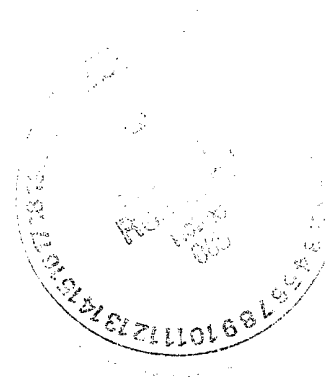


Scientific Drilling

PALADIN

Field: South Vacuum
Site: Lea County, NM
Well: South Vacuum Unit #26-5
Wellpath: VH - Job #32K0105079/126
Survey: 01/28/05 & 2/19/05

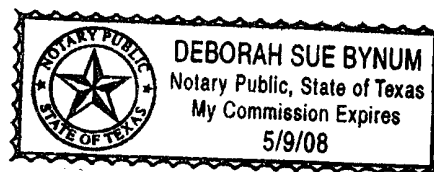


This survey is correct to the best of my knowledge
and is supported by actual field data.

David Hardy Company Representative

Notorized this date 29th of March, 2005.

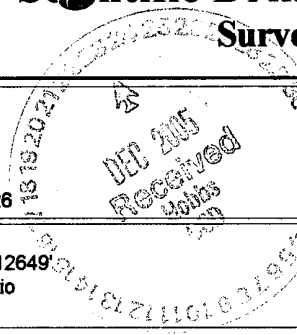
Deborah Sue Bynum
Notary Signature
County of Midland
State of Texas





Scientific Drilling International Survey Report

Company: PALADIN	Date: 3/22/2005	Time: 11:54:26	Page: 1
Field: South Vacuum	Co-ordinate(NE) Reference: Site: Lea County, NM, Grid North		
Site: Lea County, NM	Vertical (TVD) Reference: SITE 0.0		
Well: South Vacuum Unit #26-5	Section (VS) Reference: Well (0.00N,0.00E,180.00Azi)		
Wellpath: VH - Job #32K0105079/126	Survey Calculation Method: Minimum Curvature	Db: Sybase	



Survey: 01/28/05 & 2/19/05 KSRG 0'-8055' & 8100'-12649'	Start Date: 1/28/2005
Company: Scientific Drilling Internatio	Engineer: Guebara/Rowe/Page/Foster
Tool: Keeper, Keeper Gyro	Tied-to: From Surface

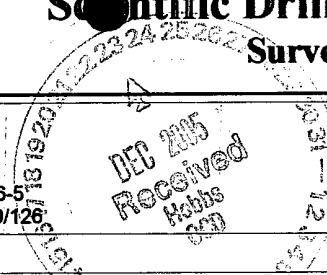
Survey

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
100.00	0.58	242.41	100.00	0.23	-0.23	-0.45	0.58	0.51	242.41
200.00	0.63	237.95	199.99	0.76	-0.76	-1.36	0.07	1.56	240.84
300.00	0.62	231.93	299.99	1.39	-1.39	-2.26	0.07	2.65	238.43
400.00	0.61	232.79	399.98	2.04	-2.04	-3.10	0.01	3.72	236.68
500.00	0.67	228.68	499.97	2.75	-2.75	-3.97	0.07	4.83	235.28
600.00	0.53	223.89	599.97	3.47	-3.47	-4.73	0.15	5.86	233.73
700.00	0.62	224.70	699.96	4.19	-4.19	-5.43	0.09	6.85	232.36
800.00	0.68	226.07	799.96	4.98	-4.98	-6.24	0.06	7.98	231.38
900.00	0.51	210.89	899.95	5.78	-5.78	-6.89	0.23	8.99	230.03
1000.00	0.65	232.49	999.95	6.50	-6.50	-7.57	0.26	9.98	229.33
1100.00	0.62	223.71	1099.94	7.24	-7.24	-8.39	0.10	11.08	229.22
1200.00	0.61	224.04	1199.94	8.01	-8.01	-9.14	0.01	12.15	228.75
1300.00	0.55	208.10	1299.93	8.82	-8.82	-9.73	0.17	13.13	227.82
1400.00	0.56	222.74	1399.93	9.60	-9.60	-10.29	0.14	14.07	226.98
1500.00	0.59	215.59	1499.92	10.38	-10.38	-10.92	0.08	15.07	226.46
1600.00	0.45	206.48	1599.92	11.15	-11.15	-11.40	0.16	15.94	225.63
1700.00	0.59	216.05	1699.91	11.91	-11.91	-11.87	0.16	16.82	224.90
1800.00	0.60	217.11	1799.91	12.75	-12.75	-12.49	0.02	17.85	224.42
1900.00	0.29	214.02	1899.90	13.38	-13.38	-12.95	0.31	18.62	224.07
2000.00	0.34	227.41	1999.90	13.79	-13.79	-13.31	0.09	19.16	223.99
2100.00	0.39	239.18	2099.90	14.16	-14.16	-13.82	0.09	19.79	224.30
2200.00	0.30	262.51	2199.90	14.37	-14.37	-14.37	0.16	20.33	225.00
2300.00	0.39	266.65	2299.90	14.43	-14.43	-14.97	0.09	20.79	226.07
2400.00	0.41	258.80	2399.89	14.51	-14.51	-15.66	0.06	21.35	227.18
2500.00	0.49	264.47	2499.89	14.63	-14.63	-16.44	0.09	22.00	228.34
2600.00	0.48	263.09	2599.89	14.72	-14.72	-17.28	0.01	22.70	229.58
2700.00	0.65	271.94	2699.88	14.75	-14.75	-18.26	0.19	23.47	231.07
2800.00	0.32	252.82	2799.88	14.81	-14.81	-19.10	0.36	24.17	232.20
2900.00	0.32	244.99	2899.88	15.01	-15.01	-19.62	0.04	24.71	232.58
3000.00	0.29	267.85	2999.88	15.14	-15.14	-20.13	0.12	25.19	233.04
3100.00	0.13	44.47	3099.88	15.07	-15.07	-20.30	0.39	25.28	233.41
3200.00	0.23	62.42	3199.88	14.90	-14.90	-20.04	0.11	24.97	233.38
3300.00	0.30	64.00	3299.87	14.69	-14.69	-19.63	0.07	24.52	233.19
3400.00	0.05	1.95	3399.87	14.53	-14.53	-19.40	0.28	24.24	233.16
3500.00	0.16	356.04	3499.87	14.35	-14.35	-19.40	0.11	24.13	233.52
3600.00	0.15	334.24	3599.87	14.09	-14.09	-19.47	0.06	24.04	234.10
3700.00	0.49	335.51	3699.87	13.58	-13.58	-19.71	0.34	23.93	235.42
3800.00	0.50	315.84	3799.87	12.88	-12.88	-20.19	0.17	23.95	237.47
3900.00	0.33	262.25	3899.87	12.60	-12.60	-20.78	0.40	24.30	238.76
4000.00	0.27	262.23	3999.86	12.67	-12.67	-21.30	0.06	24.78	239.24
4100.00	0.46	268.60	4099.86	12.72	-12.72	-21.93	0.19	25.35	239.89
4200.00	0.46	282.96	4199.86	12.64	-12.64	-22.72	0.11	26.00	240.92
4300.00	0.43	278.88	4299.86	12.49	-12.49	-23.48	0.04	26.60	242.00
4400.00	0.43	282.17	4399.85	12.35	-12.35	-24.22	0.02	27.19	242.98
4500.00	0.80	275.00	4499.85	12.21	-12.21	-25.28	0.38	28.08	244.22
4600.00	0.95	267.21	4599.84	12.19	-12.19	-26.81	0.19	29.45	245.54
4700.00	0.69	262.11	4699.83	12.31	-12.31	-28.23	0.27	30.80	246.43
4800.00	0.68	267.34	4799.82	12.42	-12.42	-29.42	0.06	31.94	247.11



Scientific Drilling International

Survey Report



Company: PALADIN	Date: 3/22/2005	Time: 11:54:26	Page: 2
Field: South Vacuum	Co-ordinate(NE) Reference:	Site: Lea County, NM, Grid North	
Site: Lea County, NM	Vertical (TVD) Reference:	SITE 0.0	
Well: South Vacuum Unit #26-5	Section (VS) Reference:	Well (0.00N,0.00E,180.00Azi)	
Wellpath: VH - Job #32K0105079/126	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
4900.00	0.70	266.70	4899.81	12.49	-12.49	-30.62	0.02	33.07	247.82
5000.00	0.79	277.44	4999.80	12.43	-12.43	-31.92	0.17	34.25	248.72
5100.00	0.86	274.87	5099.79	12.28	-12.28	-33.35	0.08	35.54	249.78
5200.00	0.82	268.80	5199.78	12.23	-12.23	-34.81	0.10	36.90	250.64
5300.00	0.65	262.99	5299.77	12.32	-12.32	-36.09	0.19	38.13	251.16
5400.00	0.50	263.58	5399.77	12.43	-12.43	-37.08	0.15	39.11	251.46
5500.00	0.46	264.68	5499.76	12.52	-12.52	-37.91	0.04	39.93	251.73
5600.00	0.39	262.38	5599.76	12.48	-12.48	-38.65	0.15	40.61	252.10
5700.00	0.45	278.45	5699.76	12.35	-12.35	-39.37	0.07	41.26	252.58
5800.00	0.41	278.90	5799.76	12.24	-12.24	-40.11	0.04	41.93	253.03
5900.00	0.45	285.49	5899.75	12.08	-12.08	-40.84	0.06	42.59	253.52
6000.00	0.45	310.11	5999.75	11.72	-11.72	-41.52	0.19	43.14	254.23
6100.00	0.17	239.10	6099.75	11.55	-11.55	-41.94	0.43	43.50	254.61
6200.00	0.12	206.04	6199.75	11.72	-11.72	-42.12	0.10	43.72	254.45
6300.00	0.14	237.45	6299.75	11.88	-11.88	-42.27	0.07	43.90	254.31
6400.00	0.25	295.09	6399.75	11.85	-11.85	-42.57	0.21	44.18	254.44
6500.00	0.24	240.77	6499.75	11.86	-11.86	-42.94	0.22	44.55	254.56
6600.00	0.29	230.23	6599.75	12.12	-12.12	-43.32	0.07	44.99	254.37
6700.00	0.23	262.22	6699.75	12.31	-12.31	-43.71	0.15	45.42	254.27
6800.00	0.07	236.62	6799.75	12.37	-12.37	-43.96	0.17	45.67	254.28
6900.00	0.36	294.08	6899.74	12.28	-12.28	-44.30	0.33	45.97	254.51
7000.00	0.29	253.32	6999.74	12.22	-12.22	-44.83	0.24	46.47	254.75
7100.00	0.27	72.29	7099.74	12.23	-12.23	-44.86	0.56	46.49	254.75
7200.00	0.73	96.04	7199.74	12.22	-12.22	-44.01	0.49	45.67	254.48
7300.00	1.18	104.41	7299.72	12.55	-12.55	-42.38	0.47	44.20	253.51
7400.00	1.36	106.87	7399.70	13.15	-13.15	-40.25	0.19	42.34	251.91
7500.00	1.27	117.59	7499.67	14.01	-14.01	-38.13	0.26	40.62	249.83
7600.00	1.39	127.28	7599.65	15.25	-15.25	-36.18	0.25	39.27	247.14
7700.00	1.24	137.01	7699.62	16.78	-16.78	-34.48	0.27	38.35	244.05
7800.00	0.92	126.94	7799.60	18.05	-18.05	-33.10	0.37	37.70	241.39
7900.00	0.65	111.98	7899.59	18.75	-18.75	-31.93	0.34	37.03	239.59
8000.00	0.45	8.87	7999.59	18.57	-18.57	-31.35	0.87	36.43	239.36
8055.00	0.65	2.63	8054.59	18.04	-18.04	-31.30	0.38	36.13	240.04
8100.00	0.87	7.10	8099.58	17.45	-17.45	-31.25	0.51	35.79	240.82
8200.00	1.45	354.83	8199.56	15.43	-15.43	-31.27	0.63	34.87	243.73
8300.00	2.60	340.70	8299.50	12.03	-12.03	-32.13	1.25	34.31	249.47
8400.00	5.37	341.76	8399.25	5.45	-5.45	-34.35	2.77	34.77	260.99
8500.00	4.94	339.80	8498.84	-3.04	3.04	-37.30	0.46	37.42	274.66
8600.00	4.68	336.75	8598.49	-10.83	10.83	-40.39	0.36	41.82	285.00
8700.00	3.14	347.56	8698.26	-17.25	17.25	-42.59	1.70	45.95	292.05
8800.00	2.89	21.75	8798.13	-22.27	22.27	-42.25	1.79	47.76	297.79
8900.00	3.62	37.68	8897.97	-27.11	27.11	-39.39	1.16	47.81	304.54
9000.00	3.80	39.08	8997.76	-32.18	32.18	-35.37	0.20	47.81	312.30
9100.00	2.65	82.50	9097.61	-35.05	35.05	-30.99	2.61	46.78	318.52
9200.00	3.33	104.12	9197.48	-34.65	34.65	-25.88	1.30	43.24	323.24
9300.00	3.10	124.06	9297.32	-32.42	32.42	-20.82	1.14	38.53	327.29
9400.00	2.88	144.68	9397.19	-28.86	28.86	-17.13	1.09	33.56	329.31
9500.00	3.21	149.74	9497.05	-24.39	24.39	-14.26	0.43	28.25	329.68
9600.00	2.82	151.41	9596.91	-19.81	19.81	-11.68	0.40	23.00	329.49
9700.00	2.79	150.09	9696.79	-15.54	15.54	-9.29	0.07	18.10	329.14
9800.00	3.31	153.83	9796.65	-10.84	10.84	-6.80	0.56	12.80	327.91
9900.00	3.90	149.36	9896.45	-5.32	5.32	-3.79	0.65	6.54	324.54



Scientific Drilling International

Survey Report

Company: PALADIN
Field: South Vacuum
Site: Lea County, NM
Well: South Vacuum Unit #26-5
Wellpath: VH - Job #32K0105079/126

Date: 3/22/2005 **Time:** 11:54:26 **Page:** 3
Co-ordinate(NE) Reference: Site: Lea County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,180.00Azi)
Survey Calculation Method: Minimum Curvature **Db:** Sybase

Survey

MD ft	Incl deg	Azlm deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
10000.00	4.12	149.25	9996.21	0.69	-0.69	-0.22	0.22	0.72	197.88
10100.00	3.36	162.75	10095.99	6.58	-6.58	2.48	1.16	7.03	159.31
10200.00	1.49	163.57	10195.90	10.62	-10.62	3.72	1.87	11.25	160.70
10300.00	0.74	126.09	10295.88	12.25	-12.25	4.61	1.01	13.09	159.38
10400.00	0.62	50.87	10395.88	12.29	-12.29	5.55	0.84	13.48	155.69
10500.00	0.54	43.57	10495.87	11.60	-11.60	6.30	0.11	13.20	151.52
10600.00	1.18	18.25	10595.86	10.29	-10.29	6.94	0.73	12.41	145.98
10700.00	1.54	18.75	10695.83	8.04	-8.04	7.70	0.36	11.13	136.23
10800.00	2.25	0.50	10795.78	4.80	-4.80	8.15	0.92	9.46	120.50
10900.00	2.63	1.89	10895.69	0.54	-0.54	8.24	0.38	8.26	93.78
11000.00	2.89	9.70	10995.57	-4.23	4.23	8.74	0.46	9.71	64.15
11100.00	3.63	330.14	11095.42	-9.47	9.47	7.59	2.31	12.13	38.72
11200.00	2.71	330.26	11195.27	-14.26	14.26	4.84	0.92	15.06	18.74
11300.00	2.17	341.32	11295.17	-18.11	18.11	3.06	0.71	18.37	9.59
11400.00	2.56	252.96	11395.12	-19.25	19.25	0.32	3.31	19.25	0.95
11500.00	3.59	236.57	11494.97	-16.87	16.87	-4.43	1.34	17.44	345.29
11600.00	4.88	222.61	11594.70	-12.01	12.01	-9.92	1.64	15.58	320.44
11700.00	3.00	175.89	11694.48	-6.27	6.27	-12.62	3.57	14.09	296.43
11800.00	1.49	151.22	11794.41	-2.52	2.52	-11.80	1.76	12.07	282.06
11900.00	1.85	177.19	11894.36	0.23	-0.23	-11.10	0.83	11.10	268.81
12000.00	2.40	170.82	11994.30	3.91	-3.91	-10.68	0.60	11.38	249.90
12100.00	2.71	157.12	12094.20	8.15	-8.15	-9.43	0.68	12.47	229.15
12200.00	3.00	153.29	12194.07	12.67	-12.67	-7.34	0.35	14.64	210.07
12300.00	3.89	137.03	12293.89	17.49	-17.49	-3.85	1.31	17.91	192.41
12400.00	4.87	137.35	12393.60	23.09	-23.09	1.34	0.98	23.13	176.68
12500.00	5.06	144.30	12493.23	29.80	-29.80	6.79	0.63	30.56	167.16
12600.00	6.62	143.65	12592.70	38.02	-38.02	12.78	1.56	40.11	161.42
12649.00	8.06	141.35	12641.30	42.98	-42.98	16.60	3.00	46.07	158.88

