

Scientific Drilling International

Survey Report

Company: PALADIN Field: State BTC Site: Lea County, Texas Well: State BTC #5 Wellpath: VH - Job #32K1002358/374	Date: 10/21/2002 Co-ordinate(NE) Reference: Vertical (TVD) Reference: Section (VS) Reference: Survey Calculation Method:	Time: 11:48:43 Site: Lea County, Texas, True North SITE 0.0 above Mean Sea Level Well (0.0E,0.0N,136.9Azi) Minimum Curvature	Page: 3
--	---	---	----------------

Survey									
MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	ClsD ft	ClsA deg	DLS deg/100ft
9955.0	0.82	133.06	9954.4	85.3	-67.0	52.9	85.3	141.69	0.35
10000.0	0.96	118.45	9999.4	86.0	-67.3	53.5	86.0	141.56	0.59
10100.0	1.04	80.93	10099.4	87.2	-67.6	55.1	87.2	140.83	0.65
10200.0	0.82	113.63	10199.4	88.3	-67.7	56.6	88.3	140.10	0.56
10300.0	1.57	120.71	10299.4	90.2	-68.7	58.5	90.2	139.61	0.76
10400.0	1.99	116.62	10399.3	93.1	-70.2	61.2	93.1	138.92	0.44
10500.0	2.83	119.96	10499.2	97.0	-72.2	64.9	97.1	138.06	0.85
10600.0	2.15	120.40	10599.1	101.0	-74.4	68.6	101.2	137.30	0.68
10700.0	2.42	132.55	10699.0	104.9	-76.8	71.8	105.1	136.91	0.55
10800.0	1.89	131.81	10799.0	108.6	-79.3	74.6	108.9	136.75	0.53
10844.0	2.56	161.92	10842.9	110.2	-80.7	75.5	110.5	136.93	3.01

10/21/2002
11:48:43
000