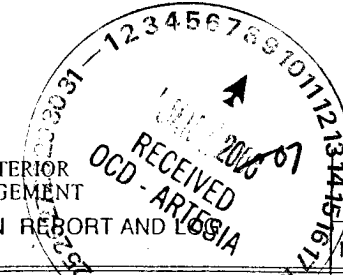


UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

FORM APPROVED
OMB NO. 1004-0137
Expires: March 31, 2007

1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other
b. Type of Completion: ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resrv.
Other _____

2. Name of Operator

Pogo Producing Company

3. Address

P. O. Box 10340, Midland, TX 79702-7340

3a. Phone No. (include area code)

432-685-8100

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

At surface 820' FSL & 990' FWL, Section 22, T24S, R29E

At top prod. interval reported below

At total depth 677' FSL & 2295' FEL, Section 21, T24S, R29E

14. Date Spudded

11/15/06

15. Date T.D. Reached

12/12/06

16. Date Completed

1/1/07

☐ D & A☒ Ready to Prod.

18. Total Depth: MD

10,752

19. Plug Back T.D.: MD

10,694

20. Depth Bridge Plug Set: MD

TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)

DSN/SDL, DLL/MGRD

22. Was well cored? ☒ No ☐ Yes (Submit analysis)Was DST run? ☒ No ☐ Yes (Submit report)Directional Survey? ☐ No ☒ Yes (Submit copy)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17-1/2	13-3/8	48		557		500		surface	
12-1/4	9-5/8	36		2902		1175		1846 FS	
8-1/2	7-7/8	5-1/2	17	10752		2300		1700 FS	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Bone Spring			8110-10,660 (OA)		74	open
B)						
C)						
D)						

26. Perforation Record

27. Acid, Fracture, Treatment, Cement Squeeze, etc.

Depth Interval	Amount and Type of Material
Bone Spring	Acidz w/ 5000 gals 7-1/2% acid
	Frac w/ 389,600# 20/40 sand

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
1/1/07	1/2/07	24	→	565	913	526	41.2		Flowing
Choke Size	Tbg. Press. Flwg. SI	Csg. Press. 900	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
20/64			→				1616:1	Producing	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

*(See instructions and spaces for additional data on page 2)

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

29. Disposition of Gas (Sold, used for fuel, vented, etc.)

Sold

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
Basal Anhydrite	2745				
Delaware Lime	2946				
Bell Canyon	2974				
Cherry Canyon	3829				
Brushy Canyon	5054				
Bone Spring	6706				

32. Additional remarks (include plugging procedure):

33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☒ Electrical/Mechanical Logs (1 full set req'd.) ☐ Geologic Report ☐ DST Report ☒ Directional Survey
☒ Sundry Notice for plugging and cement verification ☐ Core Analysis ☒ Other: C-104 & C-102

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name (please print) Cathy WrightTitle Sr. Eng TechSignature Cathy WrightDate 01/05/07

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.

OPERATOR
WELL/LEASE
COUNTY

Pogo Producing Company
Gaines 22 Fed. #1
Eddy, NM

078-0046

STATE OF NEW MEXICO
DEVIATION REPORT

279	1.00
833	1.00
1,150	1.00
1,524	1.00
1,812	1.00
2,110	2.75
2,260	2.75
2,356	2.75
2,558	2.75
2,686	2.50
2,846	2.00
3,295	0.75
3,772	0.25
4,229	0.50
4,730	1.00
5,188	1.00
5,666	1.00
6,144	1.25
6,657	0.50

RECEIVED

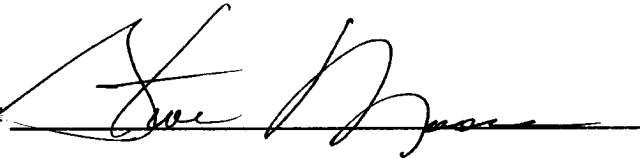
DEC 27 2006

MIDLAND

CONFIDENTIAL

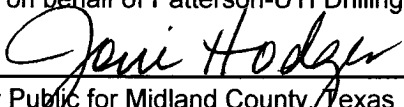
STATE OF TEXAS

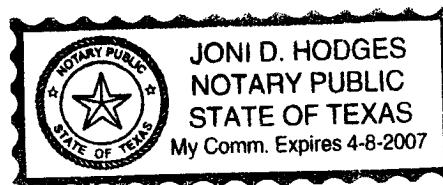
COUNTY OF MIDLAND

BY: 

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

December 19, 2006, by Steve


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



Pathfinder Energy

Survey Report

Company: Pogo
Field: Eddy County, NM NAD-27
Site: Pierce Cossing Bone Spring
Well: Gaines 22 Fed #1
Wellpath: OH

Date: 12/13/2006 Time: 08:04:43 Page: 1
Co-ordinate(NE) Reference: Well: Gaines 22 Fed #1, Grid North
Vertical (TVD) Reference: SITE 2931.0
Section (VS) Reference: Well (0.00N,0.00E,267.22Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Field: Eddy County, NM NAD-27

CONFIDENTIAL

Map System: US State Plane Coordinate System 1927
Geo Datum: NAD27 (Clarke 1866)
Sys Datum: Mean Sea Level

Map Zone: New Mexico, Eastern Zone
Coordinate System: Well Centre
Geomagnetic Model: igrf2005

Site: Pierce Cossing Bone Spring

Site Position:	Northing: 435862.30 ft	Latitude: 32 11 52.084 N	
From: Map	Easting: 610164.70 ft	Longitude: 103 58 37.890 W	
Position Uncertainty: 0.00 ft		North Reference: Grid	
Ground Level: 2931.00 ft		Grid Convergence: 0.19 deg	

Well: Gaines 22 Fed #1

Slot Name:

Well Position: +N/-S 0.00 ft	Northing: 435862.30 ft	Latitude: 32 11 52.084 N	
+E/-W 0.00 ft	Easting: 610164.70 ft	Longitude: 103 58 37.890 W	
Position Uncertainty: 0.00 ft			

Wellpath: OH

Drilled From: Surface
Tie-on Depth: 0.00 ft
Above System Datum: Mean Sea Level
Declination: 8.30 deg
Mag Dip Angle: 60.21 deg
+E/-W Direction
ft deg

Current Datum: SITE
Magnetic Data: 11/29/2006
Field Strength: 49053 nT
Height: 2931.00 ft
Vertical Section: Depth From (TVD)
ft

0.00	0.00	0.00	267.22
------	------	------	--------

Survey: Pathfinder Surveys

Start Date: 12/4/2006

Company: Pathfinder Energy
Tool:

Engineer: Midwellplan
Tied-to: From: Definitive Path

Survey: Pathfinder Surveys

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
6600.00	1.32	235.35	6597.98	-48.10	-29.89	32.18	0.00	0.00	0.00	Tie-In to Gyro
6700.00	1.67	248.05	6697.94	-49.30	-32.19	34.54	0.48	0.35	12.70	
6800.00	3.25	282.33	6797.85	-49.24	-36.31	38.65	2.09	1.58	34.28	
6900.00	3.08	279.78	6897.70	-48.18	-41.73	44.01	0.22	-0.17	-2.55	
7000.00	3.61	285.58	6997.53	-46.88	-47.41	49.62	0.63	0.53	5.80	
7100.00	4.22	267.12	7097.30	-46.22	-54.11	56.29	1.39	0.61	-18.46	KOP @ 7251' MD / 7249'
7164.00	4.31	257.10	7161.13	-46.87	-58.81	61.01	1.17	0.14	-15.66	
7195.00	4.57	258.16	7192.03	-47.39	-61.15	63.38	0.88	0.84	3.42	
7226.00	5.98	260.71	7222.90	-47.90	-63.96	66.20	4.61	4.55	8.23	
7251.19	7.92	261.08	7247.90	-48.38	-66.96	69.23	7.69	7.69	1.47	
7258.00	8.44	261.15	7254.64	-48.53	-67.92	70.19	7.69	7.69	1.04	
7289.00	10.90	262.29	7285.20	-49.27	-73.07	75.38	7.96	7.94	3.68	
7321.00	13.28	263.87	7316.49	-50.07	-79.73	82.06	7.51	7.44	4.94	
7354.00	15.74	264.14	7348.44	-50.94	-87.95	90.31	7.46	7.45	0.82	
7385.00	17.85	264.58	7378.11	-51.81	-96.86	99.26	6.82	6.81	1.42	
7416.00	20.49	264.40	7407.39	-52.79	-107.00	109.43	8.52	8.52	-0.58	
7448.00	23.04	265.45	7437.11	-53.84	-118.81	121.28	8.06	7.97	3.28	
7480.00	25.59	266.77	7466.27	-54.72	-131.96	134.45	8.15	7.97	4.12	
7512.00	28.93	266.86	7494.71	-55.53	-146.59	149.11	10.44	10.44	0.28	
7544.00	32.01	265.98	7522.28	-56.55	-162.78	165.33	9.73	9.62	-2.75	
7576.00	35.53	265.37	7548.88	-57.90	-180.52	183.11	11.05	11.00	-1.91	
7607.00	38.60	263.08	7573.62	-59.79	-199.10	201.76	10.86	9.90	-7.39	
7639.00	42.12	261.23	7598.00	-62.63	-219.62	222.40	11.62	11.00	-5.78	
7670.00	46.43	260.53	7620.19	-66.07	-240.98	243.90	13.99	13.90	-2.26	

Pathfinder Energy

Survey Report

Company: Pogo
Field: Eddy County, NM NAD-27
Site: Pierce Crossing Bone Spring
Well: Gaines 22 Fed #1
Wellpath: OH

Date: 12/13/2006 **Time:** 08:04:43 **Page:** 2
Co-ordinate(NE) Reference: Well: Gaines 22 Fed #1, Grid North
Vertical (TVD) Reference: SITE 2931.0
Section (VS) Reference: Well (0.00N,0.00E,267.22Azi)
Survey Calculation Method: Minimum Curvature **Db:** Sybase

Survey: Pathfinder Surveys

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
7702.00	50.83	260.36	7641.33	-70.05	-264.66	267.74	13.76	13.75	-0.53	
7734.00	55.05	259.92	7660.61	-74.43	-289.81	293.08	13.23	13.19	-1.37	
7766.00	59.97	259.92	7677.80	-79.15	-316.38	319.84	15.37	15.37	0.00	
7799.00	64.81	259.83	7693.09	-84.29	-345.16	348.83	14.67	14.67	-0.27	
7831.00	69.82	259.92	7705.42	-89.48	-374.21	378.11	15.66	15.66	0.28	
7863.00	74.57	259.74	7715.20	-94.86	-404.19	408.31	14.85	14.84	-0.56	
7894.00	79.49	259.74	7722.16	-100.24	-433.91	438.25	15.87	15.87	0.00	
7926.00	85.12	260.71	7726.44	-105.62	-465.15	469.72	17.85	17.59	3.03	
7957.00	88.64	260.53	7728.13	-110.66	-495.68	500.46	11.37	11.35	-0.58	
7989.00	89.43	260.36	7728.67	-115.97	-527.23	532.23	2.53	2.47	-0.53	
8021.00	90.13	260.71	7728.79	-121.23	-558.80	564.01	2.45	2.19	1.09	
8053.00	90.84	261.76	7728.52	-126.11	-590.42	595.84	3.96	2.22	3.28	
8085.00	91.19	262.29	7727.95	-130.55	-622.11	627.70	1.98	1.09	1.66	
8117.00	91.36	262.38	7727.24	-134.81	-653.81	659.58	0.60	0.53	0.28	
8149.00	91.54	262.38	7726.43	-139.06	-685.52	691.45	0.56	0.56	0.00	
8181.00	91.71	262.29	7725.53	-143.32	-717.22	723.32	0.60	0.53	-0.28	
8213.00	91.89	262.99	7724.52	-147.42	-748.94	755.20	2.26	0.56	2.19	
8245.00	92.07	264.49	7723.41	-150.91	-780.73	787.12	4.72	0.56	4.69	
8276.00	92.15	264.66	7722.27	-153.84	-811.57	818.07	0.61	0.26	0.55	
8308.00	92.24	264.40	7721.05	-156.88	-843.40	850.01	0.86	0.28	-0.81	
8340.00	92.33	264.75	7719.77	-159.91	-875.23	881.95	1.13	0.28	1.09	
8372.00	92.15	265.89	7718.52	-162.52	-907.10	913.91	3.60	-0.56	3.56	
8404.00	91.98	266.60	7717.37	-164.61	-939.01	945.88	2.28	-0.53	2.22	
8436.00	91.71	267.48	7716.34	-166.26	-970.95	977.87	2.88	-0.84	2.75	
8468.00	91.63	267.65	7715.40	-167.62	-1002.91	1009.85	0.59	-0.25	0.53	
8500.00	91.54	267.48	7714.52	-168.98	-1034.87	1041.84	0.60	-0.28	-0.53	
8531.00	91.45	268.27	7713.71	-170.13	-1065.84	1072.83	2.56	-0.29	2.55	
8563.00	91.45	268.71	7712.90	-170.97	-1097.82	1104.81	1.37	0.00	1.37	
8595.00	91.89	269.41	7711.97	-171.50	-1129.80	1136.78	2.58	1.37	2.19	
8627.00	91.98	269.76	7710.89	-171.73	-1161.78	1168.73	1.13	0.28	1.09	
8659.00	91.98	270.90	7709.78	-171.54	-1193.76	1200.67	3.56	0.00	3.56	
8691.00	92.07	271.43	7708.65	-170.89	-1225.73	1232.57	1.68	0.28	1.66	
8723.00	92.42	271.61	7707.40	-170.05	-1257.70	1264.46	1.23	1.09	0.56	
8755.00	92.68	271.52	7705.97	-169.17	-1289.65	1296.33	0.86	0.81	-0.28	
8787.00	92.68	270.99	7704.48	-168.47	-1321.61	1328.22	1.65	0.00	-1.66	
8819.00	93.12	271.34	7702.86	-167.82	-1353.56	1360.10	1.76	1.37	1.09	
8851.00	92.86	271.08	7701.19	-167.15	-1385.51	1391.98	1.15	-0.81	-0.81	
8883.00	92.33	270.20	7699.74	-166.79	-1417.48	1423.89	3.21	-1.66	-2.75	
8915.00	92.15	269.50	7698.49	-166.88	-1449.45	1455.83	2.26	-0.56	-2.19	
8947.00	91.71	269.14	7697.41	-167.25	-1481.43	1487.79	1.78	-1.37	-1.12	
9012.00	90.13	270.64	7696.37	-167.38	-1546.42	1552.71	3.35	-2.43	2.31	
9076.00	90.22	270.99	7696.17	-166.47	-1610.41	1616.58	0.56	0.14	0.55	
9140.00	90.04	271.08	7696.03	-165.31	-1674.40	1680.44	0.31	-0.28	0.14	
9203.00	90.13	271.43	7695.93	-163.93	-1737.39	1743.29	0.57	0.14	0.56	
9267.00	90.31	271.34	7695.69	-162.39	-1801.37	1807.12	0.31	0.28	-0.14	
9331.00	90.57	270.82	7695.20	-161.18	-1865.35	1870.97	0.91	0.41	-0.81	
9394.00	90.66	270.82	7694.52	-160.28	-1928.34	1933.84	0.14	0.14	0.00	
9458.00	90.75	270.29	7693.73	-159.66	-1992.34	1997.73	0.84	0.14	-0.83	
9522.00	90.84	269.85	7692.85	-159.58	-2056.33	2061.64	0.70	0.14	-0.69	
9586.00	91.01	269.50	7691.81	-159.94	-2120.32	2125.58	0.61	0.27	-0.55	
9650.00	89.78	271.43	7691.37	-159.42	-2184.31	2189.47	3.58	-1.92	3.02	
9714.00	89.78	271.52	7691.62	-157.78	-2248.29	2253.29	0.14	0.00	0.14	
9778.00	89.87	271.69	7691.81	-155.98	-2312.26	2317.11	0.30	0.14	0.27	

Pathfinder Energy

Survey Report

Company: Pogo
Field: Eddy County, NM NAD-27
Site: Pierce Crossing Bone Spring
Well: Gaines 22 Fed #1
Wellpath: OH

Date: 12/13/2006 **Time:** 08:04:43 **Page:** 3
Co-ordinate(NE) Reference: Well: Gaines 22 Fed #1, Grid North
Vertical (TVD) Reference: SITE 2931.0
Section (VS) Reference: Well (0.00N,0.00E,267.22Azi)
Survey Calculation Method: Minimum Curvature **Db:** Sybase

Survey: Pathfinder Surveys

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
9842.00	89.96	271.17	7691.91	-154.39	-2376.24	2380.93	0.82	0.14	-0.81	
9906.00	89.69	271.96	7692.10	-152.64	-2440.22	2444.75	1.30	-0.42	1.23	
9970.00	89.78	272.13	7692.40	-150.36	-2504.18	2508.52	0.30	0.14	0.27	
10034.00	90.66	272.40	7692.15	-147.83	-2568.13	2572.27	1.44	1.37	0.42	
10099.00	91.63	272.40	7690.85	-145.10	-2633.06	2636.99	1.49	1.49	0.00	
10162.00	92.42	271.96	7688.63	-142.71	-2695.97	2699.72	1.44	1.25	-0.70	
10226.00	92.68	271.34	7685.78	-140.87	-2759.88	2763.46	1.05	0.41	-0.97	
10290.00	92.77	271.26	7682.74	-139.42	-2823.79	2827.23	0.19	0.14	-0.12	
10354.00	93.21	270.82	7679.40	-138.26	-2887.69	2891.00	0.97	0.69	-0.69	
10417.00	92.07	270.29	7676.50	-137.65	-2950.62	2953.83	2.00	-1.81	-0.84	
10481.00	92.07	270.20	7674.19	-137.38	-3014.58	3017.70	0.14	0.00	-0.14	
10545.00	91.71	268.88	7672.08	-137.89	-3078.54	3081.61	2.14	-0.56	-2.06	
10609.00	91.36	268.35	7670.36	-139.44	-3142.50	3145.56	0.99	-0.55	-0.83	
10673.00	91.54	268.53	7668.74	-141.18	-3206.46	3209.53	0.40	0.28	0.28	
10696.00	91.71	268.71	7668.09	-141.73	-3229.44	3232.51	1.08	0.74	0.78	End of Pathfinder MWD @ 10696
10752.00	91.71	268.71	7666.42	-142.99	-3285.40	3288.47	0.00	0.00	0.00	Straightline Projection t

Annotation

MD ft	TVD ft	
6600.00	6597.98	Tie-In to Gyro
7251.19	7247.90	KOP @ 7251' MD / 7249' TVD Build 11.7°/100'
10752.00	7666.42	Straightline Projection to Bit @ 10752'
10696.00	7668.09	End of Pathfinder MWD @ 10696

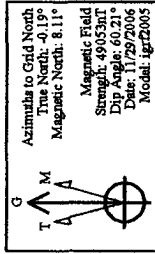


Field: Eddy County, NM NAD-27
Site: Pierce Cossing Bone Spring
Well: Gaines 22 Fed #1
Wellpath: OH
Survey: Pathfinder Surveys

PATHFINDER

Survey: Pathfinder Surveys (Gaines 22 Fed #1/OH)

No	MD	Inc	Az	TVD	+N/-S	+E/-W	DL-@	TFace	VSec
84	10290.00	92.77	271.26	7682.74	-139.42	-2823.79	0.19	-41.60	2827.23
85	10354.00	93.21	270.82	7679.40	-138.26	-2887.69	0.97	-44.95	2891.00
86	10417.00	92.07	270.29	7676.40	-137.65	-2950.62	2.00	-155.08	2953.83
87	10481.00	92.07	270.20	7674.19	-137.38	-3014.58	0.14	-90.00	3017.70
88	10545.00	91.71	268.88	7672.08	-137.89	-3078.54	2.14	-105.24	3081.61
89	10609.00	91.76	268.53	7670.36	-139.44	-3142.50	0.99	-123.44	3145.56
90	10673.00	91.54	268.33	7668.74	-141.18	-3206.46	0.40	-44.95	3209.53
91	10696.00	91.71	268.71	7668.09	-141.73	-3229.44	1.08	-46.62	3232.51
92	10752.00	91.71	268.71	7666.42	-142.99	-3285.40	0.00	0.00	3288.47



SITE DETAILS

Pierce Cossing Bone Spring
Site Centre Northing: 433862.30
Easting: 610164.70
Ground Level: 2931.00
Positional Uncertainty: 0.00
Convergence: 0.19

TARGET DETAILS

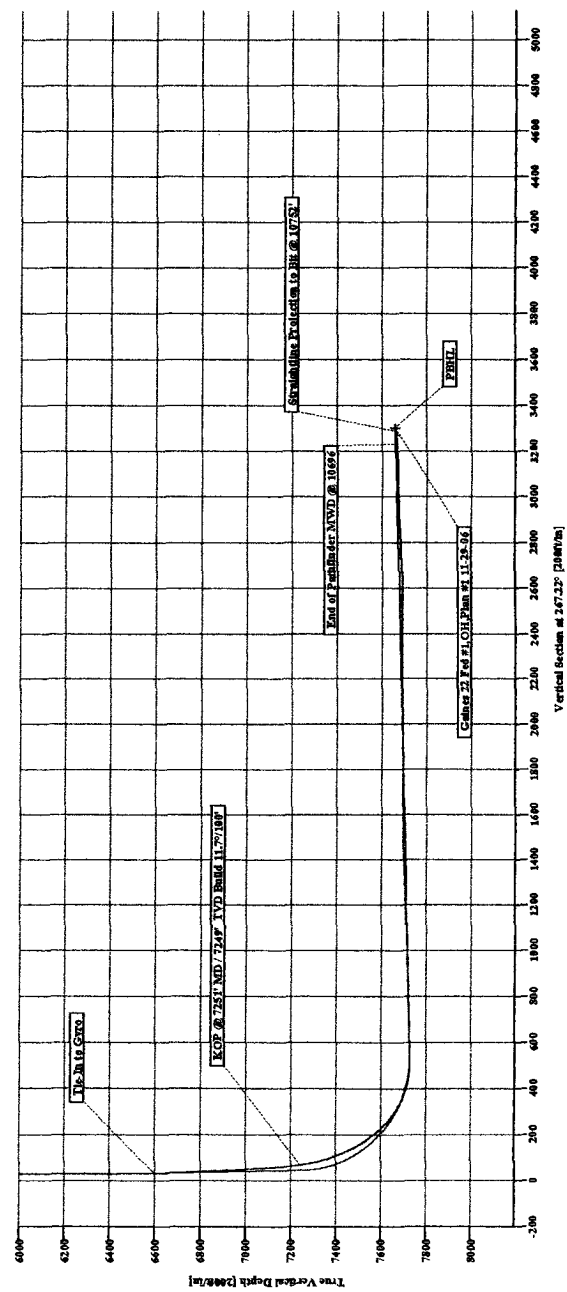
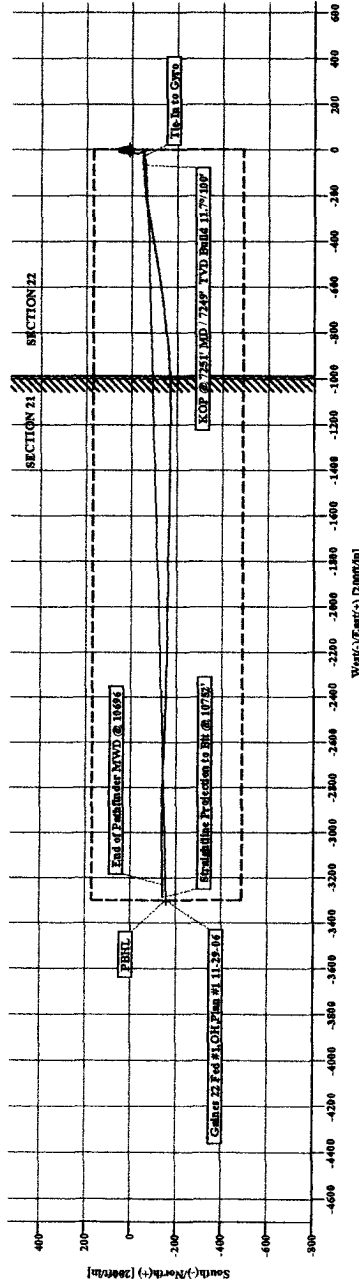
Name	TVD	+N/-S	+E/-W	Shape
PBHL	7639.00	-160.00	-3300.00	Point

WELLPATH DETAILS

OH
Rig: SITE 2931.00ft
Ref Datum: Origin Starting
V-Section +N/-S +E/-W From TVD
Angle 267.22° 0.00 0.00 0.00

ANNOTATIONS

No.	TVD	MD	Annotation
1	6597.98	6600.00	Tie-In to Gyro
2	7246.42	7251.00	KOP @ 7251 MD / 7246 TVD Build 11.7°/100'
3	7246.42	10732.00	Start of Pathfinder NWD @ 10732
4	7668.09	10696.00	End of Pathfinder NWD @ 10696



Vertical Section at 267.22° [2000ft/m]