

Submit 3 Copies To Appropriate District Office
District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
May 27, 2004

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-015-35041
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Vortec 27
8. Well Number 1
9. OGRID Number 017891
10. Pool name or Wildcat Pierce Crossing Bone Spring East

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐

2. Name of Operator
Pogo Producing Company

3. Address of Operator
P. O. Box 10340, Midland, TX 79702-7340

4. Well Location

Unit Letter A : 660 feet from the North line and 330 feet from the East line
Section 27 Township 24S Range 29E NMPM Eddy County

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
2917

Pit or Below-grade Tank Application ☐ or Closure ☐

Pit type _____ Depth to Groundwater _____ Distance from nearest fresh water well _____ Distance from nearest surface water _____

Pit Liner Thickness: _____ mil Below-Grade Tank: Volume _____ bbls; Construction Material _____

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☒ P AND A ☐
CASING/CEMENT JOB ☐

OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Td & Prod Csg -- Drld 8-1/2" hole to 8192'. TD reached @ 15:30 hrs 10/29/06. BJ cmt'd 50 sx Cl "H" plugs @ 8187, 7770, and a 200 sk plug at 7450'. Test BOP to 3000# ok. Started drilling horizontal portion of hole to 10,848'. TD reached @ 05:15 hrs 11/15/06. Ran 267 jts 5-1/2" 17# N-80 BT&C csg. Cmt'd w/ 2200 sks Cl C + add @ 14.1 ppg. Cmt did not circ. Test csg to 500# for 30 mins. Ran CBL 10/28/06. TOC @ 5900'.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE Cathy Wright TITLE Sr. Eng Tech DATE 12/11/06

Type or print name Cathy Wright E-mail address: wrightc@pogoproducing.com Telephone No. 432-685-8100
For State Use Only

APPROVED BY: FOR RECORDS ONLY TITLE _____ DATE DEC 13 2006
Conditions of Approval (if any): _____



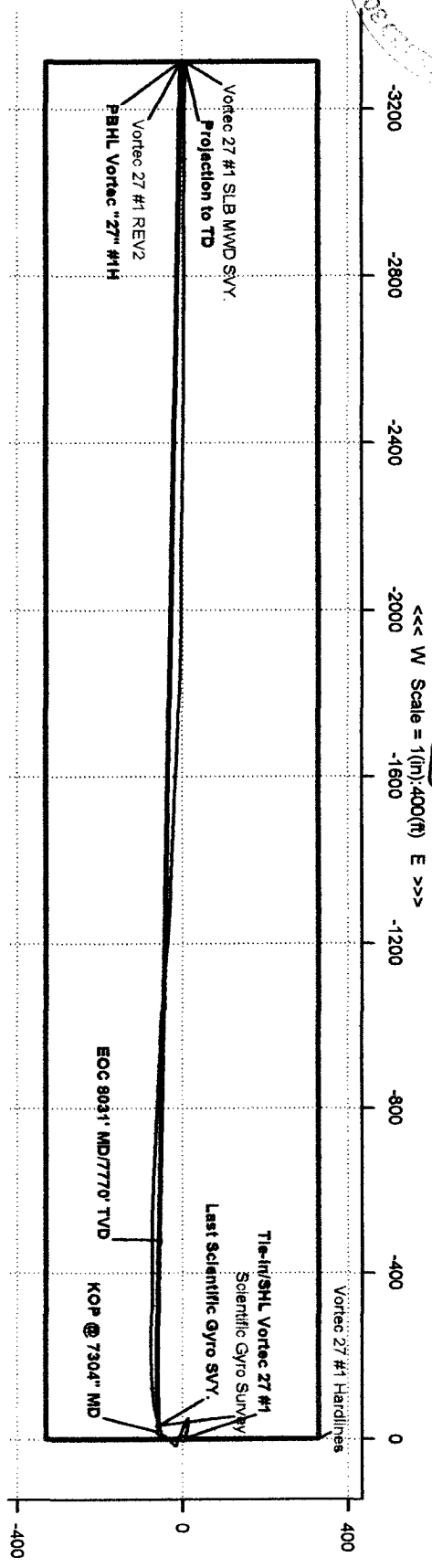
Schlumberger

WELL	Vortec 27 #1	FIELD	Eddy County, New Mexico	STRUCTURE	POGO, Sec. 27, T24S & R29E
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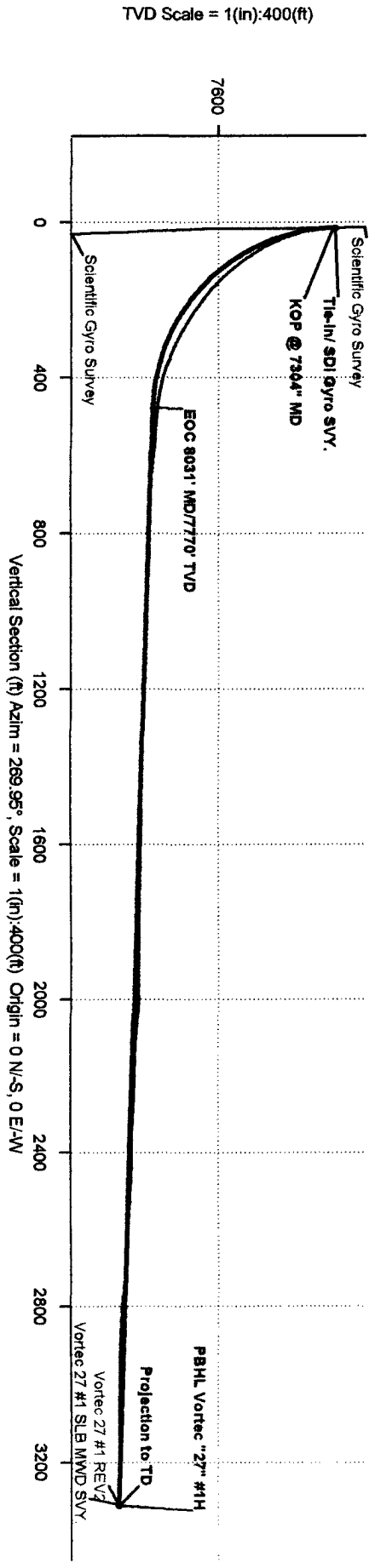
Maple Premier	8004/2008	Dr.	60 21"	Date	November 07, 2008	Surface Location	N21 11 37 34E	Neutrig	40 21" 20 00"	MDZ	0.0000000	Grid Cont.	40 1865242"	Maple Premier	8004/2008	Dr.	60 21"	Date	November 07, 2008	Surface Location	N21 11 37 34E	Neutrig	40 21" 20 00"	MDZ	0.0000000	Grid Cont.	40 1865242"
Maple Premier	8004/2008	Map Date	4/23/08	FS	4000 2.07	Loc.	W23 57 51 712	Estim.	0.0000000	Scale Fact.	0.999920114	Scale Fact.	0.999920114	Maple Premier	8004/2008	Map Date	4/23/08	FS	4000 2.07	Loc.	W23 57 51 712	Estim.	0.0000000	Scale Fact.	0.999920114	Scale Fact.	0.999920114



CONFIDENTIAL



<<< S Scale = 1(in):400(ft) N >>>



TVD Scale = 1(in):400(ft)



SLB MWD Survey Survey Report

Schlumberger

Report Date: November 15, 2006	Survey / DLS Computation Method: Minimum Curvature / Lubinski
Client: POGO Producing	Vertical Section Azimuth: 269.950°
Field: Eddy County, New Mexico	Vertical Section Origin: N 0.000 ft, E 0.000 ft
Structure / Slot: POGO, Sec.27, T24S & R29E / Vortec 27 #1	TVD Reference Datum: KB
Well: Vortec 27 #1	TVD Reference Elevation: 2946.0 ft relative to MSL
Borehole: Vortec 27 #1 ST1	Sea Bed / Ground Level Elevation: 2917.000 ft relative to MSL
UWI/API#:	Magnetic Declination: 8.334°
Survey Name / Date: Vortec 27 #1 SLB MWD SVY. / November 7, 2006	Total Field Strength: 49061.172 nT
Tort / AHD / DDI / ERD ratio: 158.258° / 3476.09 ft / 5.881 / 0.442	Magnetic Dip: 60.219°
Grid Coordinate System: NAD27 New Mexico State Planes, Eastern Zone, US Feet	Declination Date: November 07, 2006
Location Lat/Long: N 32 11 37.345, W 103 57 51.712	Magnetic Declination Model: BGM 2006
Location Grid N/E Y/X: N 434386.400 ftUS, E 614137.600 ftUS	North Reference: Grid North
Grid Convergence Angle: +0.19658240°	Total Corr Mag North -> Grid North: +8.137°
Grid Scale Factor: 0.99992401	Local Coordinates Referenced To: Well Head

Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (deg)	DLS (deg/100 ft)	Mag / Grav Tool Face (deg)
Tie-In/ SDI Gyro SVY.	7300.00	1.66	220.97	7296.95	15.63	-56.42	-15.59	58.53	195.44	0.09	254.75M
	7333.00	6.21	254.75	7329.87	17.67	-57.25	-17.62	59.90	197.11	14.90	14.21R
	7364.00	10.50	260.64	7360.53	22.08	-58.15	-22.03	62.18	200.75	14.09	0.42R
	7395.00	15.16	260.77	7390.75	28.87	-59.26	-28.82	65.90	205.94	15.03	7.69L
	7426.00	19.56	259.00	7420.33	37.97	-60.90	-37.92	71.74	211.91	14.29	1.73L
	7457.00	24.00	258.67	7449.11	49.26	-63.13	-49.20	80.04	217.93	14.33	3.34R
	7489.00	28.40	259.21	7477.82	63.12	-65.84	-63.06	91.17	223.77	13.77	12.84R
	7520.00	32.12	260.80	7504.59	78.51	-68.54	-78.45	104.17	228.86	12.27	27.28R
	7552.00	35.39	263.68	7531.19	96.12	-70.92	-96.06	119.40	233.56	11.37	24.37R
	7582.00	38.64	266.02	7555.14	114.11	-72.52	-114.04	135.15	237.55	11.81	17.82R
	7614.00	41.87	267.57	7579.56	134.75	-73.67	-134.69	153.52	241.32	10.57	5.39R
	7645.00	45.42	268.04	7601.99	156.13	-74.49	-156.06	172.93	244.49	11.50	2.43R
	7676.00	48.98	268.24	7623.05	178.86	-75.22	-178.79	193.97	247.18	11.49	6.50R
	7708.00	53.13	268.83	7643.16	203.73	-75.86	-203.67	217.34	249.57	13.05	16.91R
	7740.00	56.37	270.01	7661.63	229.86	-76.11	-229.80	242.07	251.67	10.56	32.78R
	7771.00	58.24	271.42	7678.37	255.95	-75.79	-255.88	266.87	253.50	7.14	12.56R
	7802.00	60.83	272.08	7694.09	282.65	-74.97	-282.58	292.36	255.14	8.55	8.28L
	7833.00	63.98	271.57	7708.45	310.10	-74.10	-310.04	318.77	256.56	10.27	17.82L
	7865.00	66.61	270.65	7721.82	339.17	-73.53	-339.10	346.98	257.76	8.62	9.69L
	7896.00	69.24	270.17	7733.47	367.89	-73.33	-367.83	375.07	258.73	8.60	4.01L
	7928.00	73.34	269.87	7743.73	398.19	-73.32	-398.13	404.82	259.57	12.84	1.21L
	7959.00	78.46	269.76	7751.28	428.25	-73.42	-428.19	434.43	260.27	16.52	1.70R
	7991.00	82.48	269.88	7756.58	459.80	-73.52	-459.74	465.58	260.91	12.57	13.54R
	8019.00	84.63	270.40	7759.72	487.62	-73.45	-487.56	493.06	261.43	7.90	16.51R
	8050.00	86.01	270.81	7762.25	518.52	-73.12	-518.45	523.58	261.97	4.64	15.91R
	8081.00	86.15	270.85	7764.37	549.44	-72.67	-549.38	554.16	262.46	0.47	116.85R
	8113.00	85.49	272.16	7766.70	581.34	-71.84	-581.28	585.70	262.95	4.57	150.34R
	8144.00	85.28	272.28	7769.20	612.22	-70.64	-612.16	616.22	263.42	0.78	97.47R
	8175.00	85.25	272.51	7771.76	643.08	-69.35	-643.02	646.75	263.84	0.75	4.14R
	8207.00	86.63	272.61	7774.02	674.97	-67.92	-674.91	678.32	264.25	4.32	72.33R
	8238.00	86.70	272.83	7775.82	705.88	-66.45	-705.82	708.94	264.62	0.74	122.79L
	8269.00	86.52	272.55	7777.66	736.79	-65.00	-736.73	739.60	264.96	1.07	58.64R
	8300.00	86.80	273.01	7779.46	767.70	-63.50	-767.65	770.27	265.27	1.74	15.40L
	8331.00	88.07	272.66	7780.85	798.63	-61.97	-798.58	800.98	265.56	4.25	90.00L
	8363.00	88.07	272.53	7781.93	830.58	-60.52	-830.52	832.73	265.83	0.41	112.58R
	8394.00	87.80	273.18	7783.05	861.52	-58.98	-861.47	863.48	266.08	2.27	63.42L
	8425.00	87.83	273.12	7784.23	892.45	-57.28	-892.40	894.23	266.33	0.22	149.35L
	8457.00	87.24	272.77	7785.60	924.37	-55.63	-924.32	926.00	266.56	2.14	108.46R
	8488.00	87.21	272.86	7787.11	955.30	-54.11	-955.25	956.78	266.76	0.31	146.32R
	8519.00	87.18	272.88	7788.62	986.22	-52.56	-986.17	987.57	266.95	0.12	HS
	8551.00	88.76	272.88	7789.76	1018.16	-50.96	-1018.11	1019.39	267.13	4.94	84.06R
	8582.00	88.86	273.84	7790.40	1049.10	-49.14	-1049.05	1050.20	267.32	3.11	170.54R
	8614.00	88.62	273.88	7791.10	1081.01	-46.99	-1080.97	1081.99	267.51	0.76	69.21R
	8645.00	89.11	275.17	7791.72	1111.91	-44.54	-1111.87	1112.76	267.71	4.45	60.83R
	8676.00	89.35	275.60	7792.13	1142.77	-41.63	-1142.73	1143.49	267.91	1.59	111.34L
	8707.00	89.10	274.96	7792.55	1173.63	-38.78	-1173.60	1174.24	268.11	2.22	71.82L
	8739.00	89.55	273.59	7792.93	1205.53	-36.39	-1205.50	1206.05	268.27	4.51	60.14R

8770.00	89.86	274.13	7793.09	1236.46	-34.31	-1236.43	1236.91	268.41	2.01	148.89L
8802.00	89.28	273.78	7793.33	1268.38	-32.10	-1268.35	1268.76	268.55	2.12	126.97L
8833.00	88.52	272.77	7793.92	1299.32	-30.33	-1299.30	1299.65	268.66	4.08	99.47R
8865.00	88.49	272.95	7794.76	1331.27	-28.73	-1331.25	1331.56	268.76	0.57	90.00L
8896.00	88.49	272.83	7795.58	1362.22	-27.17	-1362.20	1362.47	268.86	0.39	119.76L
8927.00	88.45	272.76	7796.40	1393.17	-25.66	-1393.15	1393.39	268.94	0.26	82.62L
8959.00	88.52	272.22	7797.25	1425.13	-24.27	-1425.11	1425.31	269.02	1.70	4.09R
8990.00	88.66	272.23	7798.01	1456.09	-23.07	-1456.07	1456.26	269.09	0.45	41.63R
9021.00	88.93	272.47	7798.67	1487.06	-21.80	-1487.04	1487.20	269.16	1.17	HS
9053.00	89.00	272.47	7799.24	1519.02	-20.42	-1519.01	1519.14	269.23	0.22	122.66R
9084.00	88.59	273.11	7799.90	1549.98	-18.91	-1549.96	1550.08	269.30	2.45	100.90L
9115.00	88.49	272.59	7800.68	1580.93	-17.37	-1580.91	1581.01	269.37	1.71	57.52L
9147.00	88.56	272.48	7801.51	1612.89	-15.95	-1612.87	1612.95	269.43	0.41	143.14L
9178.00	88.52	272.45	7802.30	1643.85	-14.62	-1643.83	1643.90	269.49	0.16	100.63R
9209.00	88.49	272.61	7803.11	1674.80	-13.25	-1674.79	1674.85	269.55	0.52	81.03L
9241.00	88.55	272.23	7803.93	1706.76	-11.90	-1706.75	1706.80	269.60	1.20	63.44L
9272.00	88.59	272.15	7804.71	1737.73	-10.72	-1737.72	1737.75	269.65	0.29	4.51R
9304.00	88.97	272.18	7805.39	1769.70	-9.51	-1769.69	1769.72	269.69	1.19	11.30L
9336.00	89.07	272.16	7805.94	1801.67	-8.30	-1801.66	1801.68	269.74	0.32	58.20L
9367.00	89.38	271.66	7806.36	1832.65	-7.26	-1832.64	1832.66	269.77	1.90	122.47L
9399.00	89.31	271.55	7806.72	1864.63	-6.37	-1864.63	1864.64	269.80	0.41	1.50L
9430.00	89.69	271.54	7806.99	1895.62	-5.53	-1895.62	1895.62	269.83	1.23	120.35L
9461.00	89.45	271.13	7807.22	1926.61	-4.81	-1926.61	1926.61	269.86	1.53	47.60R
9492.00	89.66	271.36	7807.47	1957.60	-4.14	-1957.60	1957.60	269.88	1.00	85.49L
9524.00	89.69	270.98	7807.65	1989.59	-3.48	-1989.59	1989.59	269.90	1.19	174.59R
9555.00	88.00	271.14	7808.27	2020.58	-2.91	-2020.58	2020.58	269.92	5.48	144.97L
9586.00	86.69	270.22	7809.71	2051.54	-2.54	-2051.54	2051.54	269.93	5.16	269.93L
9618.00	86.31	269.74	7811.66	2083.48	-2.55	-2083.48	2083.48	269.93	1.91	61.66L
9649.00	86.38	269.61	7813.64	2114.42	-2.73	-2114.42	2114.42	269.93	0.48	41.91R
9680.00	87.94	271.01	7815.17	2145.38	-2.56	-2145.38	2145.38	269.93	6.76	22.97R
9712.00	88.86	271.40	7816.07	2177.36	-1.89	-2177.36	2177.36	269.95	3.12	179.01L
9743.00	88.28	271.39	7816.84	2208.34	-1.13	-2208.34	2208.34	269.97	1.87	74.36L
9775.00	88.35	271.14	7817.78	2240.32	-0.43	-2240.32	2240.32	269.99	0.81	171.53L
9807.00	87.21	270.97	7819.02	2272.29	0.16	-2272.29	2272.29	270.00	3.60	120.29L
9838.00	87.14	270.85	7820.55	2303.24	0.65	-2303.25	2303.25	270.02	0.45	72.34L
9870.00	87.21	270.63	7822.13	2335.20	1.07	-2335.20	2335.21	270.03	0.72	170.54L
9901.00	87.15	270.62	7823.65	2366.16	1.40	-2366.17	2366.17	270.03	0.20	6.70R
9932.00	89.62	270.91	7824.52	2397.15	1.82	-2397.15	2397.15	270.04	8.02	173.78L
9964.00	88.52	270.79	7825.04	2429.14	2.29	-2429.14	2429.14	270.05	3.46	169.65L
9995.00	87.59	270.62	7826.10	2460.12	2.67	-2460.12	2460.12	270.06	3.05	149.84L
10027.00	87.04	270.30	7827.60	2492.08	2.93	-2492.08	2492.08	270.07	1.99	162.44L
10058.00	86.63	270.17	7829.31	2523.03	3.06	-2523.04	2523.04	270.07	1.39	32.98R
10090.00	86.83	270.30	7831.13	2554.98	3.19	-2554.98	2554.98	270.07	0.75	151.44L
10121.00	86.39	270.06	7832.97	2585.92	3.29	-2585.93	2585.93	270.07	1.62	78.67L
10153.00	86.42	269.91	7834.97	2617.86	3.28	-2617.87	2617.87	270.07	0.48	176.43R
10184.00	85.94	269.94	7837.04	2648.79	3.24	-2648.80	2648.80	270.07	1.55	123.77R
10215.00	85.76	270.21	7839.28	2679.71	3.28	-2679.71	2679.72	270.07	1.04	43.29L
10247.00	85.94	270.04	7841.60	2711.63	3.35	-2711.63	2711.63	270.07	0.77	10.10R
10278.00	86.22	270.09	7843.72	2742.55	3.38	-2742.56	2742.56	270.07	0.92	171.89L
10310.00	85.87	270.04	7845.92	2774.48	3.42	-2774.48	2774.48	270.07	1.10	140.28L
10341.00	85.63	269.84	7848.22	2805.39	3.39	-2805.40	2805.40	270.07	1.01	132.37R
10373.00	85.33	270.17	7850.74	2837.29	3.39	-2837.30	2837.30	270.07	1.39	3.64R
10404.00	86.90	270.27	7852.84	2868.22	3.51	-2868.22	2868.23	270.07	5.07	4.14R
10436.00	88.28	270.37	7854.19	2900.19	3.69	-2900.20	2900.20	270.07	4.32	9.34R
10468.00	89.07	270.50	7854.93	2932.18	3.93	-2932.19	2932.19	270.08	2.50	73.50R
10499.00	89.15	270.77	7855.41	2963.17	4.27	-2963.18	2963.18	270.08	0.91	5.36L
10530.00	89.47	270.74	7855.78	2994.17	4.68	-2994.17	2994.18	270.09	1.04	42.71L
10561.00	89.60	270.62	7856.03	3025.17	5.05	-3025.17	3025.18	270.10	0.57	132.44L
10592.00	89.28	270.27	7856.34	3056.16	5.29	-3056.17	3056.17	270.10	1.53	6.71R
10623.00	89.45	270.29	7856.68	3087.16	5.44	-3087.17	3087.17	270.10	0.55	11.82L
10655.00	89.88	270.20	7856.87	3119.16	5.58	-3119.17	3119.17	270.10	1.37	36.87R
10686.00	90.00	270.29	7856.90	3150.16	5.71	-3150.17	3150.17	270.10	0.48	82.23L
10717.00	90.03	270.07	7856.89	3181.16	5.81	-3181.17	3181.17	270.10	0.72	30.47R
10749.00	90.20	270.17	7856.83	3213.16	5.88	-3213.17	3213.17	270.10	0.62	---
10847.00	90.20	270.17	7856.49	3311.16	6.17	-3311.16	3311.17	270.11	0.00	---

Projection to TD

Survey Type: Non-Def Survey

Survey Error Model: SLB ISCWSA version 24 *** 3-D 95.00% Confidence 2.7955 sigma

Surveying Prog:

MD From (ft)

0.00

29.00

7300.00

MD To (ft)

29.00

7300.00

10847.00

EOU Freq Survey Tool Type

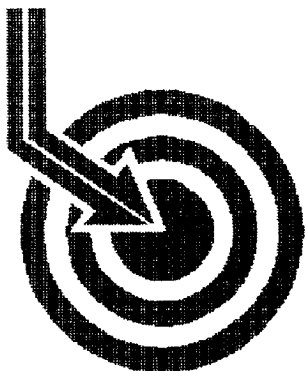
Act-Stns SLB_UNKNOWN-Depth Only (defau Original Hole -> Scientific Gyro Survey

Act-Stns SLB_UNKNOWN (default tool used) Original Hole -> Scientific Gyro Survey

Act-Stns SLB_UNKNOWN (default tool used) Vortec 27 #1 ST1 -> Vortec 27 #1 SLB MWD SVY.

Borehole -> Survey

**Italicized stations are NOT used in position calculations.*



Scientific Drilling

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POGO

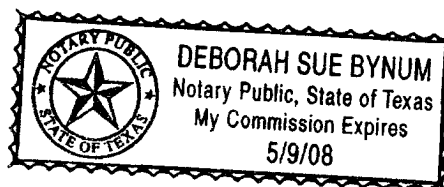
Field: Pierce Crossing, East
Site: Eddy County, NM
Well: Vortec 27 #1H
Wellpath: VH - Job #32K1006878
Survey: 10/29/06

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

.....Deborah Sue Bynum..... Company Representative

Notorized this date 2nd of December, 2006.

Deborah Sue Bynum
Notary Signature
County of Midland
State of Texas





Scientific Drilling International

Survey Report

Company: POGO	Date: 11/21/2006	Time: 16:36:48	Page: 1
Field: Pierce Crossing, East	Co-ordinate(NE) Reference:	Site: Eddy County, NM, Grid North	
Site: Eddy County, NM	Vertical (TVD) Reference:	SITE 0.0	
Well: Vortec 27 #1H	Section (VS) Reference:	Well (0.00N,0.00E,209.48Azi)	
Wellpath: VH - Job #32K1006878	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: 10/29/06	Start Date: 10/29/2006
Company: Scientific Drilling Internatio	Engineer: Rehders/Rando
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	0.63	276.75	100.00	0.21	0.06	-0.55	0.63	0.55	276.75
200.00	0.55	46.33	200.00	-0.03	0.46	-0.74	1.07	0.88	301.74
300.00	0.38	77.38	299.99	-0.72	0.86	-0.07	0.30	0.87	355.11
400.00	1.19	309.26	399.99	-1.11	1.59	-0.55	1.46	1.69	340.82
500.00	3.14	301.55	499.91	-1.39	3.68	-3.69	1.97	5.22	314.94
600.00	3.14	292.80	599.76	-1.17	6.18	-8.55	0.48	10.55	305.85
700.00	2.96	288.86	699.62	-0.38	8.07	-13.52	0.28	15.75	300.85
800.00	2.84	284.53	799.49	0.74	9.53	-18.36	0.25	20.69	297.43
900.00	2.77	283.86	899.37	2.03	10.73	-23.11	0.08	25.48	294.91
1000.00	2.43	282.95	999.27	3.28	11.79	-27.52	0.34	29.93	293.19
1100.00	2.16	279.81	1099.19	4.52	12.58	-31.44	0.30	33.86	291.81
1200.00	1.97	275.32	1199.12	5.86	13.06	-35.01	0.25	37.37	290.46
1300.00	1.71	270.99	1299.07	7.27	13.25	-38.21	0.29	40.44	289.12
1400.00	1.44	264.48	1399.03	8.71	13.15	-40.95	0.32	43.01	287.80
1500.00	1.40	265.28	1499.00	10.11	12.93	-43.42	0.04	45.31	286.58
1600.00	1.12	275.31	1598.98	11.20	12.92	-45.61	0.36	47.41	285.82
1700.00	0.89	264.44	1698.96	12.05	12.94	-47.36	0.30	49.09	285.28
1800.00	0.36	213.42	1798.96	12.81	12.60	-48.31	0.72	49.92	284.62
1900.00	0.54	151.33	1898.95	13.37	11.92	-48.25	0.49	49.70	283.88
2000.00	0.97	133.85	1998.95	13.83	10.92	-47.42	0.48	48.66	282.97
2100.00	1.64	126.67	2098.92	14.22	9.48	-45.66	0.69	46.63	281.73
2200.00	1.88	118.17	2198.87	14.36	7.85	-43.06	0.35	43.77	280.33
2300.00	2.35	117.42	2298.80	14.25	6.13	-39.80	0.47	40.27	278.76
2400.00	3.11	111.62	2398.69	13.80	4.19	-35.46	0.81	35.70	276.74
2500.00	3.07	112.17	2498.54	13.09	2.18	-30.45	0.05	30.53	274.10
2600.00	3.26	114.15	2598.39	12.49	0.01	-25.38	0.22	25.38	270.02
2700.00	3.61	116.60	2698.21	12.06	-2.57	-19.97	0.38	20.13	262.68
2800.00	3.79	113.62	2798.00	11.57	-5.30	-14.13	0.26	15.09	249.44
2900.00	2.83	113.68	2897.84	10.98	-7.62	-8.84	0.96	11.67	229.25
3000.00	2.13	115.68	2997.74	10.61	-9.41	-4.90	0.71	10.61	207.51
3100.00	1.59	114.41	3097.69	10.36	-10.79	-1.96	0.54	10.97	190.32
3200.00	1.43	111.26	3197.65	10.06	-11.82	0.46	0.18	11.83	177.76
3300.00	1.32	104.86	3297.63	9.59	-12.56	2.74	0.19	12.86	167.71
3400.00	1.19	101.24	3397.60	8.97	-13.06	4.87	0.15	13.94	159.55
3500.00	0.88	100.42	3497.58	8.40	-13.40	6.64	0.31	14.96	153.64
3600.00	0.89	83.69	3597.57	7.69	-13.46	8.17	0.26	15.74	148.74
3700.00	0.79	100.37	3697.56	7.01	-13.50	9.62	0.26	16.57	144.52
3800.00	0.70	94.53	3797.55	6.53	-13.67	10.91	0.12	17.49	141.41
3900.00	0.56	110.28	3897.55	6.19	-13.89	11.97	0.22	18.34	139.23
4000.00	0.52	111.49	3997.54	6.05	-14.22	12.86	0.04	19.17	137.89
4100.00	0.45	109.38	4097.54	5.92	-14.52	13.65	0.07	19.93	136.77
4200.00	0.39	114.56	4197.54	5.82	-14.79	14.33	0.07	20.59	135.91
4300.00	0.38	125.86	4297.53	5.83	-15.13	14.91	0.08	21.24	135.42
4400.00	0.35	115.44	4397.53	5.85	-15.45	15.45	0.07	21.85	135.00
4500.00	0.10	94.44	4497.53	5.79	-15.59	15.81	0.26	22.21	134.59
4600.00	0.19	148.75	4597.53	5.83	-15.74	15.99	0.15	22.43	134.55
4700.00	0.16	139.50	4697.53	5.96	-15.99	16.16	0.04	22.73	134.68
4800.00	0.39	176.56	4797.53	6.29	-16.43	16.27	0.28	23.13	135.27



Scientific Drilling International Survey Report

Company: POGO
Field: Pierce Crossing, East
Site: Eddy County, NM
Well: Vortec 27 #1H
Wellpath: VH - Job #32K1006878

Date: 11/21/2006 **Time:** 16:36:48 **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,209.48Azi)
Survey Calculation Method: Minimum Curvature **Db:** Sybase

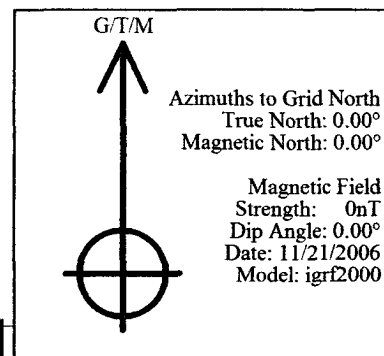
Survey

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	0.29	177.74	4897.53	6.79	-17.02	16.31	0.10	23.57	136.24
5000.00	0.58	221.75	4997.53	7.50	-17.65	15.98	0.42	23.81	137.85
5100.00	0.58	228.43	5097.52	8.48	-18.37	15.26	0.07	23.88	140.28
5200.00	1.00	215.46	5197.51	9.82	-19.41	14.38	0.45	24.16	143.48
5300.00	1.04	212.17	5297.49	11.60	-20.89	13.39	0.07	24.81	147.35
5400.00	1.14	224.17	5397.48	13.47	-22.38	12.21	0.25	25.49	151.38
5500.00	1.19	227.79	5497.46	15.42	-23.79	10.75	0.09	26.10	155.68
5600.00	1.22	231.66	5597.43	17.39	-25.14	9.15	0.09	26.76	160.01
5700.00	1.36	230.84	5697.41	19.48	-26.55	7.39	0.14	27.56	164.45
5800.00	1.20	226.25	5797.38	21.59	-28.03	5.71	0.19	28.60	168.48
5900.00	1.27	228.81	5897.36	23.63	-29.48	4.12	0.09	29.77	172.04
6000.00	1.23	233.07	5997.34	25.66	-30.86	2.43	0.10	30.95	175.49
6100.00	1.39	216.79	6097.31	27.85	-32.47	0.85	0.40	32.48	178.51
6200.00	1.33	218.09	6197.28	30.20	-34.36	-0.60	0.07	34.36	180.99
6300.00	1.42	213.20	6297.25	32.58	-36.31	-1.99	0.15	36.36	183.14
6400.00	1.38	220.45	6397.22	35.00	-38.26	-3.45	0.18	38.42	185.15
6500.00	1.45	217.87	6497.19	37.44	-40.18	-5.01	0.09	40.49	187.10
6600.00	1.14	226.84	6597.17	39.64	-41.85	-6.51	0.37	42.36	188.84
6700.00	1.19	215.22	6697.15	41.62	-43.38	-7.83	0.24	44.09	190.24
6800.00	1.39	207.02	6797.12	43.87	-45.31	-8.98	0.27	46.19	191.21
6900.00	1.23	207.51	6897.10	46.15	-47.34	-10.03	0.16	48.40	191.96
7000.00	1.26	204.21	6997.07	48.32	-49.30	-10.98	0.08	50.51	192.55
7100.00	1.75	207.38	7097.04	50.94	-51.66	-12.13	0.50	53.06	193.21
7200.00	1.68	217.96	7196.99	53.91	-54.17	-13.73	0.32	55.88	194.23
7300.00	1.66	220.97	7296.95	56.78	-56.42	-15.59	0.09	58.53	195.44
7400.00	0.84	201.74	7396.93	58.93	-58.19	-16.81	0.91	60.57	196.11
7500.00	0.58	170.21	7496.92	60.05	-59.37	-16.99	0.46	61.76	195.97
7600.00	0.67	258.17	7596.92	60.83	-59.99	-17.48	0.87	62.49	196.24
7700.00	2.56	279.57	7696.87	61.97	-59.74	-20.25	1.95	63.08	198.73
7800.00	2.25	284.37	7796.78	63.24	-58.88	-24.36	0.37	63.72	202.47
7900.00	1.91	275.89	7896.72	64.42	-58.22	-27.92	0.46	64.57	205.62
8000.00	1.44	266.36	7996.67	65.78	-58.13	-30.83	0.54	65.80	207.94
8105.00	0.99	257.12	8101.65	67.11	-58.42	-33.03	0.47	67.11	209.48

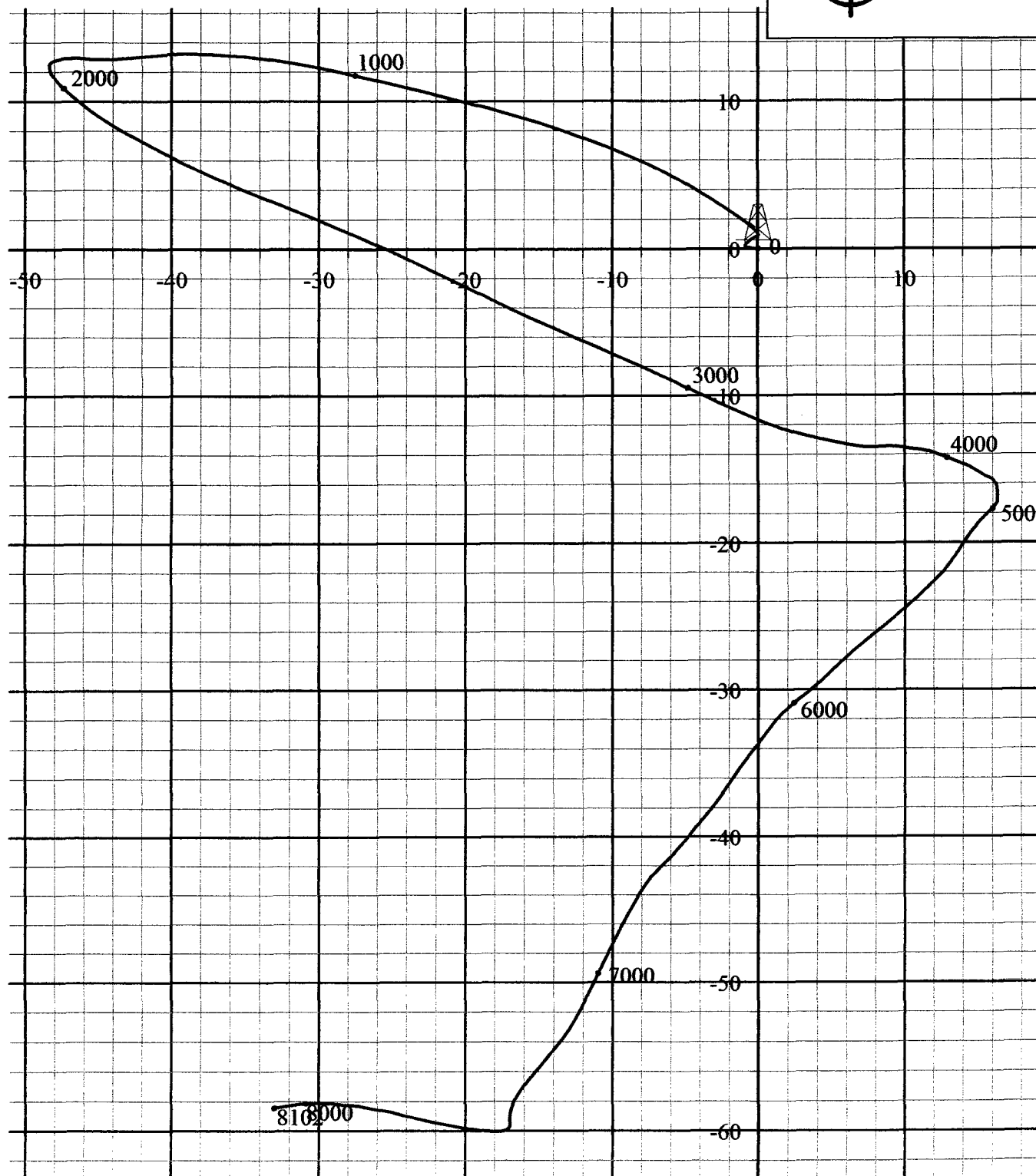


Scientific
Drilling

Field: Pierce Crossing, East
Site: Eddy County, NM
Well: Vortec 27 #1H
Wellpath: VH - Job #32K1006878
Survey: 10/29/06



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



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

OPERATOR
WELL/LEASE
COUNTY

Pogo Producing Company
Vortec 27 #1
Eddy, NM

STATE OF NEW MEXICO
DEVIATION REPORT

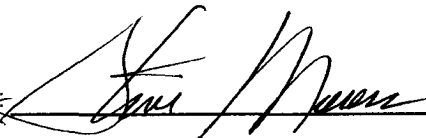


417	2.25
477	2.25
673	3.00
831	3.00
906	2.50
1,251	2.00
1,409	1.50
1,847	0.75
1,955	0.75
2,161	1.75
2,270	2.75
2,413	3.00
2,507	3.50
2,601	3.00
2,695	3.00
2,789	3.00
2,821	4.00
2,864	2.75
3,176	2.00
3,530	0.25
3,812	0.50
4,030	0.25
4,332	0.75
4,533	0.25
4,784	0.50
5,036	0.75
5,337	1.25
5,560	0.75
5,788	0.25
6,062	0.75
6,543	1.25
6,799	1.50
7,050	1.50
7,301	1.50
7,502	0.50
8,054	1.50

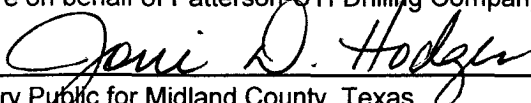
CONFIDENTIAL

STATE OF TEXAS

COUNTY OF MIDLAND

BY: 

The foregoing instrument was acknowledged before me on
Moore on behalf of Patterson-UTI Drilling Company LP, LLLP.


Notary Public for Midland County, Texas
My Commission Expires: 4/08/07

November 30, 2006, by Steve

