



An Operating Unit of Smith International, Inc.

DIRECTIONAL SURVEY REPORT

30-015-37899

DEVON ENERGY

SNAPPING 10 FEDERAL #1H

EDDY COUNTY, NEW MEXICO

RECEIVED

MAY 11 2011

NMOCD ARTESIA

PREPARED BY: FRANCISCO SINISTERRA

Pathfinder Energy Services, Inc.
6213 W. Interstate 20 • Midland, TX • 79706
(432) 681-6000

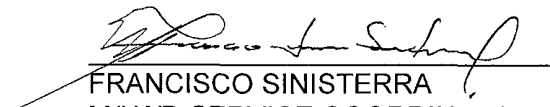
DIRECTIONAL SURVEY COMPANY REPORT:

1. NAME OF SURVEYING COMPANY: PATHFINDER ENERGY SERVICES
2. NAME OF PERSON(S) PERFORMING SURVEY:
A) FRED KNAAK
3. POSITION OF SAID PERSON(S): (A-F) SURVEYORS (FIELD ENGINEERS)
4. DATE(S) ON WHICH SURVEY WAS PERFORMED: 07-31-10 TO 08-14-10
5. STATE IN WHICH SURVEY WAS PERFORMED: NEW MEXICO
6. LOCATION OF WELL: EDDY COUNTY
7. TYPE OF SURVEY(S) PERFORMED: MWD
8. COMPLETE IDENTIFICATION OF WELL:

DEVON ENERGY
SNAPPING 10 FEDERAL #1H
EDDY COUNTY, NM
RIG: MCVAY #6

9. SURVEY CERTIFIED FROM: 7986 TO 12823 FEET MEASURED DEPTH.

THIS IS TO VERIFY THAT ATTACHED DOCUMENTS SHOWING THE WELL TO BE DISPLACED AT 4670.62 FEET ON A BEARING OF 179.61 DEGREES FROM THE CENTER OF THE ROTARY TABLE AT A PROJECTED BIT DEPTH OF 12869 FEET, ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.


FRANCISCO SINISTERRA
M/LWD SERVICE COORDINATOR

PathFinder Energy Services, Inc.

BHL Report

Page 01/01
Tie-in Date: 07/30/2010
Date Completed: 08/14/2010

DEVON ENERGY
SNAPPING 10 FEDERAL #1H
EDDY COUNTY, NM
Rig:McVAY 6
PathFinder Office Supervisor: Francisco Sinisterra
PathFinder Field Engineers:Fred Knaak
Gabe Garcia

Survey Horiz. Reference:WELLHEAD
Ref Coordinates: LAT:32.3.50.0095 N LON:103.45.49.7902 W
GRID Reference:NAD83 new mexico east Transverse Mercator
Ref GRID Coord: X: 717755.3000 Y: 387446.8000
North Aligned To:GRID NORTH
Total Magnetic Correction: 7.47° EAST TO GRID
Vertical Section Plane: 179.61
Survey Vert. Reference: 19.00' Kelly Bushing To Ground
Altitude:3244.00' Ground To MSL

Measured Depth	12869.00	(feet)
Inclination	89.78	(deg)
Azimuth	177.01	(deg)
True Vertical Depth	8590.53	(feet)
Vertical Section	4670.62	(feet)
Survey X cord	717787.34	(feet)
Survey Y cord	382776.29	(feet)
Survey Lat	32.05105256 N	(deg)
Survey Lon	103.76380673 W	(deg)
Rectangular Corr. N/S	4670.51 S	(feet)
Rectangular Corr. E/W	32.04 E	(feet)
Closure Distance	4670.62	(feet)
Direction of Closure	179.61	(deg)
Dogleg Severity	0.00	(deg/100ft)

PathFinder Energy Services, Inc.

Survey Report

DEVON ENERGY
SNAPPING 10 FEDERAL #1H
EDDY COUNTY, NM
Rig:McVAY 6
PathFinder Office Supervisor: Francisco Sinisterra
PathFinder Field Engineers: Fred Knaak
Gabe Garcia

Survey Horiz. Reference:WELLHEAD
Ref Coordinates: LAT:32.3.50.0095 N LON:103.45.49.7902 W
GRID Reference:NAD83 new mexico east Transverse Mercator
Ref GRID Coord: X: 717755.3000 Y: 387446.8000
North Aligned To:GRID NORTH
Total Magnetic Correction: 7.47°EAST TO GRID
Vertical Section Plane: 179.61
Survey Vert. Reference: 19.00' Kelly Bushing To Ground
Altitude:3244.00' Ground To MSL

Survey Calculations by RX5 V6.03A using Minimum Curvature

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
TIE IN TO SCIENTIFIC DRILLING GYRO SURVEY @ 7900' MD										
7900.00	1.08	186.50	7897.40	0.00	94.41	93.82 S	86.32 E	127.49@	137.38	0.00
THE FOLLOWING ARE PATHFINDER MWD SURVEYS										
7986.00	3.08	177.63	7983.34	86.00	97.52	96.93 S	86.32 E	129.80@	138.31	2.35
8018.00	7.74	168.13	8015.19	32.00	100.49	99.90 S	86.80 E	132.35@	139.01	14.78
8050.00	11.61	169.01	8046.73	32.00	105.77	105.18 S	87.86 E	137.04@	140.13	12.10
8082.00	15.39	170.86	8077.84	32.00	113.14	112.53 S	89.15 E	143.56@	141.61	11.89
8114.00	18.91	173.14	8108.41	32.00	122.49	121.87 S	90.44 E	151.77@	143.42	11.20
8146.00	21.81	176.84	8138.41	32.00	133.58	132.96 S	91.39 E	161.34@	145.50	9.91
8178.00	24.71	180.61	8167.81	32.00	146.21	145.59 S	91.65 E	172.03@	147.81	10.18
8208.00	28.14	182.72	8194.67	30.00	159.55	158.93 S	91.24 E	183.26@	150.14	11.85
8240.00	32.18	183.87	8222.33	32.00	175.59	174.97 S	90.31 E	196.91@	152.70	12.75
8272.00	35.44	184.31	8248.92	32.00	193.33	192.73 S	89.04 E	212.31@	155.20	10.22
8303.00	38.78	183.95	8273.63	31.00	211.98	211.39 S	87.69 E	228.85@	157.47	10.80
8334.00	41.77	182.72	8297.28	31.00	231.97	231.39 S	86.53 E	247.04@	159.50	9.98
8366.00	43.44	182.02	8320.84	32.00	253.61	253.03 S	85.64 E	267.13@	161.30	5.42
8397.00	42.82	182.46	8343.46	31.00	274.78	274.21 S	84.81 E	287.03@	162.81	2.22
8429.00	44.58	180.44	8366.60	32.00	296.87	296.31 S	84.26 E	308.05@	164.13	7.02
8461.00	47.66	179.56	8388.77	32.00	319.94	319.37 S	84.26 E	330.30@	165.22	9.83
8493.00	49.33	178.95	8409.98	32.00	343.90	343.33 S	84.58 E	353.59@	166.16	5.41
8525.00	50.91	179.12	8430.50	32.00	368.45	367.88 S	84.99 E	377.57@	166.99	4.95
8556.00	53.55	179.74	8449.48	31.00	392.96	392.38 S	85.23 E	401.53@	167.74	8.66
8588.00	56.19	180.18	8467.89	32.00	419.12	418.55 S	85.25 E	427.15@	168.49	8.33
8620.00	57.86	180.44	8485.31	32.00	445.97	445.40 S	85.10 E	453.45@	169.18	5.26
8651.00	60.59	182.11	8501.17	31.00	472.58	472.02 S	84.51 E	479.52@	169.85	9.95

PathFinder Energy Services, Inc.

Survey Report

DEVON ENERGY
SNAPPING 10 FEDERAL #1H
EDDY COUNTY, NM
RIG:McVAY 6

Page 02/04

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
8683.00	63.22	182.90	8516.24	32.00	500.77	500.22 S	83.27 E	507.10@	170.55	8.50
8715.00	65.33	182.64	8530.13	32.00	529.56	529.01 S	81.88 E	535.31@	171.20	6.63
8747.00	67.80	181.41	8542.86	32.00	558.89	558.35 S	80.84 E	564.17@	171.76	8.49
8778.00	70.87	181.49	8553.79	31.00	587.88	587.34 S	80.11 E	592.78@	172.23	9.91
8810.00	73.34	181.58	8563.63	32.00	618.31	617.78 S	79.29 E	622.85@	172.69	7.72
8842.00	75.27	181.93	8572.28	32.00	649.09	648.57 S	78.35 E	653.29@	173.11	6.12
8873.00	78.79	181.58	8579.24	31.00	679.28	678.76 S	77.42 E	683.17@	173.49	11.41
8905.00	81.60	181.23	8584.69	32.00	710.79	710.28 S	76.65 E	714.41@	173.84	8.85
8937.00	82.04	180.70	8589.24	32.00	742.45	741.95 S	76.12 E	745.85@	174.14	2.14
8969.00	83.71	180.09	8593.21	32.00	774.20	773.71 S	75.90 E	777.42@	174.40	5.55
8998.00	84.86	179.74	8596.10	29.00	803.06	802.56 S	75.94 E	806.15@	174.59	4.14
9030.00	86.53	179.38	8598.50	32.00	834.97	834.47 S	76.19 E	837.94@	174.78	5.34
9062.00	88.64	178.86	8599.85	32.00	866.94	866.43 S	76.68 E	869.82@	174.94	6.79
9094.00	88.99	178.77	8600.51	32.00	898.93	898.42 S	77.34 E	901.74@	175.08	1.13
9126.00	90.22	178.86	8600.73	32.00	930.92	930.41 S	78.00 E	933.68@	175.21	3.85
9158.00	90.31	179.12	8600.58	32.00	962.92	962.41 S	78.57 E	965.61@	175.33	0.86
9190.00	90.66	178.95	8600.31	32.00	994.92	994.40 S	79.10 E	997.54@	175.45	1.22
9221.00	90.84	179.12	8599.91	31.00	1025.91	1025.39 S	79.63 E	1028.48@	175.56	0.80
9253.00	91.45	179.21	8599.27	32.00	1057.90	1057.38 S	80.09 E	1060.41@	175.67	1.93
9285.00	91.71	179.82	8598.38	32.00	1089.89	1089.37 S	80.36 E	1092.33@	175.78	2.07
9317.00	91.10	180.70	8597.60	32.00	1121.88	1121.36 S	80.22 E	1124.23@	175.91	3.35
9349.00	91.01	180.79	8597.01	32.00	1153.87	1153.35 S	79.80 E	1156.11@	176.04	0.40
9381.00	91.36	180.35	8596.35	32.00	1185.86	1185.34 S	79.48 E	1188.01@	176.16	1.76
9413.00	91.71	180.53	8595.49	32.00	1217.84	1217.33 S	79.24 E	1219.91@	176.28	1.23
9445.00	91.28	181.49	8594.66	32.00	1249.82	1249.31 S	78.67 E	1251.79@	176.40	3.29
9476.00	91.63	181.58	8593.87	31.00	1280.79	1280.29 S	77.84 E	1282.66@	176.52	1.17
9508.00	91.89	181.14	8592.89	32.00	1312.76	1312.27 S	77.09 E	1314.53@	176.64	1.60
9540.00	91.71	180.88	8591.88	32.00	1344.74	1344.25 S	76.52 E	1346.42@	176.74	0.99
9572.00	91.63	180.79	8590.95	32.00	1376.72	1376.23 S	76.06 E	1378.33@	176.84	0.38
9604.00	91.54	182.20	8590.06	32.00	1408.69	1408.21 S	75.22 E	1410.21@	176.94	4.41

PathFinder Energy Services, Inc.

Survey Report

DEVON ENERGY
SNAPPING 10 FEDERAL #1H
EDDY COUNTY, NM
RIG:McVAY 6

Page 03/04

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
9636.00	91.10	182.72	8589.33	32.00	1440.64	1440.17 S	73.85 E	1442.06@	177.06	2.13
9668.00	91.63	182.72	8588.56	32.00	1472.58	1472.12 S	72.33 E	1473.90@	177.19	1.66
9700.00	91.01	183.07	8587.83	32.00	1504.52	1504.07 S	70.71 E	1505.74@	177.31	2.22
9764.00	90.04	184.04	8587.24	64.00	1568.36	1567.95 S	66.75 E	1569.37@	177.56	2.14
9828.00	90.40	184.39	8586.99	64.00	1632.16	1631.77 S	62.04 E	1632.95@	177.82	0.78
9893.00	89.87	185.10	8586.84	65.00	1696.90	1696.55 S	56.67 E	1697.50@	178.09	1.36
9957.00	89.78	184.39	8587.04	64.00	1760.64	1760.33 S	51.37 E	1761.08@	178.33	1.12
10021.00	90.31	183.69	8586.99	64.00	1824.45	1824.17 S	46.86 E	1824.77@	178.53	1.37
10085.00	90.31	183.16	8586.64	64.00	1888.30	1888.05 S	43.04 E	1888.54@	178.69	0.83
10149.00	88.99	183.25	8587.03	64.00	1952.18	1951.95 S	39.46 E	1952.35@	178.84	2.07
10213.00	88.29	183.25	8588.55	64.00	2016.03	2015.83 S	35.83 E	2016.15@	178.98	1.09
10277.00	88.99	182.11	8590.07	64.00	2079.92	2079.74 S	32.84 E	2080.00@	179.10	2.09
10341.00	89.87	181.23	8590.71	64.00	2143.87	2143.71 S	30.98 E	2143.93@	179.17	1.94
10404.00	90.22	179.91	8590.66	63.00	2206.86	2206.70 S	30.35 E	2206.91@	179.21	2.17
10468.00	90.66	179.65	8590.17	64.00	2270.86	2270.70 S	30.60 E	2270.91@	179.23	0.80
10532.00	91.36	180.09	8589.04	64.00	2334.85	2334.69 S	30.74 E	2334.89@	179.25	1.29
10596.00	91.19	179.91	8587.61	64.00	2398.83	2398.68 S	30.74 E	2398.87@	179.27	0.39
10660.00	89.96	179.65	8586.97	64.00	2462.82	2462.67 S	30.99 E	2462.87@	179.28	1.96
10724.00	90.31	179.56	8586.82	64.00	2526.82	2526.67 S	31.43 E	2526.86@	179.29	0.56
10788.00	91.10	179.74	8586.03	64.00	2590.82	2590.66 S	31.82 E	2590.86@	179.30	1.27
10852.00	91.98	179.74	8584.31	64.00	2654.79	2654.64 S	32.11 E	2654.83@	179.31	1.37
10916.00	91.36	179.82	8582.45	64.00	2718.77	2718.61 S	32.36 E	2718.80@	179.32	0.98
10979.00	90.48	180.61	8581.44	63.00	2781.75	2781.60 S	32.12 E	2781.79@	179.34	1.88
11044.00	90.04	180.79	8581.14	65.00	2846.74	2846.59 S	31.32 E	2846.77@	179.37	0.73
11107.00	90.04	180.79	8581.10	63.00	2909.73	2909.59 S	30.46 E	2909.75@	179.40	0.00
11171.00	89.96	181.05	8581.10	64.00	2973.71	2973.58 S	29.43 E	2973.73@	179.43	0.42
11235.00	89.87	181.32	8581.19	64.00	3037.69	3037.57 S	28.10 E	3037.70@	179.47	0.45
11299.00	89.69	181.41	8581.44	64.00	3101.66	3101.55 S	26.58 E	3101.66@	179.51	0.31
11395.00	90.13	181.49	8581.59	96.00	3197.61	3197.52 S	24.15 E	3197.61@	179.57	0.47
11491.00	91.54	181.93	8580.19	96.00	3293.53	3293.46 S	21.29 E	3293.53@	179.63	1.54

PathFinder Energy Services, Inc.

Survey Report

DEVON ENERGY
SNAPPING 10 FEDERAL #1H
EDDY COUNTY, NM
RIG:McVAY 6

Page 04/04

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
11555.00	91.19	182.20	8578.66	64.00	3357.45	3357.40 S	18.98 E	3357.45@	179.68	0.69
11619.00	89.52	181.41	8578.27	64.00	3421.40	3421.37 S	16.97 E	3421.41@	179.72	2.89
11684.00	89.69	181.41	8578.72	65.00	3486.37	3486.34 S	15.37 E	3486.38@	179.75	0.26
11748.00	90.13	181.14	8578.82	64.00	3550.34	3550.33 S	13.94 E	3550.35@	179.77	0.81
11811.00	90.75	180.88	8578.33	63.00	3613.32	3613.32 S	12.83 E	3613.34@	179.80	1.07
11875.00	90.66	180.35	8577.55	64.00	3677.30	3677.31 S	12.14 E	3677.33@	179.81	0.84
11939.00	88.81	180.79	8577.84	64.00	3741.29	3741.30 S	11.51 E	3741.32@	179.82	2.97
12003.00	89.25	180.97	8578.92	64.00	3805.27	3805.28 S	10.53 E	3805.30@	179.84	0.74
12067.00	89.52	181.14	8579.61	64.00	3869.24	3869.27 S	9.35 E	3869.28@	179.86	0.50
12131.00	90.48	181.32	8579.61	64.00	3933.22	3933.25 S	7.97 E	3933.26@	179.88	1.53
12195.00	90.84	180.53	8578.88	64.00	3997.19	3997.24 S	6.94 E	3997.25@	179.90	1.36
12260.00	90.04	180.09	8578.38	65.00	4062.19	4062.24 S	6.59 E	4062.24@	179.91	1.40
12324.00	88.64	178.33	8579.11	64.00	4126.18	4126.22 S	7.47 E	4126.23@	179.90	3.51
12388.00	88.37	178.07	8580.78	64.00	4190.14	4190.17 S	9.48 E	4190.18@	179.87	0.59
12452.00	89.08	177.98	8582.21	64.00	4254.10	4254.11 S	11.69 E	4254.13@	179.84	1.12
12516.00	88.37	177.36	8583.63	64.00	4318.04	4318.04 S	14.29 E	4318.07@	179.81	1.47
12612.00	88.02	176.84	8586.65	96.00	4413.90	4413.87 S	19.14 E	4413.91@	179.75	0.65
12676.00	88.72	177.28	8588.47	64.00	4477.81	4477.76 S	22.42 E	4477.82@	179.71	1.29
12740.00	89.25	177.28	8589.61	64.00	4541.75	4541.68 S	25.46 E	4541.75@	179.68	0.83
12804.00	89.60	177.01	8590.25	64.00	4605.69	4605.60 S	28.65 E	4605.69@	179.64	0.69
12823.00	89.78	177.01	8590.35	19.00	4624.67	4624.57 S	29.64 E	4624.67@	179.63	0.95
STRAIGHT LINE PROJECTION TO BIT @ 12869' MD										
12869.00	89.78	177.01	8590.53	46.00	4670.62	4670.51 S	32.04 E	4670.62@	179.61	0.00

FINDER

ENERGY SERVICES

TIE-IN SURVEY INFORMATION SHEET

CLIENT INFORMATION

CLIENT:	DEVON ENERGY		
LEASE / WELL No.:	SNAPPING 10 FEDERAL	1H	
WELL LOCATION:	NEW MEXICO		
COUNTY / STATE / COUNTRY:	EDDY	NEW MEXICO	USA
RIG:	MCVAY 6		
API WELL No:	30-015-37899		
JOB No:	101011052 WT-WT		
P.O. / AFE No.			
DIRECTIONAL COMPANY:	PATHFINDER ENERGY SERVICES		

WELL SITE INFORMATION

TOTAL MAGNETIC CORRECTION (TMC):			
On Wall Plat:	7.46	LWD Calculated:	7.47
		Agreed Upon:	7.47
	X = 717755.300000	Feet	Y = 387446.800000
			Feet
SITE LATITUDE:	32.063892 N	SITE LONGITUDE:	103.763831 W
GRID SYSTEM:	TRUE ☐ UTM ☒ LAMBERT ☐	ZONE:	NEW MEXICO EAST
PROPOSED DRIFT DIRECTION:	179.61		
KELLY BUSHING ELEVATION:	19		
ALTITUDE:	3244	Feet	WATER DEPTH: N/A
			Feet

TIE-IN SURVEY

MEASURED DEPTH:	7900		
DRIFT ANGLE:	1.08		
DRIFT DIRECTION:	186.5		
TRUE VERTICAL DEPTH:	7897.4		
VERTICAL SECTION:	94.4		
RECTANGULAR COORDINATE (N / S) :	-93.82		
RECTANGULAR COORDINATE (E / W) :	86.32		
CLOSURE DISTANCE / DIRECTION:	127.49	137.38	
SURVEY CALCULATION METHOD:	AA ☐	MC ☒	RC ☐ BT ☐
SOURCE OF TIE-IN DATA (COMPANY):	SCIENTIFIC DRILLING		
COPY OF TIE-IN SURVEY REPORT	☒ YES ☐ NO		

WELL PLAN

KICKOFF DEPTH:	7978	TOTAL DEPTH:	12869.2
KICKOFF ANGLE:	0	MAX ANGLE:	90

PES Engineers: 

**Signature of both field engineers required if applicable

Directional Driller: 

DATE: 8-1-10

PathFinder Energy Services, Inc.

Magnetic & Grid Calculations

DEVON ENERGY
SNAPPING 10 FEDERAL #1H
EDDY COUNTY, NEW MEXICO
Rig:McVAY 6

Fri Jul 23 16:02:01 2010

Coordinates

Latitude: 32.063892 N (32 deg. 3 min. 50.0095 sec.)
Longitude: 103.763831 W (-103 deg. 45 min. 49.7902 sec.)
Elevation: 3263.00 feet.
Calculation Date: Jul/23/2010

Magnetic Calculations

Model: IGRF2010
Dip Angle: 60.0261 degrees
Total Magnetic Field: 0.48589 gauss
Magnetic Declination: 7.771125 degrees
Horizontal Intensity: 0.242752 gauss
To Convert a Magnetic Dir. to a TRUE North Dir. Add 7.771125 Degr.

Transverse Mercator Grid Calculations NAD83

Grid System: Transverse Mercator: new mexico east
Ellipsoid: GRS80
X: 717755.3000 feet
Y: 387446.8000 feet
True to Grid: (convergence) -0.302336 degrees
Magnetic to Grid: 7.468789 degrees
To Convert a Magnetic Dir. to a GRID dir. Add 7.468789 Degr.

PathFinder Energy Services, Inc.

Magnetic & Grid Calculations

DEVON ENERGY
SNAPPING 10 FEDERAL #1H
EDDY COUNTY, NEW MEXICO

Thu Jul 29 17:10:49 2010

Coordinates

Latitude: 32.063892 N (32 deg. 3 min. 50.0095 sec.)
Longitude: 103.763831 W (-103 deg. 45 min. 49.7902 sec.)
Elevation: 3263.00 feet.
Calculation Date: Jul/23/2010

Magnetic Calculations

Model: IGRF2010
Dip Angle: 60.0261 degrees
Total Magnetic Field: 0.48589 gauss
Magnetic Declination: 7.771125 degrees
Horizontal Intensity: 0.242752 gauss
To Convert a Magnetic Dir. to a TRUE North Dir. Add 7.771125 Degr

Transverse Mercator Grid Calculations NAD83

Grid System: Transverse Mercator: new mexico east
Ellipsoid: GRS80
X: 717755.3000 feet
Y: 387446.8000 feet
True to Grid: (convergence) -0.302336 degrees
Magnetic to Grid: 7.468789 degrees
To Convert a Magnetic Dir. to a GRID dir. Add 7.468789 Degr.



August 24, 2010

Devon Energy
20 N. Broadway
Oklahoma City, OK

RE: Devon Energy
Snapping 10 Federal #1H
API: 30-015-37899
Eddy County, NM
RIG: MCVAY #6
FIELD: Wildcat; Bonespring
PES FILE NO.: 101011052-WT-WT

To whom it may concern:

We hereby certify that the enclosed Original Field Survey Data contained in this report represents to the best of our knowledge, a true and accurate survey of the well at the time the survey was run.

DIRECTIONAL SURVEY DATA
1 – Original survey report
2 – Survey report copies

We appreciate the opportunity to work with you and we look forward to your business support. If you have any questions, I can be reached at (432) 687-1647

Sincerely,

FRANCISCO SINISTERRA
M/LWD Service Coordinator
PathFinder Energy Services

ML:sh

