	2.97
10814.00	90.100	275.400	8832.37	2123.73	253.69	-2108.52	707464.42	740976.23	33°02'08.745"N	103°47'28.465"W	3.73
10847.00	91.200	275.800	8832.00	2156.72	256.91	-2141.36	707431.59	740979.45	33°02'08.778"N	103°47'28.851"W	3.55
10879.00	92.100	276.100	8831.07	2188.70	260.22	-2173.18	707399.77	740982.77	33°02'08.813"N	103°47'29.224"W	2.96
10910.00	92.100	276.000	8829.94	2219.67	263.49	-2203.98	707368.97	740986.03	33°02'08.846"N	103°47'29.586"W	0.32
10928.00	92.100	275.600	8829.28	2237.66	265.30	-2221.88	707351.07	740987.85	33°02'08.865"N	103°47'29.796"W	2.22
10942.00	92.100	275.600	8828.77	2251.65	266.67	-2235.80	707337.15	740989.21	33°02'08.880"N	103°47'29.960"W	0.00
10974.00	92.000	275.500	8827.62	2283.62	269.76	-2267.63	707305.32	740992.31	33°02'08.912"N	103°47'30.333"W	0.44
11006.00	92.100	275.400	8826.48	2315.58	272.80	-2299.47	707273.49	740995.34	33°02'08.943"N	103°47'30.707"W	0.44
11038.00	92.100	275.200	8825.30	2347.55	275.75	-2331.31	707241.65	740998.30	33°02'08.974"N	103°47'31.081"W	0.62
11069.00	92.400	275.300	8824.09	2378.51	278.59	-2362.16	707210.81	741001.13	33°02'09.004"N	103°47'31.443"W	1.02
11101.00	93.300	275.100	8822.49	2410.46	281.48	-2393.98	707178.98	741004.03	33°02'09.034"N	103°47'31.817"W	2.88
11133.00	93.100	275.000	8820.71	2442.39	284.30	-2425.81	707147.16	741006.84	33°02'09.064"N	103°47'32.190"W	0.70
11164.00	91.100	274.900	8819.57	2473.35	286.97	-2456.67	707116.30	741009.51	33°02'09.092"N	103°47'32.553"W	6.46
11196.00	90.600	275.100	8819.10	2505.33	289.76	-2488.55	707084.42	741012.30	33°02'09.121"N	103°47'32.927"W	1.68
11228.00	90.900	275.100	8818.68	2537.31	292.60	-2520.42	707052.55	741015.15	33°02'09.151"N	103°47'33.301"W	0.94
11259.00	92.400	275.800	8817.79	2568.29	295.55	-2551.26	707021.71	741018.09	33°02'09.181"N	103°47'33.663"W	5.34
11291.00	92.200	276.300	8816.50	2600.26	298.92	-2583.06	706989.92	741021.46	33°02'09.216"N	103°47'34.037"W	1.68



Actual Wellpath Report

No. 1H AWP

Page 8 of 10



REFERENCE WELLPATH IDENTIFICATION

Operator	Yates Petroleum Corporation	Slot	No. 1H SHL
Area	Chaves County, NM	Well	No. 1H
Field	(Ninja) Sec 11, T15S, R31E	Wellbore	No. 1H AWP
Facility	Ninja BMN State Com No. 1H		

WELLPATH DATA (224 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]
11322.00	92.900	276.800	8815.12	2631.23	302.45	-2613.83	706959.15	741024.99	33°02'09.253"N	103°47'34.398"W	2.77
11354.00	93.200	277.000	8813.42	2663.18	306.29	-2645.55	706927.43	741028.83	33°02'09.292"N	103°47'34.770"W	1.13
11383.00	93.100	279.900	8811.83	2692.12	310.54	-2674.19	706898.79	741033.08	33°02'09.336"N	103°47'35.106"W	9.99
11415.00	93.100	280.700	8810.10	2724.02	316.26	-2705.63	706867.36	741038.80	33°02'09.394"N	103°47'35.475"W	2.50
11447.00	93.000	280.700	8808.39	2755.91	322.19	-2737.03	706835.96	741044.73	33°02'09.454"N	103°47'35.844"W	0.31
11479.00	93.100	280.600	8806.69	2787.79	328.09	-2768.43	706804.56	741050.63	33°02'09.514"N	103°47'36.212"W	0.44
11510.00	93.000	280.900	8805.04	2818.68	333.87	-2798.84	706774.15	741056.41	33°02'09.573"N	103°47'36.569"W	1.02
11542.00	93.000	280.900	8803.37	2850.56	339.91	-2830.22	706742.77	741062.45	33°02'09.634"N	103°47'36.937"W	0.00
11606.00	91.300	279.600	8800.97	2914.40	351.29	-2893.15	706679.84	741073.83	33°02'09.750"N	103°47'37.676"W	3.34
11638.00	90.900	279.200	8800.35	2946.37	356.52	-2924.72	706648.28	741079.05	33°02'09.803"N	103°47'38.046"W	1.77
11669.00	90.900	278.800	8799.86	2977.34	361.36	-2955.33	706617.67	741083.90	33°02'09.853"N	103°47'38.406"W	1.29
11733.00	91.100	278.100	8798.75	3041.31	370.77	-3018.63	706554.38	741093.31	33°02'09.949"N	103°47'39.148"W	1.14
11765.00	91.500	278.000	8798.02	3073.29	375.25	-3050.30	706522.70	741097.78	33°02'09.995"N	103°47'39.520"W	1.29
11796.00	91.700	278.200	8797.16	3104.28	379.61	-3080.98	706492.02	741102.15	33°02'10.040"N	103°47'39.880"W	0.91
11859.00	90.700	277.700	8795.84	3167.25	388.33	-3143.36	706429.65	741110.86	33°02'10.129"N	103°47'40.613"W	1.77
11890.00	90.700	277.800	8795.46	3198.24	392.51	-3174.08	706398.94	741115.04	33°02'10.172"N	103°47'40.973"W	0.32
11922.00	90.900	277.900	8795.01	3230.24	396.88	-3205.77	706367.24	741119.41	33°02'10.217"N	103°47'41.345"W	0.70
11954.00	91.200	277.700	8794.42	3262.23	401.22	-3237.47	706335.54	741123.75	33°02'10.262"N	103°47'41.717"W	1.13
11986.00	91.600	278.000	8793.64	3294.21	405.59	-3269.16	706303.86	741128.12	33°02'10.306"N	103°47'42.089"W	1.56
12018.00	91.700	277.800	8792.72	3326.20	409.98	-3300.85	706272.17	741132.52	33°02'10.352"N	103°47'42.461"W	0.70
12050.00	91.800	277.400	8791.74	3358.18	414.21	-3332.55	706240.47	741136.75	33°02'10.395"N	103°47'42.833"W	1.29
12082.00	91.400	276.800	8790.85	3390.17	418.17	-3364.29	706208.73	741140.70	33°02'10.436"N	103°47'43.206"W	2.25
12113.00	91.300	276.200	8790.12	3421.16	421.68	-3395.08	706177.94	741144.21	33°02'10.472"N	103°47'43.567"W	1.96
12145.00	91.400	276.400	8789.37	3453.15	425.19	-3426.88	706146.15	741147.72	33°02'10.508"N	103°47'43.941"W	0.70
12177.00	91.900	276.400	8788.44	3485.13	428.75	-3458.67	706114.36	741151.29	33°02'10.545"N	103°47'44.312"W	1.56
12240.00	89.200	275.300	8787.84	3548.11	435.17	-3521.33	706051.70	741157.71	33°02'10.612"N	103°47'45.049"W	4.63
12272.00	88.500	275.000	8788.48	3580.09	438.04	-3553.20	706019.84	741160.58	33°02'10.642"N	103°47'45.424"W	2.38
12304.00	88.200	275.300	8789.40	3612.06	440.91	-3585.05	705987.98	741163.45	33°02'10.672"N	103°47'45.798"W	1.33
12368.00	88.800	275.400	8791.08	3676.01	446.88	-3648.75	705924.29	741169.41	33°02'10.734"N	103°47'46.545"W	0.95
12399.00	89.300	275.900	8791.59	3707.00	449.93	-3679.60	705893.45	741172.46	33°02'10.766"N	103°47'46.908"W	2.28



Actual Wellpath Report

No. 1H AWP

Page 9 of 10



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	Yates Petroleum Corporation	Slot	No. 1H SHL
Area	Chaves County, NM	Well	No. 1H
Field	(Ninja) Sec 11, T15S, R31E	Wellbore	No. 1H AWB
Facility	Ninja BMN State Com No. 1H		

WELLPATH DATA (224 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]
12431.00	90.500	276.300	8791.65	3739.00	453.33	-3711.42	705861.63	741175.86	33°02'10.801"N	103°47'47.281"W	3.95
12462.00	91.100	276.600	8791.22	3769.99	456.81	-3742.22	705830.83	741179.35	33°02'10.837"N	103°47'47.643"W	2.16
12493.00	91.800	276.800	8790.43	3800.98	460.43	-3772.99	705800.05	741182.96	33°02'10.875"N	103°47'48.004"W	2.35
12525.00	92.100	277.300	8789.34	3832.96	464.35	-3804.73	705768.32	741186.89	33°02'10.915"N	103°47'48.377"W	1.82
12589.00	91.000	275.400	8787.61	3896.93	451.43	-3868.31	705704.74	741193.96	33°02'10.988"N	103°47'49.123"W	3.43
12621.00	90.200	274.500	8787.28	3928.91	474.19	-3900.19	705672.86	741196.72	33°02'11.017"N	103°47'49.497"W	3.76
12652.00	90.100	274.200	8787.20	3959.88	476.54	-3931.10	705641.96	741199.07	33°02'11.042"N	103°47'49.860"W	1.02
12684.00	90.100	274.300	8787.14	3991.85	478.91	-3963.01	705610.05	741201.44	33°02'11.067"N	103°47'50.235"W	0.31
12748.00	90.700	274.300	8786.69	4055.78	483.71	-4026.83	705546.23	741206.24	33°02'11.118"N	103°47'50.984"W	0.94
12811.00	91.100	274.600	8785.70	4118.71	488.60	-4089.63	705483.43	741211.13	33°02'11.169"N	103°47'51.722"W	0.79
12874.00	91.300	274.200	8784.38	4181.64	493.43	-4152.43	705420.64	741215.96	33°02'11.220"N	103°47'52.459"W	0.71
12938.00	89.300	272.600	8784.05	4245.51	497.23	-4216.32	705356.76	741219.76	33°02'11.261"N	103°47'53.209"W	4.00
12998.00	90.100	272.900	8784.36	4305.35	500.11	-4276.25	705296.83	741222.64	33°02'11.292"N	103°47'53.913"W	1.42
13050.00†	90.100	272.900	8784.27	4357.22	502.74	-4328.18	705244.90	741225.27	33°02'11.321"N	103°47'54.523"W	0.00

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
No. 1H BHL		8777.00	576.48	-4749.49	704823.62	741299.00	33°02'12.072"N	103°47'59.467"W	point



Actual Wellpath Report

No. 1H AWP

Page 10 of 10



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	Yates Petroleum Corporation	Slot	No. 1H SHL
Area	Chaves County, NM	Well	No. 1H
Field	(Ninja) Sec 11, T15S, R31E	Wellbore	No. 1H AWB
Facility	Ninja BMN State Com No. 1H		

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
0.00	8288.30	Generic gyro - continuous (Standard)	GYRO	No. 1H AWB
8288.30	9157.00	NaviTrak (Standard)	MWD	No. 1H AWB
9157.00	11196.00	AutoTrak G1 and G2 (Standard)	AT EXPRESS	No. 1H AWB
11196.00	12998.00	NaviTrak (Standard)	MWD 2	No. 1H AWB
12998.00	13050.00	Blind Drilling (std)	Projection to bit	No. 1H AWB

ACTUAL WELLPATH REPORT (CSV version)

Prepared by Baker Hughes INTEQ
Software System: WellArchitect@2.0

SUR: A-11-15s-31e, 990/N & 200/E
BHL: D-11-15s-31e, 487/N & 4528/E
API # 30-005-29083

REFERENCE WELLPATH IDENTIFICATION

Operator Yates Petroleum Corporation
Area Chaves County, NM
Field (Ninja) Sec 11, T15S, R31E
Facility Ninja BMN State Com No. 1H
Slot No. 1H SHL
Well No. 1H
Wellbore No. 1H AWB
Wellpath No. 1H AWP
Sidetrack (none)

REPORT SETUP INFORMATION

Projection : NAD83 / TM New Mexico State Planes, Eastern Zone (3001), US feet
North Refe Grid
Scale 0.999942
Convergen 0.30° East
Software S WellArchitect@
User Victor Hernandez
Report Ger 3/27/2009 at 11:28:34 AM
DataBase:\WA_Midland\ev113114.xml

WELLPATH	Local North [ft]	Local East [ft]	Grid East [ft]	Grid North [ft]	Latitude	Longitude
Slot Location	0	0	709572.8	740722.6	33°02'06.1"	103°47'03.714"W
Facility Ref			709572.8	740722.6	33°02'06.1"	103°47'03.714"W
Field Refer			709572.8	740722.6	33°02'06.1"	103°47'03.714"W

WELLPATH DATUM

Calculation Minimum curvature
Horizontal Facility Center
Vertical Re Rig on No. 1H SHL (RT)
MD Refere Rig on No. 1H SHL (RT)
Field Vertic Mean Sea Level
Rig on No. 18.00ft
Rig on No. 4404.00ft
Facility Ver 0.00ft
Section Ori 0.00ft
Section Ori 0.00ft
Section Azi 276.92°

WELLPATH DATA Wellbore: No. 1H AWB				Wellpath: No. 1H AWP				† = interpolated/extrapolated
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	
0	0	187.08	0	0	0	0	0 709572.8	
62.3	0.21	187.08	62.3	0	-0.11	-0.01	709572.8	
158.3	0.14	153.48	158.3	-0.06	-0.39	0.02	709572.8	
250.2	0.29	163.13	250.2	-0.22	-0.72	0.13	709573	

342.2	0.12	173.16	342.2	-0.34	-1.03	0.21	709573
434.1	0.38	144.7	434.1	-0.56	-1.38	0.4	709573.2
526.1	0.32	163.72	526.1	-0.87	-1.87	0.65	709573.5
618	0.24	113.97	617.99	-1.16	-2.2	0.9	709573.7
710	0.26	101.83	709.99	-1.55	-2.32	1.28	709574.1
820.8	0.25	101.42	820.79	-2.04	-2.42	1.76	709574.6
912.7	0.21	133.42	912.69	-2.37	-2.57	2.08	709574.9
1004.7	0.17	137.06	1004.69	-2.61	-2.79	2.29	709575.1
1098.1	0.26	140.08	1098.09	-2.87	-3.05	2.53	709575.3
1191.5	0.35	141.98	1191.49	-3.23	-3.44	2.84	709575.7
1284.8	0.17	143.19	1284.79	-3.53	-3.78	3.1	709575.9
1378.2	0.24	91.92	1378.19	-3.82	-3.89	3.37	709576.2
1471.6	0.56	97.26	1471.59	-4.47	-3.96	4.02	709576.8
1565	0.34	102.94	1564.98	-5.2	-4.08	4.74	709577.6
1658.3	0.23	37.13	1658.28	-5.57	-3.99	5.13	709578
1751.7	0.35	66.06	1751.68	-5.91	-3.73	5.5	709578.3
1845.1	0.15	60.3	1845.08	-6.25	-3.55	5.87	709578.7
1938.5	0.72	46.75	1938.48	-6.73	-3.09	6.4	709579.2
2031.9	2.1	59.06	2031.85	-8.45	-1.8	8.3	709581.1
2125.3	2.43	66.73	2125.17	-11.52	-0.14	11.58	709584.4
2218.6	2.1	60.9	2218.4	-14.61	1.47	14.89	709587.7
2312	1.99	55.34	2311.74	-17.21	3.22	17.72	709590.5
2405.4	1.79	63.63	2405.09	-19.64	4.79	20.36	709593.2
2498.8	1.67	68.25	2498.45	-22.05	5.95	22.94	709595.8
2592.2	1.19	72.16	2591.82	-24.13	6.75	25.12	709597.9
2685.5	1	74.13	2685.1	-25.76	7.27	26.83	709599.7
2778.9	0.79	83.74	2778.49	-27.14	7.56	28.25	709601.1
2872.3	0.67	88.67	2871.88	-28.3	7.64	29.44	709602.3
2965.7	0.74	74.12	2965.28	-29.4	7.82	30.56	709603.4
3059	1.05	64.31	3058.56	-30.67	8.36	31.91	709604.7
3152.4	1.34	56.98	3151.94	-32.23	9.32	33.6	709606.4
3248.8	1.32	54.35	3248.32	-33.92	10.58	35.45	709608.3
3339.2	1.28	46.24	3338.69	-35.32	11.89	37.02	709609.8
3432.6	1.18	52.67	3432.07	-36.67	13.19	38.54	709611.4
3525.9	0.93	52.07	3525.36	-37.9	14.24	39.9	709612.7
3619.3	0.72	52.59	3618.75	-38.85	15.06	40.97	709613.8
3712.7	0.39	42.9	3712.14	-39.46	15.65	41.65	709614.5
3806.1	0.28	23.73	3805.54	-39.71	16.1	41.96	709614.8
3899.1	0.29	289.14	3898.54	-39.55	16.38	41.83	709614.6
3992.8	0.44	272.26	3992.24	-38.96	16.47	41.24	709614.1
4086.2	0.35	257.35	4085.64	-38.33	16.42	40.61	709613.4
4179.6	0.33	269.18	4179.03	-37.8	16.36	40.06	709612.9
4273	0.37	280.35	4272.43	-37.23	16.41	39.49	709612.3
4366.4	0.44	292.94	4365.83	-36.58	16.6	38.87	709611.7
4459.7	0.42	291.64	4459.13	-35.91	16.87	38.22	709611
4553.8	0.33	297.41	4553.23	-35.32	17.12	37.66	709610.5
4646.5	0.35	286.94	4645.92	-34.79	17.33	37.15	709610
4739.9	0.32	280.62	4739.32	-34.25	17.46	36.62	709609.4
4833.3	0.3	266.16	4832.72	-33.75	17.49	36.12	709608.9
4926.6	0.26	246.12	4926.02	-33.33	17.39	35.68	709608.5
5020	0.59	274.28	5019.42	-32.67	17.34	35.01	709607.8
5113.4	0.62	279.83	5112.81	-31.68	17.46	34.03	709606.9

5206.8	0.46	303.72	5206.21	-30.84	17.75	33.22	709606
5300.2	0.5	317.6	5299.61	-30.2	18.26	32.64	709605.5
5393.5	0.54	320	5392.9	-29.57	18.9	32.08	709604.9
5486.9	0.42	331.74	5486.3	-29.05	19.54	31.63	709604.5
5580.3	0.41	317.84	5579.7	-28.6	20.09	31.25	709604.1
5673.7	0.41	302.04	5673.09	-28.04	20.51	30.74	709603.6
5767.1	0.35	284.13	5766.49	-27.46	20.76	30.18	709603
5860.5	0.37	283.54	5859.89	-26.88	20.9	29.61	709602.4
5953.8	0.24	272.37	5953.19	-26.38	20.98	29.12	709601.9
6047.2	0.16	265.04	6046.59	-26.06	20.98	28.8	709601.6
6140.6	0.18	230.53	6139.99	-25.83	20.87	28.55	709601.4
6234	0.28	248.11	6233.39	-25.53	20.69	28.23	709601.1
6327.4	0.26	275.56	6326.79	-25.12	20.63	27.81	709600.6
6420.7	0.42	280.05	6420.08	-24.56	20.71	27.26	709600.1
6514.1	0.48	274.2	6513.48	-23.83	20.8	26.53	709599.4
6607.5	0.4	265.22	6606.88	-23.12	20.8	25.82	709598.6
6700.9	0.38	239.28	6700.28	-22.56	20.61	25.23	709598
6794.2	0.37	227.09	6793.57	-22.12	20.25	24.74	709597.6
6887.6	0.49	236.92	6886.97	-21.62	19.83	24.18	709597
6981	0.55	251.05	6980.37	-20.91	19.46	23.42	709596.2
7074.4	0.48	267.3	7073.76	-20.12	19.3	22.61	709595.4
7167.8	0.41	283.13	7167.16	-19.4	19.36	21.89	709594.7
7261.1	0.31	283.07	7260.46	-18.82	19.49	21.32	709594.1
7354.5	0.27	277.43	7353.86	-18.35	19.57	20.86	709593.7
7447.9	0.2	171.48	7447.26	-18.17	19.44	20.66	709593.5
7541.3	0.58	146.88	7540.66	-18.52	18.88	20.95	709593.8
7634.7	0.7	165.4	7634.05	-19.03	17.94	21.35	709594.2
7728.1	0.62	175.26	7727.44	-19.34	16.88	21.53	709594.4
7821.4	0.6	177.62	7820.74	-19.52	15.89	21.6	709594.4
7914.8	0.45	167.14	7914.13	-19.73	15.04	21.7	709594.5
8008.2	0.41	169.97	8007.53	-19.95	14.36	21.84	709594.7
8101.6	0.33	189.4	8100.93	-20.03	13.76	21.85	709594.7
8195	0.23	187.43	8194.33	-20.02	13.31	21.78	709594.6
8288.3	0.35	125.45	8287.63	-20.27	12.96	21.99	709594.8
8394	0.7	85.1	8393.32	-21.19	12.83	22.9	709595.7
8429	0.5	107.9	8428.32	-21.55	12.8	23.26	709596.1
8460	1.2	315.4	8459.32	-21.42	12.99	23.16	709596
8492	5.5	290.2	8491.26	-19.67	13.76	21.48	709594.3
8524	9.9	284.7	8522.96	-15.45	14.99	17.38	709590.2
8555	15.4	285.2	8553.2	-8.73	16.74	10.83	709583.6
8587	20.3	286.6	8583.65	0.95	19.44	1.4	709574.2
8618	26.4	285.7	8612.1	13.08	22.85	-10.4	709562.4
8650	32.1	283.2	8640.01	28.57	26.72	-25.54	709547.3
8681	37.5	281.8	8665.45	46.17	30.53	-42.81	709530
8712	42.5	277.8	8689.2	66.06	33.89	-62.43	709510.4
8744	47.6	273.3	8711.8	88.68	36.03	-84.96	709487.9
8775	52.2	272	8731.77	112.32	37.12	-108.64	709464.2
8806	56	274	8749.94	137.37	38.45	-133.71	709439.1
8838	60.2	274.1	8766.85	164.5	40.36	-160.8	709412
8870	63.2	275.1	8782.02	192.64	42.63	-188.88	709384
8902	65.7	274.6	8795.82	221.49	45.07	-217.65	709355.2
8934	69.2	276.9	8808.09	251.03	48.03	-247.05	709325.8

8966	74.7	277.8	8818	281.45	51.93	-277.21	709295.6
8998	77.4	279.1	8825.71	312.49	56.49	-307.92	709264.9
9030	81.9	283.4	8831.46	343.86	62.64	-338.78	709234.1
9062	86.4	282.8	8834.72	375.5	69.85	-369.78	709203.1
9094	88.8	283.7	8836.06	407.27	77.18	-400.9	709172
9125	90.9	284.3	8836.15	438.04	84.68	-430.97	709141.9
9157	93	283.8	8835.06	469.77	92.44	-462	709110.9
9195	93	282.1	8833.07	507.51	100.95	-498.98	709073.9
9226	91	280.2	8831.99	538.4	106.94	-529.37	709043.5
9258	90.1	276.4	8831.68	570.38	111.56	-561.03	709011.8
9289	90.1	273.1	8831.62	601.36	114.12	-591.92	708980.9
9321	90.1	272	8831.57	633.26	115.55	-623.89	708949
9353	90.1	272	8831.51	665.14	116.66	-655.87	708917
9385	90	272.1	8831.48	697.03	117.81	-687.85	708885
9417	88.2	271.2	8831.99	728.89	118.73	-719.83	708853
9448	88	270.4	8833.02	759.69	119.16	-750.81	708822.1
9480	88	270.2	8834.13	791.46	119.33	-782.79	708790.1
9511	88.1	272.3	8835.19	822.29	120	-813.76	708759.1
9543	87.9	273.7	8836.3	854.19	121.68	-845.69	708727.2
9575	88	274.8	8837.45	886.14	124.05	-877.59	708695.3
9607	88.1	275.4	8838.54	918.1	126.89	-909.44	708663.4
9639	88	275.1	8839.63	950.07	129.82	-941.29	708631.6
9670	88.1	274.9	8840.68	981.04	132.52	-972.15	708600.7
9702	90.1	274.9	8841.18	1013.01	135.25	-1004.03	708568.9
9734	90.5	276.2	8841.02	1045	138.35	-1035.88	708537
9766	90.6	276.3	8840.71	1077	141.83	-1067.69	708505.2
9798	90.6	275.6	8840.37	1108.99	145.15	-1099.51	708473.4
9830	90.5	274.5	8840.07	1140.97	147.96	-1131.39	708441.5
9861	90.6	274.8	8839.77	1171.95	150.48	-1162.28	708410.6
9893	90.5	277.1	8839.46	1203.94	153.79	-1194.11	708378.8
9925	90.6	278.9	8839.15	1235.93	158.25	-1225.79	708347.1
9957	91.5	280.1	8838.57	1267.89	163.53	-1257.35	708315.6
9989	91.5	280.1	8837.73	1299.83	169.14	-1288.84	708284.1
10021	91.6	280.2	8836.87	1331.77	174.77	-1320.33	708252.6
10053	91.5	280	8836	1363.71	180.38	-1351.82	708221.1
10084	91.6	280.1	8835.16	1394.65	185.79	-1382.33	708190.6
10116	92.1	279.1	8834.13	1426.6	191.12	-1413.87	708159
10148	92.6	275.3	8832.82	1458.56	195.13	-1445.58	708127.3
10180	92.6	273.9	8831.36	1490.5	197.69	-1477.45	708095.5
10212	92.7	273.8	8829.88	1522.42	199.84	-1509.34	708063.6
10244	92.6	274.1	8828.4	1554.35	202.04	-1541.23	708031.7
10275	92.8	273.7	8826.94	1585.27	204.15	-1572.12	708000.8
10307	91.6	272.9	8825.72	1617.18	205.99	-1604.05	707968.9
10339	91.6	272.4	8824.82	1649.08	207.47	-1636	707936.9
10371	91.6	275.2	8823.93	1681.02	209.59	-1667.91	707905
10402	91.6	276.3	8823.06	1712	212.69	-1698.75	707874.2
10434	90.8	276.3	8822.39	1743.99	216.2	-1730.55	707842.4
10466	89.6	276.2	8822.28	1775.99	219.69	-1762.35	707810.6
10498	88.5	276.2	8822.81	1807.98	223.14	-1794.16	707778.8
10530	88	275.9	8823.79	1839.96	226.51	-1825.97	707747
10593	88.1	275.8	8825.93	1902.91	232.93	-1888.6	707684.3
10657	88	275.3	8828.11	1966.86	239.12	-1952.27	707620.7

10721	88.1	275.1	8830.29	2030.79	244.91	-2015.97	707557
10753	88.1	275.4	8831.35	2062.76	247.84	-2047.82	707525.1
10784	89	275.6	8832.13	2093.74	250.81	-2078.66	707494.3
10814	90.1	275.4	8832.37	2123.73	253.69	-2108.52	707464.4
10847	91.2	275.8	8832	2156.72	256.91	-2141.36	707431.6
10879	92.1	276.1	8831.07	2188.7	260.22	-2173.18	707399.8
10910	92.1	276	8829.94	2219.67	263.49	-2203.98	707369
10928	92.1	275.6	8829.28	2237.66	265.3	-2221.88	707351.1
10942	92.1	275.6	8828.77	2251.65	266.67	-2235.8	707337.2
10974	92	275.5	8827.62	2283.62	269.76	-2267.63	707305.3
11006	92.1	275.4	8826.48	2315.58	272.8	-2299.47	707273.5
11038	92.1	275.2	8825.3	2347.55	275.75	-2331.31	707241.7
11069	92.4	275.3	8824.09	2378.51	278.59	-2362.16	707210.8
11101	93.3	275.1	8822.49	2410.46	281.48	-2393.98	707179
11133	93.1	275	8820.71	2442.39	284.3	-2425.81	707147.2
11164	91.1	274.9	8819.57	2473.35	286.97	-2456.67	707116.3
11196	90.6	275.1	8819.1	2505.33	289.76	-2488.55	707084.4
11228	90.9	275.1	8818.68	2537.31	292.6	-2520.42	707052.6
11259	92.4	275.8	8817.79	2568.29	295.55	-2551.26	707021.7
11291	92.2	276.3	8816.5	2600.26	298.92	-2583.06	706989.9
11322	92.9	276.8	8815.12	2631.23	302.45	-2613.83	706959.2
11354	93.2	277	8813.42	2663.18	306.29	-2645.55	706927.4
11383	93.1	279.9	8811.83	2692.12	310.54	-2674.19	706898.8
11415	93.1	280.7	8810.1	2724.02	316.26	-2705.63	706867.4
11447	93	280.7	8808.39	2755.91	322.19	-2737.03	706836
11479	93.1	280.6	8806.69	2787.79	328.09	-2768.43	706804.6
11510	93	280.9	8805.04	2818.68	333.87	-2798.84	706774.2
11542	93	280.9	8803.37	2850.56	339.91	-2830.22	706742.8
11606	91.3	279.6	8800.97	2914.4	351.29	-2893.15	706679.8
11638	90.9	279.2	8800.35	2946.37	356.52	-2924.72	706648.3
11669	90.9	278.8	8799.86	2977.34	361.36	-2955.33	706617.7
11733	91.1	278.1	8798.75	3041.31	370.77	-3018.63	706554.4
11765	91.5	278	8798.02	3073.29	375.25	-3050.3	706522.7
11796	91.7	278.2	8797.16	3104.28	379.61	-3080.98	706492
11859	90.7	277.7	8795.84	3167.25	388.33	-3143.36	706429.7
11890	90.7	277.8	8795.46	3198.24	392.51	-3174.08	706398.9
11922	90.9	277.9	8795.01	3230.24	396.88	-3205.77	706367.2
11954	91.2	277.7	8794.42	3262.23	401.22	-3237.47	706335.5
11986	91.6	278	8793.64	3294.21	405.59	-3269.16	706303.9
12018	91.7	277.8	8792.72	3326.2	409.98	-3300.85	706272.2
12050	91.8	277.4	8791.74	3358.18	414.21	-3332.55	706240.5
12082	91.4	276.8	8790.85	3390.17	418.17	-3364.29	706208.7
12113	91.3	276.2	8790.12	3421.16	421.68	-3395.08	706177.9
12145	91.4	276.4	8789.37	3453.15	425.19	-3426.88	706146.2
12177	91.9	276.4	8788.44	3485.13	428.75	-3458.67	706114.4
12240	89.2	275.3	8787.84	3548.11	435.17	-3521.33	706051.7
12272	88.5	275	8788.48	3580.09	438.04	-3553.2	706019.8
12304	88.2	275.3	8789.4	3612.06	440.91	-3585.05	705988
12368	88.8	275.4	8791.08	3676.01	446.88	-3648.75	705924.3
12399	89.3	275.9	8791.59	3707	449.93	-3679.6	705893.5
12431	90.5	276.3	8791.65	3739	453.33	-3711.42	705861.6
12462	91.1	276.6	8791.22	3769.99	456.81	-3742.22	705830.8

	12493	91.8	276.8	8790.43	3800.98	460.43	-3772.99	705800.1
	12525	92.1	277.3	8789.34	3832.96	464.35	-3804.73	705768.3
	12589	91	275.4	8787.61	3896.93	471.43	-3868.31	705704.7
	12621	90.2	274.5	8787.28	3928.91	474.19	-3900.19	705672.9
	12652	90.1	274.2	8787.2	3959.88	476.54	-3931.1	705642
	12684	90.1	274.3	8787.14	3991.85	478.91	-3963.01	705610.1
	12748	90.7	274.3	8786.69	4055.78	483.71	-4026.83	705546.2
	12811	91.1	274.6	8785.7	4118.71	488.6	-4089.63	705483.4
	12874	91.3	274.2	8784.38	4181.64	493.43	-4152.43	705420.6
	12938	89.3	272.6	8784.05	4245.51	497.23	-4216.32	705356.8
	12998	90.1	272.9	8784.36	4305.35	500.11	-4276.25	705296.8
†	13050	90.1	272.9	8784.27	4357.22	502.74	-4328.18	705244.9

T A R G E T S

Name	MD	TVD	North	East	Grid East	Grid North	Latitude	Longitude
	[ft]	[ft]	[ft]	[ft]	[srv ft]	[srv ft]		
No. 1H BHL		8777	576.48	-4749.49	704823.6	741299	33°02'12.0"	103°47'59.0"

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

Log Name/	Start MD	End MD	Pos Unc	Model
	[ft]	[ft]		
GYRO	0	8288.3		Generic gyro - continuous (Standard)
MWD	8288.3	9157		NaviTrak (Standard)
AT EXPRE	9157	11196		AutoTrak G1 and G2 (Standard)
MWD 2	11196	12998		NaviTrak (Standard)
Projection 1	12998	13050		Blind Drilling (std)

SUR:A-11-15s-31e, 990/N & 200/E
 BHL: D-11-15s-31e, 487/N & 4528/E
 API # 30-005-29083

Ninja BMN State Com No. 1H Final Survey Data.txt

~VERSION INFORMATION

VERS. 2.0 : CWLS LOG ASCII STANDARD-VERSION 2.0

WRAP. NO : ASCII DATA SECTION CONTAINS ONE ROW PER WELLPATH STATION

~WELL INFORMATION

#MNEM	.UNITS	DATA	:DESCRIPTION
#----	-----	----	-----
STRT	.ft	0.00	:START MD
STOP	.ft	13050.00	:STOP MD
STEP	.ft	13050.00	:STEP
NULL	.	-999.99	:NULL
COMP	.	Yates Petroleum Corporation	:OPERATOR
WELL	.	No. 1H	:WELL
FLD	.	(Ninja) Sec 11, T15S, R31E	:FIELD
LOC	.	Chaves County, NM	:AREA (aka: Location
PROV	.		:PROVINCE
SRVC	.	INTEQ	:CONTRACTOR
DATE	.	03/07/2009	:LOG REV DATE
API	.	30-005-64092	:API NUMBER

~OTHER INFORMATION

#Software: WellArchitect(R) Version 2.0

#MNEM	.UNITS	DATA	:DESCRIPTION
#----	-----	----	-----
WPTYPE	.	ACTUAL WELLPATH	:WELLPATH TYPE
FACILITY	.	Ninja BMN State Com No. 1H	:FACILITY
SLOT	.	No. 1H SHL	:SLOT
WELLBORE	.	No. 1H AWB	:WELLBORE
WELLPATH	.	No. 1H AWP	:WELLPATH
MDREFPT	.	Rig on No. 1H SHL (RT)	:MD REFERENCE POINT
TVDREFPT	.	Rig on No. 1H SHL (RT)	:TVD REFERENCE POINT
LCLREFPT	.	Facility Center	:LOCAL COORDINATE
REFERENCE PT			
VSAZIMUTH.deg		276.92	:VERTICAL SECTION
AZIMUTH			
VSORIGN .ft		0.00	:VERTICAL SECTION ORIGIN
NORTH			
VSORIGE .ft		0.00	:VERTICAL SECTION ORIGIN
EAST			

~CURVE (WELLPATH) INFORMATION

#MNEM	.UNITS	:DESCRIPTION
#----	-----	-----
MD	.ft	:MEASURED DEPTH
INCL	.deg	:INCLINATION
AZIMUTH	.deg	:AZIMUTH
TVD	.ft	:TRUE VERTICAL DEPTH
SECT	.ft	:CROSS SECTION (CURTAIN/VERTICAL)
LOCALN	.ft	:LOCAL NORTH
LOCALE	.ft	:LOCAL EAST
GRIDE	.srv ft	:GRID EAST
GRIDN	.srv ft	:GRID NORTH
LAT	.deg	:LATITUDE
LONG	.deg	:LONGITUDE
DLS	.deg/100ft	:DOGLEG SEVERITY

~ASCII DATA

#	MD	INCL	AZIMUTH	TVD	SECT	LOCALN	LOCALE	GRIDE
#	feet	deg	deg	feet	feet	feet	feet	
			deg	deg/100ft				

Ninja BMN State Com No. 1H Final Survey Data.txt

#	-----	-----	-----	-----	-----	-----	-----
0.00	0.00	187.08	0.00	0.00	0.00	0.00	709572.82
740722.56	33.0350351	-103.7843650	0.00	0.00	0.00	0.00	709572.81
62.30	0.21	187.08	62.30	0.00	-0.11	-0.01	709572.84
740722.45	33.0350348	-103.7843651	0.34	0.06	-0.39	0.02	709572.95
158.30	0.14	153.48	158.30	0.13	-0.72	0.13	709573.03
740722.17	33.0350340	-103.7843650	0.17	0.34	-1.03	0.21	709573.22
250.20	0.29	163.13	250.20	0.19	-1.38	0.40	709573.47
740721.84	33.0350331	-103.7843646	0.17	0.56	-1.87	0.65	709573.72
342.20	0.12	173.16	342.20	0.31	-2.20	0.90	709574.10
740721.53	33.0350323	-103.7843643	0.19	0.06	-2.42	1.28	709574.58
434.10	0.38	144.70	434.10	0.05	-2.57	2.08	709574.90
740721.18	33.0350313	-103.7843637	0.31	0.14	-2.79	2.29	709575.11
526.10	0.32	163.72	526.10	0.05	-3.05	2.53	709575.34
740720.69	33.0350299	-103.7843629	0.14	0.10	-3.44	2.84	709575.66
618.00	0.24	113.97	617.99	0.10	-3.78	3.10	709575.91
740720.36	33.0350290	-103.7843621	0.27	0.19	-3.89	3.37	709576.19
710.00	0.26	101.83	709.99	0.20	-3.96	4.02	709576.84
740720.24	33.0350287	-103.7843609	0.06	0.34	-4.08	4.74	709577.56
820.80	0.25	101.42	820.79	0.24	-3.99	5.13	709577.95
740720.14	33.0350284	-103.7843593	0.01	0.35	-3.73	5.50	709578.32
912.70	0.21	133.42	912.69	0.20	-3.55	5.87	709578.69
740719.99	33.0350280	-103.7843583	0.14	0.22	-3.09	6.40	709579.22
1004.70	0.17	137.06	1004.69	0.62	-1.80	8.30	709581.12
740719.77	33.0350274	-103.7843576	0.05	1.50	-0.14	11.58	709584.40
1098.10	0.26	140.08	1098.09	0.48	1.47	14.89	709587.71
740719.51	33.0350267	-103.7843568	0.10	0.43	3.22	17.72	709590.54
1191.50	0.35	141.98	1191.49	0.24	4.79	20.36	709593.18
740719.12	33.0350256	-103.7843558	0.10	0.36	5.95	22.94	709595.75
1284.80	0.17	143.19	1284.79	0.20	6.75	25.12	709597.94
740718.78	33.0350247	-103.7843550	0.19	0.52	7.27	26.83	709599.65
1378.20	0.24	91.92	1378.19	0.21	7.56	28.25	709601.07
740718.67	33.0350244	-103.7843541	0.20				
1471.60	0.56	97.26	1471.59				
740718.60	33.0350242	-103.7843519	0.34				
1565.00	0.34	102.94	1564.98				
740718.48	33.0350238	-103.7843496	0.24				
1658.30	0.23	37.13	1658.28				
740718.57	33.0350241	-103.7843483	0.35				
1751.70	0.35	66.06	1751.68				
740718.83	33.0350248	-103.7843471	0.20				
1845.10	0.15	60.30	1845.08				
740719.01	33.0350253	-103.7843459	0.22				
1938.50	0.72	46.75	1938.48				
740719.47	33.0350265	-103.7843442	0.62				
2031.90	2.10	59.06	2031.85				
740720.76	33.0350300	-103.7843380	1.50				
2125.30	2.43	66.73	2125.17				
740722.42	33.0350345	-103.7843272	0.48				
2218.60	2.10	60.90	2218.40				
740724.03	33.0350389	-103.7843164	0.43				
2312.00	1.99	55.34	2311.74				
740725.78	33.0350437	-103.7843071	0.24				
2405.40	1.79	63.63	2405.09				
740727.35	33.0350480	-103.7842985	0.36				
2498.80	1.67	68.25	2498.45				
740728.51	33.0350511	-103.7842901	0.20				
2592.20	1.19	72.16	2591.82				
740729.31	33.0350533	-103.7842829	0.52				
2685.50	1.00	74.13	2685.10				
740729.83	33.0350547	-103.7842773	0.21				
2778.90	0.79	83.74	2778.49				

Ninja BMN State Com No. 1H Final Survey Data.txt							
740730.12	33.0350555	-103.7842727	0.28				
2872.30	0.67	88.67	2871.88	-28.30	7.64	29.44	709602.26
740730.20	33.0350557	-103.7842688	0.14				
2965.70	0.74	74.12	2965.28	-29.40	7.82	30.56	709603.38
740730.38	33.0350562	-103.7842651	0.21				
3059.00	1.05	64.31	3058.56	-30.67	8.36	31.91	709604.73
740730.92	33.0350576	-103.7842607	0.37				
3152.40	1.34	56.98	3151.94	-32.23	9.32	33.60	709606.42
740731.88	33.0350602	-103.7842552	0.35				
3248.80	1.32	54.35	3248.32	-33.92	10.58	35.45	709608.27
740733.14	33.0350637	-103.7842492	0.07				
3339.20	1.28	46.24	3338.69	-35.32	11.89	37.02	709609.84
740734.45	33.0350672	-103.7842440	0.21				
3432.60	1.18	52.67	3432.07	-36.67	13.19	38.54	709611.36
740735.75	33.0350708	-103.7842390	0.18				
3525.90	0.93	52.07	3525.36	-37.90	14.24	39.90	709612.72
740736.80	33.0350737	-103.7842346	0.27				
3619.30	0.72	52.59	3618.75	-38.85	15.06	40.97	709613.78
740737.62	33.0350759	-103.7842311	0.22				
3712.70	0.39	42.90	3712.14	-39.46	15.65	41.65	709614.47
740738.21	33.0350775	-103.7842288	0.37				
3806.10	0.28	23.73	3805.54	-39.71	16.10	41.96	709614.78
740738.65	33.0350787	-103.7842278	0.17				
3899.10	0.29	289.14	3898.54	-39.55	16.38	41.83	709614.64
740738.94	33.0350795	-103.7842283	0.45				
3992.80	0.44	272.26	3992.24	-38.96	16.47	41.24	709614.06
740739.03	33.0350798	-103.7842302	0.20				
4086.20	0.35	257.35	4085.64	-38.33	16.42	40.61	709613.42
740738.98	33.0350797	-103.7842322	0.15				
4179.60	0.33	269.18	4179.03	-37.80	16.36	40.06	709612.88
740738.92	33.0350795	-103.7842340	0.08				
4273.00	0.37	280.35	4272.43	-37.23	16.41	39.49	709612.31
740738.97	33.0350796	-103.7842359	0.08				
4366.40	0.44	292.94	4365.83	-36.58	16.60	38.87	709611.68
740739.16	33.0350802	-103.7842379	0.12				
4459.70	0.42	291.64	4459.13	-35.91	16.87	38.22	709611.04
740739.43	33.0350809	-103.7842400	0.02				
4553.80	0.33	297.41	4553.23	-35.32	17.12	37.66	709610.48
740739.68	33.0350816	-103.7842418	0.10				
4646.50	0.35	286.94	4645.92	-34.79	17.33	37.15	709609.97
740739.88	33.0350822	-103.7842435	0.07				
4739.90	0.32	280.62	4739.32	-34.25	17.46	36.62	709609.44
740740.02	33.0350826	-103.7842452	0.05				
4833.30	0.30	266.16	4832.72	-33.75	17.49	36.12	709608.94
740740.05	33.0350826	-103.7842469	0.09				
4926.60	0.26	246.12	4926.02	-33.33	17.39	35.68	709608.50
740739.95	33.0350824	-103.7842483	0.11				
5020.00	0.59	274.28	5019.42	-32.67	17.34	35.01	709607.83
740739.90	33.0350822	-103.7842505	0.41				
5113.40	0.62	279.83	5112.81	-31.68	17.46	34.03	709606.85
740740.02	33.0350826	-103.7842537	0.07				
5206.80	0.46	303.72	5206.21	-30.84	17.75	33.22	709606.04
740740.31	33.0350834	-103.7842563	0.29				
5300.20	0.50	317.60	5299.61	-30.20	18.26	32.64	709605.45
740740.82	33.0350848	-103.7842582	0.13				
5393.50	0.54	320.00	5392.90	-29.57	18.90	32.08	709604.90
740741.46	33.0350866	-103.7842600	0.05				
5486.90	0.42	331.74	5486.30	-29.05	19.54	31.63	709604.45
740742.10	33.0350883	-103.7842615	0.17				
5580.30	0.41	317.84	5579.70	-28.60	20.09	31.25	709604.07
740742.65	33.0350899	-103.7842627	0.11				
5673.70	0.41	302.04	5673.09	-28.04	20.51	30.74	709603.56
740743.07	33.0350910	-103.7842644	0.12				

	Ninja BMN State Com No. 1H			Final Survey Data.txt			
5767.10	0.35	284.13	5766.49	-27.46	20.76	30.18	709603.00
740743.32	33.0350917	-103.7842662	0.14				
5860.50	0.37	283.54	5859.89	-26.88	20.90	29.61	709602.43
740743.46	33.0350921	-103.7842680	0.02				
5953.80	0.24	272.37	5953.19	-26.38	20.98	29.12	709601.94
740743.54	33.0350923	-103.7842696	0.15				
6047.20	0.16	265.04	6046.59	-26.06	20.98	28.80	709601.62
740743.53	33.0350923	-103.7842707	0.09				
6140.60	0.18	230.53	6139.99	-25.83	20.87	28.55	709601.37
740743.43	33.0350921	-103.7842715	0.11				
6234.00	0.28	248.11	6233.39	-25.53	20.69	28.23	709601.05
740743.25	33.0350916	-103.7842725	0.13				
6327.40	0.26	275.56	6326.79	-25.12	20.63	27.81	709600.62
740743.19	33.0350914	-103.7842739	0.14				
6420.70	0.42	280.05	6420.08	-24.56	20.71	27.26	709600.08
740743.27	33.0350916	-103.7842757	0.17				
6514.10	0.48	274.20	6513.48	-23.83	20.80	26.53	709599.35
740743.36	33.0350919	-103.7842781	0.08				
6607.50	0.40	265.22	6606.88	-23.12	20.80	25.82	709598.63
740743.36	33.0350919	-103.7842804	0.11				
6700.90	0.38	239.28	6700.28	-22.56	20.61	25.23	709598.04
740743.17	33.0350914	-103.7842823	0.19				
6794.20	0.37	227.09	6793.57	-22.12	20.25	24.74	709597.56
740742.81	33.0350904	-103.7842839	0.09				
6887.60	0.49	236.92	6886.97	-21.62	19.83	24.18	709597.00
740742.38	33.0350892	-103.7842858	0.15				
6981.00	0.55	251.05	6980.37	-20.91	19.46	23.42	709596.24
740742.02	33.0350883	-103.7842882	0.15				
7074.40	0.48	267.30	7073.76	-20.12	19.30	22.61	709595.43
740741.86	33.0350878	-103.7842909	0.17				
7167.80	0.41	283.13	7167.16	-19.40	19.36	21.89	709594.71
740741.91	33.0350880	-103.7842932	0.15				
7261.10	0.31	283.07	7260.46	-18.82	19.49	21.32	709594.14
740742.05	33.0350884	-103.7842951	0.11				
7354.50	0.27	277.43	7353.86	-18.35	19.57	20.86	709593.68
740742.13	33.0350886	-103.7842966	0.05				
7447.90	0.20	171.48	7447.26	-18.17	19.44	20.66	709593.48
740742.00	33.0350882	-103.7842973	0.40				
7541.30	0.58	146.88	7540.66	-18.52	18.88	20.95	709593.77
740741.44	33.0350867	-103.7842963	0.44				
7634.70	0.70	165.40	7634.05	-19.03	17.94	21.35	709594.17
740740.50	33.0350841	-103.7842950	0.25				
7728.10	0.62	175.26	7727.44	-19.34	16.88	21.53	709594.35
740739.44	33.0350812	-103.7842945	0.15				
7821.40	0.60	177.62	7820.74	-19.52	15.89	21.60	709594.41
740738.45	33.0350785	-103.7842943	0.03				
7914.80	0.45	167.14	7914.13	-19.73	15.04	21.70	709594.52
740737.60	33.0350761	-103.7842940	0.19				
8008.20	0.41	169.97	8007.53	-19.95	14.36	21.84	709594.66
740736.92	33.0350742	-103.7842935	0.05				
8101.60	0.33	189.40	8100.93	-20.03	13.76	21.85	709594.67
740736.32	33.0350726	-103.7842935	0.16				
8195.00	0.23	187.43	8194.33	-20.02	13.31	21.78	709594.60
740735.87	33.0350714	-103.7842937	0.11				
8288.30	0.35	125.45	8287.63	-20.27	12.96	21.99	709594.81
740735.52	33.0350704	-103.7842930	0.34				
8394.00	0.70	85.10	8393.32	-21.19	12.83	22.90	709595.72
740735.39	33.0350700	-103.7842901	0.46				
8429.00	0.50	107.90	8428.32	-21.55	12.80	23.26	709596.08
740735.36	33.0350699	-103.7842889	0.88				
8460.00	1.20	315.40	8459.32	-21.42	12.99	23.16	709595.98
740735.55	33.0350705	-103.7842892	5.35				
8492.00	5.50	290.20	8491.26	-19.67	13.76	21.48	709594.30

Ninja BMN State Com No. 1H Final Survey Data.txt

740736.32	33.0350726	-103.7842947	13.89			
8524.00	9.90	284.70	8522.96	-15.45	14.99	17.38
740737.54	33.0350760	-103.7843080	13.93			709590.20
8555.00	15.40	285.20	8553.20	-8.73	16.74	10.83
740739.30	33.0350810	-103.7843294	17.75			709583.64
8587.00	20.30	286.60	8583.65	0.95	19.44	1.40
740742.00	33.0350885	-103.7843601	15.37			709574.22
8618.00	26.40	285.70	8612.10	13.08	22.85	-10.40
740745.41	33.0350980	-103.7843985	19.71			709562.42
8650.00	32.10	283.20	8640.01	28.57	26.72	-25.54
740749.28	33.0351089	-103.7844479	18.21			709547.28
8681.00	37.50	281.80	8665.45	46.17	30.53	-42.81
740753.09	33.0351196	-103.7845042	17.61			709530.01
8712.00	42.50	277.80	8689.20	66.06	33.89	-62.43
740756.44	33.0351291	-103.7845681	18.13			709510.39
8744.00	47.60	273.30	8711.80	88.68	36.03	-84.96
740758.59	33.0351354	-103.7846416	18.78			709487.86
8775.00	52.20	272.00	8731.77	112.32	37.12	-108.64
740759.68	33.0351387	-103.7847188	15.18			709464.19
8806.00	56.00	274.00	8749.94	137.37	38.45	-133.71
740761.00	33.0351427	-103.7848006	13.32			709439.12
8838.00	60.20	274.10	8766.85	164.50	40.36	-160.80
740762.92	33.0351483	-103.7848890	13.13			709412.03
8870.00	63.20	275.10	8782.02	192.64	42.63	-188.88
740765.18	33.0351550	-103.7849806	9.77			709383.95
8902.00	65.70	274.60	8795.82	221.49	45.07	-217.65
740767.62	33.0351621	-103.7850744	7.94			709355.18
8934.00	69.20	276.90	8808.09	251.03	48.03	-247.05
740770.59	33.0351707	-103.7851702	12.79			709325.79
8966.00	74.70	277.80	8818.00	281.45	51.93	-277.21
740774.49	33.0351818	-103.7852686	17.39			709295.63
8998.00	77.40	279.10	8825.71	312.49	56.49	-307.92
740779.05	33.0351948	-103.7853687	9.31			709264.91
9030.00	81.90	283.40	8831.46	343.86	62.64	-338.78
740785.20	33.0352121	-103.7854693	19.30			709234.06
9062.00	86.40	282.80	8834.72	375.50	69.85	-369.78
740792.41	33.0352324	-103.7855703	14.19			709203.06
9094.00	88.80	283.70	8836.06	407.27	77.18	-400.90
740799.74	33.0352530	-103.7856717	8.01			709171.95
9125.00	90.90	284.30	8836.15	438.04	84.68	-430.97
740807.23	33.0352740	-103.7857697	7.05			709141.87
9157.00	93.00	283.80	8835.06	469.77	92.44	-462.00
740815.00	33.0352958	-103.7858708	6.75			709110.85
9195.00	93.00	282.10	8833.07	507.51	100.95	-498.98
740823.50	33.0353197	-103.7859913	4.47			709073.87
9226.00	91.00	280.20	8831.99	538.40	106.94	-529.37
740829.49	33.0353366	-103.7860904	8.90			709043.48
9258.00	90.10	276.40	8831.68	570.38	111.56	-561.03
740834.11	33.0353497	-103.7861936	12.20			709011.83
9289.00	90.10	273.10	8831.62	601.36	114.12	-591.92
740836.68	33.0353572	-103.7862944	10.65			708980.94
9321.00	90.10	272.00	8831.57	633.26	115.55	-623.89
740838.10	33.0353616	-103.7863986	3.44			708948.97
9353.00	90.10	272.00	8831.51	665.14	116.66	-655.87
740839.22	33.0353651	-103.7865030	0.00			708916.99
9385.00	90.00	272.10	8831.48	697.03	117.81	-687.85
740840.36	33.0353687	-103.7866073	0.44			708885.02
9417.00	88.20	271.20	8831.99	728.89	118.73	-719.83
740841.28	33.0353717	-103.7867116	6.29			708853.04
9448.00	88.00	270.40	8833.02	759.69	119.16	-750.81
740841.71	33.0353733	-103.7868127	2.66			708822.06
9480.00	88.00	270.20	8834.13	791.46	119.33	-782.79
740841.88	33.0353743	-103.7869170	0.62			708790.08

Ninja BMN State Com No. 1H Final Survey Data.txt							
9511.00	88.10	272.30	8835.19	822.29	120.00	-813.76	708759.11
740842.56	33.0353766	-103.7870181	6.78				
9543.00	87.90	273.70	8836.30	854.19	121.68	-845.69	708727.18
740844.23	33.0353816	-103.7871223	4.42				
9575.00	88.00	274.80	8837.45	886.14	124.05	-877.59	708695.29
740846.60	33.0353886	-103.7872263	3.45				
9607.00	88.10	275.40	8838.54	918.10	126.89	-909.44	708663.43
740849.44	33.0353969	-103.7873302	1.90				
9639.00	88.00	275.10	8839.63	950.07	129.82	-941.29	708631.59
740852.37	33.0354054	-103.7874340	0.99				
9670.00	88.10	274.90	8840.68	981.04	132.52	-972.15	708600.73
740855.07	33.0354132	-103.7875347	0.72				
9702.00	90.10	274.90	8841.18	1013.01	135.25	-1004.03	708568.85
740857.80	33.0354212	-103.7876386	6.25				
9734.00	90.50	276.20	8841.02	1045.00	138.35	-1035.88	708537.00
740860.90	33.0354301	-103.7877425	4.25				
9766.00	90.60	276.30	8840.71	1077.00	141.83	-1067.69	708505.20
740864.38	33.0354402	-103.7878462	0.44				
9798.00	90.60	275.60	8840.37	1108.99	145.15	-1099.51	708473.37
740867.70	33.0354497	-103.7879500	2.19				
9830.00	90.50	274.50	8840.07	1140.97	147.96	-1131.39	708441.50
740870.51	33.0354579	-103.7880540	3.45				
9861.00	90.60	274.80	8839.77	1171.95	150.48	-1162.28	708410.61
740873.03	33.0354653	-103.7881547	1.02				
9893.00	90.50	277.10	8839.46	1203.94	153.79	-1194.11	708378.79
740876.34	33.0354748	-103.7882585	7.19				
9925.00	90.60	278.90	8839.15	1235.93	158.25	-1225.79	708347.10
740880.80	33.0354875	-103.7883618	5.63				
9957.00	91.50	280.10	8838.57	1267.89	163.53	-1257.35	708315.55
740886.08	33.0355025	-103.7884647	4.69				
9989.00	91.50	280.10	8837.73	1299.83	169.14	-1288.84	708284.06
740891.69	33.0355184	-103.7885673	0.00				
10021.00	91.60	280.20	8836.87	1331.77	174.77	-1320.33	708252.57
740897.32	33.0355343	-103.7886700	0.44				
10053.00	91.50	280.00	8836.00	1363.71	180.38	-1351.82	708221.08
740902.93	33.0355502	-103.7887726	0.70				
10084.00	91.60	280.10	8835.16	1394.65	185.79	-1382.33	708190.57
740908.34	33.0355655	-103.7888721	0.46				
10116.00	92.10	279.10	8834.13	1426.60	191.12	-1413.87	708159.04
740913.67	33.0355806	-103.7889749	3.49				
10148.00	92.60	275.30	8832.82	1458.56	195.13	-1445.58	708127.32
740917.68	33.0355920	-103.7890783	11.97				
10180.00	92.60	273.90	8831.36	1490.50	197.69	-1477.45	708095.46
740920.24	33.0355995	-103.7891822	4.37				
10212.00	92.70	273.80	8829.88	1522.42	199.84	-1509.34	708063.57
740922.39	33.0356059	-103.7892863	0.44				
10244.00	92.60	274.10	8828.40	1554.35	202.04	-1541.23	708031.68
740924.59	33.0356124	-103.7893903	0.99				
10275.00	92.80	273.70	8826.94	1585.27	204.15	-1572.12	708000.79
740926.70	33.0356186	-103.7894910	1.44				
10307.00	91.60	272.90	8825.72	1617.18	205.99	-1604.05	707968.87
740928.54	33.0356241	-103.7895952	4.51				
10339.00	91.60	272.40	8824.82	1649.08	207.47	-1636.00	707936.92
740930.02	33.0356287	-103.7896994	1.56				
10371.00	91.60	275.20	8823.93	1681.02	209.59	-1667.91	707905.01
740932.14	33.0356349	-103.7898035	8.75				
10402.00	91.60	276.30	8823.06	1712.00	212.69	-1698.75	707874.18
740935.24	33.0356439	-103.7899040	3.55				
10434.00	90.80	276.30	8822.39	1743.99	216.20	-1730.55	707842.38
740938.75	33.0356540	-103.7900077	2.50				
10466.00	89.60	276.20	8822.28	1775.99	219.69	-1762.35	707810.57
740942.23	33.0356640	-103.7901115	3.76				
10498.00	88.50	276.20	8822.81	1807.98	223.14	-1794.16	707778.77

Ninja BMN State Com No. 1H Final Survey Data.txt

740945.69	33.0356740	-103.7902152	3.44			
10530.00	88.00	275.90	8823.79	1839.96	226.51	-1825.97 707746.96
740949.06	33.0356837	-103.7903189	1.82			
10593.00	88.10	275.80	8825.93	1902.91	232.93	-1888.60 707684.33
740955.48	33.0357022	-103.7905232	0.22			
10657.00	88.00	275.30	8828.11	1966.86	239.12	-1952.27 707620.67
740961.66	33.0357201	-103.7907308	0.80			
10721.00	88.10	275.10	8830.29	2030.79	244.91	-2015.97 707556.97
740967.46	33.0357370	-103.7909385	0.35			
10753.00	88.10	275.40	8831.35	2062.76	247.84	-2047.82 707525.13
740970.39	33.0357455	-103.7910424	0.94			
10784.00	89.00	275.60	8832.13	2093.74	250.81	-2078.66 707494.28
740973.36	33.0357541	-103.7911430	2.97			
10814.00	90.10	275.40	8832.37	2123.73	253.69	-2108.52 707464.42
740976.23	33.0357624	-103.7912404	3.73			
10847.00	91.20	275.80	8832.00	2156.72	256.91	-2141.36 707431.59
740979.45	33.0357717	-103.7913475	3.55			
10879.00	92.10	276.10	8831.07	2188.70	260.22	-2173.18 707399.77
740982.77	33.0357813	-103.7914512	2.96			
10910.00	92.10	276.00	8829.94	2219.67	263.49	-2203.98 707368.97
740986.03	33.0357907	-103.7915517	0.32			
10928.00	92.10	275.60	8829.28	2237.66	265.30	-2221.88 707351.07
740987.85	33.0357959	-103.7916100	2.22			
10942.00	92.10	275.60	8828.77	2251.65	266.67	-2235.80 707337.15
740989.21	33.0357999	-103.7916554	0.00			
10974.00	92.00	275.50	8827.62	2283.62	269.76	-2267.63 707305.32
740992.31	33.0358088	-103.7917592	0.44			
11006.00	92.10	275.40	8826.48	2315.58	272.80	-2299.47 707273.49
740995.34	33.0358176	-103.7918631	0.44			
11038.00	92.10	275.20	8825.30	2347.55	275.75	-2331.31 707241.65
740998.30	33.0358262	-103.7919669	0.62			
11069.00	92.40	275.30	8824.09	2378.51	278.59	-2362.16 707210.81
741001.13	33.0358344	-103.7920675	1.02			
11101.00	93.30	275.10	8822.49	2410.46	281.48	-2393.98 707178.98
741004.03	33.0358428	-103.7921713	2.88			
11133.00	93.10	275.00	8820.71	2442.39	284.30	-2425.81 707147.16
741006.84	33.0358510	-103.7922751	0.70			
11164.00	91.10	274.90	8819.57	2473.35	286.97	-2456.67 707116.30
741009.51	33.0358588	-103.7923758	6.46			
11196.00	90.60	275.10	8819.10	2505.33	289.76	-2488.55 707084.42
741012.30	33.0358669	-103.7924797	1.68			
11228.00	90.90	275.10	8818.68	2537.31	292.60	-2520.42 707052.55
741015.15	33.0358752	-103.7925836	0.94			
11259.00	92.40	275.80	8817.79	2568.29	295.55	-2551.26 707021.71
741018.09	33.0358837	-103.7926842	5.34			
11291.00	92.20	276.30	8816.50	2600.26	298.92	-2583.06 706989.92
741021.46	33.0358934	-103.7927879	1.68			
11322.00	92.90	276.80	8815.12	2631.23	302.45	-2613.83 706959.15
741024.99	33.0359035	-103.7928883	2.77			
11354.00	93.20	277.00	8813.42	2663.18	306.29	-2645.55 706927.43
741028.83	33.0359145	-103.7929917	1.13			
11383.00	93.10	279.90	8811.83	2692.12	310.54	-2674.19 706898.79
741033.08	33.0359266	-103.7930851	9.99			
11415.00	93.10	280.70	8810.10	2724.02	316.26	-2705.63 706867.36
741038.80	33.0359428	-103.7931875	2.50			
11447.00	93.00	280.70	8808.39	2755.91	322.19	-2737.03 706835.96
741044.73	33.0359595	-103.7932899	0.31			
11479.00	93.10	280.60	8806.69	2787.79	328.09	-2768.43 706804.56
741050.63	33.0359762	-103.7933923	0.44			
11510.00	93.00	280.90	8805.04	2818.68	333.87	-2798.84 706774.15
741056.41	33.0359925	-103.7934914	1.02			
11542.00	93.00	280.90	8803.37	2850.56	339.91	-2830.22 706742.77
741062.45	33.0360096	-103.7935937	0.00			

Ninja BMN State Com No. 1H Final Survey Data.txt							
11606.00	91.30	279.60	8800.97	2914.40	351.29	-2893.15	706679.84
741073.83	33.0360417	-103.7937988	3.34				
11638.00	90.90	279.20	8800.35	2946.37	356.52	-2924.72	706648.28
741079.05	33.0360565	-103.7939017	1.77				
11669.00	90.90	278.80	8799.86	2977.34	361.36	-2955.33	706617.67
741083.90	33.0360703	-103.7940015	1.29				
11733.00	91.10	278.10	8798.75	3041.31	370.77	-3018.63	706554.38
741093.31	33.0360970	-103.7942079	1.14				
11765.00	91.50	278.00	8798.02	3073.29	375.25	-3050.30	706522.70
741097.78	33.0361098	-103.7943112	1.29				
11796.00	91.70	278.20	8797.16	3104.28	379.61	-3080.98	706492.02
741102.15	33.0361222	-103.7944112	0.91				
11859.00	90.70	277.70	8795.84	3167.25	388.33	-3143.36	706429.65
741110.86	33.0361470	-103.7946146	1.77				
11890.00	90.70	277.80	8795.46	3198.24	392.51	-3174.08	706398.94
741115.04	33.0361589	-103.7947147	0.32				
11922.00	90.90	277.90	8795.01	3230.24	396.88	-3205.77	706367.24
741119.41	33.0361714	-103.7948181	0.70				
11954.00	91.20	277.70	8794.42	3262.23	401.22	-3237.47	706335.54
741123.75	33.0361838	-103.7949214	1.13				
11986.00	91.60	278.00	8793.64	3294.21	405.59	-3269.16	706303.86
741128.12	33.0361962	-103.7950248	1.56				
12018.00	91.70	277.80	8792.72	3326.20	409.98	-3300.85	706272.17
741132.52	33.0362088	-103.7951281	0.70				
12050.00	91.80	277.40	8791.74	3358.18	414.21	-3332.55	706240.47
741136.75	33.0362208	-103.7952314	1.29				
12082.00	91.40	276.80	8790.85	3390.17	418.17	-3364.29	706208.73
741140.70	33.0362322	-103.7953349	2.25				
12113.00	91.30	276.20	8790.12	3421.16	421.68	-3395.08	706177.94
741144.21	33.0362422	-103.7954354	1.96				
12145.00	91.40	276.40	8789.37	3453.15	425.19	-3426.88	706146.15
741147.72	33.0362523	-103.7955390	0.70				
12177.00	91.90	276.40	8788.44	3485.13	428.75	-3458.67	706114.36
741151.29	33.0362626	-103.7956427	1.56				
12240.00	89.20	275.30	8787.84	3548.11	435.17	-3521.33	706051.70
741157.71	33.0362811	-103.7958471	4.63				
12272.00	88.50	275.00	8788.48	3580.09	438.04	-3553.20	706019.84
741160.58	33.0362894	-103.7959510	2.38				
12304.00	88.20	275.30	8789.40	3612.06	440.91	-3585.05	705987.98
741163.45	33.0362978	-103.7960549	1.33				
12368.00	88.80	275.40	8791.08	3676.01	446.88	-3648.75	705924.29
741169.41	33.0363151	-103.7962626	0.95				
12399.00	89.30	275.90	8791.59	3707.00	449.93	-3679.60	705893.45
741172.46	33.0363239	-103.7963632	2.28				
12431.00	90.50	276.30	8791.65	3739.00	453.33	-3711.42	705861.63
741175.86	33.0363337	-103.7964670	3.95				
12462.00	91.10	276.60	8791.22	3769.99	456.81	-3742.22	705830.83
741179.35	33.0363437	-103.7965674	2.16				
12493.00	91.80	276.80	8790.43	3800.98	460.43	-3772.99	705800.05
741182.96	33.0363540	-103.7966678	2.35				
12525.00	92.10	277.30	8789.34	3832.96	464.35	-3804.73	705768.32
741186.89	33.0363653	-103.7967713	1.82				
12589.00	91.00	275.40	8787.61	3896.93	471.43	-3868.31	705704.74
741193.96	33.0363856	-103.7969786	3.43				
12621.00	90.20	274.50	8787.28	3928.91	474.19	-3900.19	705672.86
741196.72	33.0363936	-103.7970826	3.76				
12652.00	90.10	274.20	8787.20	3959.88	476.54	-3931.10	705641.96
741199.07	33.0364005	-103.7971834	1.02				
12684.00	90.10	274.30	8787.14	3991.85	478.91	-3963.01	705610.05
741201.44	33.0364075	-103.7972875	0.31				
12748.00	90.70	274.30	8786.69	4055.78	483.71	-4026.83	705546.23
741206.24	33.0364216	-103.7974956	0.94				
12811.00	91.10	274.60	8785.70	4118.71	488.60	-4089.63	705483.43

Ninja BMN State Com No. 1H Final Survey Data.txt

741211.13	33.0364359	-103.7977004	0.79				
12874.00	91.30	274.20	8784.38	4181.64	493.43	-4152.43	705420.64
741215.96	33.0364501	-103.7979053	0.71				
12938.00	89.30	272.60	8784.05	4245.51	497.23	-4216.32	705356.76
741219.76	33.0364614	-103.7981136	4.00				
12998.00	90.10	272.90	8784.36	4305.35	500.11	-4276.25	705296.83
741222.64	33.0364701	-103.7983091	1.42				
13050.00	90.10	272.90	8784.27	4357.22	502.74	-4328.18	705244.90
741225.27	33.0364781	-103.7984785	0.00				
#	-----	-----	-----	-----	-----	-----	-----
#	MD	INCL	AZIMUTH	TVD	SECT	LOCALN	LOCALE
GRIDN	LATITUDE	LONGITUDE	DLS				GRIDE
#	feet	deg	deg	feet	feet	feet	feet
	deg	deg	deg/100ft				
#	-----	-----	-----	-----	-----	-----	-----
	-----	-----	-----	-----	-----	-----	-----