

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

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
May 27, 2004

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

WELL API NO. 30-015-35042
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name H. Buck State
8. Well Number 5
9. OGRID Number 017891
10. Pool name or Wildcat Pierce Crossing Bone Spring, East

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-011) FOR SUCH PROPOSALS.)

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

2. Name of Operator
Pogo Producing Company

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

4. Well Location
Unit Letter L : 1680 feet from the South line and 430 feet from the West line
Section 15 Township 24S Range 29E NMPM Eddy County

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
2926'

Pit or Below-grade Tank Application ☐ or Closure ☐

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

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

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☒	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
OTHER: ☐		OTHER: ☐	

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

TD & Production Csg – Drld 8-1/2" hole to 4180'. Spot 200 sks Cl H plug from 2704-3119. KOP 2940'. Cont drilling 8-1/2" hole to 7335'. Logged well w/ Halliburton. Cont drilling 8-1/2 – 7-7/8" horizontal hole to 10,792'. TD reached @ 20:00 hrs 11/04/06. Ran 208 jts 5-1/2" 17# LT&C & BT&C csg. Cmt'd w/ 200 sks C @ 12.8 ppg followed by 200 sks Cl "C" @ 14.8 ppg. Cmt did not circ. 1" w/ 50 sks Cl C @ 14.8 ppg. Circ cmt to surface. Test csg to 5000# for 30 mins ok. CBL ran 11/23/06.

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

SIGNATURE Cathy Wright TITLE Sr. Eng Tech DATE 12/04/06

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

For State Use Only

FOR RECORDS ONLY

DEC 13 2006

APPROVED BY: _____ TITLE _____ DATE _____

Conditions of Approval (if any):

LAT.=32.214777° N
LONG.=103.979007° W

OPERATOR
WELL/LEASE
COUNTY

Pogo Producing Company
H. Buck State #5
Eddy Co., N.M.

RECEIVED
NOV 22 2006

078-0045

MIDLAND

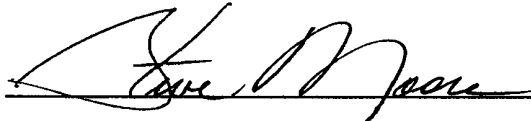
STATE OF NEW MEXICO
DEVIATION REPORT

224	0.25
468	1.00
750	0.75
1,034	1.00
1,519	0.50
1,679	1.00
1,774	0.25
2,198	1.25
2,442	2.00
3,023	1.00
3,245	1.00
3,501	0.50
3,853	0.25

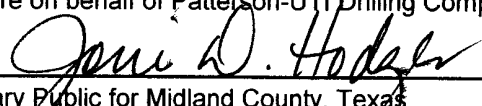
CONFIDENTIAL

STATE OF TEXAS

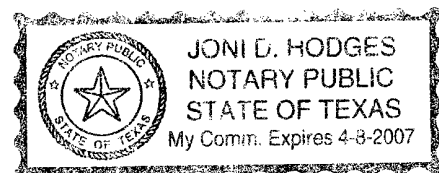
COUNTY OF MIDLAND

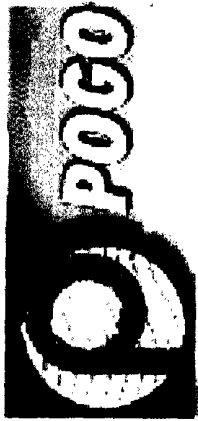
BY: 

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


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

November 22, 2006, by Steve





Field: Eddy County, NM NAD-27
Site: Pierce Crossing Bone Spring East (2)
Well: H Buck State #5
Wellpath: OH
Survey: Pathfinder MWD Surveys

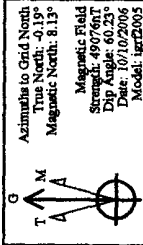
PATHFINDER

WELLPATH DETAILS

OH
Rig: 2926.00R
Ref. Datum: SITE
V. Section: Origin
Angle: +N/S 0.00
Starting From TVD: 0.00

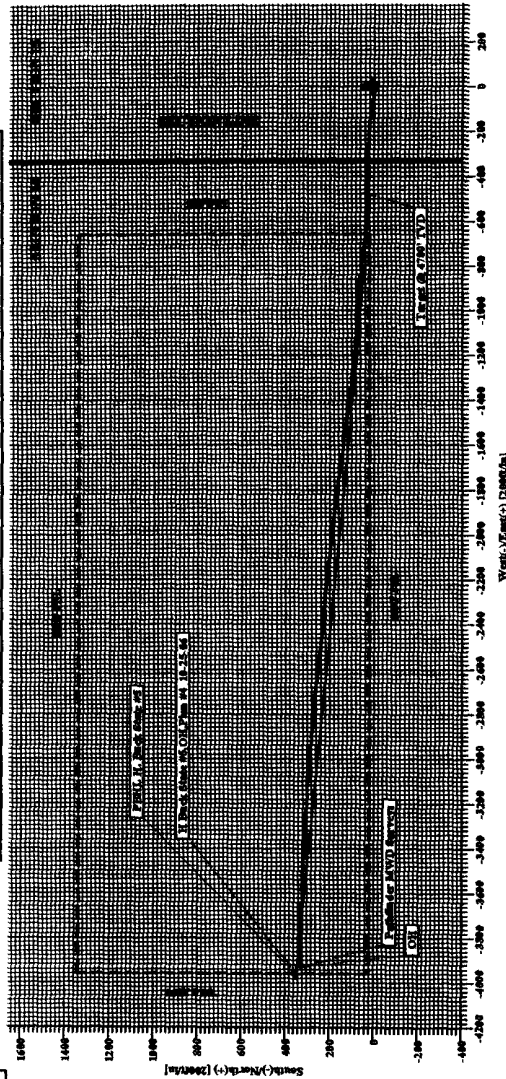
SITE DETAILS

Pierce Crossing Bone Spring East (2)
Site Centre Northing: 442034.80
Easting: 609352.60
Ground Level: 2926.00
Positional Uncertainty: 0.00
Convergence: 0.19



Survey: Pathfinder MWD Surveys (H Buck State #5/OH)

No	MD	Inc	Az	TVD	+N/S	+E/W	DLeg	TFace	VSec
172	10386.00	91.28	272.33	7632.43	320.69	-3527.84	0.59	-154.80	3542.37
173	10418.00	91.36	272.34	7631.70	321.96	-3559.80	0.38	-48.36	3574.33
174	10449.00	91.01	271.89	7631.05	323.08	-3590.78	1.60	-135.00	3605.28
175	10481.00	90.92	271.89	7630.52	324.13	-3622.75	0.28	180.00	3637.22
176	10512.00	90.57	271.62	7630.11	325.08	-3653.74	1.43	-142.35	3668.17
177	10544.00	90.51	271.35	7629.72	326.00	-3684.71	0.70	-136.00	3699.11
178	10576.00	90.48	271.36	7629.45	326.97	-3715.71	0.77	-136.00	3730.04
179	10608.00	90.40	271.27	7629.21	327.50	-3746.70	0.38	-131.63	3760.98
180	10640.00	90.22	271.36	7629.03	328.24	-3781.69	0.63	153.44	3795.91
181	10671.00	89.60	271.10	7629.08	328.90	-3812.69	2.17	-157.25	3826.84
182	10703.00	89.52	271.18	7629.33	329.54	-3844.68	0.35	135.00	3857.76
183	10734.00	89.60	271.27	7629.56	330.20	-3875.67	0.39	48.37	3888.69
184	10767.00	89.34	271.10	7629.39	330.26	-3878.67	10.35	-146.82	3892.69
185	10792.00	89.34	271.10	7630.23	331.32	-3933.66	0.00	0.00	3947.55

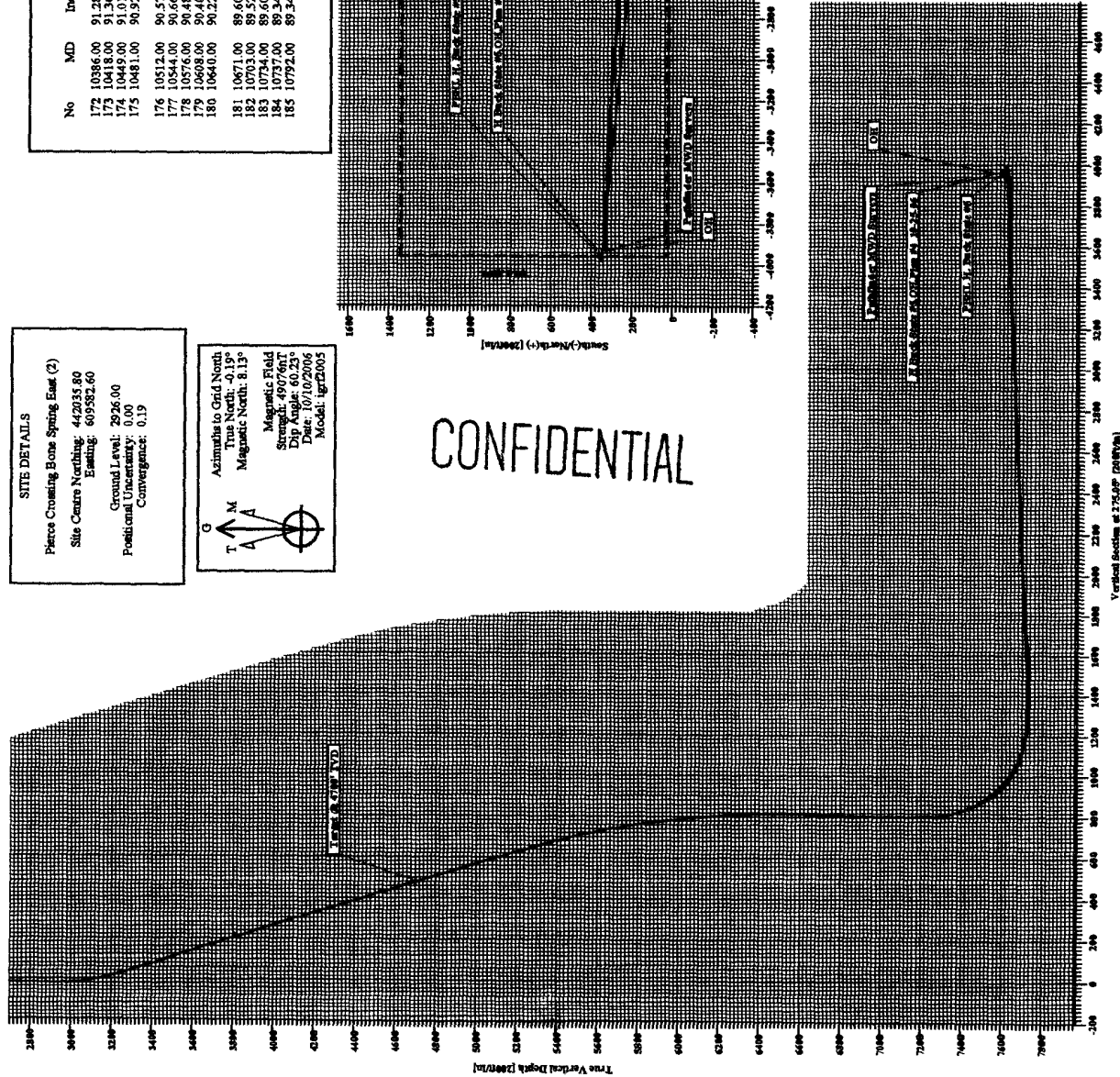


TARGET DETAILS

Name: TVD
+N/S: 4700.00
+E/W: 350.00
Shape: Point
Target @ 4700 TVD
PBHL H. Buck State #5
7613.00
-3960.00
Point

ANNOTATIONS

No. TVD MD Annotation
1 7641.37 7355.00 KOP @ 7355 MD / 7641 TVD Build 11.78°/100°
2 7730.03 8138.32 EOC @ 8138 MD / 7731 TVD
3 7170.40 7384.00 To In Survey



Vertical Section at 275.0° (2000 ft)

Survey published by H. Buck State #5
Copyright by H. Buck State #5

Pathfinder Energy

Survey Report

Company: Pogo	Date: 11/6/2006	Time: 13:59:47	Page: 1
Field: Eddy County, NM NAD-27	Co-ordinate(NE) Reference: Well: H Buck State #5, Grid North		
Site: Pierce Crossing Bone Spring East (2)	Vertical (TVD) Reference: SITE 2926.0		
Well: H Buck State #5	Section (VS) Reference: Well (0.00N,0.00E,275.05Azi)		
Wellpath: OH	Survey Calculation Method: Minimum Curvature		Db: Sybase

Field: Eddy County, NM NAD-27

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 Crossing Bone Spring East (2)

Site Position:	Northing: 442035.80 ft	Latitude: 32 12 53.197 N
From: Map	Easting: 609582.60 ft	Longitude: 103 58 44.427 W
Position Uncertainty: 0.00 ft		North Reference: Grid
Ground Level: 2926.00 ft		Grid Convergence: 0.19 deg

Well: H Buck State #5

Slot Name:

Well Position: +N/-S 0.00 ft	Northing: 442035.80 ft	Latitude: 32 12 53.197 N
+E/-W 0.00 ft	Easting: 609582.60 ft	Longitude: 103 58 44.427 W
Position Uncertainty: 0.00 ft		

Wellpath: OH

Current Datum: SITE
Magnetic Data: 10/10/2006
Field Strength: 49076 nT
Vertical Section: Depth From (TVD)
 ft

Height: 2926.00 ft

Drilled From: Surface
Tie-on Depth: 0.00 ft
Above System Datum: Mean Sea Level
Declination: 8.32 deg
Mag Dip Angle: 60.23 deg
+E/-W
 ft
Direction
 deg

0.00	0.00	0.00	275.05
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Survey: Pathfinder MWD Surveys

Start Date: 10/17/2006

Company: Pathfinder Energy
Tool:

Engineer: Midwellplan
Tied-to: From: Definitive Path

Survey: Pathfinder MWD 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
2900.00	1.20	116.50	2899.49	-13.87	16.94	-18.09	0.00	0.00	0.00	
2957.00	1.23	288.33	2956.48	-13.94	16.89	-18.05	4.25	0.05	301.46	
2988.00	3.25	289.91	2987.46	-13.54	15.75	-16.88	6.52	6.52	5.10	
3020.00	3.80	284.11	3019.40	-12.97	13.87	-14.95	2.05	1.72	-18.12	
3051.00	5.63	278.49	3050.29	-12.50	11.37	-12.42	6.08	5.90	-18.13	
3083.00	8.00	280.33	3082.06	-11.87	7.62	-8.64	7.44	7.41	5.75	
3114.00	9.94	283.14	3112.68	-10.87	2.89	-3.84	6.41	6.26	9.06	
3145.00	12.05	284.81	3143.11	-9.44	-2.84	2.00	6.88	6.81	5.39	
3177.00	13.98	286.04	3174.29	-7.51	-9.79	9.09	6.09	6.03	3.84	
3239.00	16.36	283.93	3234.12	-3.34	-25.46	25.07	3.94	3.84	-3.40	
3301.00	17.24	282.44	3293.48	0.74	-42.91	42.81	1.58	1.42	-2.40	
3364.00	17.06	280.95	3353.68	4.51	-61.10	61.26	0.75	-0.29	-2.37	
3428.00	18.03	277.26	3414.70	7.54	-80.14	80.49	2.31	1.52	-5.77	
3490.00	18.11	277.43	3473.64	10.00	-99.21	99.71	0.15	0.13	0.27	
3553.00	17.94	276.55	3533.55	12.37	-118.56	119.19	0.51	-0.27	-1.40	
3616.00	17.76	277.70	3593.52	14.77	-137.72	138.49	0.63	-0.29	1.83	
3679.00	17.32	274.18	3653.59	16.74	-156.60	157.46	1.82	-0.70	-5.59	
3742.00	17.32	276.29	3713.73	18.45	-175.27	176.22	1.00	0.00	3.35	
3804.00	16.88	276.11	3772.99	20.42	-193.40	194.44	0.71	-0.71	-0.29	
3867.00	17.50	272.60	3833.18	21.82	-211.96	213.05	1.92	0.98	-5.57	
3930.00	17.59	270.75	3893.25	22.38	-230.94	232.01	0.90	0.14	-2.94	
3993.00	17.32	273.04	3953.35	23.00	-249.82	250.87	1.17	-0.43	3.63	
4055.00	17.06	272.07	4012.58	23.82	-268.12	269.18	0.62	-0.42	-1.56	
4118.00	16.97	270.31	4072.82	24.20	-286.55	287.57	0.83	-0.14	-2.79	

Pathfinder Energy

Survey Report

Company: Pogo
 Field: Eddy County, NM NAD-27
 Site: Pierce Crossing Bone Spring East (2)
 Well: H Buck State #5
 Wellpath: OH

Date: 11/6/2006 Time: 13:59:47 Page: 2
 Co-ordinate(N/E) Reference: Well: H Buck State #5, Grid North
 Vertical (TVD) Reference: SITE 2926.0
 Section (VS) Reference: Well (0.00N,0.00E,275.05Azi)
 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: Pathfinder MWD Surveys

MD ft	Incl deg	Azlm deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
4181.00	16.80	270.31	4133.11	24.30	-304.85	305.81	0.27	-0.27	0.00	
4245.00	16.88	270.22	4194.36	24.38	-323.39	324.28	0.13	0.12	-0.14	
4308.00	16.71	270.31	4254.68	24.47	-341.60	342.42	0.27	-0.27	0.14	
4372.00	16.53	270.75	4316.00	24.64	-359.90	360.67	0.34	-0.28	0.69	
4435.00	17.06	272.16	4376.31	25.10	-378.10	378.84	1.06	0.84	2.24	
4498.00	17.24	272.68	4436.51	25.89	-396.66	397.40	0.38	0.29	0.83	
4562.00	17.06	273.04	4497.67	26.83	-415.51	416.25	0.33	-0.28	0.56	
4626.00	16.97	272.51	4558.87	27.74	-434.21	434.97	0.28	-0.14	-0.83	
4688.00	16.80	271.98	4618.19	28.44	-452.21	452.95	0.37	-0.27	-0.85	
4751.00	16.80	271.63	4678.50	29.01	-470.41	471.13	0.16	0.00	-0.56	
4815.00	16.80	272.25	4739.77	29.64	-488.89	489.60	0.28	0.00	0.97	
4878.00	16.80	271.81	4800.08	30.29	-507.09	507.79	0.20	0.00	-0.70	
4941.00	16.88	271.19	4860.38	30.76	-525.33	526.00	0.31	0.13	-0.98	
5005.00	16.53	273.12	4921.68	31.45	-543.72	544.37	1.02	-0.55	3.02	
5067.00	16.53	272.16	4981.12	32.26	-561.34	562.00	0.44	0.00	-1.55	
5131.00	16.27	271.63	5042.52	32.86	-579.40	580.04	0.47	-0.41	-0.83	
5194.00	16.09	270.93	5103.02	33.26	-596.95	597.56	0.42	-0.29	-1.11	
5257.00	16.18	274.09	5163.54	34.02	-614.43	615.04	1.40	0.14	5.02	
5320.00	15.92	274.27	5224.08	35.29	-631.80	632.46	0.42	-0.41	0.29	
5384.00	15.92	274.62	5285.63	36.65	-649.31	650.01	0.15	0.00	0.55	
5447.00	15.48	276.29	5346.28	38.27	-666.27	667.06	1.00	-0.70	2.65	
5510.00	14.51	275.15	5407.13	39.90	-682.49	683.35	1.61	-1.54	-1.81	
5574.00	13.28	276.99	5469.26	41.51	-697.77	698.72	2.04	-1.92	2.87	
5638.00	12.22	277.70	5531.68	43.32	-711.78	712.83	1.67	-1.66	1.11	
5701.00	11.52	277.70	5593.33	45.05	-724.62	725.78	1.11	-1.11	0.00	
5764.00	10.46	279.28	5655.18	46.82	-736.50	737.76	1.75	-1.68	2.51	
5827.00	9.50	278.66	5717.22	48.52	-747.29	748.66	1.53	-1.52	-0.98	
5890.00	8.53	277.17	5779.44	49.89	-757.06	758.51	1.58	-1.54	-2.37	
5954.00	7.83	276.73	5842.79	50.99	-766.10	767.62	1.10	-1.09	-0.69	
6018.00	6.86	278.66	5906.27	52.08	-774.21	775.79	1.56	-1.52	3.02	
6080.00	6.07	278.31	5967.87	53.11	-781.11	782.76	1.28	-1.27	-0.56	
6144.00	5.80	279.19	6031.53	54.11	-787.65	789.36	0.45	-0.42	1.37	
6207.00	5.28	276.29	6094.24	54.94	-793.68	795.43	0.94	-0.83	-4.60	
6270.00	4.66	272.95	6157.00	55.39	-799.12	800.89	1.09	-0.98	-5.30	
6334.00	3.78	277.43	6220.82	55.80	-803.80	805.59	1.47	-1.37	7.00	
6398.00	2.99	277.52	6284.71	56.29	-807.55	809.37	1.23	-1.23	0.14	
6461.00	2.20	282.18	6347.65	56.76	-810.36	812.21	1.30	-1.25	7.40	
6524.00	1.41	293.87	6410.62	57.33	-812.25	814.15	1.38	-1.25	18.56	
6587.00	0.09	14.37	6473.61	57.69	-812.95	814.87	2.22	-2.10	127.78	
6651.00	0.97	68.78	6537.61	57.93	-812.43	814.38	1.44	1.37	85.02	
6714.00	1.32	76.95	6600.59	58.29	-811.23	813.21	0.61	0.56	12.97	
6777.00	1.76	73.35	6663.57	58.73	-809.59	811.62	0.71	0.70	-5.71	
6840.00	1.76	90.05	6726.54	59.01	-807.70	809.76	0.81	0.00	26.51	
6903.00	1.76	97.69	6789.51	58.88	-805.77	807.83	0.37	0.00	12.13	
6967.00	1.67	97.78	6853.48	58.62	-803.88	805.91	0.14	-0.14	0.14	
7030.00	1.41	100.51	6916.46	58.35	-802.20	804.23	0.43	-0.41	4.33	
7094.00	0.97	136.37	6980.45	57.82	-801.06	803.04	1.32	-0.69	56.03	
7157.00	1.23	162.82	7043.44	56.79	-800.49	802.38	0.89	0.41	41.98	
7221.00	1.49	168.10	7107.42	55.32	-800.11	801.88	0.45	0.41	8.25	
7284.00	1.41	167.66	7170.40	53.76	-799.78	801.41	0.13	-0.13	-0.70	
7327.00	1.58	185.75	7213.38	52.65	-799.72	801.25	1.16	0.40	42.07	
7359.00	2.90	239.19	7245.36	51.80	-800.46	801.92	7.29	4.12	167.00	
7390.00	5.63	270.83	7276.28	51.42	-802.66	804.07	11.31	8.81	102.06	

Pathfinder Energy

Survey Report

Company: Pogo
Field: Eddy County, NM NAD-27
Site: Pierce Crossing Bone Spring East (2)
Well: H Buck State #5
Wellpath: OH

Date: 11/6/2006 **Time:** 13:59:47 **Page:** 3
Co-ordinate(NE) Reference: Well: H Buck State #5, Grid North
Vertical (TVD) Reference: SITE 2926.0
Section (VS) Reference: Well (0.00N,0.00E,275.05Azi)
Survey Calculation Method: Minimum Curvature **Db:** Sybase

Survey: Pathfinder MWD Surveys

MD ft	Incl deg	Azlm deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
7422.00	9.32	279.71	7308.00	51.88	-806.78	808.22	12.05	11.53	27.75	
7454.00	12.22	282.52	7339.43	53.05	-812.65	814.16	9.21	9.06	8.78	
7485.00	14.95	284.54	7369.56	54.76	-819.72	821.36	8.94	8.81	6.52	
7517.00	17.41	286.74	7400.29	57.18	-828.30	830.12	7.92	7.69	6.87	
7549.00	19.61	288.76	7430.64	60.29	-837.97	840.03	7.16	6.87	6.31	
7580.00	21.81	287.44	7459.63	63.69	-848.39	850.71	7.25	7.10	-4.26	
7612.00	25.85	283.31	7488.90	67.07	-860.86	863.42	13.65	12.62	-12.91	
7644.00	29.37	279.71	7517.25	70.01	-875.39	878.15	12.17	11.00	-11.25	
7675.00	33.41	274.52	7543.71	71.96	-891.40	894.27	15.67	13.03	-16.74	
7707.00	37.37	271.10	7569.80	72.84	-909.90	912.78	13.83	12.37	-10.69	
7738.00	42.38	270.74	7593.58	73.16	-929.77	932.60	16.18	16.16	-1.16	
7770.00	47.92	270.83	7616.14	73.47	-952.44	955.21	17.31	17.31	0.28	
7802.00	53.11	270.65	7636.48	73.79	-977.13	979.83	16.22	16.22	-0.56	
7833.00	58.39	271.18	7653.92	74.20	-1002.74	1005.38	17.09	17.03	1.71	
7865.00	63.93	271.89	7669.35	74.95	-1030.75	1033.35	17.42	17.31	2.22	
7897.00	69.64	272.85	7681.96	76.18	-1060.12	1062.71	18.06	17.84	3.00	
7928.00	73.60	273.64	7691.74	77.84	-1089.49	1092.11	13.00	12.77	2.55	
7960.00	75.27	274.17	7700.32	79.94	-1120.24	1122.93	5.46	5.22	1.66	
7992.00	76.94	274.61	7708.01	82.32	-1151.21	1153.99	5.39	5.22	1.37	
8024.00	78.61	275.31	7714.78	85.03	-1182.37	1185.26	5.64	5.22	2.19	
8055.00	81.07	275.49	7720.25	87.90	-1212.74	1215.77	7.96	7.94	0.58	
8087.00	82.22	276.28	7724.90	91.14	-1244.24	1247.43	4.35	3.59	2.47	
8118.00	84.94	276.72	7728.37	94.63	-1274.84	1278.22	8.89	8.77	1.42	
8150.00	86.09	276.98	7730.87	98.44	-1306.51	1310.11	3.68	3.59	0.81	
8181.00	87.93	277.60	7732.49	102.36	-1337.22	1341.04	6.26	5.94	2.00	
8204.00	90.48	278.83	7732.80	105.65	-1359.98	1364.00	12.31	11.09	5.35	
8236.00	91.10	278.30	7732.36	110.42	-1391.62	1395.94	2.55	1.94	-1.66	
8269.00	90.66	278.04	7731.86	115.10	-1424.28	1428.88	1.55	-1.33	-0.79	
8299.00	90.31	277.77	7731.60	119.23	-1453.99	1458.85	1.47	-1.17	-0.90	
8330.00	90.84	277.69	7731.29	123.40	-1484.71	1489.81	1.73	1.71	-0.26	
8362.00	91.01	277.42	7730.77	127.61	-1516.43	1521.78	1.00	0.53	-0.84	
8394.00	90.75	277.42	7730.28	131.74	-1548.16	1553.74	0.81	-0.81	0.00	
8425.00	92.24	278.04	7729.47	135.91	-1578.86	1584.70	5.21	4.81	2.00	
8457.00	94.09	278.21	7727.71	140.42	-1610.49	1616.60	5.81	5.78	0.53	
8489.00	94.44	277.86	7725.33	144.88	-1642.09	1648.47	1.54	1.09	-1.09	
8520.00	94.44	278.06	7722.93	149.16	-1672.70	1679.34	0.64	0.00	0.65	
8552.00	94.35	277.86	7720.48	153.58	-1704.30	1711.20	0.68	-0.28	-0.62	
8584.00	94.44	277.77	7718.02	157.92	-1735.91	1743.07	0.40	0.28	-0.28	
8615.00	94.26	277.69	7715.67	162.08	-1766.54	1773.95	0.64	-0.58	-0.26	
8647.00	94.18	277.42	7713.32	166.27	-1798.17	1805.83	0.88	-0.25	-0.84	
8678.00	94.18	277.42	7711.06	170.27	-1828.83	1836.72	0.00	0.00	0.00	
8710.00	93.91	277.25	7708.80	174.34	-1860.49	1868.62	1.00	-0.84	-0.53	
8742.00	93.83	277.33	7706.64	178.39	-1892.16	1900.52	0.35	-0.25	0.25	
8773.00	93.83	277.33	7704.57	182.34	-1922.84	1931.43	0.00	0.00	0.00	
8805.00	93.03	276.37	7702.66	186.15	-1954.55	1963.35	3.90	-2.50	-3.00	
8836.00	92.95	276.19	7701.04	189.53	-1985.33	1994.30	0.63	-0.26	-0.58	
8868.00	92.95	276.11	7699.39	192.96	-2017.10	2026.25	0.25	0.00	-0.25	
8899.00	92.86	275.93	7697.82	196.20	-2047.89	2057.21	0.65	-0.29	-0.58	
8930.00	92.59	275.84	7696.35	199.38	-2078.69	2088.17	0.92	-0.87	-0.29	
8960.00	92.68	275.75	7694.97	202.41	-2108.51	2118.14	0.42	0.30	-0.30	
8992.00	92.68	275.93	7693.47	205.66	-2140.30	2150.10	0.56	0.00	0.56	
9024.00	92.42	275.75	7692.05	208.91	-2172.11	2182.06	0.99	-0.81	-0.56	
9055.00	92.24	275.84	7690.79	212.04	-2202.92	2213.04	0.65	-0.58	0.29	

Pathfinder Energy

Survey Report

Company: Pogo
 Field: Eddy County, NM NAD-27
 Site: Pierce Crossing Bone Spring East (2)
 Well: H Buck State #5
 Wellpath: OH

Date: 11/6/2006 Time: 13:59:47 Page: 4
 Co-ordinate(N/E) Reference: Well: H Buck State #5, Grid North
 Vertical (TVD) Reference: SITE 2926.0
 Section (VS) Reference: Well (0.00N,0.00E,275.05Azi)
 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: Pathfinder MWD 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
9087.00	92.15	276.02	7689.56	215.34	-2234.73	2245.01	0.63	-0.28	0.56	
9119.00	92.59	275.58	7688.24	218.57	-2266.54	2276.98	1.94	1.37	-1.37	
9150.00	92.51	275.40	7686.86	221.54	-2297.36	2307.95	0.63	-0.26	-0.58	
9182.00	92.42	275.40	7685.48	224.54	-2329.19	2339.92	0.28	-0.28	0.00	
9213.00	92.24	275.23	7684.22	227.41	-2360.03	2370.89	0.80	-0.58	-0.55	
9245.00	92.42	275.75	7682.92	230.47	-2391.86	2402.86	1.72	0.56	1.62	
9276.00	93.39	276.28	7681.35	233.72	-2422.65	2433.82	3.56	3.13	1.71	
9308.00	93.47	276.28	7679.44	237.21	-2454.40	2465.75	0.25	0.25	0.00	
9340.00	92.12	276.12	7677.88	240.66	-2486.17	2497.71	4.25	-4.22	-0.50	
9371.00	93.03	276.02	7676.48	243.94	-2516.97	2528.67	2.95	2.94	-0.32	
9403.00	92.95	276.02	7674.81	247.29	-2548.75	2560.62	0.25	-0.25	0.00	
9435.00	92.51	275.93	7673.29	250.62	-2580.54	2592.58	1.40	-1.37	-0.28	
9466.00	92.42	275.67	7671.96	253.75	-2611.35	2623.55	0.89	-0.29	-0.84	
9498.00	92.51	275.93	7670.58	256.98	-2643.16	2655.52	0.86	0.28	0.81	
9530.00	92.33	275.84	7669.23	260.25	-2674.96	2687.49	0.63	-0.56	-0.28	
9561.00	92.07	275.58	7668.04	263.34	-2705.79	2718.46	1.19	-0.84	-0.84	
9593.00	92.15	275.49	7666.86	266.42	-2737.61	2750.44	0.38	0.25	-0.28	
9624.00	92.07	275.31	7665.72	269.34	-2768.46	2781.42	0.64	-0.26	-0.58	
9656.00	91.89	275.14	7664.61	272.25	-2800.30	2813.40	0.77	-0.56	-0.53	
9688.00	91.54	275.14	7663.66	275.11	-2832.16	2845.38	1.09	-1.09	0.00	
9719.00	91.71	274.87	7662.78	277.82	-2863.03	2876.37	1.03	0.55	-0.87	
9751.00	91.89	274.61	7661.77	280.46	-2894.91	2908.36	0.99	0.56	-0.81	
9783.00	91.98	274.79	7660.69	283.08	-2926.78	2940.34	0.63	0.28	0.56	
9814.00	93.12	274.79	7659.31	285.67	-2957.64	2971.31	3.68	3.68	0.00	
9846.00	93.30	274.70	7657.52	288.31	-2989.48	3003.25	0.63	0.56	-0.28	
9878.00	93.21	274.61	7655.70	290.90	-3021.32	3035.20	0.40	-0.28	-0.28	
9910.00	93.39	274.61	7653.86	293.47	-3053.17	3067.15	0.56	0.56	0.00	
9941.00	93.30	274.26	7652.05	295.86	-3084.02	3098.09	1.16	-0.29	-1.13	
9973.00	93.30	274.17	7650.21	298.21	-3115.88	3130.04	0.28	0.00	-0.28	
10005.00	93.21	274.08	7648.39	300.51	-3147.75	3161.98	0.40	-0.28	-0.28	
10036.00	93.21	273.91	7646.66	302.67	-3178.62	3192.93	0.55	0.00	-0.55	
10068.00	93.12	273.73	7644.89	304.80	-3210.50	3224.87	0.63	-0.28	-0.56	
10100.00	93.12	273.64	7643.15	306.85	-3242.39	3256.82	0.28	0.00	-0.28	
10132.00	92.95	273.38	7641.46	308.81	-3274.29	3288.76	0.97	-0.53	-0.81	
10163.00	92.68	273.08	7639.93	310.55	-3305.20	3319.71	1.30	-0.87	-0.97	
10195.00	92.15	272.68	7638.58	312.16	-3337.13	3351.65	2.07	-1.66	-1.25	
10227.00	92.15	272.68	7637.38	313.65	-3369.07	3383.60	0.00	0.00	0.00	
10259.00	91.98	272.68	7636.23	315.15	-3401.02	3415.56	0.53	-0.53	0.00	
10291.00	91.89	272.59	7635.15	316.62	-3432.96	3447.51	0.40	-0.28	-0.28	
10322.00	91.89	272.50	7634.13	317.99	-3463.92	3478.46	0.29	0.00	-0.29	
10354.00	91.45	272.41	7633.20	319.36	-3495.87	3510.42	1.40	-1.37	-0.28	
10386.00	91.28	272.33	7632.43	320.69	-3527.84	3542.37	0.59	-0.53	-0.25	
10418.00	91.36	272.24	7631.70	321.96	-3559.80	3574.33	0.38	0.25	-0.28	
10449.00	91.01	271.89	7631.05	323.08	-3590.78	3605.28	1.60	-1.13	-1.13	
10481.00	90.92	271.89	7630.52	324.13	-3622.75	3637.22	0.28	-0.28	0.00	
10512.00	90.57	271.62	7630.11	325.08	-3653.74	3668.17	1.43	-1.13	-0.87	
10544.00	90.66	271.53	7629.77	325.96	-3685.72	3700.11	0.40	0.28	-0.28	
10576.00	90.48	271.36	7629.45	326.77	-3717.71	3732.04	0.77	-0.56	-0.53	
10608.00	90.40	271.27	7629.21	327.50	-3749.70	3763.98	0.38	-0.25	-0.28	
10640.00	90.22	271.36	7629.03	328.24	-3781.69	3795.91	0.63	-0.56	0.28	
10671.00	89.60	271.10	7629.08	328.90	-3812.69	3826.84	2.17	-2.00	-0.84	
10703.00	89.52	271.18	7629.33	329.54	-3844.68	3858.76	0.35	-0.25	0.25	
10734.00	89.60	271.27	7629.56	330.20	-3875.67	3889.69	0.39	0.26	0.29	
10737.00	89.34	271.10	7629.59	330.26	-3878.67	3892.69	10.35	-8.67	-5.67	

Pathfinder Energy

Survey Report

Company: Pogo Field: Eddy County, NM NAD-27 Site: Pierce Crossing Bone Spring East (2) Well: H Buck State #5 Wellpath: OH	Date: 11/6/2006 Time: 13:59:47 Page: 5 Co-ordinate(N/E) Reference: Well: H Buck State #5, Grid North Vertical (TVD) Reference: SITE 2926.0 Section (VS) Reference: Well (0.00N,0.00E,275.05Azi) Survey Calculation Method: Minimum Curvature Db: Sybase
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Survey: Pathfinder MWD 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
10792.00	89.34	271.10	7630.23	331.32	-3933.66	3947.55	0.00	0.00	0.00	