

TMBR/SHARP DRILLING INC.
HILBURN #3

slot #1

LEA COUNTY, NEW MEXICO

BHL-2

S U R V E Y L I S T I N G

by
Baker Hughes INTEQ

SUR: D-13-16s-36e, 510/N & 250/W
SIDE TRACK 2
BHL: C-13-16s-36e, 406/N & 1344/W
API # 30-025-35596

Your ref : Sidetrack
Our ref : svyl870
License :

Date printed : 16-Jan-2002
Date created : 2-Jan-2002
Last revised : 16-Jan-2002

Field is centred on n32 58 13.000,w103 14 15
Structure is centred on n32 58 13.000,w103 14 15

Slot location is n32 58 13.000,w103 14 15.000
Slot Grid coordinates are N 718448.687, E 836085.155
Slot local coordinates are 0.00 N 0.00 E

Projection type: mercator - New Mexico East (3001), Spheroid: Clarke - 1866

Reference North is Grid North

SURFACE 510' FNL + 250' FNL

BHL-2
11,820' MD
11,570.45' TVd

405.84' FNL + 1344.32' FNL

Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S		Dogleg Deg/100ft	Vert Sect	G R I D Easting	C O O R D S Northing
0.00	0.00	0.00	0.00	0.00N	0.00E	0.00	0.00	836085.15	718448.69
100.00	0.20	240.68	100.00	0.09S	0.15W	0.20	-0.16	836085.00	718448.60
200.00	0.35	224.93	200.00	0.39S	0.52W	0.17	-0.55	836084.63	718448.30
300.00	0.40	231.87	300.00	0.82S	1.01W	0.07	-1.08	836084.14	718447.87
400.00	0.50	252.07	399.99	1.17S	1.70W	0.19	-1.80	836083.45	718447.52
500.00	0.25	201.37	499.99	1.51S	2.19W	0.39	-2.33	836082.96	718447.18
600.00	0.30	192.82	599.99	1.96S	2.33W	0.06	-2.51	836082.82	718446.72
700.00	0.32	181.87	699.99	2.50S	2.40W	0.06	-2.63	836082.76	718446.19
800.00	0.25	168.63	799.99	2.99S	2.37W	0.10	-2.64	836082.79	718445.70
900.00	0.23	175.60	899.99	3.41S	2.31W	0.04	-2.62	836082.85	718445.28
1000.00	0.25	210.08	999.99	3.79S	2.40W	0.14	-2.75	836082.75	718444.89
1100.00	0.27	202.72	1099.98	4.20S	2.60W	0.04	-2.99	836082.55	718444.49
1200.00	0.32	206.33	1199.98	4.67S	2.82W	0.05	-3.25	836082.34	718444.02
1300.00	0.58	216.43	1299.98	5.33S	3.24W	0.27	-3.73	836081.91	718443.36
1400.00	0.75	222.87	1399.97	6.21S	3.99W	0.19	-4.56	836081.17	718442.47
1500.00	0.88	227.32	1499.96	7.21S	5.00W	0.14	-5.66	836080.16	718441.47
1600.00	0.78	227.65	1599.95	8.19S	6.06W	0.10	-6.82	836079.09	718440.49
1700.00	0.78	228.97	1699.94	9.10S	7.08W	0.02	-7.91	836078.07	718439.59
1800.00	0.63	228.93	1799.94	9.91S	8.01W	0.15	-8.91	836077.15	718438.78
1900.00	0.75	241.08	1899.93	10.58S	9.00W	0.19	-9.96	836076.16	718438.10
2000.00	0.85	244.57	1999.92	11.22S	10.24W	0.11	-11.26	836074.92	718437.47
2100.00	1.07	255.68	2099.91	11.77S	11.81W	0.29	-12.88	836073.34	718436.92
2200.00	1.10	241.68	2199.89	12.45S	13.56W	0.27	-14.69	836071.59	718436.23
2300.00	0.67	208.97	2299.88	13.42S	14.69W	0.65	-15.90	836070.46	718435.27
2400.00	0.70	195.48	2399.87	14.52S	15.14W	0.16	-16.45	836070.02	718434.17

All data in feet unless otherwise stated. Calculation uses minimum curvature method.

Coordinates from slot #1 and TVD from rotary table.

Bottom hole distance is 1099.26 on azimuth 84.56 degrees from wellhead.

Vertical section is from N 0.00 W 0.00 on azimuth 84.54 degrees.

Grid is mercator - New Mexico East (3001).

Grid coordinates in FEET and computed using the Clarke - 1866 spheroid

Presented by Baker Hughes INTEQ

Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S		Dogleg Deg/100ft	Vert Sect	G R I D C O O R D S Easting Northing	
2500.00	0.62	145.25	2499.86	15.55S	14.99W	0.56	-16.40	836070.16	718433.13
2600.00	0.80	109.32	2599.86	16.23S	14.02W	0.47	-15.51	836071.13	718432.46
2700.00	0.98	95.37	2699.84	16.54S	12.51W	0.28	-14.03	836072.64	718432.15
2800.00	1.03	67.98	2799.83	16.28S	10.83W	0.48	-12.33	836074.32	718432.40
2900.00	1.10	50.53	2899.81	15.34S	9.26W	0.33	-10.67	836075.90	718433.35
3000.00	1.27	40.18	2999.79	13.88S	7.80W	0.27	-9.08	836077.36	718434.81
3100.00	1.38	41.87	3099.76	12.14S	6.28W	0.12	-7.41	836078.87	718436.55
3200.00	1.58	68.68	3199.73	10.74S	4.19W	0.71	-5.20	836080.96	718437.95
3300.00	1.40	81.53	3299.70	10.06S	1.70W	0.38	-2.65	836083.45	718438.63
3400.00	0.95	106.18	3399.68	10.11S	0.30E	0.67	-0.66	836085.46	718438.58
3500.00	1.08	112.42	3499.66	10.70S	1.97E	0.17	0.94	836087.13	718437.99
3600.00	1.42	85.03	3599.64	10.95S	4.08E	0.68	3.02	836089.23	718437.74
3700.00	1.40	76.60	3699.61	10.56S	6.50E	0.21	5.47	836091.65	718438.13
3800.00	1.68	77.03	3799.57	9.95S	9.12E	0.28	8.13	836094.27	718438.74
3900.00	1.65	81.10	3899.53	9.40S	11.97E	0.12	11.02	836097.12	718439.29
4000.00	1.48	82.05	3999.49	9.00S	14.67E	0.17	13.75	836099.82	718439.69
4100.00	1.52	72.43	4099.46	8.42S	17.21E	0.25	16.33	836102.37	718440.27
4200.00	1.35	60.02	4199.43	7.43S	19.50E	0.35	18.70	836104.65	718441.26
4300.00	1.42	50.58	4299.40	6.05S	21.47E	0.24	20.80	836106.63	718442.64
4400.00	1.47	45.62	4399.37	4.37S	23.35E	0.13	22.83	836108.50	718444.32
4500.00	1.10	35.15	4499.34	2.69S	24.82E	0.44	24.45	836109.97	718446.00
4600.00	1.15	29.32	4599.32	1.03S	25.86E	0.12	25.65	836111.02	718447.66
4700.00	1.17	19.53	4699.30	0.81N	26.69E	0.20	26.65	836111.85	718449.50
4800.00	1.05	26.80	4799.28	2.59N	27.45E	0.18	27.57	836112.60	718451.28
4900.00	1.00	41.07	4899.27	4.07N	28.44E	0.26	28.69	836113.59	718452.75

All data in feet unless otherwise stated. Calculation uses minimum curvature method.

Coordinates from slot #1 and TVD from rotary table.

Bottom hole distance is 1099.26 on azimuth 84.56 degrees from wellhead.

Vertical section is from N 0.00 W 0.00 on azimuth 84.54 degrees.

Grid is mercator - New Mexico East (3001).

Grid coordinates in FEET and computed using the Clarke - 1866 spheroid

Presented by Baker Hughes INTEQ

Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S		Dogleg Deg/100ft	Vert Sect	G R I D Easting	C O O R D S Northing
5000.00	1.00	45.67	4999.25	5.33N	29.63E	0.08	30.01	836114.79	718454.02
5100.00	0.90	52.80	5099.24	6.42N	30.88E	0.15	31.35	836116.04	718455.11
5200.00	0.97	54.23	5199.22	7.39N	32.20E	0.07	32.75	836117.35	718456.08
5300.00	1.02	55.37	5299.21	8.39N	33.61E	0.05	34.26	836118.77	718457.08
5400.00	1.10	53.58	5399.19	9.46N	35.12E	0.09	35.86	836120.27	718458.15
5500.00	1.32	56.78	5499.17	10.67N	36.86E	0.23	37.70	836122.01	718459.35
5600.00	1.03	51.02	5599.15	11.86N	38.52E	0.31	39.47	836123.67	718460.55
5700.00	1.13	50.05	5699.13	13.06N	39.97E	0.10	41.03	836125.13	718461.75
5800.00	1.25	52.75	5799.11	14.35N	41.60E	0.13	42.77	836126.75	718463.04
5900.00	1.07	54.13	5899.09	15.56N	43.22E	0.18	44.51	836128.38	718464.25
6000.00	1.00	51.65	5999.07	16.65N	44.66E	0.08	46.04	836129.82	718465.34
6100.00	0.82	47.33	6099.06	17.68N	45.87E	0.19	47.35	836131.03	718466.36
6200.00	0.68	51.32	6199.05	18.53N	46.86E	0.15	48.41	836132.02	718467.22
6300.00	0.57	64.32	6299.05	19.12N	47.77E	0.18	49.38	836132.93	718467.81
6400.00	0.57	67.78	6399.04	19.52N	48.68E	0.03	50.32	836133.84	718468.21
6500.00	0.50	76.35	6499.04	19.81N	49.57E	0.11	51.23	836134.72	718468.50
6600.00	0.48	69.03	6599.03	20.07N	50.38E	0.07	52.06	836135.54	718468.75
6700.00	0.48	82.00	6699.03	20.27N	51.19E	0.11	52.88	836136.34	718468.96
6800.00	0.40	94.37	6799.03	20.31N	51.95E	0.12	53.65	836137.11	718468.99
6900.00	0.53	97.35	6899.02	20.22N	52.76E	0.13	54.44	836137.91	718468.91
7000.00	0.50	99.15	6999.02	20.09N	53.65E	0.03	55.32	836138.80	718468.78
7100.00	0.53	117.92	7099.02	19.81N	54.49E	0.17	56.12	836139.64	718468.49
7200.00	0.52	112.27	7199.01	19.42N	55.31E	0.05	56.91	836140.47	718468.10
7300.00	0.73	120.40	7299.01	18.92N	56.28E	0.23	57.83	836141.44	718467.61
7400.00	0.80	129.52	7399.00	18.16N	57.37E	0.14	58.84	836142.53	718466.84

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Coordinates from slot #1 and TVD from rotary table.

Bottom hole distance is 1099.26 on azimuth 84.56 degrees from wellhead.

Vertical section is from N 0.00 W 0.00 on azimuth 84.54 degrees.

Grid is mercator - New Mexico East (3001).

Grid coordinates in FEET and computed using the Clarke - 1866 spheroid

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Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S		Dogleg Deg/100ft	Vert Sect	G R I D Easting	C O O R D S Northing
7500.00	1.12	144.22	7498.98	16.92N	58.48E	0.40	59.83	836143.64	718465.61
7600.00	1.07	169.27	7598.96	15.21N	59.23E	0.48	60.41	836144.38	718463.90
7700.00	1.17	208.87	7698.95	13.40N	58.91E	0.76	59.92	836144.06	718462.08
7800.00	1.15	215.62	7798.93	11.69N	57.83E	0.14	58.68	836142.99	718460.37
7900.00	1.30	226.17	7898.90	10.09N	56.43E	0.27	57.13	836141.58	718458.77
8000.00	1.32	229.13	7998.88	8.55N	54.74E	0.07	55.30	836139.89	718457.23
8100.00	1.17	231.92	8098.85	7.16N	53.06E	0.16	53.50	836138.22	718455.85
8200.00	1.05	226.60	8198.84	5.90N	51.59E	0.16	51.92	836136.75	718454.59
8300.00	0.60	208.40	8298.82	4.81N	50.68E	0.52	50.91	836135.83	718453.50
8400.00	0.52	176.15	8398.82	3.90N	50.46E	0.32	50.60	836135.62	718452.59
8500.00	0.63	165.22	8498.82	2.92N	50.63E	0.15	50.68	836135.79	718451.60
8600.00	0.72	161.60	8598.81	1.79N	50.97E	0.10	50.91	836136.13	718450.48
8700.00	0.65	158.98	8698.80	0.66N	51.37E	0.08	51.20	836136.53	718449.35
8800.00	0.65	164.25	8798.79	0.41S	51.73E	0.06	51.46	836136.88	718448.27
8900.00	0.60	161.47	8898.79	1.45S	52.05E	0.06	51.68	836137.20	718447.23
9000.00	0.53	170.52	8998.78	2.41S	52.29E	0.11	51.83	836137.45	718446.28
9100.00	0.58	177.45	9098.78	3.37S	52.39E	0.08	51.83	836137.55	718445.32
9200.00	0.60	168.80	9198.77	4.39S	52.52E	0.09	51.86	836137.67	718444.30
9249.00	0.90	107.50	9247.77	4.76S	52.93E	1.65	52.24	836138.09	718443.93
9280.00	2.50	84.30	9278.76	4.76S	53.84E	5.52	53.14	836138.99	718443.93
9311.00	4.20	77.30	9309.70	4.45S	55.62E	5.63	54.94	836140.77	718444.24
9343.00	6.20	78.00	9341.57	3.83S	58.45E	6.25	57.82	836143.61	718444.86
9374.00	7.30	75.20	9372.35	2.98S	61.99E	3.70	61.43	836147.15	718445.71
9406.00	8.80	85.40	9404.04	2.26S	66.40E	6.46	65.88	836151.55	718446.43
9436.00	10.40	82.90	9433.62	1.74S	71.37E	5.51	70.88	836156.53	718446.94

All data in feet unless otherwise stated. Calculation uses minimum curvature method.

Coordinates from slot #1 and TVD from rotary table.

Bottom hole distance is 1099.26 on azimuth 84.56 degrees from wellhead.

Vertical section is from N 0.00 W 0.00 on azimuth 84.54 degrees.

Grid is mercator - New Mexico East (3001).

Grid coordinates in FEET and computed using the Clarke - 1866 spheroid

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Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S		Dogleg Deg/100ft	Vert Sect	G R I D Easting	C O O R D S Northing
9467.00	12.00	84.70	9464.03	1.10S	77.36E	5.28	76.90	836162.51	718447.59
9499.00	12.60	86.10	9495.29	0.55S	84.15E	2.09	83.72	836169.31	718448.13
9531.00	12.80	87.50	9526.51	0.16S	91.18E	1.15	90.75	836176.33	718448.53
9562.00	12.70	87.50	9556.74	0.14N	98.01E	0.32	97.58	836183.17	718448.82
9593.00	12.90	88.90	9586.97	0.35N	104.88E	1.19	104.43	836190.03	718449.04
9624.00	12.70	87.90	9617.20	0.54N	111.74E	0.96	111.29	836196.90	718449.23
9656.00	12.20	89.90	9648.45	0.68N	118.64E	2.06	118.17	836203.79	718449.36
9688.00	13.70	87.80	9679.64	0.83N	125.81E	4.91	125.32	836210.96	718449.52
9719.00	14.90	85.70	9709.68	1.27N	133.45E	4.22	132.97	836218.60	718449.96
9750.00	16.30	83.90	9739.53	2.03N	141.75E	4.78	141.30	836226.91	718450.72
9782.00	17.90	84.70	9770.12	2.96N	151.11E	5.05	150.71	836236.27	718451.65
9813.00	19.30	85.70	9799.50	3.79N	160.97E	4.63	160.60	836246.12	718452.47
9844.00	20.60	86.10	9828.64	4.54N	171.52E	4.22	171.17	836256.67	718453.23
9876.00	22.20	85.40	9858.43	5.41N	183.16E	5.06	182.84	836268.31	718454.10
9907.00	23.90	83.90	9886.95	6.55N	195.24E	5.80	194.98	836280.40	718455.23
9938.00	25.40	83.20	9915.13	8.00N	208.09E	4.93	207.91	836293.24	718456.69
<i>2nd KO</i> 9969.00	27.20	83.20	9942.92	9.63N	221.73E	5.81	221.64	836306.88	718458.31
10001.00	27.60	82.90	9971.33	11.41N	236.34E	1.32	236.36	836321.50	718460.10
10032.00	27.30	83.60	9998.84	13.09N	250.54E	1.42	250.64	836335.69	718461.78
10063.00	27.50	83.60	10026.36	14.68N	264.71E	0.65	264.91	836349.87	718463.37
10095.00	28.50	85.40	10054.62	16.11N	279.67E	4.09	279.93	836364.82	718464.80
10125.00	28.90	85.00	10080.93	17.32N	294.02E	1.48	294.34	836379.18	718466.01
10158.00	29.20	84.60	10109.78	18.77N	309.98E	1.08	310.36	836395.13	718467.46
10189.00	29.20	85.00	10136.84	20.14N	325.04E	0.63	325.48	836410.19	718468.83
10221.00	29.30	84.60	10164.76	21.56N	340.61E	0.69	341.12	836425.77	718470.25

All data in feet unless otherwise stated. Calculation uses minimum curvature method.

Coordinates from slot #1 and TVD from rotary table.

Bottom hole distance is 1099.26 on azimuth 84.56 degrees from wellhead.

Vertical section is from N 0.00 W 0.00 on azimuth 84.54 degrees.

Grid is mercator - New Mexico East (3001).

Grid coordinates in FEET and computed using the Clarke - 1866 spheroid

Presented by Baker Hughes INTEQ

Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S	Dogleg Deg/100ft	Vert Sect	G R I D Easting	C O O R D S Northing	
10252.00	29.80	84.60	10191.73	23.00N	355.83E	1.61	356.41	836440.99	718471.69
10283.00	29.40	84.60	10218.68	24.44N	371.08E	1.29	371.72	836456.23	718473.13
10315.00	29.70	83.60	10246.52	26.06N	386.77E	1.80	387.50	836471.93	718474.75
10346.00	29.40	85.00	10273.49	27.58N	401.99E	2.43	402.79	836487.14	718476.27
10378.00	29.30	85.40	10301.38	28.90N	417.62E	0.69	418.47	836502.77	718477.58
10409.00	29.40	83.90	10328.40	30.31N	432.74E	2.39	433.66	836517.90	718479.00
10440.00	29.40	83.90	10355.41	31.93N	447.88E	0.00	448.88	836533.03	718480.62
10472.00	29.40	83.90	10383.29	33.60N	463.50E	0.00	464.59	836548.65	718482.29
10504.00	30.00	83.90	10411.08	35.28N	479.26E	1.87	480.44	836564.41	718483.97
10535.00	30.20	83.20	10437.90	37.03N	494.71E	1.30	495.99	836579.86	718485.72
10567.00	30.50	82.90	10465.52	38.99N	510.76E	1.05	512.15	836595.91	718487.67
10598.00	30.40	83.20	10492.24	40.89N	526.35E	0.59	527.86	836611.51	718489.57
10629.00	30.30	84.30	10518.99	42.59N	541.92E	1.82	543.52	836627.08	718491.28
10660.00	30.40	83.60	10545.74	44.24N	557.50E	1.19	559.18	836642.65	718492.93
10692.00	30.30	83.60	10573.36	46.05N	573.57E	0.31	575.35	836658.72	718494.73
10722.00	30.50	83.30	10599.23	47.78N	588.65E	0.84	590.52	836673.80	718496.47
10754.00	30.50	82.50	10626.81	49.79N	604.77E	1.27	606.76	836689.92	718498.47
10785.00	30.40	82.20	10653.53	51.88N	620.34E	0.59	622.46	836705.49	718500.56
10816.00	30.70	81.50	10680.23	54.11N	635.93E	1.50	638.20	836721.09	718502.80
10848.00	29.60	81.50	10707.90	56.49N	651.83E	3.44	654.25	836736.98	718505.17
10880.00	28.30	82.50	10735.90	58.65N	667.17E	4.33	669.72	836752.32	718507.33
10911.00	27.60	83.60	10763.28	60.40N	681.59E	2.80	684.24	836766.74	718509.09
10942.00	27.60	84.30	10790.76	61.92N	695.87E	1.05	698.61	836781.03	718510.61
10973.00	28.50	85.00	10818.11	63.28N	710.38E	3.09	713.18	836795.54	718511.96
11005.00	28.40	85.40	10846.25	64.55N	725.58E	0.67	728.43	836810.73	718513.24

All data in feet unless otherwise stated. Calculation uses minimum curvature method.

Coordinates from slot #1 and TVD from rotary table.

Bottom hole distance is 1099.26 on azimuth 84.56 degrees from wellhead.

Vertical section is from N 0.00 W 0.00 on azimuth 84.54 degrees.

Grid is mercator - New Mexico East (3001).

Grid coordinates in FEET and computed using the Clarke - 1866 spheroid

Presented by Baker Hughes INTEQ

Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S	Dogleg Deg/100ft	Vert Sect	G R I D Easting	C O O R D S Northing	
11036.00	28.00	85.40	10873.57	65.73N	740.18E	1.29	743.07	836825.33	718514.41
11067.00	27.30	86.10	10901.03	66.79N	754.52E	2.49	757.46	836839.68	718515.48
11099.00	27.20	87.50	10929.48	67.61N	769.15E	2.03	772.10	836854.31	718516.30
11131.00	27.90	87.50	10957.85	68.26N	783.94E	2.19	786.88	836869.09	718516.95
11162.00	27.80	87.80	10985.26	68.85N	798.41E	0.56	801.34	836883.56	718517.54
11192.00	27.80	87.10	11011.80	69.47N	812.39E	1.09	815.31	836897.54	718518.16
11225.00	27.80	86.40	11040.99	70.35N	827.75E	0.99	830.69	836912.91	718519.03
11256.00	28.10	86.10	11068.37	71.30N	842.25E	1.07	845.21	836927.40	718519.98
11287.00	28.70	84.30	11095.64	72.53N	856.94E	3.37	859.95	836942.10	718521.22
11319.00	28.90	83.90	11123.68	74.12N	872.28E	0.87	875.37	836957.43	718522.81
11350.00	28.50	84.30	11150.87	75.65N	887.08E	1.43	890.26	836972.24	718524.34
11382.00	28.90	83.60	11178.94	77.27N	902.36E	1.63	905.62	836987.52	718525.96
11413.00	29.40	82.20	11206.02	79.14N	917.35E	2.73	920.72	837002.50	718527.82
11444.00	29.90	80.80	11232.96	81.40N	932.51E	2.76	936.03	837017.67	718530.09
11476.00	29.90	82.50	11260.70	83.72N	948.29E	2.65	951.96	837033.45	718532.41
11508.00	29.10	82.90	11288.55	85.72N	963.92E	2.57	967.71	837049.08	718534.41
11539.00	29.00	82.90	11315.65	87.58N	978.86E	0.32	982.75	837064.02	718536.27
11571.00	29.20	84.30	11343.61	89.32N	994.33E	2.22	998.31	837079.48	718538.01
11601.00	28.80	83.20	11369.85	90.90N	1008.78E	2.22	1012.86	837093.94	718539.59
11633.00	27.30	82.50	11398.09	92.77N	1023.71E	4.80	1027.90	837108.87	718541.46
11665.00	25.80	82.20	11426.72	94.67N	1037.89E	4.71	1042.19	837123.04	718543.36
11696.00	24.20	80.10	11454.81	96.68N	1050.83E	5.90	1055.27	837135.99	718545.37
11725.00	22.20	79.40	11481.46	98.71N	1062.08E	6.96	1066.65	837147.23	718547.40
11758.00	19.70	80.70	11512.28	100.76N	1073.69E	7.71	1078.41	837158.85	718549.45
11820.00	19.70	80.70	11570.65	104.14N	1094.32E	0.00	1099.26	837179.47	718552.82

All data in feet unless otherwise stated. Calculation uses minimum curvature method.

Coordinates from slot #1 and TVD from rotary table.

Bottom hole distance is 1099.26 on azimuth 84.56 degrees from wellhead.

Vertical section is from N 0.00 W 0.00 on azimuth 84.54 degrees.

Grid is mercator - New Mexico East (3001).

Grid coordinates in FEET and computed using the Clarke - 1866 spheroid

Presented by Baker Hughes INTEQ

TMBR/SHARP DRILLING INC.
HILBURN #3,slot #1
,LEA COUNTY, NEW MEXICO

SURVEY LISTING Page 8
Your ref : Sidetrack
Last revised : 16-Jan-2002

Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S	Dogleg Deg/100ft	Vert Sect	G R I D Easting	C O O R D S Northing
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All data in feet unless otherwise stated. Calculation uses minimum curvature method.

Coordinates from slot #1 and TVD from rotary table.

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TMBR/SHARP DRILLING INC.
HILBURN #3, slot #1
, LEA COUNTY, NEW MEXICO

SURVEY LISTING Page 9
Your ref : Sidetrack
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NO Targets associated with this wellpath