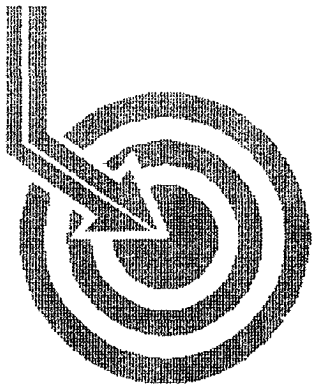




Scientific Drilling

CONFIDENTIAL

POGO

Field: East Pierce Crossing
Site: Eddy County, NM
Well: H. Buck State #4H
Wellpath: VH - Job #32K1205939
Survey: 12/23/05

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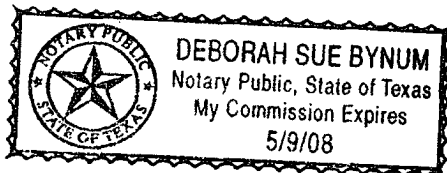
This survey is correct to the best of my knowledge
and is supported by actual field data.

Blharth.....Company Representative

Notorized this date 8th of February, 2005.

Deborah Sue Bynum

Notary Signature
County of Midland
State of Texas





Scientific
Drilling

Scientific Drilling International

Survey Report

Company: POGO	Date: 02/08/2006	Time: 08:57:51	Page: 1
Field: East Pierce Crossing	Co-ordinate(NE) Reference: Site: Eddy County, NM, Grid North		
Site: Eddy County, NM	Vertical (TVD) Reference: SITE 0.0		
Well: H. Buck State #4H	Section (VS) Reference: Well (0.00N,0.00E,270.87Azi)		
Wellpath: VH - Job #32K1205939	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey: 12/23/05	Start Date: 12/23/2005
KSRG 0'-7193'	
Company: Scientific Drilling Internatio	Engineer: Guebara/Madrid w/Gray
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	359.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.64	100.03	100.00	-0.55	-0.10	0.55	0.64	0.56	100.03
200.00	0.21	114.12	199.99	-1.27	-0.27	1.27	0.44	1.30	102.00
300.00	0.13	84.04	299.99	-1.55	-0.33	1.55	0.12	1.58	102.13
400.00	0.30	41.52	399.99	-1.84	-0.12	1.83	0.22	1.84	93.89
500.00	0.45	68.87	499.99	-2.37	0.21	2.37	0.23	2.38	84.88
600.00	0.28	49.47	599.99	-2.92	0.51	2.93	0.21	2.97	80.05
700.00	0.06	40.22	699.99	-3.13	0.71	3.15	0.22	3.22	77.24
800.00	0.26	82.26	799.99	-3.39	0.78	3.40	0.22	3.49	77.05
900.00	0.16	111.08	899.99	-3.75	0.76	3.76	0.14	3.84	78.53
1000.00	0.13	285.98	999.99	-3.77	0.74	3.78	0.29	3.85	78.87
1100.00	0.41	268.64	1099.99	-3.30	0.77	3.31	0.29	3.40	76.97
1200.00	0.48	290.97	1199.98	-2.55	0.91	2.56	0.19	2.72	70.50
1300.00	0.63	257.30	1299.98	-1.62	0.94	1.64	0.35	1.89	60.21
1400.00	0.79	251.76	1399.97	-0.44	0.60	0.45	0.17	0.75	36.60
1500.00	0.77	233.76	1499.96	0.75	-0.01	-0.75	0.24	0.75	269.04
1600.00	1.10	208.63	1599.95	1.73	-1.25	-1.75	0.52	2.15	234.45
1700.00	1.12	208.19	1699.93	2.63	-2.96	-2.67	0.02	3.99	222.13
1800.00	0.81	226.52	1799.92	3.58	-4.30	-3.65	0.43	5.64	220.29
1900.00	0.58	246.83	1899.91	4.55	-4.99	-4.63	0.33	6.80	222.84
2000.00	0.49	289.16	1999.91	5.42	-5.05	-5.50	0.40	7.46	227.43
2100.00	1.34	129.37	2099.90	4.91	-5.65	-5.00	1.81	7.54	221.49
2200.00	2.22	122.85	2199.85	2.35	-7.44	-2.47	0.90	7.84	198.33
2300.00	2.17	121.27	2299.78	-0.92	-9.48	0.78	0.08	9.51	175.29
2400.00	2.25	130.13	2399.70	-4.08	-11.72	3.90	0.35	12.35	161.60
2500.00	2.19	134.37	2499.63	-6.98	-14.32	6.77	0.17	15.84	154.72
2600.00	1.88	140.63	2599.56	-9.43	-16.93	9.17	0.38	19.25	151.55
2700.00	2.00	155.97	2699.51	-11.22	-19.79	10.92	0.53	22.61	151.10
2800.00	1.97	160.82	2799.45	-12.55	-23.01	12.20	0.17	26.04	152.07
2900.00	1.86	165.37	2899.39	-13.57	-26.20	13.17	0.19	29.33	153.31
3000.00	1.49	180.47	2999.35	-14.01	-29.07	13.57	0.57	32.08	154.97
3100.00	1.26	200.02	3099.32	-13.66	-31.41	13.19	0.52	34.06	157.22
3200.00	1.26	205.12	3199.30	-12.85	-33.43	12.34	0.11	35.64	159.74
3300.00	1.12	213.38	3299.27	-11.87	-35.25	11.34	0.22	37.02	162.17
3400.00	0.81	241.92	3399.26	-10.73	-36.39	10.18	0.56	37.79	164.38
3500.00	1.08	261.97	3499.25	-9.18	-36.86	8.62	0.42	37.85	166.84
3600.00	1.06	266.86	3599.23	-7.32	-37.04	6.76	0.09	37.65	169.65
3700.00	1.10	268.84	3699.21	-5.44	-37.11	4.88	0.05	37.43	172.51
3800.00	1.20	271.32	3799.19	-3.44	-37.11	2.87	0.11	37.22	175.57
3900.00	1.39	291.22	3899.17	-1.25	-36.64	0.70	0.49	36.65	178.91
4000.00	1.06	325.30	3999.15	0.42	-35.44	-0.96	0.78	35.46	181.55
4100.00	1.10	327.78	4099.13	1.49	-33.87	-2.00	0.06	33.93	183.38
4200.00	1.09	327.57	4199.11	2.53	-32.26	-3.02	0.01	32.40	185.35
4300.00	0.87	310.12	4299.10	3.64	-30.96	-4.11	0.37	31.24	187.57
4400.00	0.99	316.23	4399.08	4.84	-29.85	-5.29	0.16	30.32	190.05
4500.00	1.76	320.59	4499.05	6.44	-28.04	-6.86	0.78	28.87	193.75
4600.00	1.73	320.33	4599.01	8.41	-25.69	-8.80	0.03	27.16	198.91
4700.00	1.67	321.57	4698.96	10.31	-23.39	-10.67	0.07	25.71	204.52
4800.00	1.65	318.48	4798.92	12.21	-21.17	-12.53	0.09	24.60	210.62



Scientific
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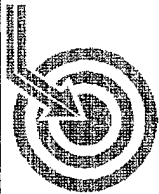
Survey Report

Company: POGO
Field: East Pierce Crossing
Site: Eddy County, NM
Well: H. Buck State #4H
Wellpath: VH - Job #32K1205939

Date: 02/08/2006 Time: 08:57:51 Page: 2
Co-ordinate(NE) Reference: Site: Eddy County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,270.87Azi)
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	1.44	314.74	4898.88	14.08	-19.21	-14.38	0.23	23.99	216.82
5000.00	1.69	317.94	4998.85	15.99	-17.23	-16.26	0.26	23.69	223.34
5100.00	1.81	316.31	5098.80	18.11	-14.99	-18.34	0.13	23.68	230.73
5200.00	2.29	325.56	5198.74	20.37	-12.20	-20.56	0.58	23.91	239.31
5300.00	2.46	330.34	5298.65	22.62	-8.69	-22.75	0.26	24.35	249.10
5400.00	2.48	330.22	5398.56	24.81	-4.95	-24.89	0.02	25.37	258.76
5500.00	2.38	331.77	5498.47	26.92	-1.24	-26.94	0.12	26.97	267.37
5600.00	2.46	335.79	5598.38	28.84	2.55	-28.81	0.19	28.92	275.05
5700.00	2.50	340.44	5698.28	30.51	6.56	-30.42	0.21	31.11	282.17
5800.00	2.32	339.49	5798.20	32.01	10.51	-31.85	0.18	33.54	288.26
5900.00	2.43	342.57	5898.11	33.41	14.43	-33.20	0.17	36.20	293.49
6000.00	2.19	341.23	5998.03	34.72	18.26	-34.45	0.25	38.99	297.93
6100.00	2.24	341.99	6097.95	36.00	21.93	-35.67	0.06	41.87	301.58
6200.00	2.22	342.24	6197.88	37.25	25.63	-36.86	0.02	44.90	304.81
6300.00	2.22	341.70	6297.80	38.50	29.32	-38.06	0.02	48.04	307.60
6400.00	2.32	341.94	6397.72	39.80	33.08	-39.30	0.10	51.37	310.09
6500.00	2.10	343.74	6497.65	40.99	36.76	-40.44	0.23	54.65	312.27
6600.00	2.11	340.45	6597.58	42.17	40.26	-41.57	0.12	57.86	314.08
6700.00	1.68	337.79	6697.53	43.39	43.35	-42.74	0.44	60.87	315.41
6800.00	1.03	326.13	6797.50	44.48	45.45	-43.79	0.70	63.11	316.06
6900.00	0.67	285.28	6897.49	45.56	46.35	-44.86	0.68	64.50	315.94
7000.00	0.48	287.60	6997.48	46.52	46.63	-45.82	0.19	65.38	315.50
7100.00	0.40	262.81	7097.48	47.27	46.71	-46.57	0.20	65.96	315.09
7193.00	0.54	187.23	7190.48	47.64	46.24	-46.94	0.63	65.89	314.57



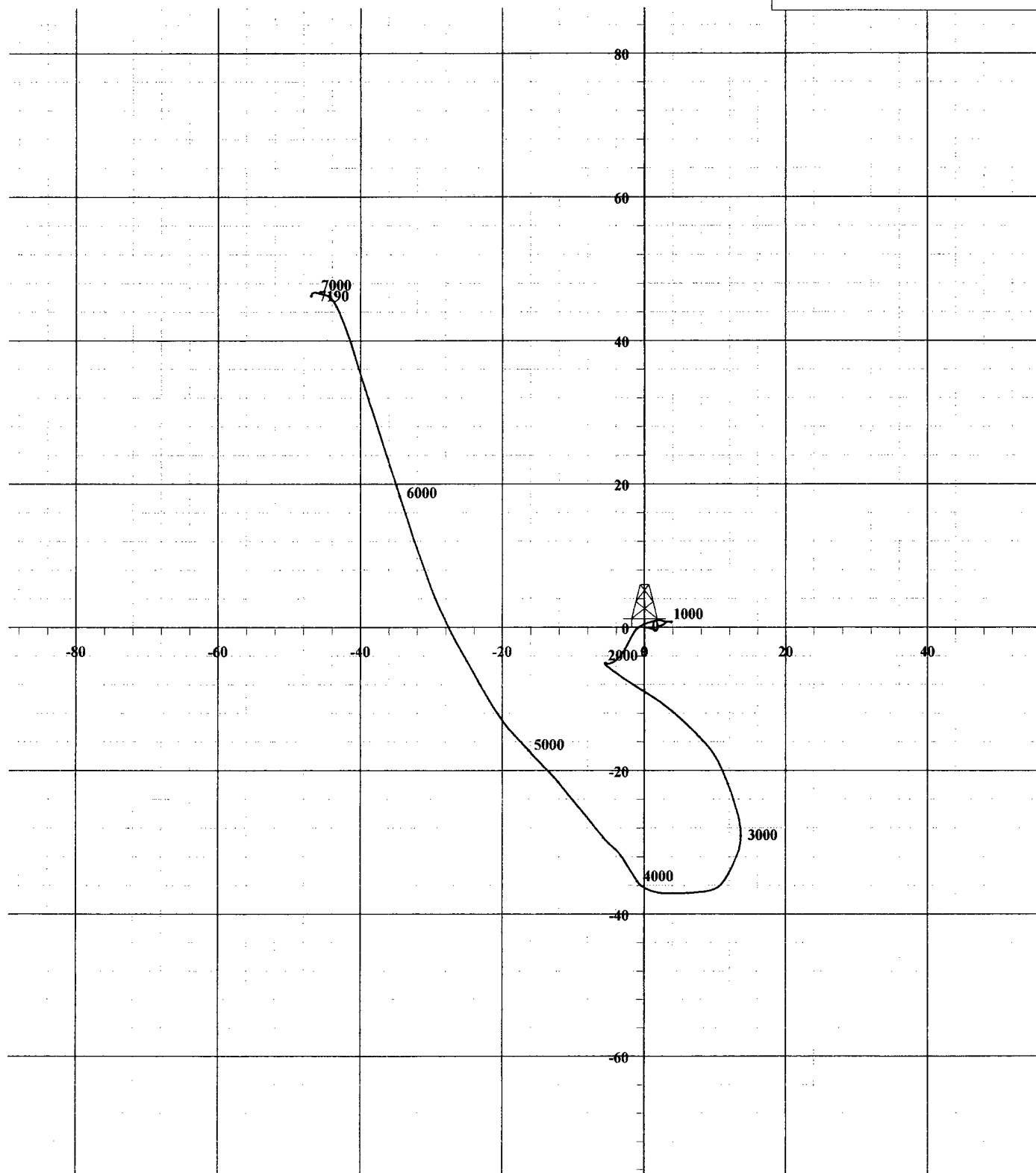
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Drilling

Field: East Pierce Crossing
Site: Eddy County, NM
Well: H. Buck State #4H
Wellpath: VH - Job #32K1205939
Survey: 12/23/05



Azimuths to Grid North
True North: 0.00°
Magnetic North: 0.00°
Magnetic Field
Strength: 0nT
Dip Angle: 0.00°
Date: 02/08/2006
Model: qrt2000

South(-)/North(+) [10ft/in]



West(-)/East(+) [10ft/in]