Form 3160-5
(April 2004)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OM B No. 1004-0137
Expires: March 31, 2007

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160 - 3 (APD) for such proposals.

SUBMIT IN TRIPLICATE *- Other instructions on reverse side.*

5. Lease Serial No.
NM-94651

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

1. Type of Well
[x] Oil Well [ ] Gas Well [ ] Other

8. Well Name and No.
Gaines 28 Com #1

2. Name of Operator
Pogo Producing Company

9. API Well No.
30-015-35353

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

3b. Phone No. *(include area code)*
432-685-8100

10. Field and Pool, or Exploratory Area
Pierce Crossing Bone Spring

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
1120' FNL & 530' FEL, Section 28, T24S, r29E

CONFIDENTIAL

11. County or Parish, State
Eddy County, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
[ ] Notice of Intent	[ ] Acidize	[ ] Deepen	[ ] Production (Start/Resume)	[ ] Water Shut-Off
[xx] Subsequent Report	[ ] Alter Casing	[ ] Fracture Treat	[ ] Reclamation	[ ] Well Integrity
[ ] Final Abandonment Notice	[ ] Casing Repair	[ ] New Construction	[ ] Recomplete	[xx] Other drlg operations
	[ ] Change Plans	[ ] Plug and Abandon	[ ] Temporarily Abandon	
	[ ] Convert to Injection	[ ] Plug Back	[ ] Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Intermediate Csg – Drld 12-1/4" hole to 2873'. TD reached @ 06:00 hrs 03/30/07. Ran 67 jts 9-5/8" 36# J-55 LT&C csg. Cmt'd w/ 850 sks 35:65 POZ C @ 12.4 ppg followed by 200 sks Cl "C" + 1% CaCl2 @ 14.8 ppg. Plug down @ 23:30 hrs 03/30/07. Circ 105 sks to surface. WOC 24 hrs. Make cut-off. Install WH. NU BOP's & test to 3000#. Test csg to 1600# for 30 mins.

TD & Prod Csg – Drld 8-1/2" hole to 8000'. Started drilling 8-1/2" – 7-7/8" hole w/ MWD to 10,575'. TD reached @ 20:30 hrs 04/29/07. Ran 241 jts 5-1/2" 17# N-80 LT&C & BT&C csg. Cmt'd w/ 2100 sks Cl C + add @ 14.1 ppg. NU tbg head & test to 2000#. Test csg to 5000# for 30 mins. Ran CBL 05/06/07. TOC @ 710'.

14. I hereby certify that the foregoing is true and correct
Name *(Printed/Typed)*
Cathy Wright

Title Sr. Eng Tech

Signature Cathy Wright

Date 05/23/07

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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 & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-015-35353	50371	Pierce Crossing Bone Spring

[4] Property Code	[5] Property Name	[6] Well Number
	Gaines 28 Com	1

[7] OGRID No.	[8] Operator Name	[9] Elevation
017891	Pogo Producing Company	2922

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[10] Surface Location

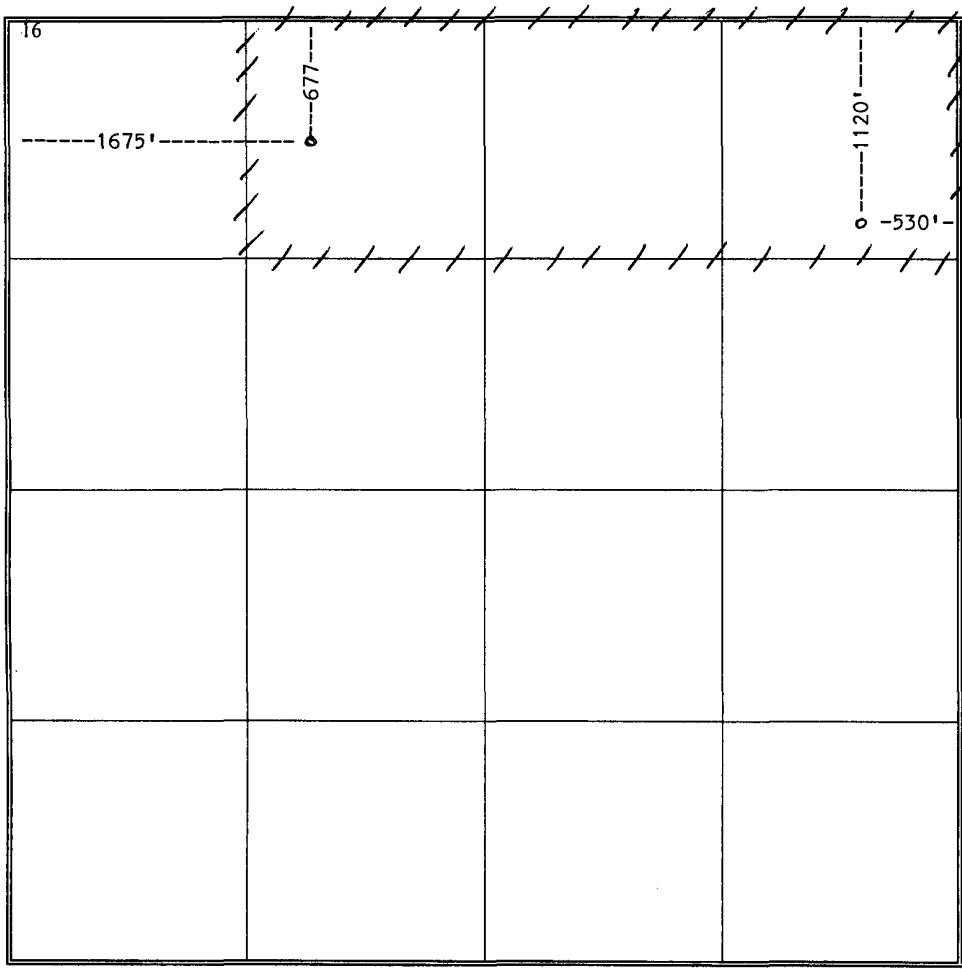
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	28	24S	29E		1120	North	530	East	Eddy

[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	28	24S	29E		677	North	1675	West	Eddy

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
120			

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



[17] OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Cathy Wright 5/23/07
Signature Date

Cathy Wright, Sr. Eng Tech
Printed Name

[18] SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

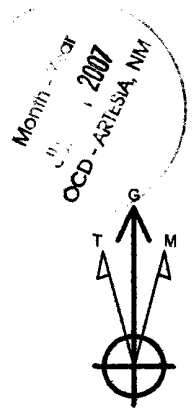
Date of Survey

Signature and Seal of Professional Surveyor:

Certificate Number

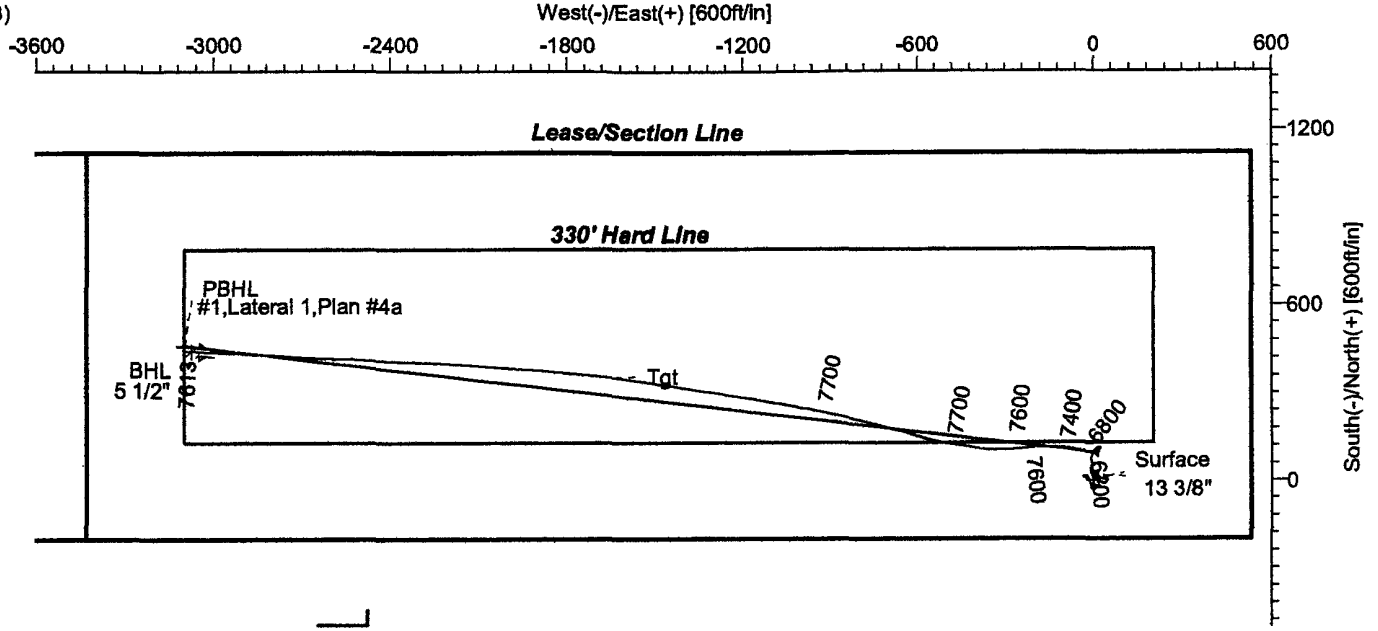
POGO PRODUCING

Field: Eddy County, New Mexico (NAD 83)
Site: Gaines "28" Federal
Well: #1
Wellpath: Lateral 1



Azimuths to Grid North
True North: -0.19°
Magnetic North: 8.07°

Magnetic Field
Strength: 49013nT
Dip Angle: 60.19°
Date: 4/12/2007
Model: igrf200510



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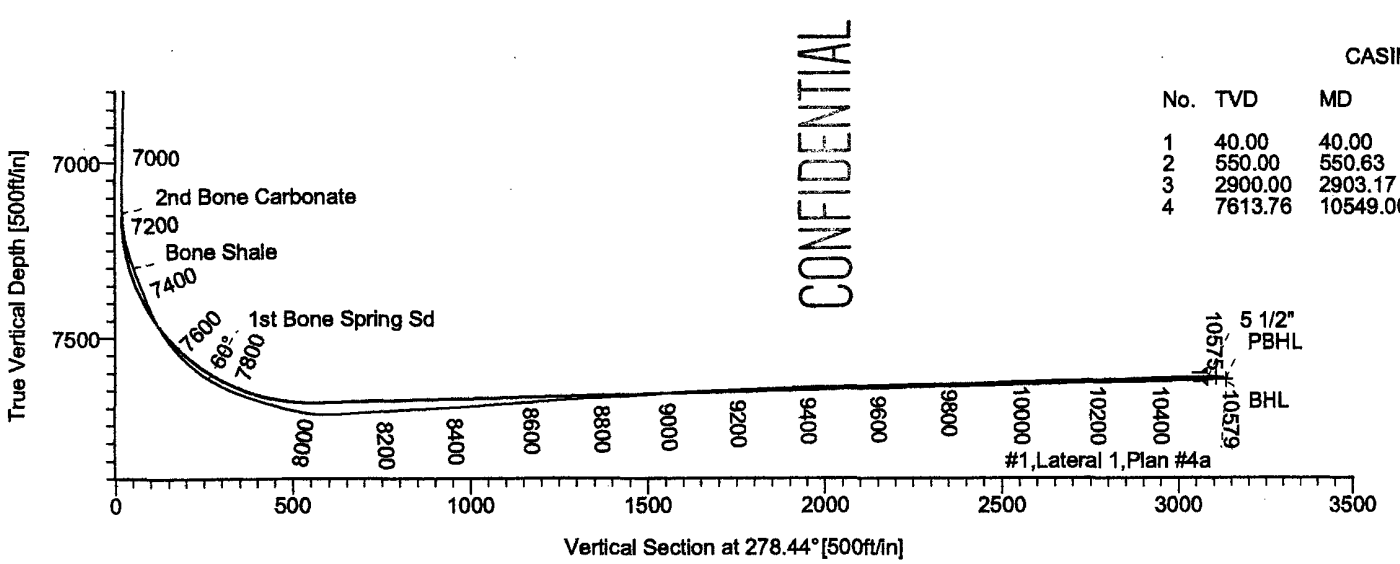


CASING DETAILS

No.	TVD	MD	Name	Size
1	40.00	40.00	20"	20.000
2	550.00	550.63	13 3/8"	13.375
3	2900.00	2903.17	9 5/8"	9.625
4	7613.76	10549.00	5 1/2"	5.500

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
Surface	0.00	0.00	0.00	433985.70	649826.71	32°11'33.416N	103°58'57.449W	Point
BHL	7613.35	443.20	-3074.88	434428.90	646751.83	32°11'37.899N	103°59'33.216W	Point
PBHL	7620.00	460.00	-3100.00	434445.70	646726.71	32°11'38.066N	103°59'33.508W	Point

LEAM Drilling Systems, Inc.

LEAM DRILLING SYSTEMS, INC.
101 Industrial Court Conroe, Texas 77301
Phone: 936-756-7577 Fax: 936-756-7595

Wellpath: (#1,Lateral 1)
Created By: Well Planner Date: 4/30/2007
Checked: _____ Date: _____
Reviewed: _____ Date: _____
Approved: _____ Date: _____

LEAM Drilling Systems, Inc.
Survey Report

Company:	POGO PRODUCING	**Date:** 4/30/2007	**Time:** 13:23:00	**Page:**	1
Field:	Eddy County, New Mexico (NAD 83)	**Co-ordinate(NE) Reference:**	Well: #1, Grid North		
Site:	Gaines "28" Federal	**Vertical (TVD) Reference:**	GL 2922' + KB 22' 2944.0		
Well:	#1	**Section (VS) Reference:**	Well (0.00N,0.00E,278.44Azi)		
Wellpath:	Lateral 1	**Survey Calculation Method:**	Minimum Curvature	**Db:**	Sybase

Field: Eddy County, New Mexico (NAD 83)

Map System:	US State Plane Coordinate System 1983	**Map Zone:**	New Mexico, Eastern Zone
Geo Datum:	GRS 1980	**Coordinate System:**	Well Centre
Sys Datum:	Mean Sea Level	**Geomagnetic Model:**	igrf200510

Site: Gaines "28" Federal

1120' FNL & 530' FEL

Site Position:		**Northing:**	433985.70 ft	**Latitude:**	32 11 33.416 N
From:	Map	**Easting:**	649826.71 ft	**Longitude:**	103 58 57.449 W
Position Uncertainty:	0.00 ft			**North Reference:**	Grid
Ground Level:	2922.00 ft			**Grid Convergence:**	0.19 deg

Well: #1 **Slot Name:**

Well Position:	+N/-S	0.00 ft	**Northing:**	433985.70 ft	**Latitude:**	32 11 33.416 N
	+E/-W	0.00 ft	**Easting :**	649826.71 ft	**Longitude:**	103 58 57.449 W
Position Uncertainty:		0.00 ft				

Wellpath: Lateral 1

Current Datum:	GL 2922' + KB 22'	**Height** 2944.00 ft	**Drilled From:**	Surface	
Magnetic Data:	4/12/2007		**Tie-on Depth:**	0.00 ft	
Field Strength:	49013 nT		**Above System Datum:**	Mean Sea Level	
Vertical Section:	**Depth From (TVD)**	**+N/-S**	**Declination:**	8.26 deg	
	ft	ft	**Mag Dip Angle:**	60.19 deg	
			+E/-W	**Direction**	
			ft	deg	
	0.00	0.00	0.00	278.44	

Survey Program for Definitive Wellpath

Date: 4/30/2007 **Validated:** No **Version:** 0

Actual From (ft)	To (ft)	Survey	Toolcode	Tool Name
100.00	7100.00	Survey #1 (100.00-7585.00)	Gyroscope	Gyroscope
7116.00	10522.00	Survey #2 (7116.00-10522.00)	MWD	Std MWD
10575.00	10575.00	Survey #3 (10575.00-10575.00)	Project	Projection

Survey

MD (ft)	Incl (deg)	Azim (deg)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	VS (ft)	DLS (deg/100ft)	Build (deg/100ft)	Turn (deg/100ft)	Tool/Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	TIE LINE
100.00	0.33	288.03	100.00	0.09	-0.27	0.28	0.33	0.33	0.00	Gyroscope
200.00	2.30	334.92	199.97	2.00	-1.40	1.68	2.09	1.97	46.89	Gyroscope
300.00	4.01	339.92	299.81	7.10	-3.45	4.45	1.73	1.71	5.00	Gyroscope
400.00	3.02	341.00	399.62	12.87	-5.51	7.34	0.99	-0.99	1.08	Gyroscope
500.00	3.51	333.68	499.46	18.11	-7.72	10.30	0.64	0.49	-7.32	Gyroscope
600.00	3.44	346.56	599.28	23.77	-9.78	13.16	0.78	-0.07	12.88	Gyroscope
700.00	3.01	344.80	699.12	29.22	-11.16	15.33	0.44	-0.43	-1.76	Gyroscope
800.00	2.34	351.32	799.01	33.77	-12.16	16.98	0.73	-0.67	6.52	Gyroscope
900.00	2.26	3.34	898.93	37.76	-12.35	17.76	0.49	-0.08	12.02	Gyroscope
1000.00	2.19	15.56	998.86	41.57	-11.73	17.70	0.48	-0.07	12.22	Gyroscope
1100.00	2.22	15.26	1098.78	45.28	-10.70	17.23	0.03	0.03	-0.30	Gyroscope
1200.00	1.96	22.42	1198.72	48.73	-9.54	16.59	0.37	-0.26	7.16	Gyroscope
1300.00	2.12	1.12	1298.66	52.16	-8.85	16.41	0.77	0.16	-21.30	Gyroscope
1400.00	2.12	3.03	1398.59	55.85	-8.72	16.82	0.07	0.00	1.91	Gyroscope
1500.00	2.08	0.27	1498.52	59.51	-8.61	17.25	0.11	-0.04	-2.76	Gyroscope
1600.00	2.17	352.71	1598.45	63.21	-8.84	18.03	0.29	0.09	-7.56	Gyroscope
1700.00	2.88	354.10	1698.35	67.58	-9.34	19.16	0.71	0.71	1.39	Gyroscope
1800.00	3.18	0.42	1798.21	72.86	-9.58	20.17	0.45	0.30	6.32	Gyroscope
1900.00	3.41	5.97	1898.05	78.59	-9.25	20.69	0.39	0.23	5.55	Gyroscope
2000.00	3.59	7.74	1997.86	84.65	-8.52	20.85	0.21	0.18	1.77	Gyroscope

LEAM Drilling Systems, Inc.

Survey Report

Company:	POGO PRODUCING	**Date:** 4/30/2007	**Time:** 13:23:00	**Page:**	2
Field:	Eddy County, New Mexico (NAD 83)	**Co-ordinate(NE) Reference:**	Well: #1, Grid North		
Site:	Gaines "28" Federal	**Vertical (TVD) Reference:**	GL 2922' + KB 22' 2944.0		
Well:	#1	**Section (VS) Reference:**	Well (0.00N,0.00E,278.44Azi)		
Wellpath:	Lateral 1	**Survey Calculation Method:**	Minimum Curvature	**Db:**	Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
2100.00	3.38	24.57	2097.68	90.43	-6.87	20.07	1.04	-0.21	16.83	Gyroscope
2200.00	3.94	31.62	2197.48	96.04	-3.85	17.90	0.72	0.56	7.05	Gyroscope
2300.00	3.85	36.61	2297.25	101.66	-0.04	14.96	0.35	-0.09	4.99	Gyroscope
2400.00	2.67	45.13	2397.08	106.00	3.61	11.99	1.27	-1.18	8.52	Gyroscope
2500.00	2.27	52.41	2496.99	108.85	6.83	9.22	0.51	-0.40	7.28	Gyroscope
2600.00	1.83	74.02	2596.93	110.50	9.94	6.39	0.88	-0.44	21.61	Gyroscope
2700.00	1.68	97.14	2696.88	110.75	12.93	3.47	0.72	-0.15	23.12	Gyroscope
2800.00	1.24	88.36	2796.85	110.60	15.46	0.94	0.49	-0.44	-8.78	Gyroscope
2900.00	0.98	90.62	2896.83	110.62	17.40	-0.97	0.26	-0.26	2.26	Gyroscope
3000.00	0.70	92.49	2996.82	110.59	18.86	-2.43	0.28	-0.28	1.87	Gyroscope
3100.00	0.65	88.43	3096.81	110.58	20.04	-3.59	0.07	-0.05	-4.06	Gyroscope
3200.00	0.48	101.89	3196.81	110.51	21.02	-4.57	0.21	-0.17	13.46	Gyroscope
3300.00	0.09	46.32	3296.81	110.47	21.48	-5.04	0.44	-0.39	-55.57	Gyroscope
3400.00	0.13	1.99	3396.81	110.64	21.54	-5.07	0.09	0.04	-44.33	Gyroscope
3500.00	0.30	330.22	3496.80	110.98	21.42	-4.90	0.20	0.17	-31.77	Gyroscope
3600.00	0.21	330.05	3596.80	111.37	21.20	-4.62	0.09	-0.09	-0.17	Gyroscope
3700.00	0.23	335.36	3696.80	111.71	21.02	-4.40	0.03	0.02	5.31	Gyroscope
3800.00	0.22	214.94	3796.80	111.74	20.83	-4.20	0.39	-0.01	-120.42	Gyroscope
3900.00	0.24	219.61	3896.80	111.42	20.58	-4.01	0.03	0.02	4.67	Gyroscope
4000.00	0.28	234.60	3996.80	111.11	20.25	-3.72	0.08	0.04	14.99	Gyroscope
4100.00	0.29	220.00	4096.80	110.78	19.89	-3.41	0.07	0.01	-14.60	Gyroscope
4200.00	0.54	211.42	4196.80	110.18	19.48	-3.10	0.26	0.25	-8.58	Gyroscope
4300.00	0.66	196.15	4296.79	109.23	19.08	-2.84	0.20	0.12	-15.27	Gyroscope
4400.00	0.71	196.62	4396.78	108.08	18.74	-2.67	0.05	0.05	0.47	Gyroscope
4500.00	0.62	213.11	4496.78	107.03	18.27	-2.36	0.21	-0.09	16.49	Gyroscope
4600.00	0.59	219.23	4596.77	106.18	17.64	-1.87	0.07	-0.03	6.12	Gyroscope
4700.00	0.54	232.72	4696.77	105.50	16.94	-1.28	0.14	-0.05	13.49	Gyroscope
4800.00	0.58	238.11	4796.76	104.94	16.14	-0.56	0.07	0.04	5.39	Gyroscope
4900.00	0.75	226.88	4896.76	104.23	15.23	0.23	0.21	0.17	-11.23	Gyroscope
5000.00	0.84	224.59	4996.75	103.26	14.24	1.07	0.10	0.09	-2.29	Gyroscope
5100.00	0.93	248.46	5096.73	102.44	12.97	2.21	0.38	0.09	23.87	Gyroscope
5200.00	0.96	236.88	5196.72	101.68	11.51	3.54	0.19	0.03	-11.58	Gyroscope
5300.00	1.02	241.50	5296.71	100.80	10.03	4.87	0.10	0.06	4.62	Gyroscope
5400.00	0.98	257.91	5396.69	100.20	8.41	6.39	0.29	-0.04	16.41	Gyroscope
5500.00	1.07	246.59	5496.68	99.65	6.72	7.98	0.22	0.09	-11.32	Gyroscope
5600.00	0.92	239.29	5596.66	98.87	5.17	9.40	0.20	-0.15	-7.30	Gyroscope
5700.00	0.88	248.43	5696.65	98.17	3.77	10.68	0.15	-0.04	9.14	Gyroscope
5800.00	0.80	251.39	5796.64	97.67	2.39	11.97	0.09	-0.08	2.96	Gyroscope
5900.00	0.77	254.40	5896.63	97.27	1.08	13.21	0.05	-0.03	3.01	Gyroscope
6000.00	0.80	263.87	5996.62	97.01	-0.26	14.50	0.13	0.03	9.47	Gyroscope
6100.00	0.39	284.49	6096.61	97.02	-1.28	15.51	0.46	-0.41	20.62	Gyroscope
6200.00	0.57	265.12	6196.61	97.06	-2.11	16.33	0.24	0.18	-19.37	Gyroscope
6300.00	0.36	297.49	6296.61	97.17	-2.88	17.11	0.33	-0.21	32.37	Gyroscope
6400.00	0.42	295.54	6396.60	97.47	-3.49	17.76	0.06	0.06	-1.95	Gyroscope
6500.00	0.53	279.64	6496.60	97.71	-4.28	18.57	0.17	0.11	-15.90	Gyroscope
6600.00	0.44	285.68	6596.60	97.89	-5.10	19.42	0.10	-0.09	6.04	Gyroscope
6700.00	0.55	189.30	6696.59	97.52	-5.55	19.80	0.74	0.11	-96.38	Gyroscope
6800.00	1.01	128.45	6796.59	96.49	-4.94	19.05	0.88	0.46	-60.85	Gyroscope
6900.00	0.99	104.15	6896.57	95.74	-3.41	17.43	0.42	-0.02	-24.30	Gyroscope
7000.00	0.27	107.97	6996.56	95.45	-2.35	16.33	0.72	-0.72	3.82	Gyroscope
7100.00	0.30	154.39	7096.56	95.14	-2.01	15.95	0.23	0.03	46.42	Gyroscope
7116.00	0.40	154.10	7112.56	95.05	-1.97	15.90	0.63	0.62	-1.81	MWD
7148.00	2.60	287.60	7144.55	95.17	-2.61	16.55	9.03	6.87	417.19	MWD
7180.00	6.20	284.80	7176.45	95.84	-4.97	18.99	11.27	11.25	-8.75	MWD

LEAM Drilling Systems, Inc.

Survey Report

Company:	POGO PRODUCING	**Date:** 4/30/2007	**Time:** 13:23:00	**Page:**	3
Field:	Eddy County, New Mexico (NAD 83)	**Co-ordinate(NE) Reference:**	Well: #1, Grid North		
Site:	Gaines "28" Federal	**Vertical (TVD) Reference:**	GL 2922' + KB 22' 2944.0		
Well:	#1	**Section (VS) Reference:**	Well (0.00N,0.00E,278.44Azi)		
Wellpath:	Lateral 1	**Survey Calculation Method:**	Minimum Curvature	**Db:**	Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
7212.00	10.60	282.10	7208.10	96.89	-9.53	23.64	13.80	13.75	-8.44	MWD
7244.00	14.20	279.10	7239.35	98.13	-16.28	30.51	11.42	11.25	-9.37	MWD
7276.00	17.60	278.40	7270.12	99.46	-24.95	39.27	10.64	10.62	-2.19	MWD
7308.00	19.20	275.40	7300.49	100.66	-34.97	49.37	5.81	5.00	-9.37	MWD
7339.00	21.00	281.80	7329.60	102.28	-45.49	60.00	9.16	5.81	20.65	MWD
7371.00	22.60	281.40	7359.31	104.67	-57.13	71.87	5.02	5.00	-1.25	MWD
7402.00	21.30	276.70	7388.07	106.50	-68.56	83.45	7.05	-4.19	-15.16	MWD
7434.00	22.40	279.70	7417.77	108.21	-80.34	95.35	4.90	3.44	9.37	MWD
7465.00	25.80	276.80	7446.06	110.00	-92.87	108.01	11.61	10.97	-9.35	MWD
7497.00	30.80	274.30	7474.23	111.44	-107.96	123.15	16.05	15.62	-7.81	MWD
7529.00	35.20	273.60	7501.06	112.63	-125.34	140.52	13.80	13.75	-2.19	MWD
7561.00	39.10	271.70	7526.56	113.51	-144.64	159.74	12.70	12.19	-5.94	MWD
7593.00	43.50	271.30	7550.60	114.06	-165.75	180.70	13.77	13.75	-1.25	MWD
7625.00	48.10	266.90	7572.91	113.67	-188.67	203.31	17.42	14.37	-13.75	MWD
7657.00	53.30	264.00	7593.17	111.68	-213.34	227.42	17.70	16.25	-9.06	MWD
7689.00	56.80	264.50	7611.50	109.06	-239.43	252.85	11.01	10.94	1.56	MWD
7721.00	60.30	266.40	7628.19	106.90	-266.64	279.44	12.05	10.94	5.94	MWD
7753.00	64.20	267.90	7643.09	105.50	-294.92	307.21	12.87	12.19	4.69	MWD
7785.00	68.10	269.70	7656.03	104.89	-324.17	336.06	13.23	12.19	5.62	MWD
7817.00	71.00	271.80	7667.21	105.29	-354.15	365.77	10.95	9.06	6.56	MWD
7852.00	72.40	278.10	7678.21	108.16	-387.23	398.92	17.55	4.00	18.00	MWD
7882.00	73.10	279.70	7687.10	112.60	-415.54	427.56	5.60	2.33	5.33	MWD
7913.00	74.10	279.70	7695.86	117.61	-444.85	457.30	3.23	3.23	0.00	MWD
7956.00	77.10	279.40	7706.55	124.52	-485.92	498.93	7.01	6.98	-0.70	MWD
7967.00	77.80	279.70	7708.94	126.30	-496.51	509.67	6.90	6.36	2.73	MWD
7988.00	80.50	282.00	7712.89	130.18	-516.76	530.27	16.76	12.86	10.95	MWD
7998.00	81.60	283.20	7714.45	132.34	-526.40	540.12	16.17	11.00	12.00	MWD
8008.00	82.80	283.80	7715.81	134.65	-536.03	549.99	13.39	12.00	6.00	MWD
8020.00	84.50	284.20	7717.13	137.53	-547.60	561.86	14.55	14.17	3.33	MWD
8030.00	86.30	284.70	7717.93	140.02	-557.26	571.77	18.68	18.00	5.00	MWD
8050.00	90.50	286.10	7718.49	145.33	-576.53	591.61	22.13	21.00	7.00	MWD
8082.00	93.30	286.30	7717.43	154.25	-607.23	623.30	8.77	8.75	0.62	MWD
8114.00	93.20	285.10	7715.62	162.90	-637.99	654.99	3.76	-0.31	-3.75	MWD
8146.00	93.50	284.80	7713.75	171.14	-668.85	686.73	1.32	0.94	-0.94	MWD
8178.00	93.40	285.20	7711.82	179.40	-699.71	718.46	1.29	-0.31	1.25	MWD
8210.00	93.50	285.40	7709.90	187.83	-730.52	750.18	0.70	0.31	0.62	MWD
8242.00	93.40	284.60	7707.97	196.10	-761.37	781.91	2.51	-0.31	-2.50	MWD
8306.00	93.20	283.50	7704.29	211.61	-823.35	845.50	1.74	-0.31	-1.72	MWD
8338.00	92.90	282.40	7702.58	218.77	-854.49	877.35	3.56	-0.94	-3.44	MWD
8402.00	92.80	281.30	7699.40	231.90	-917.05	941.16	1.72	-0.16	-1.72	MWD
8465.00	94.10	280.40	7695.61	243.74	-978.81	1003.99	2.51	2.06	-1.43	MWD
8530.00	94.50	280.20	7690.74	255.32	-1042.58	1068.77	0.69	0.62	-0.31	MWD
8593.00	94.00	280.10	7686.07	266.40	-1104.43	1131.57	0.81	-0.79	-0.16	MWD
8658.00	93.80	279.80	7681.65	277.60	-1168.30	1196.39	0.55	-0.31	-0.46	MWD
8720.00	93.60	278.80	7677.65	287.60	-1229.36	1258.26	1.64	-0.32	-1.61	MWD
8784.00	93.50	278.50	7673.68	297.21	-1292.51	1322.13	0.49	-0.16	-0.47	MWD
8848.00	93.70	278.90	7669.66	306.87	-1355.65	1386.01	0.70	0.31	0.62	MWD
8912.00	93.50	278.50	7665.65	316.53	-1418.79	1449.88	0.70	-0.31	-0.62	MWD
8976.00	94.20	279.70	7661.35	326.63	-1481.84	1513.73	2.17	1.09	1.87	MWD
9040.00	94.00	279.10	7656.77	337.05	-1544.81	1577.56	0.99	-0.31	-0.94	MWD
9104.00	92.10	277.40	7653.37	346.22	-1608.06	1641.46	3.98	-2.97	-2.66	MWD
9168.00	92.00	276.30	7651.08	353.85	-1671.56	1705.39	1.72	-0.16	-1.72	MWD
9232.00	92.40	276.20	7648.62	360.81	-1735.13	1769.30	0.64	0.62	-0.16	MWD

LEAM Drilling Systems, Inc.
Survey Report

Company:	POGO PRODUCING	**Date:** 4/30/2007	**Time:** 13:23:00	**Page:**	4
Field:	Eddy County, New Mexico (NAD 83)	**Co-ordinate(NE) Reference:**	Well: #1, Grid North		
Site:	Gaines "28" Federal	**Vertical (TVD) Reference:**	GL 2922' + KB 22' 2944.0		
Well:	#1	**Section (VS) Reference:**	Well (0.00N,0.00E,278.44Azi)		
Wellpath:	Lateral 1	**Survey Calculation Method:**	Minimum Curvature	**Db:**	Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
9295.00	91.70	274.70	7646.37	366.79	-1797.80	1832.17	2.63	-1.11	-2.38	MWD
9359.00	92.10	275.10	7644.25	372.26	-1861.54	1896.01	0.88	0.62	0.62	MWD
9423.00	91.90	274.30	7642.01	377.50	-1925.28	1959.84	1.29	-0.31	-1.25	MWD
9487.00	91.20	274.40	7640.28	382.35	-1989.07	2023.65	1.10	-1.09	0.16	MWD
9551.00	91.50	275.10	7638.77	387.65	-2052.83	2087.50	1.19	0.47	1.09	MWD
9615.00	91.60	273.70	7637.04	392.56	-2116.62	2151.32	2.19	0.16	-2.19	MWD
9679.00	91.80	274.40	7635.14	397.07	-2180.43	2215.10	1.14	0.31	1.09	MWD
9711.00	91.30	273.90	7634.28	399.39	-2212.34	2247.00	2.21	-1.56	-1.56	MWD
9775.00	90.50	272.40	7633.27	402.91	-2276.23	2310.72	2.66	-1.25	-2.34	MWD
9839.00	90.60	272.10	7632.66	405.42	-2340.18	2374.34	0.49	0.16	-0.47	MWD
9903.00	91.60	272.20	7631.43	407.82	-2404.12	2437.94	1.57	1.56	0.16	MWD
9966.00	92.80	274.00	7629.01	411.22	-2466.98	2500.62	3.43	1.90	2.86	MWD
10030.00	92.00	272.50	7626.33	414.85	-2530.82	2564.30	2.65	-1.25	-2.34	MWD
10093.00	92.00	272.10	7624.13	417.37	-2593.73	2626.90	0.63	0.00	-0.63	MWD
10158.00	90.70	271.80	7622.60	419.59	-2658.67	2691.46	2.05	-2.00	-0.46	MWD
10222.00	91.60	273.90	7621.32	422.77	-2722.57	2755.14	3.57	1.41	3.28	MWD
10285.00	91.40	273.30	7619.67	426.72	-2785.43	2817.89	1.00	-0.32	-0.95	MWD
10349.00	91.30	273.00	7618.16	430.24	-2849.31	2881.60	0.49	-0.16	-0.47	MWD
10413.00	92.00	273.70	7616.32	433.97	-2913.18	2945.32	1.55	1.09	1.09	MWD
10477.00	90.70	273.10	7614.81	437.77	-2977.04	3009.06	2.24	-2.03	-0.94	MWD
10522.00	90.90	273.20	7614.18	440.24	-3021.97	3053.86	0.50	0.44	0.22	MWD
10575.00	90.90	273.20	7613.35	443.20	-3074.88	3106.63	0.00	0.00	0.00	PROJECTED to TD

CONFIDENTIAL

S C I E N T I F I C D R I L L I N G C O N T R O L S

KEEPER GYRO SURVEY

Directional Survey Report

for

POGO PRODUCING

Well Number	:	GAINES 28 COM #1
Well Location	:	EDDY COUNTY, NEW MEXICO
Job Number	:	32K0407297
Location Latitude	:	32.192
Survey Date	:	10-APR-2007
S.D.C. Personnel	:	ROBERT GONZALES
Length Units	:	Feet
North Reference	:	TRUE North
Grid Correction	:	0.00 Degrees
Survey Depth Zero	:	RKB
Proposal Direction	:	
Calculation Method	:	Minimum Curvature

CONFIDENTIAL

Remarks : The INRUN Survey will be called definitive

S C I E N T I F I C D R I L L I N G C O N T R O L S

Inrun Survey
for
POGO PRODUCING

Well No.: GAINES 28 COM #1 Date : 10-APR-2007
Job No. : 32K0407297 Proposal : 0.00

Depth (Feet)	T.V.D. (Feet)	V.S. (Feet)	Inc Deg.	TRUE Azimuth Deg.	Latitude (Feet)	Departure (Feet)	D-leg /100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	100.00	0.09	0.33	288.03	0.09	-0.27	0.33
200.00	199.97	2.00	2.30	334.92	2.00	-1.40	2.09
300.00	299.81	7.10	4.01	339.92	7.10	-3.45	1.73
400.00	399.62	12.87	3.02	341.00	12.87	-5.51	0.99
500.00	499.46	18.11	3.51	333.68	18.11	-7.72	0.64

600.00	599.28	23.77	3.44	346.56	23.77	-9.78	0.78
700.00	699.12	29.22	3.01	344.80	29.22	-11.16	0.44
800.00	799.01	33.77	2.34	351.32	33.77	-12.16	0.73
900.00	898.93	37.76	2.26	3.34	37.76	-12.35	0.49
1000.00	998.86	41.57	2.19	15.56	41.57	-11.72	0.48
1100.00	1098.78	45.28	2.22	15.26	45.28	-10.70	0.03
1200.00	1198.71	48.73	1.96	22.42	48.73	-9.54	0.37
1300.00	1298.65	52.16	2.12	1.12	52.16	-8.85	0.77
1400.00	1398.59	55.85	2.12	3.03	55.85	-8.72	0.07
1500.00	1498.52	59.52	2.08	0.27	59.52	-8.61	0.11
1600.00	1598.45	63.21	2.17	352.71	63.21	-8.84	0.29
1700.00	1698.35	67.58	2.88	354.10	67.58	-9.34	0.71
1800.00	1798.21	72.86	3.18	0.42	72.86	-9.58	0.45
1900.00	1898.05	78.59	3.41	5.97	78.59	-9.25	0.39
2000.00	1997.86	84.65	3.59	7.74	84.65	-8.52	0.21
2100.00	2097.68	90.43	3.38	24.57	90.43	-6.87	1.04
2200.00	2197.47	96.04	3.94	31.62	96.04	-3.85	0.72
2300.00	2297.24	101.66	3.85	36.61	101.66	-0.04	0.35
2400.00	2397.08	106.00	2.67	45.13	106.00	3.61	1.27
2500.00	2496.99	108.85	2.27	52.41	108.85	6.83	0.51
2600.00	2596.92	110.50	1.83	74.02	110.50	9.94	0.88
2700.00	2696.88	110.75	1.68	97.14	110.75	12.93	0.72
2800.00	2796.84	110.60	1.24	88.36	110.60	15.46	0.49
2900.00	2896.82	110.62	0.98	90.62	110.62	17.40	0.26
3000.00	2996.81	110.59	0.70	92.49	110.59	18.86	0.28
3100.00	3096.81	110.58	0.65	88.43	110.58	20.04	0.07
3200.00	3196.80	110.51	0.48	101.89	110.51	21.02	0.21
3300.00	3296.80	110.47	0.09	46.32	110.47	21.48	0.44
3400.00	3396.80	110.64	0.13	1.99	110.64	21.55	0.09
3500.00	3496.80	110.98	0.30	330.22	110.98	21.42	0.20
3600.00	3596.80	111.37	0.21	330.05	111.37	21.20	0.09
3700.00	3696.80	111.71	0.23	335.36	111.71	21.02	0.03
3800.00	3796.80	111.73	0.22	214.94	111.73	20.83	0.39
3900.00	3896.80	111.42	0.24	219.61	111.42	20.59	0.03
4000.00	3996.79	111.11	0.28	234.60	111.11	20.25	0.08
4100.00	4096.79	110.78	0.29	220.00	110.78	19.89	0.07
4200.00	4196.79	110.18	0.54	211.42	110.18	19.48	0.26
4300.00	4296.78	109.23	0.66	196.15	109.23	19.08	0.20
4400.00	4396.78	108.08	0.71	196.62	108.08	18.74	0.05
4500.00	4496.77	107.03	0.62	213.11	107.03	18.27	0.21
4600.00	4596.77	106.18	0.59	219.23	106.18	17.64	0.07
4700.00	4696.76	105.50	0.54	232.72	105.50	16.94	0.14
4800.00	4796.76	104.94	0.58	238.11	104.94	16.14	0.07
4900.00	4896.75	104.23	0.75	226.88	104.23	15.23	0.21
5000.00	4996.74	103.26	0.84	224.59	103.26	14.24	0.10
5100.00	5096.73	102.44	0.93	248.46	102.44	12.97	0.38
5200.00	5196.71	101.68	0.96	236.88	101.68	11.51	0.19
5300.00	5296.70	100.80	1.02	241.50	100.80	10.03	0.10
5400.00	5396.68	100.20	0.98	257.91	100.20	8.41	0.29
5500.00	5496.67	99.65	1.07	246.59	99.65	6.72	0.22
5600.00	5596.65	98.87	0.92	239.29	98.87	5.17	0.20
5700.00	5696.64	98.17	0.88	248.43	98.17	3.77	0.15
5800.00	5796.63	97.67	0.80	251.39	97.67	2.39	0.09
5900.00	5896.62	97.27	0.77	254.40	97.27	1.08	0.05
6000.00	5996.61	97.01	0.80	263.87	97.01	-0.26	0.13
6100.00	6096.60	97.02	0.39	284.49	97.02	-1.28	0.46
6200.00	6196.60	97.06	0.57	265.12	97.06	-2.11	0.24
6300.00	6296.60	97.17	0.36	297.49	97.17	-2.88	0.33
6400.00	6396.59	97.47	0.42	295.54	97.47	-3.49	0.06
6500.00	6496.59	97.70	0.53	279.64	97.70	-4.28	0.17
6600.00	6596.59	97.89	0.44	285.68	97.89	-5.10	0.10
6700.00	6696.59	97.52	0.55	189.30	97.52	-5.55	0.74
6800.00	6796.58	96.50	1.01	128.45	96.50	-4.94	0.88

6900.00	6896.56	95.73	0.99	104.15	95.73	-3.41	0.42
7000.00	6996.56	95.45	0.27	107.97	95.45	-2.35	0.72
7100.00	7096.55	95.14	0.30	154.39	95.14	-2.01	0.23
7200.00	7196.55	95.31	0.69	48.00	95.31	-1.45	0.83
7300.00	7296.55	95.72	0.43	271.25	95.72	-1.38	1.05
7400.00	7396.53	95.46	1.48	257.90	95.46	-3.02	1.07
7500.00	7496.48	94.15	2.20	237.33	94.15	-5.89	0.97
7585.00	7581.40	91.83	2.81	226.11	91.83	-8.77	0.92

The Horizontal Displacement (in Feet) at
Measured Depth 7585.00 is 92.24 in a Direction of 354.55 Degrees

CONFIDENTIAL

SCIENTIFIC DRILLING CONTROLS

KEEPER GYRO SURVEY

Directional Survey Report

for

POGO PRODUCING

Well Number	:	GAINES 28 COM #1
Well Location	:	EDDY COUNTY, NEW MEXICO
Job Number	:	32K0407297
Location Latitude	:	32.192
Survey Date	:	10-APR-2007
S.D.C. Personnel	:	ROBERT GONZALES
Length Units	:	Feet
North Reference	:	TRUE North
Grid Correction	:	0.00 Degrees
Survey Depth Zero	:	RKB
Proposal Direction	:	
Calculation Method	:	Minimum Curvature

Remarks : The INRUN Survey will be called definitive

SCIENTIFIC DRILLING CONTROLS

Inrun Survey
for
POGO PRODUCING

Well No.: GAINES 28 COM #1 Date : 10-APR-2007
Job No. : 32K0407297 Proposal : 0.00

Depth (Feet)	T.V.D. (Feet)	V.S. (Feet)	Inc Deg.	TRUE Azimuth Deg.	Latitude (Feet)	Departure (Feet)	D-leg /100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	100.00	0.09	0.33	288.03	0.09	-0.27	0.33
200.00	199.97	2.00	2.30	334.92	2.00	-1.40	2.09
300.00	299.81	7.10	4.01	339.92	7.10	-3.45	1.73
400.00	399.62	12.87	3.02	341.00	12.87	-5.51	0.99
500.00	499.46	18.11	3.51	333.68	18.11	-7.72	0.64

600.00	599.28	23.77	3.44	346.56	23.77	-9.78	0.78
700.00	699.12	29.22	3.01	344.80	29.22	-11.16	0.44
800.00	799.01	33.77	2.34	351.32	33.77	-12.16	0.73
900.00	898.93	37.76	2.26	3.34	37.76	-12.35	0.49
1000.00	998.86	41.57	2.19	15.56	41.57	-11.72	0.48
1100.00	1098.78	45.28	2.22	15.26	45.28	-10.70	0.03
1200.00	1198.71	48.73	1.96	22.42	48.73	-9.54	0.37
1300.00	1298.65	52.16	2.12	1.12	52.16	-8.85	0.77
1400.00	1398.59	55.85	2.12	3.03	55.85	-8.72	0.07
1500.00	1498.52	59.52	2.08	0.27	59.52	-8.61	0.11
1600.00	1598.45	63.21	2.17	352.71	63.21	-8.84	0.29
1700.00	1698.35	67.58	2.88	354.10	67.58	-9.34	0.71
1800.00	1798.21	72.86	3.18	0.42	72.86	-9.58	0.45
1900.00	1898.05	78.59	3.41	5.97	78.59	-9.25	0.39
2000.00	1997.86	84.65	3.59	7.74	84.65	-8.52	0.21
2100.00	2097.68	90.43	3.38	24.57	90.43	-6.87	1.04
2200.00	2197.47	96.04	3.94	31.62	96.04	-3.85	0.72
2300.00	2297.24	101.66	3.85	36.61	101.66	-0.04	0.35
2400.00	2397.08	106.00	2.67	45.13	106.00	3.61	1.27
2500.00	2496.99	108.85	2.27	52.41	108.85	6.83	0.51
2600.00	2596.92	110.50	1.83	74.02	110.50	9.94	0.88
2700.00	2696.88	110.75	1.68	97.14	110.75	12.93	0.72
2800.00	2796.84	110.60	1.24	88.36	110.60	15.46	0.49
2900.00	2896.82	110.62	0.98	90.62	110.62	17.40	0.26
3000.00	2996.81	110.59	0.70	92.49	110.59	18.86	0.28
3100.00	3096.81	110.58	0.65	88.43	110.58	20.04	0.07
3200.00	3196.80	110.51	0.48	101.89	110.51	21.02	0.21
3300.00	3296.80	110.47	0.09	46.32	110.47	21.48	0.44
3400.00	3396.80	110.64	0.13	1.99	110.64	21.55	0.09
3500.00	3496.80	110.98	0.30	330.22	110.98	21.42	0.20
3600.00	3596.80	111.37	0.21	330.05	111.37	21.20	0.09
3700.00	3696.80	111.71	0.23	335.36	111.71	21.02	0.03
3800.00	3796.80	111.73	0.22	214.94	111.73	20.83	0.39
3900.00	3896.80	111.42	0.24	219.61	111.42	20.59	0.03
4000.00	3996.79	111.11	0.28	234.60	111.11	20.25	0.08
4100.00	4096.79	110.78	0.29	220.00	110.78	19.89	0.07
4200.00	4196.79	110.18	0.54	211.42	110.18	19.48	0.26
4300.00	4296.78	109.23	0.66	196.15	109.23	19.08	0.20
4400.00	4396.78	108.08	0.71	196.62	108.08	18.74	0.05
4500.00	4496.77	107.03	0.62	213.11	107.03	18.27	0.21
4600.00	4596.77	106.18	0.59	219.23	106.18	17.64	0.07
4700.00	4696.76	105.50	0.54	232.72	105.50	16.94	0.14
4800.00	4796.76	104.94	0.58	238.11	104.94	16.14	0.07
4900.00	4896.75	104.23	0.75	226.88	104.23	15.23	0.21
5000.00	4996.74	103.26	0.84	224.59	103.26	14.24	0.10
5100.00	5096.73	102.44	0.93	248.46	102.44	12.97	0.38
5200.00	5196.71	101.68	0.96	236.88	101.68	11.51	0.19
5300.00	5296.70	100.80	1.02	241.50	100.80	10.03	0.10
5400.00	5396.68	100.20	0.98	257.91	100.20	8.41	0.29
5500.00	5496.67	99.65	1.07	246.59	99.65	6.72	0.22
5600.00	5596.65	98.87	0.92	239.29	98.87	5.17	0.20
5700.00	5696.64	98.17	0.88	248.43	98.17	3.77	0.15
5800.00	5796.63	97.67	0.80	251.39	97.67	2.39	0.09
5900.00	5896.62	97.27	0.77	254.40	97.27	1.08	0.05
6000.00	5996.61	97.01	0.80	263.87	97.01	-0.26	0.13
6100.00	6096.60	97.02	0.39	284.49	97.02	-1.28	0.46
6200.00	6196.60	97.06	0.57	265.12	97.06	-2.11	0.24
6300.00	6296.60	97.17	0.36	297.49	97.17	-2.88	0.33
6400.00	6396.59	97.47	0.42	295.54	97.47	-3.49	0.06
6500.00	6496.59	97.70	0.53	279.64	97.70	-4.28	0.17
6600.00	6596.59	97.89	0.44	285.68	97.89	-5.10	0.10
6700.00	6696.59	97.52	0.55	189.30	97.52	-5.55	0.74
6800.00	6796.58	96.50	1.01	128.45	96.50	-4.94	0.88

6900.00	6896.56	95.73	0.99	104.15	95.73	-3.41	0.42
7000.00	6996.56	95.45	0.27	107.97	95.45	-2.35	0.72
7100.00	7096.55	95.14	0.30	154.39	95.14	-2.01	0.23
7200.00	7196.55	95.31	0.69	48.00	95.31	-1.45	0.83
7300.00	7296.55	95.72	0.43	271.25	95.72	-1.38	1.05
7400.00	7396.53	95.46	1.48	257.90	95.46	-3.02	1.07
7500.00	7496.48	94.15	2.20	237.33	94.15	-5.89	0.97
7585.00	7581.40	91.83	2.81	226.11	91.83	-8.77	0.92

The Horizontal Displacement (in Feet) at
Measured Depth 7585.00 is 92.24 in a Direction of 354.55 Degrees

Scientific Drilling

POGO

Field: Corral Draw
Site: Eddy County, NM
Well: Gaines 28 Com #1
Wellpath: VH - Job #32K0407297
Survey: 04/10/07

CONFIDENTIAL

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

.....Company Representative

Notorized this date 16th of April, 2007.

Deborah Sue Bynum
Notary Signature
County of Midland
State of Texas

DEBORAH SUE BYNUM
Notary Public, State of Texas
My Commission Expires
5/9/08

Scientific Drilling

Scientific Drilling International
Survey Report

Company:	POGO	**Date:** 04/11/2007	**Time:** 08:21:51	**Page:**	1
Field:	Corral Draw	**Co-ordinate(NE) Reference:**	Site: Eddy County, NM, Grid North		
Site:	Eddy County, NM	**Vertical (TVD) Reference:**	SITE 0.0		
Well:	Gaines 28 Com #1	**Section (VS) Reference:**	Well (0.00N,0.00E,354.54Azi)		
Wellpath:	VH - Job #32K0407297	**Survey Calculation Method:**	Minimum Curvature	**Db:**	Sybase

Survey:	04/10/07 KSRG 0'-7585'	**Start Date:**	04/10/2007
Company:	Scientific Drilling Internatio	**Engineer:**	Gonzales w/P&M
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	CloD ft	CloA deg
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.33	288.03	100.00	0.11	0.09	-0.27	0.33	0.29	288.03
200.00	2.30	334.92	199.97	2.12	2.00	-1.40	2.09	2.44	324.98
300.00	4.01	339.92	299.81	7.39	7.10	-3.45	1.73	7.89	334.08
400.00	3.02	341.00	399.62	13.34	12.87	-5.51	0.99	14.00	336.84
500.00	3.51	333.68	499.46	18.76	18.11	-7.72	0.64	19.69	336.90
600.00	3.44	346.56	599.28	24.59	23.77	-9.78	0.78	25.70	337.64
700.00	3.01	344.80	699.12	30.15	29.22	-11.16	0.44	31.28	339.09
800.00	2.34	351.32	799.01	34.78	33.77	-12.16	0.73	35.89	340.20
900.00	2.26	3.34	898.93	38.76	37.76	-12.35	0.49	39.73	341.88
1000.00	2.19	15.56	998.86	42.49	41.57	-11.73	0.48	43.19	344.25
1100.00	2.22	15.26	1098.78	46.09	45.28	-10.70	0.03	46.52	346.70
1200.00	1.96	22.42	1198.72	49.41	48.73	-9.54	0.37	49.65	348.92
1300.00	2.12	1.12	1298.66	52.76	52.16	-8.85	0.77	52.90	350.37
1400.00	2.12	3.03	1398.59	56.43	55.85	-8.72	0.07	56.53	351.13
1500.00	2.08	0.27	1498.52	60.06	59.51	-8.61	0.11	60.13	351.77
1600.00	2.17	352.71	1598.45	63.76	63.21	-8.84	0.29	63.82	352.03
1700.00	2.88	354.10	1698.35	68.17	67.58	-9.34	0.71	68.23	352.13
1800.00	3.18	0.42	1798.21	73.44	72.86	-9.58	0.45	73.48	352.51
1900.00	3.41	5.97	1898.05	79.11	78.59	-9.25	0.39	79.13	353.29
2000.00	3.59	7.74	1997.86	85.08	84.65	-8.52	0.21	85.08	354.25
2100.00	3.38	24.57	2097.68	90.68	90.43	-6.87	1.04	90.69	355.65
2200.00	3.94	31.62	2197.48	95.97	96.04	-3.85	0.72	96.12	357.71
2300.00	3.85	36.61	2297.25	101.20	101.66	-0.04	0.35	101.66	359.98
2400.00	2.67	45.13	2397.08	105.17	106.00	3.61	1.27	106.06	1.95
2500.00	2.27	52.41	2496.99	107.71	108.85	6.83	0.51	109.06	3.59
2600.00	1.83	74.02	2596.93	109.05	110.50	9.94	0.88	110.94	5.14
2700.00	1.68	97.14	2696.88	109.02	110.75	12.93	0.72	111.51	6.66
2800.00	1.24	88.36	2796.85	108.63	110.60	15.46	0.49	111.68	7.96
2900.00	0.98	90.62	2896.83	108.47	110.62	17.40	0.26	111.98	8.94
3000.00	0.70	92.49	2996.82	108.29	110.59	18.86	0.28	112.19	9.68
3100.00	0.65	88.43	3096.81	108.17	110.58	20.04	0.07	112.38	10.27
3200.00	0.48	101.89	3196.81	108.01	110.51	21.02	0.21	112.49	10.77
3300.00	0.09	46.32	3296.81	107.93	110.47	21.48	0.44	112.54	11.00
3400.00	0.13	1.99	3396.81	108.09	110.64	21.54	0.09	112.72	11.02
3500.00	0.30	330.22	3496.80	108.44	110.98	21.42	0.20	113.03	10.92
3600.00	0.21	330.05	3596.80	108.85	111.37	21.20	0.09	113.37	10.78
3700.00	0.23	335.36	3696.80	109.21	111.71	21.02	0.03	113.67	10.66
3800.00	0.22	214.94	3796.80	109.25	111.74	20.83	0.39	113.66	10.56
3900.00	0.24	219.61	3896.80	108.95	111.42	20.58	0.03	113.30	10.47
4000.00	0.28	234.60	3996.80	108.68	111.11	20.25	0.08	112.94	10.33
4100.00	0.29	220.00	4096.80	108.39	110.78	19.89	0.07	112.55	10.18
4200.00	0.54	211.42	4196.80	107.83	110.18	19.48	0.26	111.89	10.03
4300.00	0.66	196.15	4296.79	106.92	109.23	19.08	0.20	110.88	9.91
4400.00	0.71	196.62	4396.78	105.81	108.08	18.74	0.05	109.69	9.84
4500.00	0.62	213.11	4496.78	104.81	107.03	18.27	0.21	108.58	9.68
4600.00	0.59	219.23	4596.77	104.02	106.18	17.64	0.07	107.64	9.44
4700.00	0.54	232.72	4696.77	103.41	105.50	16.94	0.14	106.85	9.12
4800.00	0.58	238.11	4796.76	102.93	104.94	16.14	0.07	106.18	8.74

Scientific Drilling

Scientific Drilling International
Survey Report

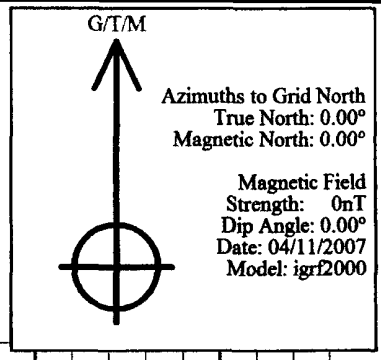
Company:	POGO	**Date:** 04/11/2007	**Time:** 08:21:51	**Page:**	2
Field:	Corral Draw	**Co-ordinate(NE) Reference:**	Site: Eddy County, NM, Grid North		
Site:	Eddy County, NM	**Vertical (TVD) Reference:**	SITE 0.0		
Well:	Gaines 28 Com #1	**Section (VS) Reference:**	Well (0.00N,0.00E,354.54Azi)		
Wellpath:	VH - Job #32K0407297	**Survey Calculation Method:**	Minimum Curvature	**Db:**	Sybase

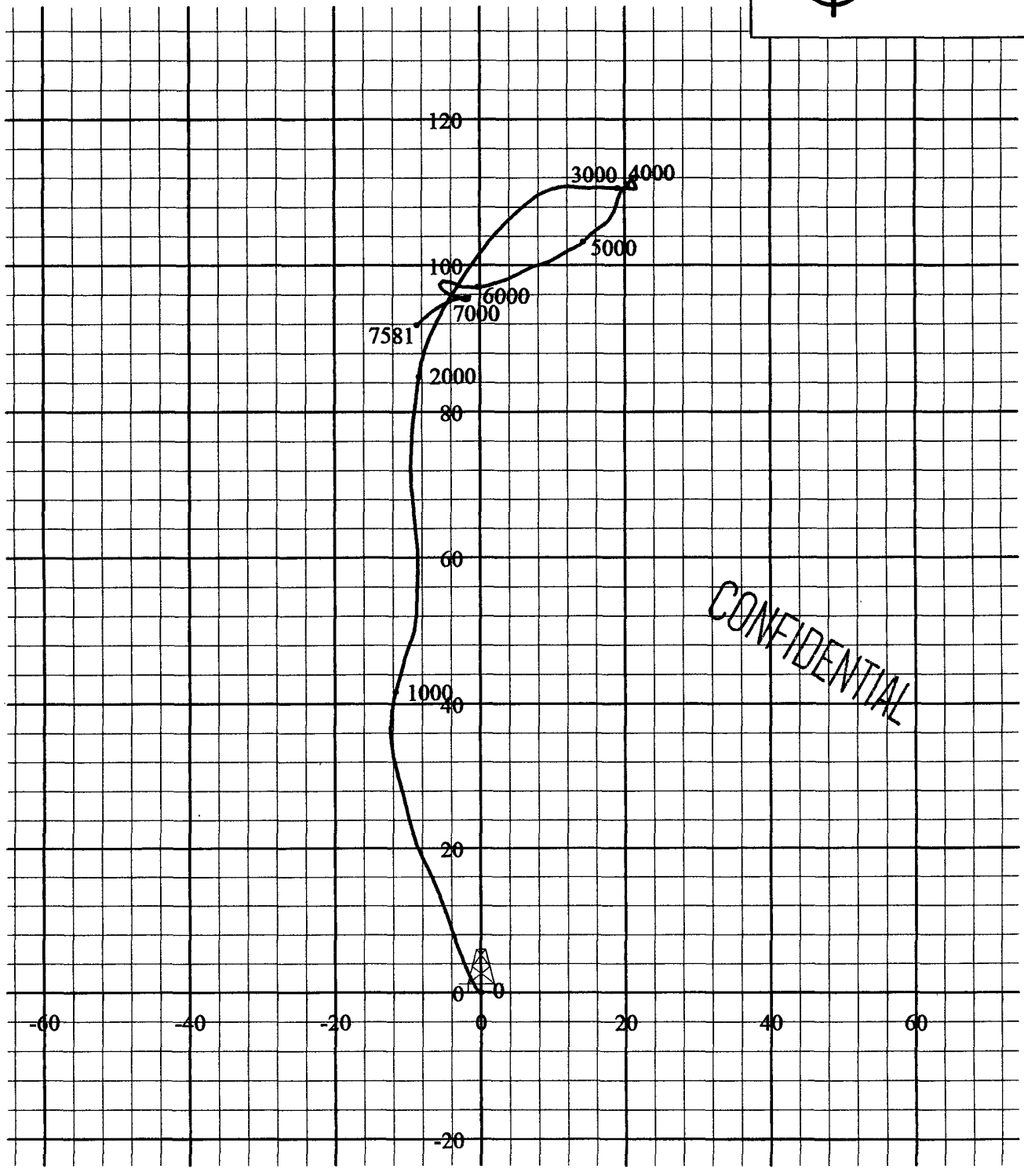
Survey

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	0.75	226.88	4896.76	102.31	104.23	15.23	0.21	105.34	8.31
5000.00	0.84	224.59	4996.75	101.44	103.26	14.24	0.10	104.24	7.85
5100.00	0.93	248.46	5096.73	100.74	102.44	12.97	0.38	103.26	7.22
5200.00	0.96	236.88	5196.72	100.13	101.68	11.51	0.19	102.33	6.46
5300.00	1.02	241.50	5296.71	99.39	100.80	10.03	0.10	101.30	5.68
5400.00	0.98	257.91	5396.69	98.94	100.20	8.41	0.29	100.55	4.80
5500.00	1.07	246.59	5496.68	98.56	99.65	6.72	0.22	99.87	3.86
5600.00	0.92	239.29	5596.66	97.93	98.87	5.17	0.20	99.00	2.99
5700.00	0.88	248.43	5696.65	97.37	98.17	3.77	0.15	98.25	2.20
5800.00	0.80	251.39	5796.64	97.00	97.67	2.39	0.09	97.70	1.40
5900.00	0.77	254.40	5896.63	96.72	97.27	1.08	0.05	97.27	0.64
6000.00	0.80	263.87	5996.62	96.60	97.01	-0.26	0.13	97.01	359.85
6100.00	0.39	284.49	6096.61	96.70	97.02	-1.28	0.46	97.03	359.24
6200.00	0.57	265.12	6196.61	96.82	97.06	-2.11	0.24	97.09	358.76
6300.00	0.36	297.49	6296.61	97.00	97.17	-2.88	0.33	97.21	358.30
6400.00	0.42	295.54	6396.60	97.36	97.47	-3.49	0.06	97.53	357.95
6500.00	0.53	279.64	6496.60	97.67	97.71	-4.28	0.17	97.80	357.49
6600.00	0.44	285.68	6596.60	97.93	97.89	-5.10	0.10	98.02	357.02
6700.00	0.55	189.30	6696.59	97.60	97.52	-5.55	0.74	97.67	356.74
6800.00	1.01	128.45	6796.59	96.53	96.49	-4.94	0.88	96.62	357.07
6900.00	0.99	104.15	6896.57	95.63	95.74	-3.41	0.42	95.80	357.96
7000.00	0.27	107.97	6996.56	95.24	95.45	-2.35	0.72	95.48	358.59
7100.00	0.30	154.39	7096.56	94.90	95.14	-2.01	0.23	95.16	358.79
7200.00	0.69	48.00	7196.56	95.02	95.31	-1.45	0.83	95.32	359.13
7300.00	0.43	271.25	7296.56	95.42	95.72	-1.38	1.05	95.73	359.18
7400.00	1.48	257.90	7396.54	95.31	95.46	-3.02	1.07	95.51	358.19
7500.00	2.20	237.33	7496.49	94.29	94.15	-5.89	0.97	94.34	356.42
7585.00	2.81	226.11	7581.41	92.24	91.83	-8.77	0.92	92.24	354.54

Scientific Drilling

Field: Corral Draw
Site: Eddy County, NM
Well: Gaines 28 Com #1
Wellpath: VH - Job #32K0407297
Survey: 04/10/07





South(-)/North(+) [20ft/in]

West(-)/East(+) [20ft/in]

Drilling Systems, Inc.

Survey Certification Form

I, Wes Cockrell, an employee of LEAM Drilling Systems, Inc., hereby certify that on the dates beginning on 04/15/07 and ending on 04/30/07 I conducted or supervised the taking of an MWD Survey from a beginning depth of 7,150' to an ending depth of 10,490' ft. MD; that the depth is true, correct, complete, and within the limitations of the tools as set forth by LEAM Drilling Systems, Inc. I have reviewed the survey and certify that it conforms to the principles and procedures as set forth by LEAM Drilling Systems, Inc. I further certify that that I am authorized and qualified to make this survey with respect to the well Gaines "28" Federal #1 located in Eddy Co., Nm. as requested by Pogo Producing.

Wes Cockrell
MWD Operator

CONFIDENTIAL

12051 HWY 105 E. CONROE, TX 77306

Survey Report

MINIMUM CURVATURE CALCULATION

Operator	POGO PRODUCING
Well Name	GAINES "28" FEDERAL 1
Location	EDDY CO., NM
Start Date	4/12/2007
End Date	4/30/2007
Direction	278.44

SUR NUM	MD ft	INC °	AZM °	TVD ft	N-S ft	E-W ft	SECT ft	DLS °/100'
TIE IN	7100	0.30	154.39	7096.55	95.14	-2.01	15.95	0.0
1	7116	0.4	154.1	7112.55	95.05	-1.97	15.90	0.6
2	7148	2.6	287.6	7144.54	95.17	-2.61	16.55	9.0
3	7180	6.2	284.8	7176.44	95.83	-4.97	18.99	11.3
4	7212	10.6	282.1	7208.09	96.89	-9.52	23.64	13.8
5	7244	14.2	279.1	7239.34	98.13	-16.28	30.51	11.4
6	7276	17.6	278.4	7270.11	99.46	-24.94	39.27	10.6
7	7308	19.2	275.4	7300.47	100.66	-34.97	49.37	5.8
8	7339	21.0	281.8	7329.59	102.27	-45.48	60.00	9.2
9	7371	22.6	281.4	7359.30	104.66	-57.13	71.87	5.0
10	7402	21.3	276.7	7388.05	106.50	-68.56	83.45	7.0
11	7434	22.4	279.7	7417.75	108.20	-80.34	95.35	4.9
12	7465	25.8	276.8	7446.05	110.00	-92.87	108.00	11.6
13	7497	30.8	274.3	7474.22	111.44	-107.96	123.15	16.1
14	7529	35.2	273.6	7501.05	112.63	-125.34	140.52	13.8
15	7561	39.1	271.7	7526.55	113.51	-144.64	159.74	12.7
16	7593	43.5	271.3	7550.58	114.06	-165.75	180.70	13.8
17	7625	48.1	266.9	7572.89	113.67	-188.67	203.31	17.4
18	7657	53.3	264.0	7593.16	111.68	-213.34	227.42	17.7
19	7689	56.8	264.5	7611.48	109.05	-239.43	252.85	11.0
20	7721	60.3	266.4	7628.18	106.90	-266.64	279.44	12.1
21	7753	64.2	267.9	7643.08	105.50	-294.92	307.21	12.9
22	7785	68.1	269.7	7656.01	104.89	-324.17	336.06	13.2
23	7817	71.0	271.8	7667.19	105.29	-354.15	365.77	11.0
24	7852	72.4	278.1	7678.19	108.16	-387.23	398.91	17.6
25	7882	73.1	279.7	7687.09	112.59	-415.54	427.56	5.6
26	7913	74.1	279.7	7695.84	117.60	-444.85	457.29	3.2

12051 HWY 105 E. CONROE, TX 77306

Survey Report

MINIMUM CURVATURE CALCULATION

Operator	POGO PRODUCING
Well Name	GAINES "28" FEDERAL 1
Location	EDDY CO., NM
Start Date	4/12/2007
End Date	4/30/2007
Direction	278.44

SUR NUM	MD ft	INC °	AZM °	TVD ft	N-S ft	E-W ft	SECT ft	DLS °/100'
27	7956	77.1	279.4	7706.54	124.51	-485.92	498.93	7.0
28	7967	77.8	279.7	7708.93	126.29	-496.51	509.66	6.9
29	7988	80.5	282.0	7712.88	130.18	-516.76	530.27	16.8
30	7998	81.6	283.2	7714.43	132.33	-526.40	540.12	16.2
31	8008	82.8	283.8	7715.79	134.65	-536.03	549.99	13.4
32	8020	84.5	284.2	7717.12	137.53	-547.60	561.86	14.5
33	8050	90.5	286.1	7718.43	145.36	-576.52	591.61	21.0
34	8082	93.3	286.3	7717.37	154.28	-607.23	623.30	8.8
35	8114	93.2	285.1	7715.55	162.93	-637.98	654.99	3.8
36	8146	93.5	284.8	7713.68	171.17	-668.85	686.73	1.3
37	8178	93.4	285.2	7711.76	179.44	-699.70	718.46	1.3
38	8210	93.5	285.4	7709.83	187.86	-730.51	750.17	0.7
39	8242	93.4	284.6	7707.91	196.13	-761.36	781.91	2.5
40	8306	93.2	283.5	7704.22	211.64	-823.35	845.49	1.7
41	8338	92.9	282.4	7702.52	218.80	-854.49	877.35	3.6
42	8402	92.8	281.3	7699.34	231.93	-917.04	941.15	1.7
43	8465	94.1	280.4	7695.54	243.77	-978.80	1003.98	2.5
44	8530	94.5	280.2	7690.67	255.36	-1042.58	1068.76	0.7
45	8593	94.0	280.1	7686.00	266.43	-1104.42	1131.56	0.8
46	8658	93.8	279.8	7681.58	277.63	-1168.29	1196.39	0.6
47	8720	93.6	278.8	7677.58	287.63	-1229.35	1258.25	1.6
48	8784	93.5	278.5	7673.62	297.24	-1292.50	1322.13	0.5
49	8848	93.7	278.9	7669.60	306.90	-1355.64	1386.00	0.7
50	8912	93.5	278.5	7665.58	316.56	-1418.78	1449.88	0.7
51	8944	94.2	279.7	7663.43	321.61	-1450.30	1481.80	4.3
52	9008	94.0	279.1	7658.86	332.04	-1513.28	1545.63	1.0
53	9072	92.1	277.4	7655.45	341.21	-1576.52	1609.53	4.0

12051 HWY 105 E. CONROE, TX 77306

Survey Report

MINIMUM CURVATURE CALCULATION

Operator	POGO PRODUCING
Well Name	GAINES "28" FEDERAL 1
Location	EDDY CO., NM
Start Date	4/12/2007
End Date	4/30/2007
Direction	278.44

TEAM Drilling Systems, Inc.

SUR NUM	MD ft	INC °	AZM °	TVD ft	N-S ft	E-W ft	SECT ft	DLS °/100'
54	9136	92.0	276.3	7653.16	348.83	-1640.03	1673.46	1.7
55	9200	92.4	276.2	7650.70	355.80	-1703.60	1737.37	0.6
56	9263	91.7	274.7	7648.45	361.78	-1766.27	1800.24	2.6
57	9327	92.1	275.1	7646.33	367.24	-1830.00	1864.08	0.9
58	9391	91.9	274.3	7644.09	372.48	-1893.75	1927.91	1.3
59	9455	91.2	274.4	7642.36	377.33	-1957.54	1991.72	1.1
60	9519	91.5	275.1	7640.86	382.63	-2021.30	2055.57	1.2
61	9583	91.6	273.7	7639.12	387.54	-2085.09	2119.39	2.2
62	9647	91.8	274.4	7637.23	392.06	-2148.90	2183.17	1.1
63	9679	91.3	273.9	7636.36	394.37	-2180.80	2215.07	2.2
64	9743	90.5	272.4	7635.35	397.89	-2244.70	2278.79	2.7
65	9807	90.6	272.1	7634.74	400.40	-2308.64	2342.41	0.5
66	9871	91.6	272.2	7633.51	402.80	-2372.59	2406.01	1.6
67	9934	92.8	274.0	7631.09	406.21	-2435.44	2468.69	3.4
68	9998	92.0	272.5	7628.41	409.83	-2499.28	2532.37	2.7
69	10061	92.0	272.1	7626.21	412.36	-2562.19	2594.97	0.6
70	10126	90.7	271.8	7624.68	414.57	-2627.14	2659.53	2.1
71	10190	91.6	273.9	7623.40	417.75	-2691.04	2723.21	3.6
72	10253	91.4	273.3	7621.75	421.70	-2753.89	2785.97	1.0
73	10317	91.3	273.0	7620.24	425.22	-2817.78	2849.68	0.5
74	10381	92.0	273.7	7618.40	428.96	-2881.64	2913.40	1.5
75	10445	90.7	273.1	7616.89	432.75	-2945.51	2977.13	2.2
76	10490	90.9	273.2	7616.26	435.22	-2990.44	3021.93	0.5

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