Form 3160-5
(April 2004)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCT 03 2007
OCD-ARTESIA

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-86024

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

CONFIDENTIAL

8. Well Name and No.
Cypress 34 Federal #3

2. Name of Operator
Pogo Producing Company

9. API Well No.
30-015-35692

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

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

10. Field and Pool, or Exploratory Area
Cedar Canyon Bone Spring

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
2100' FSL & 1650' FWL, Section 34, T23S, R29E

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 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 3000'. TD reached @ 23:30 hrs 07/27/07. Ran 68 jts 9-5/8" 36# J-55 LT&C csg. Cmt'd w/ 900 sks 35:65 POZ followed by 200 sks Cl "C" + 1% CaCl2 @ 14.1 ppg. Plug down @ 18:00 hrs 07/28/07. Circ 179 sks to surface. WOC 24 hrs. Make cut-off. Install WH. NU BOP & test to 3000# ok. Test csg to 1500# for 30 mins.

TD & Production Csg – Drld 8-1/2" hole to 7410'. TD reached @ 21:30 hrs 08/04/07. Logged well w/ Halliburton. Cont drilling 8-1/2" – 7-7/8" hole w/ directional tools to 11,065'. TD reached @ 06:00 hrs 08/24/07. Ran 268 jts 5-1/2" 17# N-80 & L-80 BT&C & LT&C csg. Cmt'd 1st stage w/ 1300 sks Cl C. Circ 59 sks to surface. Cmt'd 2nd stage w/ 600 sks Cl C. Circ 40 sks to surface. Cmt'd 3rd stage w/ 325 sks 35:65 POZ C followed by 100 sks Cl C + 1% CaCl2. Circ 5 sks to surface. Test csg to 1000# for 30 mins. CBL ran 09/02/07.

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

Signature — Date 09/25/07

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
30-015-35692	11520	Cedar Canyon Bone Spring

[4] Property Code	[5] Property Name	[6] Well Number
35899	Cypress 34 Federal CONFIDENTIAL	3

[7] OGRID No.	[8] Operator Name	[9] Elevation
017891	Pogo Producing Company	3035'

[10] Surface Location

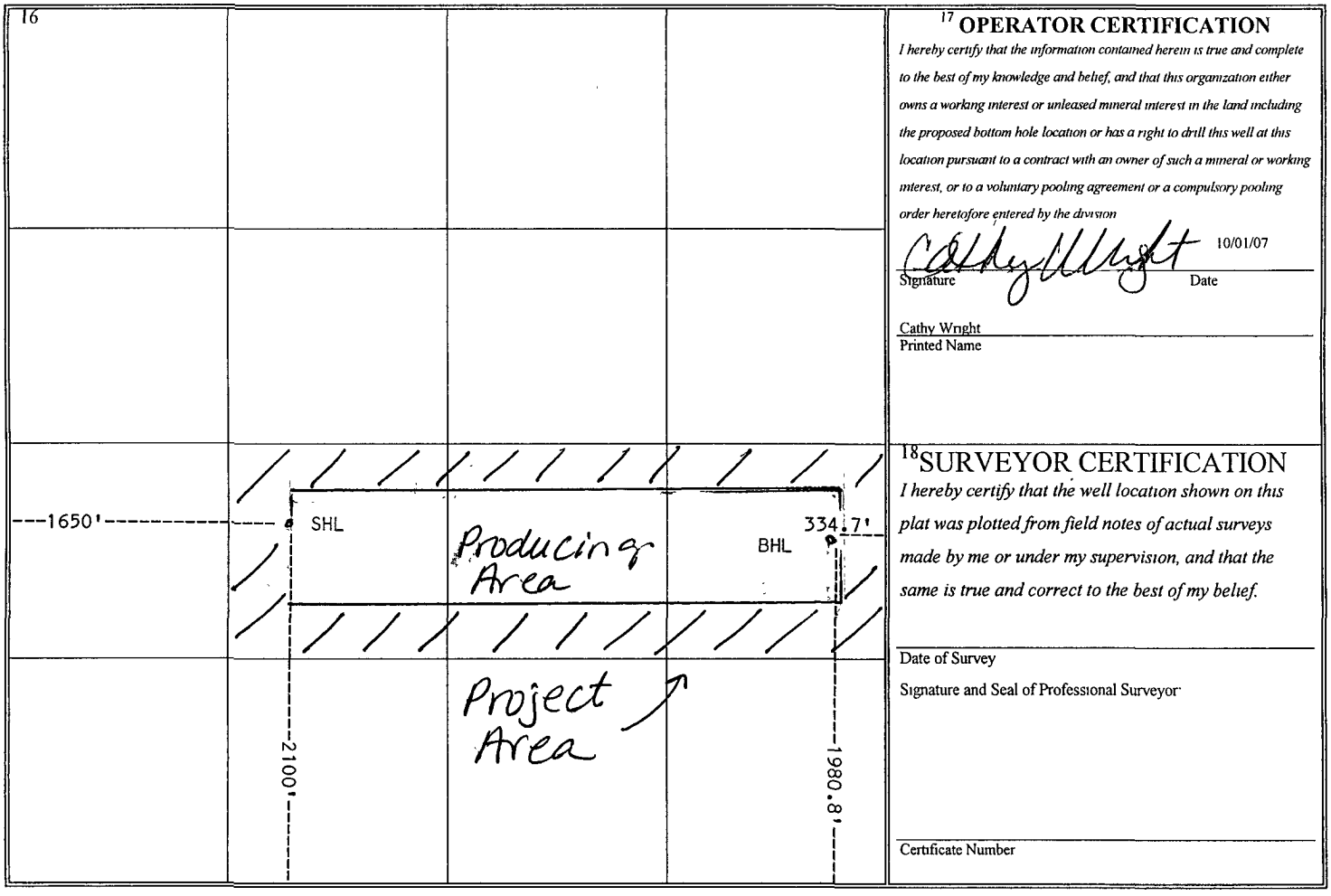
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	34	23S	29E		2100	South	1650	West	Eddy

[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
I	34	23S	29E		1980.8	South	334.7	East	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 10/01/07
Signature Date

Cathy Wright
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

OPERATOR	POGO PRODUCING CO.	078-0053
WELL/LEASE	CYPRESS 34 FED. 3H	
COUNTY	EDDY	

STATE OF NEW MEXICO
DEVIATION REPORT

163	1.25
307	0.75
498	0.50
798	2.00
957	0.75
1,276	2.00
1,437	2.00
1,628	2.25
1,787	2.00
2,012	1.25
2,268	1.75
2,429	1.00
2,588	0.50
2,808	1.00
2,969	1.25
3,350	1.00
3,668	1.00
4,019	0.50
4,115	0.75
4,435	0.75
4,755	1.00
5,074	1.25
5,396	1.00
5,715	0.75
6,003	0.75
6,152	0.75
6,481	0.75
6,800	0.75
7,151	2.25
7,410	2.25

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BY: Steve Moore

STATE OF TEXAS

COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me on August 31, 2007, by Steve Moore on behalf of Patterson-UTI Drilling Company LLC.

Joni D. Hodges
Notary Public for Midland County, Texas
My Commission Expires: 4/11/11

JONI D. HODGES
Notary Public
STATE OF TEXAS
My Commission
Expires 04/11/2011

LEAM Drilling Systems, Inc.
Survey Report - Geographic

Company:	POGO PRODUCING	**Date:** 9/25/2007	**Time:** 15:20:15	**Page:**	1
Field:	Eddy County, New Mexico (NAD 83)	**Co-ordinate(NE) Reference:**	Well: #3H, Grid North		
Site:	Cypress "34" Federal	**Vertical (TVD) Reference:**	SITE 0.0		
Well:	#3H	**Section (VS) Reference:**	Well (0.00N,0.00E,92.08Azi)		
Wellpath:	OH	**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: Cypress "34" Federal
2100' FSL, 1650' FWL
Sec.34, Town 23S Range 29E

Site Position:			**Northing:**	458435.49 ft	**Latitude:**	32	15	35.300	N
From:	Geographic		**Easting:**	651880.57 ft	**Longitude:**	103	58	32.600	W
Position Uncertainty:		0.00 ft			**North Reference:**			Grid	
Ground Level:		0.00 ft			**Grid Convergence:**			0.19	deg

Well: #3H **Slot Name:**

Well Position:	+N/-S	0.00 ft	**Northing:**	458435.49 ft	**Latitude:**	32	15	35.300	N
	+E/-W	0.00 ft	**Easting :**	651880.57 ft	**Longitude:**	103	58	32.600	W
Position Uncertainty:		0.00 ft							

Wellpath: OH

			Drilled From:	Surface	
			Tie-on Depth:	0.00	ft
Current Datum:	SITE	**Height** 0.00 ft	**Above System Datum:**	Mean Sea Level	
Magnetic Data:	8/7/2007		**Declination:**	8.23	deg
Field Strength:	49028 nT		**Mag Dip Angle:**	60.25	deg

Vertical Section: Depth From (TVD) ft	+N/-S ft	+E/-W ft	Direction deg
0.00	0.00	0.00	92.08

Survey Program for Definitive Wellpath
Date: 9/25/2007 **Validated:** No **Version:** 2

Actual From ft	To ft	Survey	Toolcode	Tool Name
100.00	7258.00	Survey #1 (100.00-7258.00)	Gyroscope	Gyroscope
7338.00	11015.00	Survey #2 (7338.00-11015.00)	MWD	Std MWD
11045.00	11045.00	Survey #3 (11045.00-11045.00)	Project	Projection

CONFIDENTIAL

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<--- Latitude ---> Deg	Min	Sec		<--- Longitude ---> Deg	Min	Sec	
0.00	0.00	0.00	0.00	0.00	0.00	458435.49	651880.57	32	15	35.300	N	103	58	32.600	W
100.00	0.16	173.45	100.00	-0.14	0.02	458435.35	651880.58	32	15	35.299	N	103	58	32.600	W
200.00	0.45	193.83	200.00	-0.66	-0.06	458434.83	651880.50	32	15	35.293	N	103	58	32.601	W
300.00	0.61	187.83	299.99	-1.57	-0.23	458433.92	651880.34	32	15	35.284	N	103	58	32.603	W
400.00	0.58	178.55	399.99	-2.60	-0.29	458432.89	651880.28	32	15	35.274	N	103	58	32.603	W
500.00	0.63	166.46	499.98	-3.64	-0.15	458431.85	651880.42	32	15	35.264	N	103	58	32.602	W
600.00	0.97	132.26	599.97	-4.74	0.61	458430.74	651881.17	32	15	35.253	N	103	58	32.593	W
700.00	1.23	132.56	699.96	-6.04	2.03	458429.45	651882.59	32	15	35.240	N	103	58	32.577	W
800.00	1.23	130.25	799.93	-7.46	3.64	458428.03	651884.20	32	15	35.226	N	103	58	32.558	W
900.00	1.25	132.90	899.91	-8.90	5.25	458426.59	651885.82	32	15	35.212	N	103	58	32.539	W
1000.00	1.10	141.76	999.89	-10.39	6.65	458425.10	651887.21	32	15	35.197	N	103	58	32.523	W
1100.00	1.18	153.42	1099.87	-12.07	7.70	458423.42	651888.27	32	15	35.180	N	103	58	32.511	W
1200.00	1.13	174.28	1199.85	-13.97	8.26	458421.52	651888.83	32	15	35.161	N	103	58	32.504	W
1300.00	1.41	191.27	1299.82	-16.16	8.12	458419.33	651888.68	32	15	35.140	N	103	58	32.506	W
1400.00	1.68	197.16	1399.79	-18.76	7.45	458416.72	651888.01	32	15	35.114	N	103	58	32.514	W
1500.00	2.14	203.82	1499.73	-21.87	6.26	458413.62	651886.82	32	15	35.083	N	103	58	32.528	W
1600.00	2.05	191.16	1599.67	-25.34	5.16	458410.15	651885.72	32	15	35.049	N	103	58	32.541	W
1700.00	1.45	186.44	1699.62	-28.35	4.67	458407.14	651885.24	32	15	35.019	N	103	58	32.547	W
1800.00	1.11	193.65	1799.59	-30.55	4.30	458404.94	651884.87	32	15	34.998	N	103	58	32.551	W
1900.00	0.95	209.40	1899.58	-32.21	3.66	458403.28	651884.23	32	15	34.981	N	103	58	32.559	W

LEAM Drilling Systems, Inc.

Survey Report - Geographic

Company:	POGO PRODUCING	**Date:** 9/25/2007	**Time:** 15:20:15	**Page:**	2
Field:	Eddy County, New Mexico (NAD 83)	**Co-ordinate(NE) Reference:**	Well: #3H, Grid North		
Site:	Cypress "34" Federal	**Vertical (TVD) Reference:**	SITE 0.0		
Well:	#3H	**Section (VS) Reference:**	Well (0.00N,0.00E,92.08Azi)		
Wellpath:	OH	**Survey Calculation Method:**	Minimum Curvature	**Db:**	Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<— Latitude —> Deg Min Sec	<— Longitude —> Deg Min Sec
2000.00	0.92	215.48	1999.56	-33.59	2.79	458401.90	651883.36	32 15 34.968 N	103 58 32.569 W
2100.00	0.93	221.64	2099.55	-34.85	1.79	458400.64	651882.35	32 15 34.955 N	103 58 32.581 W
2200.00	1.15	242.84	2199.54	-35.91	0.35	458399.58	651880.92	32 15 34.945 N	103 58 32.597 W
2300.00	0.76	294.90	2299.52	-36.09	-1.14	458399.40	651879.42	32 15 34.943 N	103 58 32.615 W
2400.00	0.17	47.63	2399.52	-35.71	-1.63	458399.78	651878.93	32 15 34.947 N	103 58 32.620 W
2500.00	0.29	86.45	2499.52	-35.59	-1.27	458399.89	651879.30	32 15 34.948 N	103 58 32.616 W
2600.00	0.55	79.86	2599.52	-35.49	-0.54	458399.99	651880.02	32 15 34.949 N	103 58 32.608 W
2700.00	0.78	108.20	2699.51	-35.62	0.57	458399.87	651881.14	32 15 34.947 N	103 58 32.595 W
2800.00	1.00	113.46	2799.50	-36.18	2.02	458399.31	651882.59	32 15 34.942 N	103 58 32.578 W
2900.00	1.08	112.99	2899.48	-36.90	3.69	458398.59	651884.25	32 15 34.935 N	103 58 32.558 W
3000.00	1.00	110.69	2999.46	-37.57	5.37	458397.91	651885.94	32 15 34.928 N	103 58 32.539 W
3100.00	0.97	109.20	3099.45	-38.16	6.99	458397.33	651887.55	32 15 34.922 N	103 58 32.520 W
3200.00	0.81	117.19	3199.44	-38.76	8.42	458396.73	651888.98	32 15 34.916 N	103 58 32.503 W
3300.00	0.80	113.61	3299.43	-39.36	9.69	458396.12	651890.25	32 15 34.910 N	103 58 32.489 W
3400.00	0.78	117.22	3399.42	-39.96	10.93	458395.53	651891.50	32 15 34.904 N	103 58 32.474 W
3500.00	0.56	117.43	3499.41	-40.49	11.97	458395.00	651892.53	32 15 34.899 N	103 58 32.462 W
3600.00	0.37	106.87	3599.41	-40.81	12.71	458394.68	651893.28	32 15 34.896 N	103 58 32.454 W
3700.00	0.36	103.62	3699.41	-40.98	13.33	458394.51	651893.89	32 15 34.894 N	103 58 32.446 W
3800.00	0.21	78.34	3799.41	-41.02	13.81	458394.47	651894.38	32 15 34.894 N	103 58 32.441 W
3900.00	0.26	87.39	3899.40	-40.97	14.22	458394.52	651894.78	32 15 34.894 N	103 58 32.436 W
4000.00	0.17	29.40	3999.40	-40.83	14.52	458394.66	651895.08	32 15 34.895 N	103 58 32.433 W
4100.00	0.11	26.71	4099.40	-40.61	14.63	458394.87	651895.20	32 15 34.898 N	103 58 32.431 W
4200.00	0.19	345.23	4199.40	-40.37	14.63	458395.12	651895.20	32 15 34.900 N	103 58 32.431 W
4300.00	0.19	353.44	4299.40	-40.04	14.57	458395.45	651895.14	32 15 34.903 N	103 58 32.432 W
4400.00	0.24	357.58	4399.40	-39.67	14.54	458395.82	651895.11	32 15 34.907 N	103 58 32.432 W
4500.00	0.42	349.31	4499.40	-39.10	14.47	458396.39	651895.03	32 15 34.913 N	103 58 32.433 W
4600.00	0.39	323.52	4599.40	-38.46	14.20	458397.02	651894.76	32 15 34.919 N	103 58 32.436 W
4700.00	0.49	317.53	4699.39	-37.88	13.71	458397.61	651894.27	32 15 34.925 N	103 58 32.442 W
4800.00	0.47	316.55	4799.39	-37.26	13.14	458398.22	651893.70	32 15 34.931 N	103 58 32.448 W
4900.00	0.49	315.72	4899.39	-36.66	12.56	458398.83	651893.12	32 15 34.937 N	103 58 32.455 W
5000.00	0.48	314.54	4999.38	-36.06	11.96	458399.43	651892.52	32 15 34.943 N	103 58 32.462 W
5100.00	0.48	303.73	5099.38	-35.53	11.31	458399.96	651891.88	32 15 34.948 N	103 58 32.470 W
5200.00	0.52	289.30	5199.38	-35.15	10.53	458400.34	651891.10	32 15 34.952 N	103 58 32.479 W
5300.00	0.65	267.69	5299.37	-35.02	9.54	458400.46	651890.10	32 15 34.953 N	103 58 32.490 W
5400.00	0.61	273.20	5399.37	-35.02	8.44	458400.47	651889.01	32 15 34.953 N	103 58 32.503 W
5500.00	0.67	273.45	5499.36	-34.95	7.33	458400.54	651887.89	32 15 34.954 N	103 58 32.516 W
5600.00	0.54	277.75	5599.35	-34.85	6.28	458400.64	651886.84	32 15 34.955 N	103 58 32.528 W
5700.00	0.57	271.95	5699.35	-34.77	5.31	458400.72	651885.88	32 15 34.956 N	103 58 32.539 W
5800.00	0.65	263.60	5799.34	-34.82	4.25	458400.67	651884.82	32 15 34.955 N	103 58 32.552 W
5900.00	0.74	264.60	5899.34	-34.94	3.04	458400.55	651883.61	32 15 34.954 N	103 58 32.566 W
6000.00	0.73	253.45	5999.33	-35.18	1.79	458400.30	651882.36	32 15 34.952 N	103 58 32.581 W
6100.00	0.63	245.21	6099.32	-35.60	0.68	458399.89	651881.25	32 15 34.948 N	103 58 32.593 W
6200.00	0.60	242.10	6199.32	-36.07	-0.28	458399.42	651880.28	32 15 34.943 N	103 58 32.605 W
6300.00	0.58	236.13	6299.31	-36.60	-1.16	458398.89	651879.40	32 15 34.938 N	103 58 32.615 W
6400.00	0.61	232.87	6399.30	-37.20	-2.01	458398.29	651878.56	32 15 34.932 N	103 58 32.625 W
6500.00	0.64	239.83	6499.30	-37.80	-2.92	458397.68	651877.65	32 15 34.926 N	103 58 32.635 W
6600.00	0.74	238.63	6599.29	-38.42	-3.95	458397.07	651876.62	32 15 34.920 N	103 58 32.647 W
6700.00	0.94	243.47	6699.28	-39.12	-5.24	458396.36	651875.33	32 15 34.913 N	103 58 32.662 W
6800.00	0.94	239.20	6799.27	-39.91	-6.67	458395.58	651873.89	32 15 34.905 N	103 58 32.679 W
6900.00	0.91	224.64	6899.25	-40.90	-7.94	458394.59	651872.63	32 15 34.896 N	103 58 32.694 W
7000.00	1.28	237.19	6999.24	-42.07	-9.43	458393.42	651871.13	32 15 34.884 N	103 58 32.711 W
7100.00	1.50	263.43	7099.21	-42.82	-11.67	458392.67	651868.89	32 15 34.877 N	103 58 32.738 W
7200.00	2.41	285.47	7199.15	-42.41	-15.00	458393.08	651865.57	32 15 34.881 N	103 58 32.776 W

LEAM Drilling Systems, Inc.

Survey Report - Geographic

Company:	POGO PRODUCING	**Date:** 9/25/2007	**Time:** 15:20:15	**Page:**	3
Field:	Eddy County, New Mexico (NAD 83)	**Co-ordinate(NE) Reference:**	Well: #3H, Grid North		
Site:	Cypress "34" Federal	**Vertical (TVD) Reference:**	SITE 0.0		
Well:	#3H	**Section (VS) Reference:**	Well (0.00N,0.00E,92.08Azi)		
Wellpath:	OH	**Survey Calculation Method:**	Minimum Curvature	**Db:**	Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<— Latitude —> Deg Min Sec	<— Longitude —> Deg Min Sec
7258.00	2.61	277.47	7257.09	-41.91	-17.48	458393.58	651863.08	32 15 34.886 N	103 58 32.805 W
7338.00	3.30	220.00	7337.00	-43.44	-20.77	458392.05	651859.79	32 15 34.871 N	103 58 32.844 W
7403.00	2.70	188.60	7401.92	-46.39	-22.20	458389.10	651858.36	32 15 34.842 N	103 58 32.860 W
7433.00	2.80	142.30	7431.89	-47.67	-21.86	458387.82	651858.71	32 15 34.829 N	103 58 32.856 W
7448.00	6.60	115.10	7446.84	-48.32	-20.85	458387.17	651859.71	32 15 34.823 N	103 58 32.845 W
7465.00	6.30	112.80	7463.73	-49.10	-19.11	458386.39	651861.46	32 15 34.815 N	103 58 32.824 W
7497.00	7.50	107.00	7495.50	-50.39	-15.49	458385.10	651865.07	32 15 34.802 N	103 58 32.782 W
7527.00	9.10	104.70	7525.18	-51.56	-11.33	458383.92	651869.24	32 15 34.790 N	103 58 32.734 W
7561.00	11.70	101.00	7558.62	-52.90	-5.34	458382.58	651875.22	32 15 34.777 N	103 58 32.664 W
7593.00	13.80	99.30	7589.83	-54.14	1.61	458381.35	651882.18	32 15 34.764 N	103 58 32.583 W
7605.00	14.50	98.00	7601.46	-54.58	4.51	458380.91	651885.08	32 15 34.760 N	103 58 32.550 W
7620.00	15.50	95.80	7615.95	-55.04	8.37	458380.44	651888.93	32 15 34.755 N	103 58 32.505 W
7645.00	17.50	95.40	7639.92	-55.73	15.43	458379.75	651896.00	32 15 34.748 N	103 58 32.422 W
7677.00	21.00	92.80	7670.13	-56.47	25.95	458379.02	651906.52	32 15 34.740 N	103 58 32.300 W
7709.00	25.30	92.80	7699.55	-57.08	38.51	458378.41	651919.08	32 15 34.734 N	103 58 32.154 W
7741.00	30.30	94.40	7727.84	-58.04	53.40	458377.45	651933.97	32 15 34.724 N	103 58 31.980 W
7773.00	35.60	94.20	7754.69	-59.34	70.75	458376.15	651951.32	32 15 34.710 N	103 58 31.778 W
7805.00	41.10	91.50	7779.77	-60.30	90.57	458375.19	651971.14	32 15 34.700 N	103 58 31.548 W
7837.00	46.30	89.10	7802.90	-60.39	112.67	458375.10	651993.23	32 15 34.699 N	103 58 31.290 W
7869.00	52.20	90.30	7823.78	-60.27	136.90	458375.21	652017.47	32 15 34.699 N	103 58 31.008 W
7900.00	59.10	90.50	7841.26	-60.46	162.48	458375.03	652043.04	32 15 34.696 N	103 58 30.710 W
7933.00	66.30	88.70	7856.39	-60.24	191.78	458375.25	652072.35	32 15 34.698 N	103 58 30.369 W
7965.00	71.00	89.90	7868.04	-59.88	221.57	458375.61	652102.14	32 15 34.700 N	103 58 30.022 W
7997.00	74.70	91.40	7877.47	-60.23	252.14	458375.26	652132.71	32 15 34.696 N	103 58 29.666 W
8029.00	78.20	91.90	7884.97	-61.12	283.23	458374.36	652163.80	32 15 34.686 N	103 58 29.304 W
8061.00	80.30	91.90	7890.94	-62.17	314.65	458373.32	652195.22	32 15 34.674 N	103 58 28.938 W
8092.00	84.00	92.20	7895.17	-63.27	345.34	458372.22	652225.90	32 15 34.663 N	103 58 28.581 W
8126.00	87.40	91.70	7897.72	-64.42	379.22	458371.07	652259.78	32 15 34.650 N	103 58 28.186 W
8158.00	88.40	91.50	7898.89	-65.31	411.18	458370.18	652291.75	32 15 34.640 N	103 58 27.814 W
8190.00	88.00	91.70	7899.90	-66.20	443.15	458369.28	652323.72	32 15 34.630 N	103 58 27.442 W
8222.00	87.90	92.20	7901.04	-67.29	475.11	458368.20	652355.68	32 15 34.618 N	103 58 27.069 W
8254.00	89.10	92.10	7901.88	-68.49	507.08	458367.00	652387.65	32 15 34.605 N	103 58 26.697 W
8284.00	89.80	91.40	7902.17	-69.41	537.06	458366.08	652417.63	32 15 34.595 N	103 58 26 348 W
8316.00	89.20	91.40	7902.45	-70.19	569.05	458365.30	652449.62	32 15 34.587 N	103 58 25.976 W
8348.00	89.00	91.40	7902.95	-70.97	601.04	458364.52	652481.61	32 15 34.578 N	103 58 25.603 W
8380.00	88.70	91.00	7903.59	-71.64	633.03	458363.85	652513.59	32 15 34.570 N	103 58 25.231 W
8412.00	88.60	93.30	7904.35	-72.84	664.99	458362.65	652545.56	32 15 34.557 N	103 58 24.858 W
8444.00	89.90	92.90	7904.76	-74.57	696.94	458360.92	652577.51	32 15 34.539 N	103 58 24.486 W
8476.00	90.00	92.80	7904.79	-76.16	728.90	458359.32	652609.47	32 15 34.522 N	103 58 24.114 W
8507.00	89.70	92.90	7904.87	-77.70	759.86	458357.78	652640.43	32 15 34.506 N	103 58 23.754 W
8539.00	90.30	91.20	7904.87	-78.85	791.84	458356.64	652672.41	32 15 34.494 N	103 58 23.381 W
8571 00	90.50	91.20	7904.65	-79.52	823.84	458355.97	652704.40	32 15 34.486 N	103 58 23.009 W
8603.00	90.50	91.20	7904.37	-80.19	855.83	458355.30	652736.39	32 15 34.478 N	103 58 22.636 W
8635.00	90.50	91.20	7904.09	-80.86	887.82	458354.63	652768.38	32 15 34.470 N	103 58 22.264 W
8667.00	90.40	91.40	7903.84	-81.59	919.81	458353.90	652800.37	32 15 34.462 N	103 58 21.891 W
8699.00	90.00	90.80	7903.73	-82.20	951.80	458353.29	652832.37	32 15 34.455 N	103 58 21.518 W
8732.00	89.40	89.60	7903.90	-82.32	984.80	458353.17	652865.37	32 15 34.453 N	103 58 21.134 W
8764.00	89.40	89.40	7904.24	-82.04	1016.80	458353.45	652897.36	32 15 34.455 N	103 58 20.762 W
8796.00	89.30	89.40	7904.60	-81.70	1048.80	458353.79	652929.36	32 15 34.457 N	103 58 20.389 W
8828.00	89.40	89.30	7904.96	-81.34	1080.79	458354.15	652961.36	32 15 34.459 N	103 58 20.016 W
8860.00	89.30	89.10	7905.33	-80.89	1112.79	458354.60	652993.35	32 15 34.463 N	103 58 19.644 W
8892.00	89.20	88.90	7905.74	-80.33	1144.78	458355.15	653025.34	32 15 34.467 N	103 58 19.271 W

LEAM Drilling Systems, Inc.

Survey Report - Geographic

Company:	POGO PRODUCING	**Date:** 9/25/2007	**Time:** 15:20:15	**Page:**	4
Field:	Eddy County, New Mexico (NAD 83)	**Co-ordinate(NE) Reference:**	Well: #3H, Grid North		
Site:	Cypress "34" Federal	**Vertical (TVD) Reference:**	SITE 0.0		
Well:	#3H	**Section (VS) Reference:**	Well (0.00N,0.00E,92.08Azi)		
Wellpath:	OH	**Survey Calculation Method:**	Minimum Curvature	**Db:**	Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<— Latitude —> Deg	Min	Sec		<— Longitude —> Deg	Min	Sec	
8924.00	89.30	88.70	7906.16	-79.66	1176.77	458355.82	653057.33	32	15	34.473	N	103	58	18.898	W
8956.00	89.40	89.80	7906.53	-79.24	1208.76	458356.24	653089.33	32	15	34.476	N	103	58	18.526	W
8988.00	89.50	89.80	7906.83	-79.13	1240.76	458356.36	653121.33	32	15	34.476	N	103	58	18.153	W
9020.00	89.70	89.80	7907.06	-79.02	1272.76	458356.47	653153.33	32	15	34.476	N	103	58	17.780	W
9052.00	89.60	89.80	7907.25	-78.91	1304.76	458356.58	653185.32	32	15	34.476	N	103	58	17.408	W
9084.00	89.80	89.40	7907.42	-78.69	1336.76	458356.80	653217.32	32	15	34.477	N	103	58	17.035	W
9116.00	89.70	89.10	7907.56	-78.27	1368.76	458357.22	653249.32	32	15	34.480	N	103	58	16.662	W
9148.00	89.60	89.10	7907.76	-77.76	1400.75	458357.72	653281.32	32	15	34.484	N	103	58	16.290	W
9180.00	89.70	88.70	7907.95	-77.15	1432.74	458358.34	653313.31	32	15	34.489	N	103	58	15.917	W
9212.00	89.80	88.70	7908.09	-76.42	1464.74	458359.06	653345.30	32	15	34.495	N	103	58	15.545	W
9243.00	89.60	88.70	7908.25	-75.72	1495.73	458359.77	653376.29	32	15	34.501	N	103	58	15.184	W
9275.00	89.60	88.40	7908.48	-74.91	1527.72	458360.58	653408.28	32	15	34.508	N	103	58	14.811	W
9307.00	89.50	88.60	7908.73	-74.07	1559.70	458361.41	653440.27	32	15	34.515	N	103	58	14.439	W
9339.00	89.30	88.40	7909.06	-73.24	1591.69	458362.25	653472.26	32	15	34.522	N	103	58	14.066	W
9371.00	89.40	87.70	7909.43	-72.15	1623.67	458363.34	653504.24	32	15	34.532	N	103	58	13.693	W
9403.00	88.90	90.70	7909.90	-71.70	1655.66	458363.79	653536.23	32	15	34.535	N	103	58	13.321	W
9435.00	88.60	91.50	7910.60	-72.31	1687.65	458363.17	653568.21	32	15	34.528	N	103	58	12.948	W
9467.00	88.50	91.50	7911.41	-73.15	1719.63	458362.34	653600.19	32	15	34.519	N	103	58	12.576	W
9499.00	90.00	93.30	7911.83	-74.49	1751.59	458361.00	653632.16	32	15	34.505	N	103	58	12.204	W
9531.00	90.00	92.80	7911.83	-76.19	1783.55	458359.29	653664.11	32	15	34.487	N	103	58	11.832	W
9563.00	89.90	92.40	7911.85	-77.65	1815.51	458357.84	653696.08	32	15	34.471	N	103	58	11.459	W
9593.00	89.70	92.60	7911.96	-78.95	1845.48	458356.53	653726.05	32	15	34.457	N	103	58	11.110	W
9625.00	89.90	92.60	7912.07	-80.41	1877.45	458355.08	653758.02	32	15	34.442	N	103	58	10.738	W
9657.00	89.60	92.40	7912.21	-81.80	1909.42	458353.69	653789.99	32	15	34.427	N	103	58	10.366	W
9688.00	89.00	91.50	7912.59	-82.86	1940.40	458352.63	653820.97	32	15	34.416	N	103	58	10.005	W
9720.00	89.20	91.40	7913.09	-83.67	1972.39	458351.82	653852.95	32	15	34.406	N	103	58	9.633	W
9752.00	89.00	91.50	7913.59	-84.48	2004.37	458351.01	653884.94	32	15	34.397	N	103	58	9.260	W
9784.00	88.90	91.50	7914.18	-85.31	2036.36	458350.17	653916.92	32	15	34.388	N	103	58	8.888	W
9816.00	88.60	91.50	7914.88	-86.15	2068.34	458349.34	653948.90	32	15	34.379	N	103	58	8.515	W
9848.00	88.40	91.40	7915.72	-86.96	2100.32	458348.53	653980.88	32	15	34.370	N	103	58	8.143	W
9880.00	88.20	91.40	7916.67	-87.74	2132.29	458347.75	654012.86	32	15	34.361	N	103	58	7.771	W
9911.00	88.00	91.40	7917.69	-88.50	2163.27	458346.99	654043.83	32	15	34.352	N	103	58	7.410	W
9943.00	88.10	91.40	7918.78	-89.28	2195.24	458346.21	654075.80	32	15	34.343	N	103	58	7.038	W
9975.00	88.60	91.20	7919.70	-90.01	2227.22	458345.48	654107.78	32	15	34.335	N	103	58	6.665	W
10008.00	88.60	91.20	7920.51	-90.70	2260.20	458344.79	654140.76	32	15	34.327	N	103	58	6.281	W
10040.00	89.20	91.20	7921.13	-91.37	2292.19	458344.12	654172.75	32	15	34.320	N	103	58	5.909	W
10071.00	90.10	92.40	7921.31	-92.34	2323.17	458343.15	654203.73	32	15	34.309	N	103	58	5.548	W
10103.00	90.40	92.40	7921.17	-93.68	2355.14	458341.81	654235.71	32	15	34.294	N	103	58	5.176	W
10135.00	91.30	92.60	7920.70	-95.08	2387.11	458340.41	654267.67	32	15	34.280	N	103	58	4.803	W
10167.00	91.20	92.60	7920.00	-96.53	2419.07	458338.96	654299.63	32	15	34.264	N	103	58	4.431	W
10199.00	91.50	92.80	7919.25	-98.03	2451.02	458337.45	654331.59	32	15	34.248	N	103	58	4.059	W
10231.00	91.90	93.10	7918.30	-99.68	2482.96	458335.81	654363.53	32	15	34.231	N	103	58	3.687	W
10263.00	90.80	89.60	7917.54	-100.43	2514.94	458335.05	654395.51	32	15	34.222	N	103	58	3.315	W
10295.00	90.60	89.60	7917.15	-100.21	2546.94	458335.28	654427.50	32	15	34.223	N	103	58	2.942	W
10327.00	88.40	89.30	7917.43	-99.90	2578.93	458335.58	654459.50	32	15	34.225	N	103	58	2.570	W
10359.00	86.40	88.90	7918.88	-99.40	2610.90	458336.09	654491.46	32	15	34.229	N	103	58	2.197	W
10390.00	84.20	89.40	7921.42	-98.94	2641.79	458336.54	654522.35	32	15	34.233	N	103	58	1.838	W
10422.00	84.20	89.40	7924.66	-98.61	2673.62	458336.88	654554.18	32	15	34.235	N	103	58	1.467	W
10455.00	83.60	91.20	7928.17	-98.78	2706.43	458336.71	654587.00	32	15	34.232	N	103	58	1.085	W
10486.00	83.70	91.40	7931.59	-99.48	2737.23	458336.01	654617.80	32	15	34.224	N	103	58	0.726	W
10518.00	84.20	91.70	7934.97	-100.34	2769.04	458335.15	654649.61	32	15	34.215	N	103	58	0.356	W
10550.00	85.30	92.10	7937.89	-101.40	2800.89	458334.09	654681.46	32	15	34.203	N	103	57	59.985	W
10582.00	86.20	91.90	7940.27	-102.51	2832.78	458332.98	654713.35	32	15	34.191	N	103	57	59.613	W

LEAM Drilling Systems, Inc.
Survey Report - Geographic

Company:	POGO PRODUCING	**Date:** 9/25/2007	**Time:** 15:20:15	**Page:**	5
Field:	Eddy County, New Mexico (NAD 83)	**Co-ordinate(NE) Reference:**	Well: #3H, Grid North		
Site:	Cypress "34" Federal	**Vertical (TVD) Reference:**	SITE 0.0		
Well:	#3H	**Section (VS) Reference:**	Well (0.00N,0.00E,92.08Azi)		
Wellpath:	OH	**Survey Calculation Method:**	Minimum Curvature	**Db:**	Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<— Latitude —> Deg	Min	Sec		<— Longitude —> Deg	Min	Sec	
10613.00	87.30	92.20	7942.02	-103.62	2863.71	458331.87	654744.28	32	15	34.179	N	103	57	59.253	W
10646.00	88.50	92.20	7943.23	-104.88	2896.67	458330.60	654777.23	32	15	34.165	N	103	57	58.869	W
10678.00	88.90	92.20	7943.96	-106.11	2928.63	458329.38	654809.20	32	15	34.152	N	103	57	58.497	W
10710.00	89.10	92.10	7944.52	-107.31	2960.61	458328.18	654841.17	32	15	34.139	N	103	57	58.125	W
10742.00	88.90	91.70	7945.08	-108.37	2992.58	458327.11	654873.15	32	15	34.128	N	103	57	57.753	W
10774.00	88.60	91.90	7945.77	-109.38	3024.56	458326.11	654905.13	32	15	34.117	N	103	57	57.380	W
10806.00	88.20	92.10	7946.67	-110.49	3056.53	458324.99	654937.09	32	15	34.104	N	103	57	57.008	W
10838.00	88.20	91.90	7947.67	-111.61	3088.49	458323.88	654969.06	32	15	34.092	N	103	57	56.636	W
10870.00	88.40	91.90	7948.62	-112.67	3120.46	458322.82	655001.03	32	15	34.081	N	103	57	56.263	W
10902.00	90.00	92.40	7949.07	-113.87	3152.43	458321.62	655033.00	32	15	34.068	N	103	57	55.891	W
10934.00	90.10	92.20	7949.04	-115.16	3184.41	458320.33	655064.97	32	15	34.054	N	103	57	55.519	W
10966.00	89.90	92.10	7949.04	-116.36	3216.39	458319.13	655096.95	32	15	34.041	N	103	57	55.146	W
10997.00	89.90	91.90	7949.09	-117.44	3247.37	458318.05	655127.93	32	15	34.029	N	103	57	54.786	W
11015.00	89.90	92.10	7949.13	-118.07	3265.36	458317.42	655145.92	32	15	34.022	N	103	57	54.576	W
11045.00	89.90	92.10	7949.18	-119.17	3295.34	458316.32	655175.90	32	15	34.011	N	103	57	54.227	W