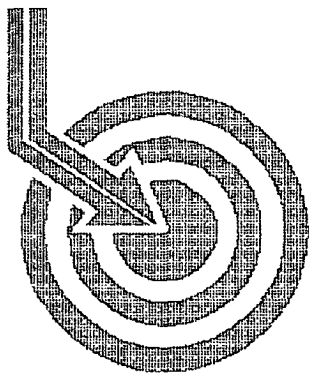




Scientific Drilling

30-015-34012

BASS ENTERPRISES

Field: Golden Lane (Morrow)
Site: Eddy County, NM
Well: Big Eddy #153
Wellpath: VH - Job #32K0905698
Survey: 11/12/05

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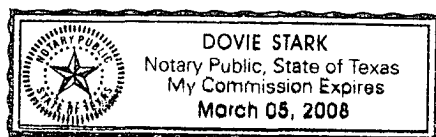
This survey is correct to the best of my knowledge
and is supported by actual field data.

[Signature].....Company Representative

Notorized this date 17th of January, 2008.

[Signature]

Notary Signature
County of Midland
State of Texas





Scientific Drilling International Survey Report

Company: BASS ENTERPRISES	Date: 1/17/2006	Time: 10:09:47	Page: 1
Field: Golden Lane (Morrow)	Co-ordinate(NE) Reference: Site: Eddy County, NM, Grid North		
Site: Eddy County, NM	Vertical (TVD) Reference: SITE 0.0		
Well: Big Eddy #153	Section (VS) Reference: Well (0.00N,0.00E,64.82Azi)		
Wellpath: VH - Job #32K0905698	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey: 11/12/05	Start Date: 11/12/2005
Company: KSRG 0'-13052'	
Company: Scientific Drilling Internatio	Engineer: Foster w/P&M
Tool: Keeper; Keeper Gyro	Tied-to: From Surface

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60.00	0.12	119.80	60.00	0.04	-0.03	0.05	0.20	0.06	119.80
90.00	0.14	138.24	90.00	0.06	-0.07	0.11	0.15	0.13	124.93
120.00	0.21	135.90	120.00	0.09	-0.14	0.17	0.23	0.22	129.86
150.00	0.22	103.37	150.00	0.16	-0.19	0.26	0.40	0.33	126.37
180.00	0.25	104.26	180.00	0.25	-0.22	0.38	0.10	0.44	120.26
210.00	0.40	69.15	210.00	0.41	-0.20	0.54	0.81	0.58	110.38
240.00	0.52	62.37	240.00	0.65	-0.10	0.76	0.44	0.77	97.60
270.00	0.47	61.77	270.00	0.91	0.02	0.99	0.17	0.99	88.86
300.00	0.55	84.10	300.00	1.16	0.09	1.24	0.71	1.25	85.74
330.00	0.64	69.82	329.99	1.47	0.17	1.54	0.58	1.55	83.89
360.00	0.73	71.83	359.99	1.82	0.28	1.88	0.31	1.90	81.46
390.00	0.77	52.89	389.99	2.21	0.46	2.22	0.83	2.27	78.22
420.00	0.63	62.25	419.99	2.57	0.66	2.53	0.60	2.62	75.34
450.00	0.98	82.90	449.98	2.98	0.77	2.93	1.50	3.03	75.27
480.00	1.12	86.01	479.98	3.50	0.82	3.48	0.50	3.58	76.69
510.00	1.47	76.28	509.97	4.15	0.93	4.15	1.37	4.25	77.30
540.00	1.91	75.55	539.96	5.02	1.15	5.00	1.47	5.13	77.05
570.00	2.12	76.51	569.94	6.05	1.40	6.03	0.71	6.19	76.88
600.00	2.26	78.07	599.92	7.17	1.66	7.15	0.51	7.33	76.95
630.00	2.43	77.73	629.89	8.37	1.91	8.35	0.57	8.56	77.08
660.00	2.46	81.33	659.87	9.60	2.15	9.60	0.52	9.84	77.40
690.00	2.61	79.49	689.84	10.88	2.37	10.91	0.57	11.17	77.76
720.00	2.67	79.54	719.80	12.22	2.62	12.27	0.20	12.55	77.95
750.00	2.78	81.53	749.77	13.59	2.85	13.68	0.48	13.97	78.22
780.00	2.89	78.61	779.73	15.02	3.11	15.14	0.61	15.45	78.39
810.00	2.75	77.85	809.70	16.46	3.41	16.58	0.48	16.93	78.38
840.00	2.92	78.25	839.66	17.90	3.72	18.03	0.57	18.41	78.35
870.00	3.05	81.37	869.62	19.41	3.99	19.57	0.69	19.97	78.47
900.00	3.23	80.22	899.57	20.99	4.26	21.19	0.64	21.62	78.64
930.00	3.06	78.02	929.53	22.58	4.57	22.81	0.69	23.26	78.68
960.00	2.92	77.41	959.49	24.11	4.90	24.34	0.48	24.83	78.62
990.00	2.87	79.77	989.45	25.58	5.20	25.82	0.43	26.34	78.62
1020.00	3.10	80.56	1019.41	27.09	5.47	27.36	0.78	27.90	78.70
1050.00	2.98	76.92	1049.37	28.63	5.77	28.92	0.76	29.49	78.71
1080.00	2.91	77.38	1079.33	30.14	6.12	30.43	0.25	31.03	78.63
1110.00	2.86	81.42	1109.29	31.60	6.40	31.91	0.70	32.54	78.67
1140.00	2.57	75.36	1139.26	32.98	6.68	33.30	1.36	33.96	78.66
1170.00	1.55	73.34	1169.24	34.04	6.96	34.34	3.41	35.04	78.54
1200.00	0.23	32.35	1199.23	34.49	7.13	34.76	4.62	35.48	78.41
1230.00	0.89	277.73	1229.23	34.35	7.21	34.56	3.36	35.31	78.21
1260.00	1.40	268.24	1259.23	33.81	7.23	33.96	1.81	34.73	77.98
1290.00	1.75	272.46	1289.21	33.07	7.24	33.14	1.23	33.92	77.67
1320.00	1.99	267.29	1319.20	32.18	7.24	32.16	0.98	32.97	77.32
1350.00	1.87	267.53	1349.18	31.25	7.19	31.15	0.40	31.97	77.00
1380.00	1.93	269.95	1379.16	30.34	7.17	30.16	0.33	31.00	76.63
1410.00	1.99	267.29	1409.15	29.40	7.14	29.13	0.36	30.00	76.22
1440.00	2.16	268.72	1439.13	28.41	7.11	28.05	0.59	28.93	75.78
1470.00	2.33	261.28	1469.10	27.30	7.00	26.88	1.12	27.78	75.40



Scientific
Drilling

Scientific Drilling International Survey Report

Company: BASS ENTERPRISES
Field: Golden Lane (Morrow)
Site: Eddy County, NM
Well: Big Eddy #153
Wellpath: VH - Job #32K0905698

Date: 1/17/2006 Time: 10:09:47 Page: 2
Co-ordinate(N/E) Reference: Site: Eddy County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,64.82Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
1500.00	2.20	257.10	1499.08	26.16	6.78	25.72	0.70	26.59	75.23
1530.00	2.28	257.07	1529.06	25.01	6.52	24.57	0.27	25.42	75.14
1560.00	2.45	253.17	1559.03	23.79	6.20	23.38	0.78	24.19	75.15
1590.00	2.13	255.35	1589.01	22.61	5.87	22.22	1.11	22.99	75.20
1620.00	1.65	260.21	1618.99	21.65	5.66	21.26	1.69	22.00	75.10
1650.00	1.37	261.42	1648.98	20.89	5.53	20.48	0.94	21.21	74.88
1680.00	1.21	269.29	1678.97	20.25	5.47	19.81	0.79	20.55	74.55
1710.00	1.06	273.93	1708.97	19.72	5.49	19.21	0.59	19.98	74.06
1740.00	0.99	277.04	1738.96	19.26	5.54	18.68	0.30	19.48	73.48
1770.00	0.80	288.77	1768.96	18.89	5.64	18.22	0.88	19.08	72.81
1800.00	0.60	304.28	1798.96	18.66	5.80	17.90	0.91	18.81	72.06
1830.00	0.64	336.84	1828.96	18.59	6.04	17.70	1.17	18.70	71.17
1860.00	0.79	1.44	1858.95	18.69	6.40	17.64	1.13	18.76	70.06
1890.00	0.95	4.44	1888.95	18.90	6.85	17.66	0.55	18.95	68.80
1920.00	1.05	7.84	1918.95	19.17	7.37	17.72	0.39	19.19	67.41
1950.00	1.09	0.22	1948.94	19.45	7.93	17.76	0.49	19.45	65.94
1980.00	1.27	351.50	1978.93	19.66	8.55	17.71	0.85	19.67	64.24
2010.00	1.33	338.84	2008.93	19.78	9.20	17.54	0.98	19.80	62.32
2040.00	1.36	335.83	2038.92	19.82	9.85	17.27	0.26	19.88	60.30
2070.00	1.57	330.30	2068.91	19.79	10.53	16.92	0.84	19.93	58.10
2100.00	1.35	332.68	2098.90	19.74	11.20	16.55	0.76	19.98	55.91
2130.00	1.27	332.11	2128.89	19.71	11.81	16.23	0.27	20.07	53.97
2160.00	1.34	333.26	2158.88	19.69	12.42	15.92	0.25	20.19	52.05
2190.00	1.27	329.76	2188.87	19.65	13.02	15.59	0.35	20.31	50.15
2220.00	1.29	332.61	2218.87	19.61	13.60	15.27	0.22	20.45	48.31
2250.00	1.28	325.03	2248.86	19.54	14.18	14.92	0.57	20.58	46.47
2280.00	1.34	334.34	2278.85	19.48	14.77	14.58	0.74	20.75	44.63
2310.00	1.24	326.99	2308.84	19.43	15.36	14.25	0.64	20.95	42.86
2340.00	1.23	331.91	2338.84	19.37	15.91	13.92	0.35	21.14	41.18
2370.00	1.00	335.12	2368.83	19.36	16.43	13.66	0.79	21.37	39.73
2400.00	1.04	338.23	2398.83	19.37	16.93	13.45	0.23	21.62	38.47
2430.00	0.89	340.19	2428.82	19.41	17.40	13.27	0.51	21.88	37.34
2460.00	0.67	339.08	2458.82	19.45	17.78	13.13	0.74	22.10	36.44
2490.00	0.47	357.56	2488.82	19.51	18.07	13.06	0.90	22.29	35.86
2520.00	0.37	357.26	2518.82	19.59	18.29	13.05	0.33	22.47	35.51
2550.00	0.41	15.41	2548.82	19.70	18.49	13.07	0.43	22.64	35.27
2580.00	0.48	25.45	2578.82	19.87	18.70	13.16	0.35	22.87	35.12
2610.00	0.94	42.98	2608.81	20.19	19.00	13.38	1.68	23.24	35.15
2640.00	0.79	39.69	2638.81	20.61	19.34	13.68	0.53	23.69	35.28
2670.00	0.87	48.38	2668.81	21.01	19.65	13.98	0.50	24.11	35.44
2700.00	0.65	23.48	2698.80	21.36	19.95	14.22	1.31	24.50	35.47
2730.00	0.43	355.32	2728.80	21.53	20.22	14.28	1.13	24.75	35.22
2760.00	0.57	318.64	2758.80	21.52	20.45	14.17	1.14	24.88	34.72
2790.00	0.62	295.34	2788.80	21.38	20.63	13.92	0.82	24.89	34.02
2820.00	0.70	291.75	2818.80	21.15	20.77	13.61	0.30	24.83	33.24
2850.00	0.78	267.39	2848.80	20.84	20.82	13.23	1.07	24.67	32.44
2880.00	0.92	262.06	2878.79	20.42	20.78	12.79	0.54	24.40	31.61
2910.00	0.96	256.04	2908.79	19.94	20.69	12.31	0.35	24.07	30.75
2940.00	0.98	258.77	2938.78	19.45	20.58	11.81	0.17	23.73	29.86
2970.00	0.93	255.00	2968.78	18.96	20.46	11.33	0.27	23.39	28.96
3000.00	0.99	256.97	2998.78	18.46	20.34	10.84	0.23	23.05	28.05
3030.00	0.96	248.86	3028.77	17.96	20.19	10.35	0.47	22.69	27.14



Scientific Drilling International Survey Report

Company: BASS ENTERPRISES
Field: Golden Lane (Morrow)
Site: Eddy County, NM
Well: Big Eddy #153
Wellpath: VH - Job #32K0905698

Date: 1/17/2006
Co-ordinate(NE) Reference: Site: Eddy County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,64.82Azi)
Survey Calculation Method: Minimum Curvature
Db: Sybase

Page: 3

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
3060.00	0.92	250.84	3058.77	17.47	20.02	9.89	0.17	22.33	26.28
3090.00	1.11	248.97	3088.76	16.94	19.84	9.39	0.64	21.95	25.33
3120.00	0.91	247.62	3118.76	16.41	19.65	8.90	0.67	21.57	24.37
3150.00	1.12	254.18	3148.75	15.89	19.48	8.40	0.80	21.21	23.32
3180.00	1.02	244.12	3178.75	15.33	19.28	7.87	0.71	20.82	22.22
3210.00	0.96	253.62	3208.74	14.81	19.09	7.39	0.58	20.47	21.17
3240.00	0.98	250.22	3238.74	14.31	18.93	6.91	0.20	20.16	20.05
3270.00	0.89	255.06	3268.74	13.83	18.79	6.44	0.40	19.86	18.93
3300.00	0.94	253.85	3298.73	13.35	18.66	5.98	0.18	19.59	17.78
3330.00	0.74	256.84	3328.73	12.92	18.55	5.56	0.68	19.36	16.68
3360.00	0.78	260.23	3358.73	12.53	18.47	5.17	0.20	19.18	15.63
3390.00	0.66	247.12	3388.72	12.17	18.36	4.81	0.68	18.98	14.67
3420.00	0.68	241.15	3418.72	11.81	18.21	4.49	0.24	18.76	13.86
3450.00	0.75	247.36	3448.72	11.44	18.05	4.16	0.35	18.52	12.96
3480.00	0.80	248.91	3478.72	11.04	17.90	3.78	0.18	18.29	11.92
3510.00	0.83	246.69	3508.71	10.61	17.74	3.38	0.15	18.06	10.80
3540.00	0.80	253.30	3538.71	10.19	17.59	2.98	0.33	17.84	9.63
3570.00	0.66	247.38	3568.71	9.81	17.47	2.62	0.53	17.66	8.54
3600.00	0.75	255.23	3598.71	9.44	17.35	2.27	0.44	17.50	7.47
3630.00	0.87	246.06	3628.70	9.02	17.21	1.88	0.59	17.31	6.22
3660.00	0.72	245.20	3658.70	8.60	17.03	1.50	0.50	17.10	5.02
3690.00	0.80	254.53	3688.70	8.21	16.90	1.12	0.49	16.94	3.80
3720.00	0.82	250.49	3718.69	7.79	16.77	0.72	0.20	16.79	2.46
3750.00	0.89	257.72	3748.69	7.35	16.65	0.29	0.43	16.65	1.00
3780.00	0.99	251.19	3778.69	6.86	16.52	-0.18	0.49	16.52	359.36
3810.00	0.92	263.10	3808.68	6.38	16.41	-0.67	0.70	16.42	357.67
3840.00	0.99	247.60	3838.68	5.89	16.28	-1.15	0.89	16.32	355.97
3870.00	1.05	257.37	3868.67	5.36	16.12	-1.65	0.61	16.20	354.14
3900.00	1.28	326.53	3898.67	5.05	16.34	-2.11	4.45	16.47	352.65
3930.00	1.09	251.96	3928.66	4.71	16.53	-2.56	4.81	16.73	351.18
3960.00	1.36	246.47	3958.66	4.07	16.30	-3.16	0.98	16.60	349.02
3990.00	1.28	245.86	3988.65	3.38	16.02	-3.79	0.27	16.46	346.68
4020.00	1.42	248.69	4018.64	2.68	15.75	-4.45	0.52	16.36	344.24
4050.00	1.46	242.46	4048.63	1.93	15.44	-5.13	0.54	16.27	341.61
4080.00	1.33	244.10	4078.62	1.20	15.11	-5.78	0.45	16.18	339.05
4110.00	1.52	245.30	4108.61	0.45	14.79	-6.46	0.64	16.14	336.41
4140.00	1.33	237.91	4138.60	-0.29	14.44	-7.11	0.88	16.09	333.77
4170.00	1.43	245.59	4168.60	-1.01	14.10	-7.75	0.70	16.09	331.20
4200.00	1.18	242.55	4198.59	-1.70	13.80	-8.36	0.86	16.14	328.78
4230.00	1.16	237.20	4228.58	-2.31	13.49	-8.89	0.37	16.16	326.61
4260.00	1.10	240.82	4258.58	-2.89	13.19	-9.40	0.31	16.20	324.52
4290.00	1.22	243.72	4288.57	-3.50	12.91	-9.94	0.45	16.29	322.40
4320.00	1.18	239.64	4318.56	-4.13	12.61	-10.49	0.31	16.40	320.24
4350.00	1.19	248.33	4348.56	-4.75	12.34	-11.05	0.60	16.56	318.16
4380.00	1.28	240.83	4378.55	-5.39	12.06	-11.63	0.62	16.75	316.04
4410.00	1.10	246.58	4408.54	-6.01	11.78	-12.19	0.72	16.95	314.03
4440.00	1.20	245.76	4438.54	-6.62	11.54	-12.74	0.34	17.19	312.17
4470.00	1.08	243.42	4468.53	-7.21	11.28	-13.28	0.43	17.42	310.36
4500.00	1.10	247.04	4498.53	-7.78	11.04	-13.79	0.24	17.67	308.68
4530.00	1.23	237.49	4528.52	-8.39	10.76	-14.33	0.78	17.92	306.90
4560.00	1.15	240.18	4558.51	-9.01	10.44	-14.86	0.33	18.16	305.07
4590.00	1.16	239.17	4588.51	-9.61	10.13	-15.39	0.08	18.42	303.36
4620.00	1.07	242.82	4618.50	-10.19	9.85	-15.90	0.38	18.70	301.78



Scientific Drilling International Survey Report

Company: BASS ENTERPRISES
Field: Golden Lane (Morrow)
Site: Eddy County, NM
Well: Big Eddy #153
Wellpath: VH - Job #32K0905698

Date: 1/17/2006 Time: 10:09:47 Page: 4
Co-ordinate(NE) Reference: Site: Eddy County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,64.82Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
4650.00	1.21	239.67	4648.50	-10.79	9.56	-16.42	0.51	19.00	300.21
4680.00	1.33	241.40	4678.49	-11.45	9.23	-17.00	0.42	19.34	298.51
4710.00	1.29	245.92	4708.48	-12.14	8.93	-17.61	0.37	19.75	296.88
4740.00	1.20	248.04	4738.47	-12.79	8.67	-18.21	0.34	20.17	295.47
4770.00	1.28	244.81	4768.47	-13.44	8.41	-18.81	0.35	20.60	294.10
4800.00	1.16	239.94	4798.46	-14.08	8.12	-19.37	0.53	21.00	292.74
4830.00	1.25	241.95	4828.45	-14.70	7.81	-19.92	0.33	21.40	291.41
4860.00	1.22	244.37	4858.45	-15.35	7.52	-20.50	0.20	21.84	290.15
4890.00	1.30	236.06	4888.44	-16.01	7.19	-21.07	0.66	22.26	288.85
4920.00	1.20	243.35	4918.43	-16.66	6.86	-21.63	0.63	22.70	287.60
4950.00	1.28	240.63	4948.42	-17.31	6.56	-22.21	0.33	23.15	286.45
4980.00	1.32	235.31	4978.42	-17.98	6.20	-22.78	0.42	23.61	285.21
5010.00	1.28	242.54	5008.41	-18.66	5.84	-23.36	0.56	24.08	284.04
5040.00	1.38	238.26	5038.40	-19.35	5.50	-23.97	0.47	24.59	282.92
5070.00	1.18	243.73	5068.39	-20.02	5.17	-24.55	0.78	25.09	281.90
5100.00	1.44	245.31	5098.39	-20.70	4.88	-25.17	0.87	25.64	280.97
5130.00	1.39	242.97	5128.38	-21.44	4.56	-25.84	0.25	26.24	280.00
5160.00	1.41	243.02	5158.37	-22.18	4.22	-26.49	0.07	26.83	279.06
5190.00	1.49	238.16	5188.36	-22.93	3.85	-27.15	0.49	27.42	278.07
5220.00	1.52	241.26	5218.35	-23.72	3.45	-27.83	0.29	28.05	277.07
5250.00	1.65	247.12	5248.34	-24.55	3.09	-28.58	0.69	28.75	276.18
5280.00	1.49	247.79	5278.32	-25.37	2.78	-29.34	0.54	29.47	275.41
5310.00	1.53	243.55	5308.31	-26.16	2.45	-30.06	0.40	30.16	274.66
5340.00	1.64	245.45	5338.30	-26.99	2.10	-30.81	0.41	30.88	273.89
5370.00	1.50	249.50	5368.29	-27.81	1.78	-31.56	0.60	31.61	273.23
5400.00	1.54	247.05	5398.28	-28.60	1.48	-32.30	0.25	32.34	272.63
5430.00	1.69	249.56	5428.27	-29.45	1.17	-33.09	0.55	33.11	272.03
5460.00	1.51	253.88	5458.26	-30.28	0.91	-33.88	0.72	33.90	271.54
5490.00	1.41	250.14	5488.25	-31.03	0.67	-34.61	0.46	34.62	271.12
5520.00	1.42	248.91	5518.24	-31.77	0.41	-35.30	0.11	35.31	270.67
5550.00	1.33	253.75	5548.23	-32.49	0.18	-35.99	0.49	35.99	270.29
5580.00	1.40	256.30	5578.22	-33.19	0.00	-36.68	0.31	36.68	270.00
5610.00	1.44	254.91	5608.21	-33.92	-0.19	-37.40	0.18	37.40	269.72
5640.00	1.25	254.00	5638.20	-34.61	-0.37	-38.07	0.64	38.08	269.44
5670.00	1.12	260.25	5668.20	-35.22	-0.51	-38.68	0.61	38.68	269.24
5700.00	1.37	259.53	5698.19	-35.85	-0.63	-39.32	0.83	39.32	269.08
5730.00	1.14	257.40	5728.18	-36.49	-0.76	-39.96	0.78	39.97	268.91
5760.00	1.15	262.69	5758.18	-37.07	-0.86	-40.55	0.35	40.56	268.78
5790.00	1.12	268.43	5788.17	-37.62	-0.91	-41.15	0.39	41.16	268.73
5820.00	1.04	258.88	5818.17	-38.15	-0.97	-41.71	0.66	41.72	268.67
5850.00	0.99	259.80	5848.16	-38.67	-1.07	-42.23	0.18	42.24	268.55
5880.00	1.00	257.47	5878.16	-39.17	-1.17	-42.74	0.14	42.75	268.43
5910.00	0.97	261.74	5908.15	-39.67	-1.26	-43.25	0.26	43.26	268.33
5940.00	0.94	260.46	5938.15	-40.15	-1.34	-43.74	0.12	43.76	268.24
5970.00	0.93	263.73	5968.14	-40.62	-1.41	-44.22	0.18	44.25	268.18
6000.00	0.95	263.31	5998.14	-41.09	-1.46	-44.71	0.07	44.74	268.12
6030.00	0.95	257.87	6028.14	-41.56	-1.55	-45.20	0.30	45.23	268.04
6060.00	0.88	257.30	6058.13	-42.03	-1.65	-45.67	0.24	45.70	267.93
6090.00	0.81	254.07	6088.13	-42.47	-1.76	-46.10	0.28	46.13	267.82
6120.00	0.69	244.95	6118.13	-42.86	-1.89	-46.47	0.56	46.51	267.67
6150.00	0.71	242.50	6148.12	-43.22	-2.05	-46.80	0.12	46.84	267.49
6180.00	0.71	241.31	6178.12	-43.59	-2.23	-47.12	0.05	47.18	267.29



Scientific Drilling International Survey Report

Company: BASS ENTERPRISES
Field: Golden Lane (Morrow)
Site: Eddy County, NM
Well: Big Eddy #153
Wellpath: VH - Job #32K0905698

Date: 1/17/2006 Time: 10:09:47 Page: 5
Co-ordinate(N/E) Reference: Site: Eddy County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,64.82Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
6210.00	0.78	243.17	6208.12	-43.98	-2.41	-47.47	0.25	47.53	267.09
6240.00	0.84	242.40	6238.12	-44.41	-2.60	-47.85	0.20	47.92	266.88
6270.00	0.86	243.77	6268.11	-44.85	-2.81	-48.24	0.10	48.32	266.67
6300.00	0.83	243.52	6298.11	-45.29	-3.00	-48.64	0.10	48.73	266.47
6330.00	0.92	244.57	6328.11	-45.75	-3.20	-49.05	0.30	49.16	266.26
6360.00	0.88	242.81	6358.10	-46.22	-3.41	-49.47	0.16	49.59	266.06
6390.00	0.95	250.75	6388.10	-46.70	-3.60	-49.91	0.48	50.04	265.88
6420.00	0.94	254.33	6418.09	-47.19	-3.75	-50.38	0.20	50.52	265.75
6450.00	0.89	259.67	6448.09	-47.66	-3.86	-50.85	0.33	51.00	265.66
6480.00	0.83	260.38	6478.09	-48.09	-3.93	-51.29	0.20	51.45	265.62
6510.00	0.75	257.18	6508.08	-48.49	-4.01	-51.70	0.30	51.86	265.56
6540.00	0.77	249.86	6538.08	-48.89	-4.13	-52.08	0.33	52.24	265.47
6570.00	0.81	246.54	6568.08	-49.30	-4.28	-52.46	0.20	52.64	265.34
6600.00	0.85	247.82	6598.08	-49.73	-4.45	-52.87	0.15	53.05	265.19
6630.00	0.91	245.60	6628.07	-50.19	-4.63	-53.29	0.23	53.49	265.03
6660.00	0.98	251.54	6658.07	-50.69	-4.81	-53.75	0.40	53.96	264.89
6690.00	1.02	253.52	6688.06	-51.21	-4.97	-54.25	0.18	54.47	264.77
6720.00	1.09	271.85	6718.06	-51.72	-5.03	-54.79	1.14	55.02	264.75
6750.00	1.29	298.23	6748.05	-52.18	-4.86	-55.37	1.92	55.59	264.98
6780.00	1.72	312.28	6778.04	-52.55	-4.40	-56.00	1.88	56.18	265.51
6810.00	1.97	320.21	6808.03	-52.86	-3.70	-56.67	1.19	56.79	266.26
6840.00	1.89	321.59	6838.01	-53.10	-2.92	-57.30	0.31	57.38	267.08
6870.00	1.77	320.41	6867.99	-53.33	-2.17	-57.91	0.42	57.95	267.85
6900.00	1.43	315.59	6897.98	-53.57	-1.55	-58.46	1.22	58.48	268.48
6930.00	1.32	307.98	6927.97	-53.84	-1.07	-59.00	0.71	59.01	268.96
6960.00	1.22	301.05	6957.97	-54.18	-0.69	-59.54	0.61	59.55	269.33
6990.00	1.28	303.34	6987.96	-54.53	-0.34	-60.10	0.26	60.10	269.67
7020.00	1.19	308.71	7017.95	-54.84	0.04	-60.62	0.49	60.62	270.03
7050.00	0.99	313.76	7047.95	-55.07	0.41	-61.05	0.74	61.05	270.38
7080.00	0.85	317.13	7077.94	-55.23	0.75	-61.39	0.50	61.39	270.70
7110.00	0.78	317.32	7107.94	-55.36	1.06	-61.68	0.23	61.69	270.99
7140.00	0.87	324.79	7137.94	-55.46	1.40	-61.95	0.47	61.96	271.30
7170.00	0.97	338.31	7167.93	-55.49	1.82	-62.17	0.79	62.20	271.68
7200.00	1.02	353.36	7197.93	-55.39	2.32	-62.30	0.88	62.34	272.14
7230.00	1.02	7.86	7227.92	-55.16	2.85	-62.29	0.86	62.36	272.62
7260.00	0.89	10.63	7257.92	-54.87	3.35	-62.21	0.46	62.30	273.08
7290.00	0.59	0.19	7287.92	-54.67	3.73	-62.17	1.09	62.28	273.43
7320.00	0.37	312.11	7317.92	-54.64	3.95	-62.24	1.47	62.37	273.63
7350.00	0.46	274.73	7347.92	-54.79	4.03	-62.43	0.93	62.56	273.69
7380.00	0.40	251.65	7377.91	-54.99	4.00	-62.65	0.61	62.78	273.66
7410.00	0.48	224.71	7407.91	-55.22	3.88	-62.84	0.73	62.96	273.53
7440.00	0.70	204.15	7437.91	-55.47	3.62	-63.00	1.01	63.11	273.29
7470.00	0.80	201.97	7467.91	-55.77	3.26	-63.16	0.35	63.24	272.96
7500.00	0.93	141.97	7497.91	-55.86	2.88	-63.08	2.91	63.15	272.61
7530.00	2.04	113.32	7527.90	-55.46	2.47	-62.44	4.34	62.49	272.27
7560.00	3.13	99.46	7557.87	-54.43	2.13	-61.15	4.16	61.18	271.99
7590.00	4.51	85.18	7587.80	-52.65	2.09	-59.16	5.55	59.20	272.02
7620.00	5.97	72.50	7617.67	-50.00	2.66	-56.50	6.18	56.56	272.70
7650.00	6.95	62.13	7647.48	-46.64	3.98	-53.41	5.07	53.55	274.26
7680.00	6.47	54.14	7677.28	-43.16	5.82	-50.43	3.50	50.77	276.58
7710.00	4.36	39.91	7707.14	-40.47	7.68	-48.33	8.29	48.94	279.03
7740.00	2.14	16.30	7737.10	-39.06	9.09	-47.44	8.49	48.31	280.85
7770.00	1.01	348.47	7767.08	-38.63	9.89	-47.34	4.44	48.36	281.80



Scientific Drilling International Survey Report

Company: BASS ENTERPRISES
Field: Golden Lane (Morrow)
Site: Eddy County, NM
Well: Big Eddy #153
Wellpath: VH - Job #32K0905698

Date: 1/17/2006 Time: 10:09:47 Page: 6
Co-ordinate(NE) Reference: Site: Eddy County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,64.82Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
7800.00	0.96	340.92	7797.08	-38.54	10.39	-47.47	0.46	48.60	282.34
7830.00	0.84	332.43	7827.08	-38.52	10.82	-47.66	0.60	48.87	282.79
7860.00	0.47	342.37	7857.07	-38.52	11.13	-47.80	1.29	49.07	283.11
7890.00	0.61	352.18	7887.07	-38.45	11.41	-47.85	0.56	49.19	283.41
7920.00	0.52	9.60	7917.07	-38.33	11.70	-47.85	0.64	49.26	283.74
7950.00	0.42	15.07	7947.07	-38.18	11.94	-47.80	0.36	49.27	284.02
7980.00	0.34	25.98	7977.07	-38.04	12.13	-47.73	0.36	49.25	284.25
8010.00	0.19	20.89	8007.07	-37.93	12.25	-47.68	0.51	49.23	284.41
8040.00	0.08	305.72	8037.07	-37.91	12.31	-47.68	0.62	49.24	284.48
8070.00	0.22	252.71	8067.07	-37.97	12.31	-47.75	0.61	49.31	284.45
8100.00	0.33	252.90	8097.07	-38.12	12.26	-47.89	0.37	49.43	284.36
8130.00	0.49	224.69	8127.07	-38.32	12.15	-48.06	0.84	49.57	284.18
8160.00	0.73	211.60	8157.07	-38.60	11.89	-48.25	0.92	49.69	283.85
8190.00	0.99	208.72	8187.06	-38.97	11.50	-48.47	0.88	49.82	283.35
8220.00	1.06	213.87	8217.06	-39.42	11.05	-48.75	0.39	49.99	282.77
8250.00	1.10	216.38	8247.05	-39.91	10.58	-49.08	0.21	50.21	282.17
8280.00	1.02	222.71	8277.05	-40.41	10.16	-49.43	0.47	50.46	281.61
8310.00	0.79	231.85	8307.04	-40.86	9.83	-49.77	0.90	50.74	281.17
8340.00	0.62	236.57	8337.04	-41.22	9.61	-50.07	0.60	50.99	280.87
8370.00	0.68	254.63	8367.04	-41.56	9.48	-50.38	0.71	51.26	280.65
8400.00	0.94	261.85	8397.04	-41.97	9.40	-50.79	0.93	51.66	280.48
8430.00	1.12	264.25	8427.03	-42.48	9.33	-51.33	0.62	52.17	280.30
8460.00	1.26	268.79	8457.03	-43.06	9.29	-51.95	0.56	52.78	280.14
8490.00	1.25	273.09	8487.02	-43.65	9.31	-52.61	0.32	53.42	280.03
8520.00	1.08	279.12	8517.01	-44.17	9.37	-53.21	0.70	54.03	279.98
8550.00	1.06	279.29	8547.01	-44.63	9.46	-53.77	0.07	54.59	279.98
8580.00	0.94	274.49	8577.00	-45.07	9.52	-54.29	0.49	55.12	279.95
8610.00	0.99	267.33	8607.00	-45.53	9.53	-54.79	0.43	55.61	279.87
8640.00	1.08	265.21	8636.99	-46.03	9.49	-55.33	0.33	56.14	279.74
8670.00	1.02	266.40	8666.99	-46.55	9.45	-55.88	0.21	56.67	279.60
8700.00	1.17	269.75	8696.98	-47.07	9.43	-56.45	0.54	57.24	279.49
8730.00	1.16	274.68	8726.98	-47.61	9.46	-57.06	0.34	57.84	279.41
8760.00	1.13	276.77	8756.97	-48.13	9.52	-57.66	0.17	58.44	279.37
8790.00	1.17	277.35	8786.96	-48.64	9.59	-58.26	0.14	59.04	279.35
8820.00	1.07	278.62	8816.96	-49.13	9.67	-58.84	0.34	59.63	279.34
8850.00	0.92	277.43	8846.95	-49.56	9.75	-59.35	0.50	60.15	279.33
8880.00	0.89	270.06	8876.95	-49.98	9.78	-59.82	0.40	60.62	279.28
8910.00	0.68	261.64	8906.95	-50.36	9.75	-60.23	0.80	61.02	279.20
8940.00	0.55	254.03	8936.95	-50.67	9.69	-60.55	0.51	61.32	279.09
8970.00	0.43	243.10	8966.94	-50.92	9.60	-60.79	0.51	61.54	278.97
9000.00	0.31	216.77	8996.94	-51.11	9.48	-60.93	0.68	61.67	278.84
9030.00	0.38	224.84	9026.94	-51.27	9.34	-61.05	0.28	61.76	278.70
9060.00	0.38	236.27	9056.94	-51.47	9.22	-61.21	0.25	61.90	278.57
9090.00	0.31	249.67	9086.94	-51.65	9.14	-61.37	0.35	62.04	278.47
9120.00	0.33	246.31	9116.94	-51.81	9.07	-61.52	0.09	62.19	278.39
9150.00	0.55	247.80	9146.94	-52.04	8.98	-61.73	0.73	62.38	278.28
9180.00	0.65	249.78	9176.94	-52.36	8.87	-62.03	0.34	62.66	278.14
9210.00	0.58	248.22	9206.94	-52.68	8.75	-62.33	0.24	62.94	278.00
9240.00	0.57	239.56	9236.94	-52.98	8.62	-62.60	0.29	63.19	277.84
9270.00	0.42	239.82	9266.94	-53.24	8.49	-62.82	0.50	63.39	277.70
9300.00	0.38	239.12	9296.93	-53.44	8.39	-63.00	0.13	63.56	277.58
9330.00	0.27	245.17	9326.93	-53.61	8.30	-63.15	0.38	63.69	277.49



Scientific Drilling International Survey Report

Company: BASS ENTERPRISES
Field: Golden Lane (Morrow)
Site: Eddy County, NM
Well: Big Eddy #153
Wellpath: VH - Job #32K0905698

Date: 1/17/2006 Time: 10:09:47 Page: 7
Co-ordinate(NE) Reference: Site: Eddy County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,64.82Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
9360.00	0.25	269.48	9356.93	-53.74	8.27	-63.28	0.37	63.82	277.45
9390.00	0.25	264.64	9386.93	-53.86	8.27	-63.41	0.07	63.95	277.43
9420.00	0.33	271.78	9416.93	-54.00	8.26	-63.56	0.29	64.10	277.41
9450.00	0.27	285.22	9446.93	-54.13	8.29	-63.72	0.31	64.25	277.41
9480.00	0.35	282.38	9476.93	-54.26	8.32	-63.87	0.27	64.41	277.42
9510.00	0.56	279.00	9506.93	-54.45	8.37	-64.11	0.71	64.65	277.44
9540.00	0.69	284.91	9536.93	-54.71	8.44	-64.43	0.48	64.98	277.46
9570.00	0.70	282.07	9566.93	-55.00	8.52	-64.78	0.12	65.34	277.49
9600.00	0.78	279.26	9596.92	-55.31	8.59	-65.16	0.29	65.73	277.51
9630.00	0.78	281.72	9626.92	-55.64	8.67	-65.56	0.11	66.13	277.53
9660.00	0.67	280.47	9656.92	-55.95	8.74	-65.94	0.37	66.51	277.55
9690.00	0.62	276.63	9686.92	-56.23	8.79	-66.27	0.22	66.85	277.56
9720.00	0.54	270.24	9716.92	-56.50	8.81	-66.57	0.34	67.15	277.54
9750.00	0.54	264.34	9746.91	-56.76	8.80	-66.85	0.19	67.43	277.50
9780.00	0.58	272.38	9776.91	-57.02	8.79	-67.15	0.29	67.72	277.46
9810.00	0.64	275.24	9806.91	-57.30	8.81	-67.47	0.22	68.04	277.44
9840.00	0.62	276.51	9836.91	-57.59	8.84	-67.79	0.08	68.37	277.43
9870.00	0.67	271.76	9866.91	-57.88	8.87	-68.13	0.24	68.70	277.42
9900.00	0.63	270.45	9896.91	-58.19	8.87	-68.47	0.14	69.04	277.38
9930.00	0.57	270.67	9926.90	-58.47	8.88	-68.78	0.20	69.35	277.35
9960.00	0.55	272.55	9956.90	-58.73	8.89	-69.08	0.09	69.65	277.33
9990.00	0.55	272.07	9986.90	-58.99	8.90	-69.37	0.02	69.93	277.31
10020.00	0.53	272.10	10016.90	-59.24	8.91	-69.65	0.07	70.22	277.29
10050.00	0.51	272.13	10046.90	-59.48	8.92	-69.92	0.07	70.49	277.27
10080.00	0.37	284.86	10076.90	-59.67	8.95	-70.15	0.57	70.72	277.27
10110.00	0.34	312.35	10106.90	-59.78	9.03	-70.31	0.57	70.88	277.32
10140.00	0.25	314.51	10136.90	-59.84	9.14	-70.42	0.30	71.01	277.39
10170.00	0.27	340.47	10166.90	-59.85	9.25	-70.49	0.39	71.09	277.48
10200.00	0.28	323.64	10196.90	-59.86	9.38	-70.56	0.27	71.18	277.57
10230.00	0.28	340.67	10226.90	-59.87	9.50	-70.62	0.28	71.26	277.66
10260.00	0.28	332.85	10256.90	-59.86	9.64	-70.68	0.13	71.34	277.77
10290.00	0.30	322.35	10286.90	-59.88	9.77	-70.76	0.19	71.43	277.86
10320.00	0.48	326.06	10316.89	-59.92	9.93	-70.88	0.61	71.57	277.98
10350.00	0.50	337.10	10346.89	-59.93	10.16	-71.00	0.32	71.73	278.14
10380.00	0.51	349.62	10376.89	-59.89	10.41	-71.08	0.37	71.84	278.33
10410.00	0.32	356.25	10406.89	-59.83	10.62	-71.11	0.65	71.90	278.50
10440.00	0.18	358.12	10436.89	-59.78	10.75	-71.11	0.47	71.92	278.60
10470.00	0.17	359.77	10466.89	-59.74	10.85	-71.12	0.04	71.94	278.67
10500.00	0.17	3.51	10496.89	-59.70	10.94	-71.11	0.04	71.95	278.74
10530.00	0.20	340.62	10526.89	-59.67	11.03	-71.13	0.26	71.98	278.81
10560.00	0.24	339.51	10556.89	-59.66	11.14	-71.17	0.13	72.03	278.89
10590.00	0.26	337.28	10586.89	-59.66	11.26	-71.22	0.07	72.10	278.98
10620.00	0.26	323.90	10616.89	-59.67	11.38	-71.28	0.20	72.18	279.07
10650.00	0.37	294.81	10646.89	-59.74	11.47	-71.41	0.64	72.33	279.13
10680.00	0.33	305.47	10676.89	-59.84	11.56	-71.57	0.25	72.50	279.18
10710.00	0.51	286.21	10706.89	-59.99	11.65	-71.77	0.75	72.71	279.22
10740.00	0.56	276.85	10736.89	-60.21	11.71	-72.04	0.34	72.99	279.23
10770.00	0.65	274.80	10766.89	-60.48	11.74	-72.36	0.31	73.30	279.21
10800.00	0.78	271.00	10796.88	-60.81	11.75	-72.73	0.46	73.67	279.18
10830.00	0.86	270.75	10826.88	-61.20	11.76	-73.16	0.27	74.10	279.13
10860.00	0.97	276.03	10856.88	-61.62	11.79	-73.64	0.46	74.57	279.10
10890.00	1.09	281.97	10886.87	-62.06	11.88	-74.17	0.53	75.11	279.10
10920.00	1.06	288.66	10916.87	-62.49	12.02	-74.71	0.43	75.67	279.14



Scientific Drilling International

Survey Report

Company: BASS ENTERPRISES
Field: Golden Lane (Morrow)
Site: Eddy County, NM
Well: Big Eddy #153
Wellpath: VH - Job #32K0905698

Date: 1/17/2006 Time: 10:09:47 Page: 8
Co-ordinate(NE) Reference: Site: Eddy County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,64.82Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
10950.00	0.93	286.85	10946.86	-62.87	12.18	-75.21	0.45	76.19	279.20
10980.00	0.89	278.00	10976.86	-63.25	12.29	-75.67	0.49	76.66	279.22
11010.00	0.98	272.58	11006.85	-63.67	12.33	-76.16	0.42	77.15	279.20
11040.00	1.16	276.30	11036.85	-64.16	12.38	-76.71	0.64	77.71	279.16
11070.00	1.10	285.50	11066.84	-64.63	12.49	-77.29	0.64	78.30	279.18
11100.00	0.94	282.98	11096.84	-65.05	12.62	-77.81	0.55	78.83	279.21
11130.00	1.03	270.34	11126.83	-65.48	12.68	-78.32	0.78	79.34	279.19
11160.00	1.20	279.66	11156.83	-65.98	12.73	-78.90	0.83	79.92	279.17
11190.00	0.97	282.25	11186.82	-66.44	12.84	-79.46	0.78	80.49	279.18
11220.00	1.07	271.33	11216.82	-66.90	12.90	-79.99	0.73	81.02	279.16
11250.00	1.18	279.83	11246.81	-67.40	12.96	-80.57	0.67	81.61	279.14
11280.00	1.02	270.07	11276.81	-67.89	13.01	-81.14	0.82	82.18	279.11
11310.00	1.35	273.55	11306.80	-68.44	13.03	-81.76	1.13	82.79	279.06
11340.00	1.10	279.08	11336.79	-68.99	13.10	-82.40	0.92	83.43	279.03
11370.00	1.16	265.56	11366.79	-69.51	13.12	-82.99	0.91	84.02	278.98
11400.00	1.31	269.30	11396.78	-70.11	13.09	-83.63	0.57	84.65	278.90
11430.00	1.36	275.57	11426.77	-70.73	13.12	-84.33	0.51	85.34	278.85
11460.00	1.30	267.36	11456.76	-71.35	13.14	-85.02	0.67	86.03	278.79
11490.00	1.47	265.15	11486.76	-72.02	13.09	-85.75	0.59	86.74	278.68
11520.00	1.50	272.81	11516.75	-72.73	13.08	-86.52	0.67	87.51	278.60
11550.00	1.35	271.47	11546.74	-73.39	13.11	-87.27	0.51	88.25	278.54
11580.00	1.54	278.56	11576.73	-74.05	13.18	-88.02	0.87	89.00	278.51
11610.00	1.38	277.36	11606.72	-74.69	13.28	-88.78	0.54	89.76	278.51
11640.00	1.57	279.54	11636.71	-75.33	13.40	-89.54	0.66	90.54	278.51
11670.00	1.26	279.07	11666.70	-75.94	13.52	-90.27	1.03	91.28	278.52
11700.00	1.56	279.58	11696.69	-76.55	13.64	-91.00	1.00	92.02	278.52
11730.00	1.73	289.31	11726.68	-77.20	13.86	-91.83	1.09	92.87	278.58
11760.00	1.86	292.05	11756.66	-77.86	14.19	-92.71	0.52	93.79	278.70
11790.00	1.81	291.61	11786.65	-78.51	14.55	-93.60	0.17	94.72	278.83
11820.00	1.62	294.80	11816.63	-79.11	14.90	-94.42	0.71	95.59	278.97
11850.00	1.80	293.72	11846.62	-79.69	15.27	-95.24	0.61	96.46	279.11
11880.00	1.60	292.80	11876.61	-80.28	15.62	-96.06	0.67	97.32	279.23
11910.00	1.59	293.79	11906.59	-80.84	15.95	-96.83	0.10	98.13	279.35
11940.00	1.93	295.68	11936.58	-81.43	16.33	-97.66	1.15	99.02	279.50
11970.00	1.86	289.82	11966.56	-82.09	16.72	-98.58	0.69	99.98	279.63
12000.00	1.73	291.11	11996.55	-82.75	17.05	-99.46	0.45	100.91	279.73
12030.00	1.78	293.19	12026.54	-83.37	17.39	-100.31	0.27	101.80	279.84
12060.00	1.79	302.02	12056.52	-83.93	17.83	-101.13	0.92	102.69	280.00
12090.00	1.62	292.09	12086.51	-84.48	18.23	-101.92	1.13	103.54	280.14
12120.00	1.54	301.46	12116.50	-84.98	18.60	-102.66	0.90	104.33	280.27
12150.00	1.65	298.89	12146.48	-85.46	19.02	-103.38	0.44	105.12	280.43
12180.00	1.47	302.85	12176.47	-85.92	19.44	-104.08	0.70	105.88	280.58
12210.00	1.69	299.07	12206.46	-86.38	19.86	-104.79	0.81	106.66	280.73
12240.00	1.58	301.93	12236.45	-86.86	20.30	-105.53	0.46	107.46	280.89
12270.00	1.62	302.49	12266.44	-87.31	20.74	-106.24	0.14	108.24	281.05
12300.00	1.54	309.48	12296.43	-87.71	21.23	-106.91	0.70	108.99	281.23
12330.00	1.48	310.40	12326.42	-88.05	21.73	-107.51	0.22	109.69	281.43
12360.00	1.54	305.07	12356.41	-88.41	22.22	-108.14	0.51	110.40	281.61
12390.00	1.76	305.63	12386.39	-88.83	22.72	-108.84	0.74	111.19	281.79
12420.00	1.82	308.25	12416.38	-89.27	23.28	-109.59	0.34	112.04	281.99
12450.00	1.89	306.37	12446.36	-89.72	23.87	-110.36	0.31	112.92	282.20
12480.00	2.02	302.60	12476.35	-90.23	24.45	-111.21	0.61	113.86	282.40



Scientific Drilling International Survey Report

Company: BASS ENTERPRISES
Field: Golden Lane (Morrow)
Site: Eddy County, NM
Well: Big Eddy #153
Wellpath: VH - Job #32K0905698

Date: 1/17/2006 Time: 10:09:47 Page: 9
Co-ordinate(NE) Reference: Site: Eddy County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,64.82Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

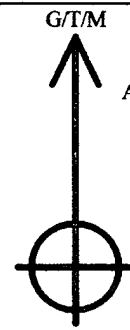
Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
12510.00	1.94	305.65	12506.33	-90.76	25.03	-112.07	0.44	114.83	282.59
12540.00	2.03	304.85	12536.31	-91.28	25.63	-112.91	0.31	115.79	282.79
12570.00	2.15	306.54	12566.29	-91.81	26.27	-113.80	0.45	116.79	283.00
12600.00	2.15	302.18	12596.27	-92.38	26.90	-114.73	0.55	117.84	283.20
12630.00	2.09	303.22	12626.25	-92.97	27.50	-115.66	0.24	118.89	283.37
12660.00	2.17	303.15	12656.23	-93.55	28.11	-116.60	0.27	119.94	283.55
12690.00	1.99	307.53	12686.21	-94.09	28.74	-117.49	0.80	120.95	283.75
12720.00	1.88	311.51	12716.19	-94.52	29.38	-118.27	0.58	121.86	283.95
12750.00	1.91	313.18	12746.17	-94.90	30.05	-119.00	0.21	122.74	284.17
12780.00	1.91	314.41	12776.16	-95.26	30.74	-119.72	0.14	123.61	284.40
12810.00	1.99	315.06	12806.14	-95.61	31.46	-120.45	0.28	124.49	284.64
12840.00	1.97	312.70	12836.12	-95.98	32.18	-121.19	0.28	125.39	284.87
12870.00	1.90	311.06	12866.10	-96.38	32.86	-121.95	0.30	126.30	285.08
12900.00	1.99	309.08	12896.09	-96.80	33.51	-122.73	0.37	127.22	285.27
12930.00	1.97	314.63	12926.07	-97.21	34.20	-123.50	0.64	128.15	285.48
12960.00	1.95	307.74	12956.05	-97.62	34.88	-124.27	0.79	129.07	285.68
12990.00	1.96	309.07	12986.03	-98.07	35.51	-125.07	0.15	130.02	285.85
13020.00	2.13	303.12	13016.02	-98.59	36.14	-125.94	0.91	131.02	286.01
13050.00	2.03	304.72	13046.00	-99.15	36.75	-126.84	0.39	132.06	286.16
13052.00	2.09	307.55	13047.99	-99.18	36.79	-126.90	5.90	132.12	286.17



**Scientific
Drilling**

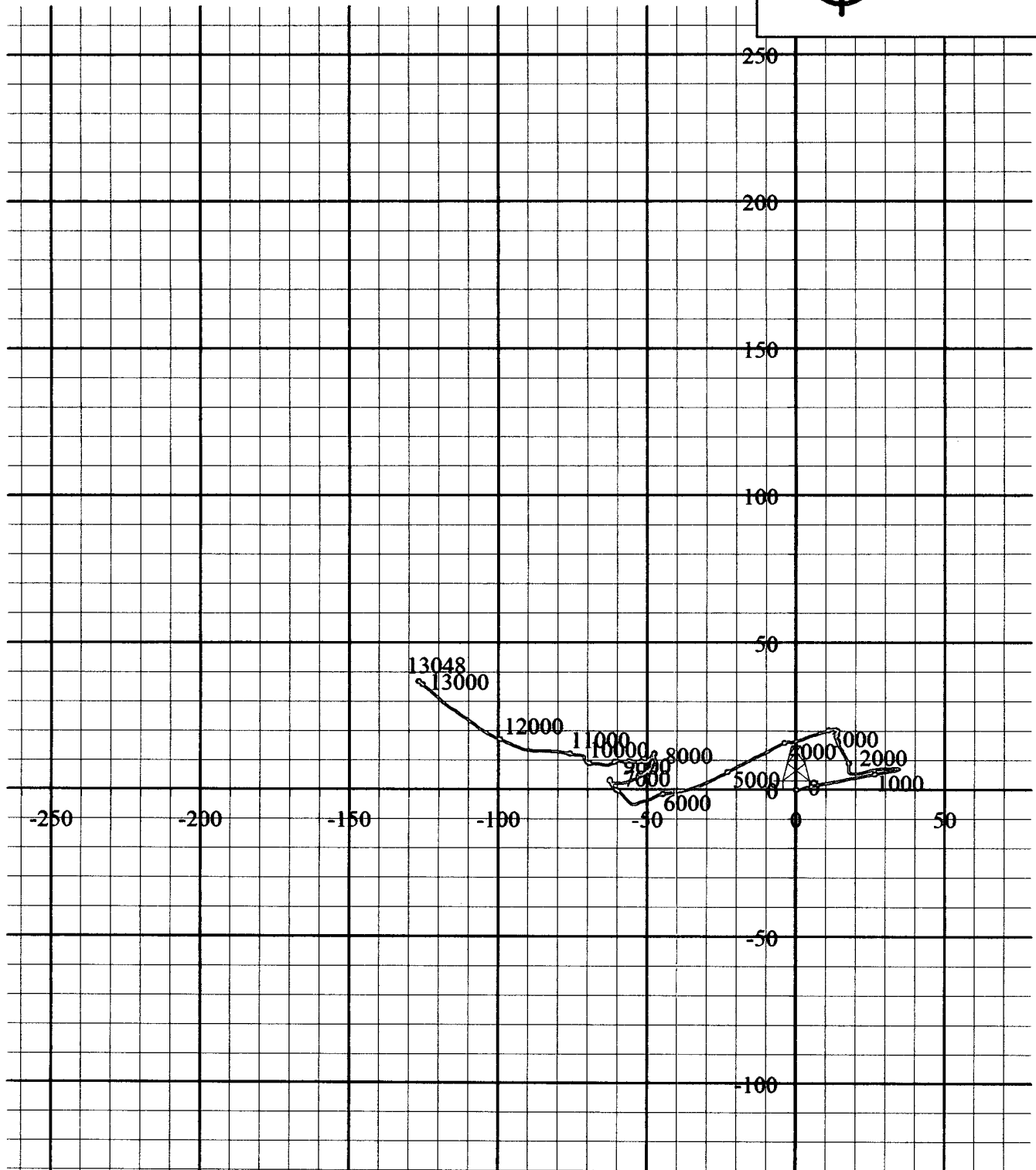
Field: Golden Lane (Morrow)
Site: Eddy County, NM
Well: Big Eddy #153
Wellpath: VH - Job #32K0905698
Survey: 11/12/05



Azimuths to Grid North
True North: 0.00°
Magnetic North: 0.00°

Magnetic Field
Strength: 0nT
Dip Angle: 0.00°
Date: 10/16/2005
Model: igrf2000

South(-)/North(+) [50ft/in]



West(-)/East(+) [50ft/in]