

Horizontal Actual

15-181-20373-01-00



Scientific Drilling
Directional Drilling Operations

Job Number: 34H0505374
Company: BILL BARRETT CORP.
Lease/Well: HELMAN 8 -24H
Location: GOODLAND
Rig Name: DHS DRILLING #3
RKB: ☐
G.L. or M.S.L.: ☐

State/Country: KANSAS , USA
Declination: 7.87
Grid: ☐
File name: E:\WINSERVE\HELMAN.SVY
Date/Time: 17-May-05 / 01:08
Curve Name: HELMAN

WINSERVE PROPOSAL REPORT
Minimum Curvature Method
Vertical Section Plane 304.00
Vertical Section Referenced to Wellhead
Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
425.00	.00	.00	425.00	.00	.00	.00	.00	.00	.00
520.00	1.10	344.90	519.99	.88	-.24	.69	.91	344.90	1.16
673.00	.50	328.50	672.98	2.87	-.97	2.41	3.03	341.33	.42
744.00	.30	293.30	743.98	3.21	-1.30	2.87	3.46	337.90	.43
806.00	4.70	319.30	805.90	5.20	-3.11	5.48	6.05	329.12	7.15
836.00	8.80	324.10	835.69	7.99	-5.26	8.82	9.56	326.66	13.78
867.00	12.80	322.90	866.13	12.65	-8.72	14.30	15.36	325.42	12.92
897.00	16.70	318.00	895.14	18.51	-13.61	21.63	22.97	323.67	13.64
928.00	20.30	318.20	924.53	25.83	-20.18	31.17	32.77	322.00	11.61
959.00	23.90	322.70	953.25	34.83	-27.57	42.34	44.42	321.64	12.83
990.00	28.30	323.90	981.09	45.77	-35.71	55.20	58.05	322.04	14.29
1021.00	32.50	322.10	1007.82	58.29	-45.16	70.03	73.73	322.23	13.86
1052.00	35.40	320.30	1033.53	71.77	-56.01	86.57	91.04	322.03	9.90
1082.00	37.20	318.40	1057.71	85.24	-67.59	103.70	108.78	321.59	7.07
1113.00	40.70	315.90	1081.82	99.51	-80.85	122.67	128.21	320.91	12.37
1144.00	45.10	315.90	1104.52	114.66	-95.53	143.31	149.24	320.20	14.19
1175.00	49.60	315.50	1125.52	130.97	-111.45	165.64	171.97	319.60	14.55
1206.00	51.60	314.10	1145.19	147.85	-128.45	189.17	195.85	319.02	7.33
1236.00	53.60	312.40	1163.41	164.17	-145.81	212.69	219.57	318.39	8.04
1267.00	57.50	311.40	1180.95	181.24	-164.84	238.00	244.99	317.71	12.86
1298.00	60.40	310.80	1196.93	198.69	-184.85	264.35	271.38	317.07	9.50
1329.00	64.30	308.80	1211.32	216.26	-205.94	291.67	298.63	316.40	13.82

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE		Dogleg Severity Deg/100
				FT	FT	FT	Distance FT	Direction Deg	
1360.00	66.00	308.50	1224.35	233.83	-227.91	319.70	326.53	315.73	5.55
1390.00	69.00	306.40	1235.83	250.67	-249.92	347.36	353.97	315.09	11.91
1420.00	72.20	306.50	1245.79	267.48	-272.67	375.63	381.97	314.45	10.67
1451.00	73.00	306.20	1255.06	285.02	-296.50	405.19	411.27	313.87	2.74
1481.00	72.90	306.20	1263.86	301.95	-319.64	433.85	439.71	313.37	.33
1511.00	72.70	305.80	1272.73	318.80	-342.83	462.49	468.15	312.92	1.44
1541.00	73.30	305.10	1281.50	335.44	-366.20	491.17	496.61	312.49	3.00
1574.00	77.40	304.60	1289.84	353.68	-392.40	523.08	528.26	312.03	12.51
1671.00	84.20	301.00	1305.35	405.48	-472.84	618.74	622.89	310.61	7.91
1702.00	84.70	301.40	1308.35	421.47	-499.23	649.56	653.35	310.17	2.06
1735.00	87.40	301.60	1310.62	438.67	-527.30	682.45	685.91	309.76	8.20
1762.00	90.50	302.10	1311.11	452.91	-550.22	709.42	712.65	309.46	11.63
1791.00	90.70	302.70	1310.81	468.45	-574.71	738.41	741.44	309.18	2.18
1821.00	90.40	303.20	1310.52	484.77	-599.88	768.40	771.27	308.94	1.94
1854.00	90.00	303.40	1310.41	502.88	-627.46	801.40	804.11	308.71	1.36
1885.00	89.90	303.10	1310.43	519.88	-653.39	832.40	834.98	308.51	1.02
1915.00	89.90	302.70	1310.49	536.18	-678.58	862.39	864.84	308.31	1.33
1946.00	90.60	302.90	1310.35	552.97	-704.63	893.38	895.70	308.12	2.35
1976.00	91.20	303.10	1309.88	569.30	-729.79	923.37	925.58	307.96	2.11
2007.00	90.80	303.50	1309.34	586.32	-755.70	954.37	956.48	307.81	1.82
2038.00	90.40	304.20	1309.01	603.59	-781.44	985.36	987.40	307.68	2.60
2068.00	90.60	303.90	1308.75	620.39	-806.29	1015.36	1017.34	307.58	1.20
2099.00	91.20	303.70	1308.27	637.63	-832.05	1046.36	1048.27	307.46	2.04
2130.00	91.60	304.30	1307.51	654.96	-857.74	1077.35	1079.21	307.36	2.33
2161.00	91.40	304.20	1306.70	672.40	-883.36	1108.34	1110.16	307.28	.72
2191.00	90.80	303.50	1306.12	689.11	-908.27	1138.33	1140.10	307.19	3.07
2221.00	90.80	303.10	1305.70	705.58	-933.34	1168.33	1170.03	307.09	1.33
2252.00	90.60	303.00	1305.32	722.48	-959.32	1199.32	1200.95	306.98	.72
2283.00	90.50	303.90	1305.03	739.57	-985.19	1230.32	1231.89	306.90	2.92
2313.00	90.50	302.80	1304.76	756.06	-1010.25	1260.31	1261.83	306.81	3.67
2344.00	90.60	302.00	1304.47	772.67	-1036.42	1291.30	1292.74	306.71	2.60
2375.00	90.90	301.90	1304.06	789.07	-1062.72	1322.28	1323.63	306.59	1.02
2405.00	90.90	301.60	1303.59	804.86	-1088.23	1352.25	1353.53	306.49	1.00
2435.00	90.80	301.40	1303.14	820.53	-1113.80	1382.22	1383.41	306.38	.75
2466.00	90.90	301.00	1302.68	836.59	-1140.32	1413.18	1414.28	306.27	1.33
2496.00	91.50	301.10	1302.06	852.06	-1166.01	1443.13	1444.16	306.16	2.03
2527.00	91.30	301.00	1301.30	868.04	-1192.56	1474.08	1475.03	306.05	.72
2558.00	91.20	301.20	1300.62	884.05	-1219.10	1505.04	1505.91	305.95	.72
2588.00	91.10	300.80	1300.02	899.50	-1244.81	1534.99	1535.79	305.85	1.37
2619.00	91.10	300.40	1299.43	915.27	-1271.49	1565.93	1566.66	305.75	1.29
2650.00	91.10	300.60	1298.83	931.01	-1298.19	1596.86	1597.52	305.65	.65
2680.00	91.40	300.05	1298.18	946.15	-1324.08	1626.80	1627.39	305.55	2.09

RECEIVED
OCT 20 2005
KCC WICHITA

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
2710.00	91.80	300.50	1297.34	961.27	-1349.98	1656.72	1657.25	305.45	2.01
2740.00	91.90	300.10	1296.37	976.40	-1375.87	1686.64	1687.12	305.36	1.37
2771.00	91.70	300.30	1295.40	991.98	-1402.65	1717.56	1717.98	305.27	.91
--Projection to Bit--									
2802.00	91.50	300.50	1294.53	1007.66	-1429.38	1748.49	1748.86	305.18	.91

RECEIVED
OCT 20 2005
KCC WICHITA