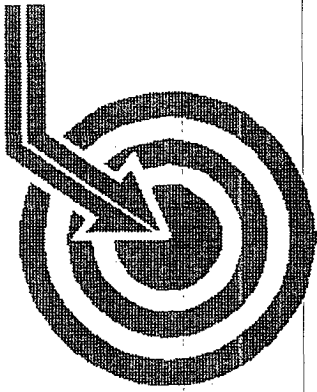


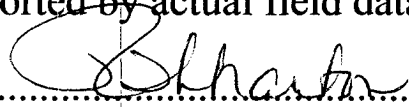


Scientific Drilling

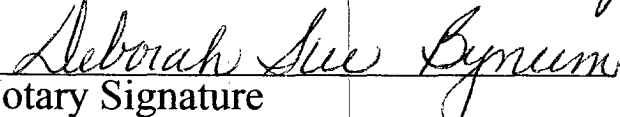
POGO

Field: Pierce Crossing
Site: Eddy County, NM
Well: Harroun 9 #1H
Wellpath: VH - Job #32K0606492
Survey: 06/20/06

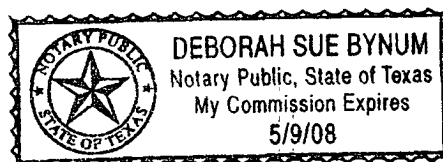
This survey is correct to the best of my knowledge
and is supported by actual field data.

.....Company Representative

Notorized this date 10th of July, 2006.


Notary Signature

County of Midland
State of Texas





Scientific Drilling International

Survey Report

Company: POGO
Field: Pierce Crossing
Site: Eddy County, NM
Well: Harroun 9 #1H
Wellpath: VH - Job #32K0606492

Date: 07/10/2006
Co-ordinate(NE) Reference: Site: Eddy County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,272.25Azi)
Survey Calculation Method: Minimum Curvature
Db: Sybase

Page: 1

Survey: 06/20/06
Start Date: 06/20/2006
Company: Scientific Drilling Internatio
Engineer: Gonzales/Rehders
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	0.25	238.43	100.00	0.18	-0.11	-0.19	0.25	0.22	238.43
200.00	0.31	254.43	200.00	0.62	-0.30	-0.63	0.10	0.70	244.54
300.00	0.42	174.66	300.00	0.83	-0.74	-0.86	0.48	1.13	229.30
400.00	0.57	160.21	399.99	0.59	-1.57	-0.66	0.19	1.70	202.71
500.00	0.79	130.90	499.99	-0.13	-2.49	0.04	0.41	2.49	179.19
600.00	0.83	119.79	599.98	-1.32	-3.30	1.19	0.16	3.51	160.23
700.00	0.71	102.60	699.97	-2.57	-3.80	2.42	0.26	4.50	147.48
800.00	0.73	88.02	799.96	-3.81	-3.91	3.66	0.18	5.36	136.88
900.00	0.66	85.37	899.95	-5.02	-3.84	4.87	0.08	6.21	128.26
1000.00	0.67	77.52	999.95	-6.16	-3.67	6.02	0.09	7.05	121.38
1100.00	0.53	77.11	1099.94	-7.17	-3.44	7.04	0.14	7.84	116.05
1200.00	0.46	71.06	1199.94	-7.99	-3.21	7.87	0.09	8.50	112.17
1300.00	0.37	60.67	1299.93	-8.64	-2.92	8.54	0.12	9.02	108.88
1400.00	0.29	352.70	1399.93	-8.88	-2.51	8.79	0.38	9.14	105.94
1500.00	0.12	208.06	1499.93	-8.79	-2.35	8.71	0.39	9.02	105.09
1600.00	0.79	208.98	1599.93	-8.44	-3.04	8.32	0.68	8.86	110.06
1700.00	0.81	203.22	1699.92	-7.87	-4.29	7.71	0.08	8.83	119.11
1800.00	0.34	193.04	1799.91	-7.56	-5.23	7.36	0.48	9.03	125.39
1900.00	0.27	182.94	1899.91	-7.51	-5.76	7.29	0.09	9.29	128.32
2000.00	0.30	153.25	1999.91	-7.63	-6.23	7.39	0.15	9.67	130.12
2100.00	0.35	62.81	2099.91	-8.02	-6.32	7.78	0.46	10.02	129.10
2200.00	0.76	88.86	2199.90	-8.94	-6.17	8.71	0.47	10.67	125.32
2300.00	1.20	91.27	2299.89	-10.65	-6.18	10.42	0.45	12.11	120.69
2400.00	1.01	94.60	2399.87	-12.58	-6.27	12.34	0.20	13.85	116.94
2500.00	1.13	110.98	2499.85	-14.40	-6.70	14.15	0.33	15.65	115.34
2600.00	1.33	125.48	2599.83	-16.30	-7.72	16.01	0.37	17.77	115.75
2700.00	1.37	126.86	2699.80	-18.25	-9.11	17.91	0.05	20.09	116.97
2800.00	1.34	126.82	2799.78	-20.20	-10.53	19.80	0.03	22.42	118.00
2900.00	0.91	138.67	2899.76	-21.71	-11.83	21.26	0.49	24.33	119.09
3000.00	0.72	143.66	2999.75	-22.65	-12.93	22.15	0.20	25.65	120.26
3100.00	0.69	147.90	3099.74	-23.38	-13.95	22.85	0.06	26.77	121.40
3200.00	0.66	137.41	3199.73	-24.12	-14.88	23.56	0.13	27.86	122.28
3300.00	0.60	157.17	3299.73	-24.75	-15.79	24.15	0.22	28.85	123.17
3400.00	0.62	152.83	3399.72	-25.24	-16.75	24.60	0.05	29.76	124.25
3500.00	0.64	168.44	3499.71	-25.64	-17.78	24.96	0.17	30.65	125.46
3600.00	0.73	157.04	3599.71	-26.04	-18.91	25.32	0.16	31.60	126.76
3700.00	0.72	169.47	3699.70	-26.45	-20.11	25.68	0.16	32.62	128.07
3800.00	0.87	157.92	3799.69	-26.90	-21.44	26.08	0.22	33.76	129.41
3900.00	0.92	168.45	3899.68	-27.41	-22.92	26.53	0.17	35.06	130.83
4000.00	1.09	160.50	3999.66	-27.95	-24.60	27.01	0.22	36.53	132.34
4100.00	1.19	171.47	4099.64	-28.50	-26.53	27.48	0.24	38.19	133.99
4200.00	1.20	174.04	4199.62	-28.84	-28.59	27.74	0.05	39.84	135.87
4300.00	1.36	177.00	4299.60	-29.10	-30.82	27.91	0.17	41.58	137.84
4400.00	1.18	173.04	4399.57	-29.37	-33.03	28.10	0.20	43.36	139.61
4500.00	0.78	184.40	4499.56	-29.51	-34.73	28.17	0.44	44.72	140.96
4600.00	0.73	183.74	4599.55	-29.47	-36.05	28.08	0.05	45.69	142.09
4700.00	0.49	197.56	4699.54	-29.34	-37.10	27.91	0.28	46.42	143.05
4800.00	0.50	209.10	4799.54	-29.03	-37.89	27.56	0.10	46.85	143.96



Scientific Drilling International

Survey Report

Company: POGO
Field: Pierce Crossing
Site: Eddy County, NM
Well: Harroun 9 #1H
Wellpath: VH - Job #32K0606492

Date: 07/10/2006 **Time:** 18:52:40 **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,272.25Azi)
Survey Calculation Method: Minimum Curvature **Db:** Sybase

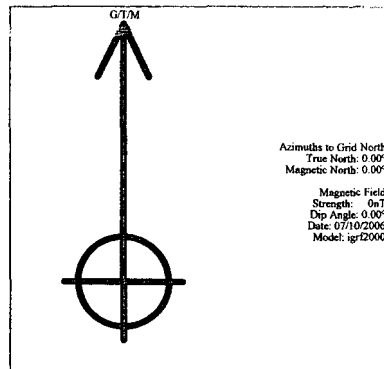
Survey

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	0.50	215.48	4899.53	-28.59	-38.62	27.10	0.06	47.18	144.94
5000.00	0.52	217.61	4999.53	-28.09	-39.34	26.57	0.03	47.47	145.96
5100.00	0.57	247.30	5099.53	-27.38	-39.89	25.83	0.28	47.52	147.07
5200.00	0.45	247.86	5199.52	-26.57	-40.23	25.01	0.12	47.37	148.13
5300.00	0.55	246.82	5299.52	-25.78	-40.56	24.21	0.10	47.24	149.17
5400.00	0.53	251.16	5399.51	-24.92	-40.90	23.33	0.04	47.09	150.30
5500.00	0.66	243.12	5499.51	-23.98	-41.31	22.38	0.15	46.98	151.56
5600.00	0.60	243.40	5599.50	-23.02	-41.81	21.40	0.06	46.96	152.89
5700.00	0.53	252.08	5699.50	-22.13	-42.18	20.49	0.11	46.89	154.09
5800.00	0.46	244.94	5799.49	-21.34	-42.50	19.68	0.09	46.83	155.15
5900.00	0.29	218.14	5899.49	-20.83	-42.86	19.16	0.24	46.95	155.91
6000.00	0.11	215.49	5999.49	-20.63	-43.14	18.95	0.18	47.12	156.29
6100.00	0.26	233.40	6099.49	-20.40	-43.36	18.71	0.16	47.22	156.66
6200.00	0.15	252.89	6199.49	-20.10	-43.53	18.40	0.13	47.26	157.08
6300.00	0.05	225.39	6299.49	-19.94	-43.60	18.25	0.11	47.27	157.29
6400.00	0.07	58.22	6399.49	-19.96	-43.60	18.27	0.12	47.27	157.27
6475.00	0.20	40.73	6474.49	-20.08	-43.48	18.39	0.18	47.21	157.07



Scientific
Drilling

Field: **Pierce Crossing**
Site: **Eddy County, NM**
Well: **Harroun 9 #1H**
Wellpath: **VH - Job #32K0606492**
Survey: **06/20/06**



West(-)/East(+) [5ft/in]

South(-)/North(+) [5ft/in]

