



A Schlumberger Company

DIRECTIONAL SURVEY REPORT

RECEIVED

AUG 07 2012

NMOCD ARTESIA

30-015-39036

DEVON ENERGY

SNAPPING 2 STATE #3H

EDDY COUNTY, NEW MEXICO

PREPARED BY: FRANCISCO SINISTERRA

Pathfinder

6213 WCR 112
Midland, Texas 79706
Tel (432)687-1647
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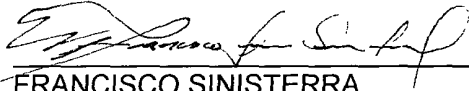
DIRECTIONAL SURVEY COMPANY REPORT:

1. NAME OF SURVEYING COMPANY: PATHFINDER ENERGY SERVICES
2. NAME OF PERSON(S) PERFORMING SURVEY:
A) JUAN ALCOCER
3. POSITION OF SAID PERSON(S): (A-F) SURVEYORS (FIELD ENGINEERS)
4. DATE(S) ON WHICH SURVEY WAS PERFORMED: 08-13-11 TO 08-21-11
5. STATE IN WHICH SURVEY WAS PERFORMED: NEW MEXICO
6. LOCATION OF WELL: EDDY COUNTY
7. TYPE OF SURVEY(S) PERFORMED: GAMMA-RAY
8. COMPLETE IDENTIFICATION OF WELL:

DEVON ENERGY
SNAPPING 2 STATE #3H
EDDY COUNTY, NM
RIG: H&P 416

9. SURVEY CERTIFIED FROM: 7622 TO 13081 FEET MEASURED DEPTH.

THIS IS TO VERIFY THAT ATTACHED DOCUMENTS SHOWING THE WELL TO BE
DISPLACED AT 4652.15 FEET ON A BEARING OF 356.77 DEGREES FROM THE
CENTER OF THE ROTARY TABLE AT A PROJECTED BIT DEPTH OF 13136 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: 08/12/2011
Date Completed: 08/21/2011

DEVON ENERGY CORPORATION
SNAPPING 2 STATE #3H
EDDY COUNTY, NM
Rig:H&P 416
PathFinder Office Supervisor: FRANCISCO SINISTERRA
PathFinder Field Engineers:JUAN ALCOCER
ALLAN ABRAHAM

Survey Horiz. Reference:WELLHEAD
Ref Coordinates: LAT:32.3.56.8495 N LON:103.45.19.3824 W
GRID Reference:NAD83 new mexico east Transverse Mercator
Ref GRID Coord: X: 720368.1800 Y: 388151.8900
North Aligned To:GRID NORTH
Total Magnetic Correction: 7.33° EAST TO GRID
Vertical Section Plane: 356.79
Survey Vert. Reference: 26.00' Kelly Bushing To Ground
Altitude:3244.10' Ground To MSL

Measured Depth	13136.00	(feet)
Inclination	90.04	(deg)
Azimuth	2.06	(deg)
True Vertical Depth	8560.08	(feet)
Vertical Section	4652.15	(feet)
Survey X cord	720106.46	(feet)
Survey Y cord	392796.67	(feet)
Survey Lat	32.07856309 N	(deg)
Survey Lon	103.75614865 W	(deg)
Rectangular Corr. N/S	4644.78 N	(feet)
Rectangular Corr. E/W	261.72 W	(feet)
Closure Distance	4652.15	(feet)
Direction of Closure	356.77	(deg)
Dogleg Severity	0.00	(deg/100ft)

PathFinder Energy Services, Inc.

Survey Report

DEVON ENERGY CORPORATION
SNAPPING 2 STATE #3H
EDDY COUNTY, NM
Rig:H&P 416
PathFinder Office Supervisor: FRANCISCO SINISTERRA
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Total Magnetic Correction: 7.33° EAST TO GRID
Vertical Section Plane: 356.79
Survey Vert. Reference: 26.00' Kelly Bushing To Ground
Altitude:3244.10' Ground To MSL

Survey Calculations by RX5 V6.03E using Minimum Curvature

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular (ft)	Offsets (ft)	Closure Dist (ft)	Dir (deg)	DLS (dg/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00 N	0.00 W	0.00@	327.69	0.00
THE FOLLOWING ARE SCIENTIFIC DRILLING GYRO SURVEYS.										
100.00	0.68	334.31	100.00	100.00	0.55	0.54 N	0.26 W	0.60@	334.26	0.68
200.00	0.23	346.34	200.00	100.00	1.30	1.27 N	0.56 W	1.39@	336.01	0.46
300.00	0.30	348.55	300.00	100.00	1.75	1.72 N	0.66 W	1.84@	338.90	0.07
400.00	0.24	350.17	400.00	100.00	2.22	2.18 N	0.75 W	2.31@	341.00	0.06
500.00	0.48	115.35	500.00	100.00	2.23	2.21 N	0.41 W	2.25@	349.52	0.65
600.00	1.32	115.12	599.98	100.00	1.48	1.54 N	1.01 E	1.84@	33.29	0.84
700.00	1.95	130.17	699.94	100.00	-0.23	0.04 S	3.36 E	3.36@	90.76	0.76
800.00	3.39	155.24	799.83	100.00	-4.15	3.83 S	5.89 E	7.03@	123.00	1.82
900.00	3.50	154.98	899.65	100.00	-9.73	9.28 S	8.42 E	12.53@	137.76	0.11
1000.00	3.48	156.05	999.47	100.00	-15.41	14.82 S	10.95 E	18.42@	143.54	0.07
1100.00	3.50	162.34	1099.28	100.00	-21.20	20.50 S	13.10 E	24.33@	147.41	0.38
1200.00	3.62	168.55	1199.09	100.00	-27.28	26.50 S	14.66 E	30.29@	151.06	0.40
1300.00	3.61	172.38	1298.89	100.00	-33.54	32.72 S	15.70 E	36.29@	154.36	0.24
1400.00	3.34	175.65	1398.71	100.00	-39.60	38.74 S	16.34 E	42.05@	157.13	0.34
1500.00	2.93	178.33	1498.56	100.00	-45.06	44.20 S	16.64 E	47.23@	159.38	0.43
1600.00	2.44	182.13	1598.45	100.00	-49.74	48.88 S	16.63 E	51.64@	161.21	0.52
1700.00	2.31	185.93	1698.36	100.00	-53.85	53.02 S	16.34 E	55.48@	162.87	0.20
1800.00	2.37	186.48	1798.28	100.00	-57.88	57.07 S	15.90 E	59.25@	164.43	0.06
1900.00	2.41	186.04	1898.19	100.00	-61.99	61.22 S	15.45 E	63.14@	165.84	0.04
2000.00	2.35	186.86	1998.10	100.00	-66.08	65.35 S	14.98 E	67.04@	167.09	0.07
2100.00	2.28	186.27	2098.02	100.00	-70.06	69.36 S	14.52 E	70.86@	168.18	0.07
2200.00	2.19	181.43	2197.95	100.00	-73.93	73.25 S	14.25 E	74.62@	168.99	0.21
2300.00	2.38	180.43	2297.87	100.00	-77.91	77.23 S	14.19 E	78.53@	169.59	0.19
2400.00	3.05	186.55	2397.75	100.00	-82.60	81.95 S	13.87 E	83.12@	170.39	0.73

PathFinder Energy Services, Inc.

Survey Report

DEVON ENERGY CORPORATION
SNAPPING 2 STATE #3H
EDDY COUNTY, NM
RIG:H&P 416

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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)
2500.00	2.65	192.19	2497.63	100.00	-87.45	86.85 S	13.08 E	87.83@	171.44	0.49
2600.00	1.98	184.52	2597.55	100.00	-91.39	90.84 S	12.46 E	91.69@	172.19	0.74
2700.00	1.75	183.73	2697.50	100.00	-94.62	94.08 S	12.22 E	94.87@	172.60	0.23
2800.00	1.83	185.75	2797.45	100.00	-97.71	97.19 S	11.96 E	97.93@	172.98	0.10
2900.00	1.70	190.47	2897.40	100.00	-100.73	100.24 S	11.53 E	100.90@	173.44	0.20
3000.00	1.14	180.66	2997.37	100.00	-103.16	102.69 S	11.25 E	103.31@	173.75	0.61
3100.00	0.88	166.24	3097.35	100.00	-104.91	104.44 S	11.42 E	105.06@	173.76	0.36
3200.00	0.31	179.96	3197.35	100.00	-105.94	105.45 S	11.60 E	106.09@	173.72	0.58
3300.00	0.42	290.95	3297.35	100.00	-106.06	105.59 S	11.26 E	106.19@	173.91	0.60
3400.00	0.20	321.33	3397.35	100.00	-105.76	105.32 S	10.81 E	105.88@	174.14	0.27
3500.00	1.04	108.62	3497.34	100.00	-105.96	105.48 S	11.56 E	106.11@	173.74	1.21
3600.00	1.70	118.30	3597.31	100.00	-107.07	106.47 S	13.73 E	107.35@	172.65	0.70
3700.00	2.05	120.96	3697.26	100.00	-108.85	108.09 S	16.57 E	109.36@	171.29	0.36
3800.00	3.40	146.00	3797.15	100.00	-112.40	111.47 S	19.76 E	113.21@	169.95	1.77
3900.00	1.69	161.05	3897.04	100.00	-116.37	115.33 S	21.90 E	117.39@	169.25	1.82
4000.00	1.00	185.97	3997.02	100.00	-118.65	117.59 S	22.29 E	119.68@	169.27	0.89
4100.00	0.79	171.86	4097.00	100.00	-120.20	119.14 S	22.29 E	121.21@	169.40	0.30
4200.00	0.86	182.58	4196.99	100.00	-121.63	120.57 S	22.36 E	122.63@	169.50	0.17
4300.00	0.49	170.74	4296.99	100.00	-122.81	121.74 S	22.39 E	123.78@	169.58	0.39
4400.00	0.44	163.05	4396.98	100.00	-123.60	122.53 S	22.57 E	124.59@	169.56	0.08
4500.00	0.37	151.63	4496.98	100.00	-124.27	123.18 S	22.84 E	125.28@	169.50	0.11
4600.00	0.42	154.46	4596.98	100.00	-124.90	123.80 S	23.15 E	125.94@	169.41	0.05
4700.00	0.47	173.51	4696.98	100.00	-125.65	124.54 S	23.35 E	126.71@	169.38	0.16
4800.00	0.46	177.69	4796.97	100.00	-126.46	125.35 S	23.42 E	127.51@	169.42	0.03
4900.00	0.50	172.26	4896.97	100.00	-127.30	126.18 S	23.49 E	128.35@	169.45	0.06
5000.00	0.52	202.03	4996.97	100.00	-128.14	127.03 S	23.38 E	129.17@	169.57	0.26
5100.00	0.56	205.28	5096.96	100.00	-128.98	127.89 S	23.00 E	129.95@	169.81	0.05
5200.00	0.51	210.13	5196.96	100.00	-129.78	128.72 S	22.57 E	130.68@	170.06	0.07

PathFinder Energy Services, Inc.

Survey Report

DEVON ENERGY CORPORATION
SNAPPING 2 STATE #3H
EDDY COUNTY, NM
RIG:H&P 416

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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)
5300.00	0.36	234.54	5296.95	100.00	-130.32	129.29 S	22.09 E	131.16@	170.30	0.24
5400.00	0.38	238.03	5396.95	100.00	-130.65	129.65 S	21.55 E	131.43@	170.56	0.03
5500.00	0.16	232.56	5496.95	100.00	-130.89	129.91 S	21.16 E	131.62@	170.75	0.22
5600.00	0.12	253.79	5596.95	100.00	-130.99	130.02 S	20.95 E	131.70@	170.85	0.06
5700.00	0.18	206.15	5696.95	100.00	-131.15	130.19 S	20.78 E	131.84@	170.93	0.13
5800.00	0.23	224.36	5796.95	100.00	-131.42	130.48 S	20.57 E	132.09@	171.04	0.08
5900.00	0.46	217.18	5896.95	100.00	-131.86	130.94 S	20.19 E	132.49@	171.24	0.23
6000.00	0.44	198.54	5996.94	100.00	-132.53	131.62 S	19.82 E	133.11@	171.44	0.15
6100.00	0.80	193.39	6096.94	100.00	-133.55	132.67 S	19.54 E	134.10@	171.62	0.36
6200.00	0.73	186.89	6196.93	100.00	-134.85	133.98 S	19.30 E	135.36@	171.80	0.11
6300.00	0.94	180.88	6296.92	100.00	-136.29	135.43 S	19.21 E	136.79@	171.93	0.23
6400.00	1.11	177.42	6396.90	100.00	-138.08	137.22 S	19.24 E	138.56@	172.02	0.18
6500.00	0.97	175.07	6496.89	100.00	-139.89	139.03 S	19.36 E	140.37@	172.07	0.15
6600.00	1.10	193.28	6596.87	100.00	-141.66	140.81 S	19.21 E	142.11@	172.23	0.35
6700.00	1.34	213.05	6696.85	100.00	-143.52	142.72 S	18.35 E	143.90@	172.67	0.48
6800.00	1.66	211.94	6796.81	100.00	-145.65	144.93 S	16.95 E	145.92@	173.33	0.32
6900.00	1.13	214.31	6896.78	100.00	-147.62	146.97 S	15.63 E	147.80@	173.93	0.53
7000.00	1.40	210.81	6996.76	100.00	-149.41	148.84 S	14.44 E	149.54@	174.46	0.28
7100.00	1.41	209.97	7096.73	100.00	-151.45	150.95 S	13.20 E	151.53@	175.00	0.02
7200.00	1.35	206.89	7196.70	100.00	-153.50	153.07 S	12.06 E	153.54@	175.50	0.10
7300.00	1.33	200.28	7296.67	100.00	-155.59	155.21 S	11.12 E	155.61@	175.90	0.16
7400.00	1.24	182.93	7396.65	100.00	-157.73	157.38 S	10.66 E	157.74@	176.12	0.40
** TIE IN TO SCIENTIFIC DRILLING GYRO SURVEYS.										
7475.00	1.27	171.86	7471.63	75.00	-159.36	159.01 S	10.74 E	159.37@	176.14	0.33
THE FOLLOWING ARE PATHFINDER MWD SURVEYS.										
7622.00	1.41	167.38	7618.59	147.00	-162.77	162.39 S	11.37 E	162.78@	176.00	0.12
7716.00	1.32	160.96	7712.56	94.00	-164.95	164.54 S	11.97 E	164.97@	175.84	0.19
7811.00	1.58	157.97	7807.53	95.00	-167.24	166.79 S	12.82 E	167.28@	175.60	0.28

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Survey Report

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SNAPPING 2 STATE #3H
EDDY COUNTY, NM
RIG:H&P 416

Page 04/07

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)
7842.00	0.97	157.10	7838.53	31.00	-167.90	167.43 S	13.08 E	167.94@	175.53	1.97
7874.00	1.06	305.28	7870.52	32.00	-167.97	167.50 S	12.95 E	168.00@	175.58	6.10
7905.00	3.78	315.21	7901.49	31.00	-167.02	166.61 S	11.99 E	167.04@	175.88	8.85
7937.00	7.21	317.41	7933.34	32.00	-164.68	164.39 S	9.89 E	164.68@	176.56	10.74
7969.00	10.55	317.76	7964.95	32.00	-160.85	160.74 S	6.56 E	160.87@	177.66	10.44
8000.00	13.72	318.20	7995.26	31.00	-155.77	155.89 S	2.20 E	155.91@	179.19	10.23
8032.00	16.71	318.64	8026.13	32.00	-149.19	149.61 S	3.37 W	149.65@	181.29	9.35
8063.00	19.43	318.67	8055.60	31.00	-141.63	142.39 S	9.72 W	142.72@	183.91	8.77
8095.00	21.46	319.04	8085.58	32.00	-132.81	133.98 S	17.07 W	135.06@	187.26	6.36
8127.00	24.01	320.01	8115.09	32.00	-122.96	124.57 S	25.10 W	127.07@	191.39	8.05
8158.00	25.85	319.35	8143.20	31.00	-112.55	114.60 S	33.55 W	119.42@	196.32	6.00
8190.00	27.79	321.61	8171.76	32.00	-100.91	103.46 S	42.73 W	111.94@	202.44	6.85
8221.00	30.16	322.71	8198.88	31.00	-88.55	91.60 S	51.94 W	105.30@	209.55	7.84
8253.00	32.45	323.17	8226.22	32.00	-74.74	78.33 S	61.96 W	99.87@	218.34	7.20
8284.00	35.00	323.43	8252.00	31.00	-60.39	64.53 S	72.24 W	96.87@	228.22	8.24
8316.00	37.99	324.95	8277.72	32.00	-44.35	49.10 S	83.37 W	96.75@	239.50	9.76
8347.00	40.98	325.58	8301.64	31.00	-27.55	32.90 S	94.59 W	100.15@	250.82	9.73
8379.00	43.44	325.76	8325.35	32.00	-9.15	15.14 S	106.72 W	107.79@	261.92	7.70
8410.00	46.60	326.31	8347.26	31.00	9.70	3.04 N	118.96 W	119.00@	271.46	10.27
8442.00	49.51	326.96	8368.64	32.00	30.28	22.92 N	132.05 W	134.02@	279.85	9.22
8474.00	52.14	327.62	8388.85	32.00	51.87	43.79 N	145.45 W	151.90@	286.76	8.37
8505.00	55.13	329.67	8407.24	31.00	73.88	65.11 N	158.43 W	171.29@	292.34	11.02
8537.00	57.60	331.15	8424.96	32.00	97.75	88.28 N	171.58 W	192.96@	297.23	8.63
8568.00	59.97	332.77	8441.02	31.00	121.81	111.68 N	184.04 W	215.27@	301.25	8.86
8600.00	62.52	334.93	8456.42	32.00	147.64	136.86 N	196.39 W	239.38@	304.87	9.92
8631.00	65.16	337.05	8470.09	31.00	173.65	162.27 N	207.71 W	263.58@	308.00	10.50
8663.00	67.18	338.94	8483.02	32.00	201.36	189.41 N	218.67 W	289.30@	310.90	8.31
8694.00	69.12	341.91	8494.55	31.00	228.96	216.52 N	228.31 W	314.65@	313.48	10.87

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EDDY COUNTY, NM
RIG:H&P 416

Page 05/07

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)
8726.00	71.84	344.30	8505.25	32.00	258.26	245.37 N	237.06 W	341.18@	315.99	11.04
8758.00	74.83	344.96	8514.42	32.00	288.23	274.93 N	245.19 W	368.38@	318.27	9.55
8789.00	78.17	345.86	8521.66	31.00	317.77	304.10 N	252.78 W	395.44@	320.27	11.14
8821.00	81.16	348.20	8527.40	32.00	348.79	334.77 N	259.84 W	423.78@	322.18	11.79
8852.00	81.95	350.70	8531.95	31.00	379.20	364.91 N	265.45 W	451.25@	323.97	8.37
8884.00	82.48	353.62	8536.29	32.00	410.80	396.32 N	269.78 W	479.42@	325.76	9.19
8915.00	84.24	355.54	8539.87	31.00	441.57	426.97 N	272.68 W	506.61@	327.44	8.37
8938.00	86.00	357.16	8541.83	23.00	464.48	449.84 N	274.14 W	526.79@	328.64	10.38
8969.00	88.02	359.20	8543.45	31.00	495.43	480.78 N	275.12 W	553.93@	330.22	9.25
9001.00	88.55	0.13	8544.40	32.00	527.37	512.76 N	275.31 W	582.00@	331.77	3.34
9033.00	88.46	0.09	8545.24	32.00	559.31	544.75 N	275.25 W	610.34@	333.19	0.31
9064.00	88.90	1.18	8545.95	31.00	590.23	575.74 N	274.91 W	638.00@	334.48	3.79
9096.00	89.96	1.87	8546.27	32.00	622.12	607.72 N	274.05 W	666.66@	335.73	3.95
9127.00	90.13	2.12	8546.25	31.00	652.99	638.71 N	272.98 W	694.59@	336.86	0.97
9159.00	90.92	2.97	8545.95	32.00	684.83	670.67 N	271.55 W	723.56@	337.96	3.63
9253.00	90.13	3.83	8545.09	94.00	778.20	764.50 N	265.98 W	809.45@	340.82	1.24
9348.00	90.04	4.44	8544.95	95.00	872.42	859.25 N	259.13 W	897.48@	343.22	0.65
9443.00	90.92	5.20	8544.16	95.00	966.48	953.91 N	251.15 W	986.42@	345.25	1.22
9537.00	89.78	4.37	8543.58	94.00	1059.56	1047.58 N	243.31 W	1075.46@	346.92	1.50
9632.00	88.99	1.44	8544.60	95.00	1154.00	1142.44 N	238.49 W	1167.07@	348.21	3.19
9726.00	89.52	1.76	8545.82	94.00	1247.67	1236.40 N	235.87 W	1258.70@	349.20	0.66
9821.00	90.04	2.73	8546.19	95.00	1342.23	1331.32 N	232.15 W	1351.41@	350.11	1.16
9915.00	89.16	1.48	8546.85	94.00	1435.82	1425.25 N	228.69 W	1443.49@	350.88	1.63
10010.00	88.90	359.93	8548.45	95.00	1530.59	1520.23 N	227.53 W	1537.16@	351.49	1.65
10105.00	89.87	359.11	8549.47	95.00	1625.47	1615.22 N	228.32 W	1631.28@	351.95	1.34
10199.00	90.04	358.93	8549.55	94.00	1719.40	1709.21 N	229.93 W	1724.60@	352.34	0.26
10294.00	89.16	358.98	8550.21	95.00	1814.33	1804.19 N	231.66 W	1819.00@	352.68	0.93
10389.00	90.57	359.00	8550.43	95.00	1909.25	1899.17 N	233.34 W	1913.45@	353.00	1.48

PathFinder Energy Services, Inc.

Survey Report

DEVON ENERGY CORPORATION
SNAPPING 2 STATE #3H
EDDY COUNTY, NM
RIG:H&P 416

Page 06/07

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)
10483.00	91.71	358.76	8548.56	94.00	2003.17	1993.13 N	235.17 W	2006.96@ 353.27	1.24
10578.00	91.98	358.70	8545.51	95.00	2098.07	2088.06 N	237.28 W	2101.50@ 353.52	0.29
10672.00	89.08	358.07	8544.64	94.00	2192.02	2182.01 N	239.93 W	2195.16@ 353.73	3.16
10767.00	88.11	356.50	8546.97	95.00	2286.98	2276.87 N	244.43 W	2289.95@ 353.87	1.94
10861.00	89.08	357.97	8549.27	94.00	2380.95	2370.73 N	248.96 W	2383.76@ 354.01	1.87
10956.00	89.34	358.23	8550.58	95.00	2475.91	2465.66 N	252.11 W	2478.52@ 354.16	0.39
11051.00	89.87	358.61	8551.24	95.00	2570.87	2560.63 N	254.73 W	2573.26@ 354.32	0.69
11145.00	89.60	358.66	8551.67	94.00	2664.82	2654.60 N	256.97 W	2667.01@ 354.47	0.29
11240.00	90.92	359.21	8551.24	95.00	2759.75	2749.58 N	258.73 W	2761.72@ 354.62	1.51
11334.00	91.10	359.84	8549.58	94.00	2853.63	2843.56 N	259.51 W	2855.38@ 354.79	0.70
11429.00	91.36	0.10	8547.54	95.00	2948.46	2938.54 N	259.56 W	2949.98@ 354.95	0.39
11524.00	91.98	0.73	8544.77	95.00	3043.23	3033.49 N	258.87 W	3044.52@ 355.12	0.93
11618.00	90.40	1.45	8542.82	94.00	3136.94	3127.45 N	257.09 W	3138.00@ 355.30	1.85
11713.00	89.87	0.17	8542.60	95.00	3231.70	3222.44 N	255.74 W	3232.57@ 355.46	1.46
11807.00	90.75	0.54	8542.09	94.00	3325.52	3316.44 N	255.16 W	3326.24@ 355.60	1.02
11902.00	88.99	0.14	8542.31	95.00	3420.33	3411.43 N	254.60 W	3420.92@ 355.73	1.90
11997.00	89.69	359.84	8543.40	95.00	3515.18	3506.42 N	254.61 W	3515.66@ 355.85	0.80
12091.00	90.57	0.33	8543.19	94.00	3609.02	3600.42 N	254.47 W	3609.40@ 355.96	1.07
12186.00	87.58	357.72	8544.72	95.00	3703.92	3695.38 N	256.09 W	3704.24@ 356.04	4.18
12281.00	87.58	357.15	8548.73	95.00	3798.83	3790.20 N	260.34 W	3799.13@ 356.07	0.60
12375.00	87.49	357.94	8552.77	94.00	3892.73	3884.02 N	264.36 W	3893.01@ 356.11	0.85
12470.00	88.81	358.87	8555.84	95.00	3987.64	3978.93 N	267.00 W	3987.88@ 356.16	1.70
12564.00	89.25	359.18	8557.43	94.00	4081.56	4072.91 N	268.60 W	4081.75@ 356.23	0.57
12659.00	89.60	359.72	8558.39	95.00	4176.45	4167.90 N	269.51 W	4176.60@ 356.30	0.68
12753.00	89.96	0.00	8558.75	94.00	4270.31	4261.89 N	269.74 W	4270.42@ 356.38	0.49
12848.00	89.52	0.63	8559.18	95.00	4365.13	4356.89 N	269.22 W	4365.20@ 356.46	0.81
12942.00	90.40	1.38	8559.24	94.00	4458.88	4450.88 N	267.57 W	4458.91@ 356.56	1.23
13037.00	88.99	1.60	8559.75	95.00	4553.55	4545.84 N	265.10 W	4553.56@ 356.66	1.50

PathFinder Energy Services, Inc.

Survey Report

DEVON ENERGY CORPORATION
SNAPPING 2 STATE #3H
EDDY COUNTY, NM
RIG:H&P 416

Page 07/07

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets		Closure Dist Dir		DLS
						(ft)	(ft)	(ft)	(deg)	(dg/100ft)
13081.00	90.04	2.06	8560.12	44.00	4597.38	4589.82 N	263.70 W	4597.38@	356.71	2.61
STRAIGHT LINE PROJECTION TO BIT @ 13136' MD.										
13136.00	90.04	2.06	8560.08	55.00	4652.15	4644.78 N	261.72 W	4652.15@	356.77	0.00

** The survey data at tie-in point was furnished by a recognized survey company and entered as submitted. Survey stations above the tie-in point represent recalculated data by PathFinder Energy Services, Inc. and may reflect minor changes due to rounding differences between survey programs. Only survey stations taken by qualified PathFinder personnel are subject to certification.



A Schlumberger Company

TIE-IN SURVEY INFORMATION SHEET

CLIENT INFORMATION

CLIENT:	DEVON ENERGY		
LEASE / WELL No.:	SNAPPING 2 STATE	#3H	
WELL LOCATION:	EDDY COUNTY, NM		
COUNTY / STATE / COUNTRY:	EDDY	NM	USA
RIG:	H&P 416		
API WELL No:	30-015-39036		
JOB No:	700003303 WT-WT		
P.O. / AFE No.	160476		
DIRECTIONAL COMPANY:	PATHFINDER		

WELL SITE INFORMATION

TOTAL MAGNETIC CORRECTION (TMC):			
On Wall Plat:	7.33	LWD Calculated:	7.33
Agreed Upon:		7.33	
X =	720368 180000	Feet	Y = 388151 890000
		Feet	
SITE LATITUDE:	32.065792 N	SITE LONGITUDE:	103.755384 W
GRID SYSTEM:	TRUE ☐ UTM ☒ LAMBERT ☐	ZONE:	NEW MEXICO EAST
PROPOSED DRIFT DIRECTION:	356.79		
KELLY BUSHING ELEVATION:	26 FT		
ALTITUDE:	3244.1	Feet	WATER DEPTH: N/A
		Feet	

TIE-IN SURVEY

MEASURED DEPTH:	7475		
DRIFT ANGLE:	1.27		
DRIFT DIRECTION:	171 86		
TRUE VERTICAL DEPTH:	7471.63		
VERTICAL SECTION:	-159.36		
RECTANGULAR COORDINATE (N / S) :	-159.01		
RECTANGULAR COORDINATE (E / W) :	10.74		
CLOSURE DISTANCE / DIRECTION:	159.37	176.14	
SURVEY CALCULATION METHOD:	AA ☐	MC ☒	RC ☐ BT ☐
SOURCE OF TIE-IN DATA (COMPANY):	SCIENTIFIC DRILLING GYRO SURVEYS		
COPY OF TIE-IN SURVEY REPORT	☒ YES		☐ NO

WELL PLAN

KICKOFF DEPTH:	7860'	TOTAL DEPTH:	13144 48'
KICKOFF ANGLE:	0	MAX ANGLE:	90

PES Engineers: JUAN ALCOCER
ALLAN ABRAHAM

**Signature of both field engineers required if applicable

Directional Driller: MANUEL CERVANTES

DATE: 12-Aug-2011

Plan #3.txt

H HEADER INFORMATION -----
 H COMPANY : Devon Energy, Inc.
 H FIELD : Eddy County
 H SITE : Snapping 2 State
 H WELL : #3H
 H WELLPATH: OH
 H DEPTHUNT: usft
 H SURVDATE: 1/1/1990
 H-----

H WELL INFORMATION
 H WELL EW MAP : 720368.18
 H WELL NS MAP : 388151.89
 H DATUM ELEVN : 3270.10
 H VSECT ANGLE : 356.79
 H VSECT NORTH : 0.00
 H VSECT EAST : 0.00
 H-----

H SURVEY TYPE INFORMATION
 H 100.00 - 7475.00 SURVEY #1 - GRO : CB-GYRO-MS
 H 7475.00 - 13143.96 PLAN #3 : PATHFINDER
 H-----

H SURVEY LIST

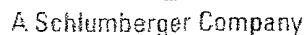
H MD	INC	AZI	TVD	NS	EW
0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.68	334.31	100.00	0.53	-0.26
200.00	0.23	346.34	199.99	1.26	-0.56
300.00	0.30	348.55	299.99	1.72	-0.66
400.00	0.24	350.17	399.99	2.18	-0.75
500.00	0.48	115.35	499.99	2.21	-0.41
600.00	1.32	115.12	599.98	1.54	1.02
700.00	1.95	130.17	699.94	-0.05	3.36
800.00	3.39	155.24	799.83	-3.83	5.90
900.00	3.50	154.98	899.65	-9.28	8.43
1000.00	3.48	156.05	999.46	-14.82	10.95
1100.00	3.50	162.34	1099.28	-20.50	13.11
1200.00	3.62	168.55	1199.09	-26.51	14.66
1300.00	3.61	172.38	1298.89	-32.72	15.70
1400.00	3.34	175.65	1398.70	-38.75	16.34
1500.00	2.93	178.33	1498.55	-44.21	16.64
1600.00	2.44	182.13	1598.44	-48.89	16.63
1700.00	2.31	185.93	1698.36	-53.02	16.35
1800.00	2.37	186.48	1798.27	-57.08	15.90
1900.00	2.41	186.04	1898.19	-61.22	15.45
2000.00	2.35	186.86	1998.10	-65.35	14.98
2100.00	2.28	186.27	2098.02	-69.36	14.52
2200.00	2.19	181.43	2197.94	-73.25	14.26
2300.00	2.38	180.43	2297.86	-77.24	14.19
2400.00	3.05	186.55	2397.75	-81.96	13.87
2500.00	2.65	192.19	2497.63	-86.86	13.08
2600.00	1.98	184.52	2597.54	-90.84	12.46
2700.00	1.75	183.73	2697.49	-94.09	12.22
2800.00	1.83	185.75	2797.44	-97.20	11.96
2900.00	1.70	190.47	2897.40	-100.25	11.53
3000.00	1.14	180.66	2997.36	-102.70	11.25
3100.00	0.88	166.24	3097.35	-104.44	11.42
3200.00	0.31	179.96	3197.34	-105.46	11.61
3300.00	0.42	290.95	3297.34	-105.60	11.26
3400.00	0.20	321.33	3397.34	-105.33	10.81
3500.00	1.04	108.62	3497.34	-105.48	11.56
3600.00	1.70	118.30	3597.31	-106.47	13.73
3700.00	2.05	120.96	3697.25	-108.10	16.57
3800.00	3.40	146.00	3797.14	-111.48	19.76
3900.00	1.69	161.05	3897.04	-115.33	21.90

plan #3.txt

4000.00	1.00	185.97	3997.01	-117.59	22.29
4100.00	0.79	171.86	4097.00	-119.14	22.29
4200.00	0.86	182.58	4196.99	-120.58	22.36
4300.00	0.49	170.74	4296.98	-121.75	22.39
4400.00	0.44	163.05	4396.98	-122.54	22.57
4500.00	0.37	151.63	4496.98	-123.19	22.84
4600.00	0.42	154.46	4596.97	-123.80	23.15
4700.00	0.47	173.51	4696.97	-124.54	23.36
4800.00	0.46	177.69	4796.97	-125.35	23.42
4900.00	0.50	172.26	4896.96	-126.18	23.49
5000.00	0.52	202.03	4996.96	-127.04	23.38
5100.00	0.56	205.28	5096.96	-127.90	23.00
5200.00	0.51	210.13	5196.95	-128.73	22.57
5300.00	0.36	234.54	5296.95	-129.29	22.09
5400.00	0.38	238.03	5396.95	-129.65	21.55
5500.00	0.16	232.56	5496.95	-129.91	21.16
5600.00	0.12	253.79	5596.95	-130.02	20.95
5700.00	0.18	206.15	5696.95	-130.19	20.78
5800.00	0.23	224.36	5796.94	-130.48	20.57
5900.00	0.46	217.18	5896.94	-130.94	20.19
6000.00	0.44	198.54	5996.94	-131.63	19.82
6100.00	0.80	193.39	6096.93	-132.67	19.54
6200.00	0.73	186.89	6196.93	-133.98	19.30
6300.00	0.94	180.88	6296.91	-135.43	19.21
6400.00	1.11	177.42	6396.90	-137.22	19.24
6500.00	0.97	175.07	6496.88	-139.03	19.36
6600.00	1.10	193.28	6596.87	-140.81	19.21
6700.00	1.34	213.05	6696.84	-142.72	18.35
6800.00	1.66	211.94	6796.81	-144.93	16.95
6900.00	1.13	214.31	6896.78	-146.98	15.63
7000.00	1.40	210.81	6996.75	-148.84	14.45
7100.00	1.41	209.97	7096.72	-150.96	13.21
7200.00	1.35	206.89	7196.70	-153.07	12.06
7300.00	1.33	200.28	7296.67	-155.21	11.12
7400.00	1.24	182.93	7396.64	-157.38	10.67
7475.00	1.27	171.86	7471.63	-159.01	10.74
7500.00	0.77	171.86	7496.62	-159.45	10.81
7538.50	0.00	0.00	7535.12	-159.71	10.84
7600.00	0.00	0.00	7596.62	-159.71	10.84
7700.00	0.00	0.00	7696.62	-159.71	10.84
7800.00	0.00	0.00	7796.62	-159.71	10.84
7910.00	0.00	0.00	7906.62	-159.71	10.84
7950.00	4.00	315.27	7946.59	-158.72	9.86
8000.00	9.00	315.27	7996.25	-154.70	5.88
8050.00	14.00	315.27	8045.23	-147.62	-1.13
8100.00	19.00	315.27	8093.16	-137.53	-11.13
8150.00	24.00	315.27	8139.66	-124.52	-24.02
8200.00	29.00	315.27	8184.40	-108.67	-39.71
8250.00	34.00	315.27	8227.01	-90.12	-58.09
8300.00	39.00	315.27	8267.19	-69.00	-79.02
8340.93	43.09	315.27	8298.06	-49.90	-97.93
8341.85	43.09	315.27	8298.73	-49.46	-98.37
8350.00	43.58	316.22	8304.66	-45.45	-102.27
8400.00	46.73	321.70	8339.92	-18.70	-125.49
8450.00	50.12	326.62	8373.11	11.62	-147.34
8500.00	53.69	331.07	8403.96	45.30	-167.65
8550.00	57.42	335.12	8432.25	82.06	-186.27
8600.00	61.26	338.84	8457.75	121.64	-203.06
8650.00	65.20	342.29	8480.27	163.72	-217.89
8700.00	69.21	345.52	8499.64	208.00	-230.65
8750.00	73.28	348.59	8515.72	254.13	-241.23
8800.00	77.39	351.53	8528.37	301.76	-249.56
8850.00	81.54	354.38	8537.51	350.53	-255.58

Plan #3.txt

8900.00	85.70	357.16	8543.07	400.07	-259.24
8951.48	90.00	0.00	8545.00	451.48	-260.51
9000.00	90.00	0.00	8545.00	500.00	-260.51
9100.00	90.00	0.00	8545.00	600.00	-260.51
9200.00	90.00	0.00	8545.00	700.00	-260.51
9300.00	90.00	0.00	8545.00	800.00	-260.51
9400.00	90.00	0.00	8545.00	900.00	-260.51
9500.00	90.00	0.00	8545.00	1000.00	-260.51
9600.00	90.00	0.00	8545.00	1100.00	-260.51
9700.00	90.00	0.00	8545.00	1200.00	-260.51
9800.00	90.00	0.00	8545.00	1300.00	-260.51
9900.00	90.00	0.00	8545.00	1400.00	-260.51
10000.00	90.00	0.00	8545.00	1500.00	-260.51
10100.00	90.00	0.00	8545.00	1600.00	-260.51
10200.00	90.00	0.00	8545.00	1700.00	-260.51
10300.00	90.00	0.00	8545.00	1800.00	-260.51
10400.00	90.00	0.00	8545.00	1900.00	-260.51
10500.00	90.00	0.00	8545.00	2000.00	-260.51
10600.00	90.00	0.00	8545.00	2100.00	-260.51
10700.00	90.00	0.00	8545.00	2200.00	-260.51
10800.00	90.00	0.00	8545.00	2300.00	-260.51
10900.00	90.00	0.00	8545.00	2400.00	-260.51
11000.00	90.00	0.00	8545.00	2500.00	-260.51
11100.00	90.00	0.00	8545.00	2600.00	-260.51
11200.00	90.00	0.00	8545.00	2700.00	-260.51
11300.00	90.00	0.00	8545.00	2800.00	-260.51
11400.00	90.00	0.00	8545.00	2900.00	-260.51
11500.00	90.00	0.00	8545.00	3000.00	-260.51
11600.00	90.00	0.00	8545.00	3100.00	-260.51
11700.00	90.00	0.00	8545.00	3200.00	-260.51
11800.00	90.00	0.00	8545.00	3300.00	-260.51
11900.00	90.00	0.00	8545.00	3400.00	-260.51
12000.00	90.00	0.00	8545.00	3500.00	-260.51
12100.00	90.00	0.00	8545.00	3600.00	-260.51
12200.00	90.00	0.00	8545.00	3700.00	-260.51
12300.00	90.00	0.00	8545.00	3800.00	-260.51
12400.00	90.00	0.00	8545.00	3900.00	-260.51
12500.00	90.00	0.00	8545.00	4000.00	-260.51
12600.00	90.00	0.00	8545.00	4100.00	-260.51
12700.00	90.00	0.00	8545.00	4200.00	-260.51
12800.00	90.00	0.00	8545.00	4300.00	-260.51
12900.00	90.00	0.00	8545.00	4400.00	-260.51
13000.00	90.00	0.00	8545.00	4500.00	-260.51
13100.00	90.00	0.00	8545.00	4600.00	-260.51
13144.48	90.00	0.00	8545.00	4644.48	-260.51



Magnetic & Grid Calculations

DEVON ENERGY
SNAPPING 2 STATE #3H
EDDY COUNTY, NEW MEXICO
Rig:HP 416

Thu Aug 11 09:40:43 2011

Coordinates

Latitude: 32.065792 N (32 deg. 3 min. 56.8495 sec.)

Longitude: 103.755384 W (-103 deg. 45 min. 19.3824 sec.)

Elevation: 3269.10 feet.

Calculation Date: Aug/11/2011

Magnetic Calculations

Model:	IGRF2010
Dip Angle:	60.0040 degrees
Total Magnetic Field:	0.48486 gauss
Magnetic Declination:	7.639025 degrees
Horizontal Intensity:	0.242400 gauss
To Convert a Magnetic Dir. to a TRUE North Dir. Add 7.639025 Degr	

Transverse Mercator Grid Calculations NAD83

Grid System:	Transverse Mercator: new mexico east
Ellipsoid:	GRS80
X:	720368.1800 feet
Y:	388151.8900 feet
True to Grid: (convergence)	-0.306837 degrees
Magnetic to Grid:	7.332188 degrees
To Convert a Magnetic Dir. to a GRID dir. Add 7.332188 Degs.	

FIELD CALCULATION
PathFinder Energy Services, Inc.
Magnetic & Grid Calculations

DEVON ENERGY
SNAPPING 2 STATE #3H
EDDY COUNTY, NM
Rig:HP 416

Fri Aug 12 16:09:10 2011

Coordinates

Latitude: 32.065792 N (32 deg. 3 min. 56.8495 sec.)
Longitude: 103.755384 W (-103 deg. 45 min. 19.3824 sec.)
Elevation: 3270.10 feet.
Calculation Date: Aug/12/2011

Magnetic Calculations

Model: IGRF2010
Dip Angle: 60.0039 degrees
Total Magnetic Field: 0.48485 gauss
Magnetic Declination: 7.638691 degrees
Horizontal Intensity: 0.242399 gauss
To Convert a Magnetic Dir. to a TRUE North Dir. Add 7.638691 Degr

Transverse Mercator Grid Calculations NAD83

Grid System: Transverse Mercator: new mexico east
Ellipsoid: GRS80
X: 720368.1800 feet
Y: 388151.8900 feet
True to Grid: (convergence) -0.306837 degrees
Magnetic to Grid: 7.331854 degrees
To Convert a Magnetic Dir. to a GRID dir. Add 7.331854 Degr.

DEVON ENERGY

Wildcat (Eddy County, NM)

Eddy County, NM

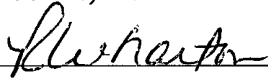
Snapping 2 State #3H

VH - Job #32K0811765

Survey: Actual

SDI Standard Survey Report

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



Notarized this date 27th of September, 2011.



Notary Signature
County of Midland
State of Texas



Scientific Drilling International, Inc.
SDI Standard Survey Report



Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well Snapping 2 State #3H
Project:	Wildcat (Eddy County, NM)	TVD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Well:	Snapping 2 State #3H	North Reference:	Grid
Wellbore:	VH - Job #32K0811765	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0811765	Database:	EDM-Regulatory

Project	Wildcat (Eddy County, NM)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		Eddy County, NM			
Site Position:		Northing:	387,530.63 usft	Latitude:	32° 3' 50.850 N
From:	Lat/Long	Easting:	717,555.20 usft	Longitude:	103° 45' 52.110 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"	Grid Convergence:	0.30 °

Well	Snapping 2 State #3H, Directional (Pathfinder)					
Well Position	+N/-S	0 0 usft	Northing:	388,151.88 usft	Latitude:	32° 3' 56.849 N
	+E/-W	0 0 usft	Easting:	720,368.18 usft	Longitude:	103° 45' 19.382 W
Position Uncertainty		0 0 usft	Wellhead Elevation:	usft	Ground Level:	0 0 usft

Wellbore	VH - Job #32K0811765				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	8/12/2011	7 64	60 00	48,510

Design		VH - Job #32K0811765			
Audit Notes:					
Version:		1 0	Phase:	ACTUAL	Tie On Depth: 0 0
Vertical Section:		Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
		0 0	0 0	0 0	356.75

Survey Program		Date : 10/13/2011		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	7,475.0	Actual (VH - Job #32K0811765)	Keeper	Keeper Gyro

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
0 0	0 00	0 00	0 0	0 0	0 0	0 00	0 0
100 0	0 68	334 31	100 0	0 5	-0 3	334 31	0 6
200 0	0 23	346 34	200 0	1 3	-0 6	336 04	1 4
300 0	0 30	348 55	300 0	1 7	-0 7	338 93	1 8
400 0	0 24	350 17	400 0	2 2	-0 7	341 03	2 3
500 0	0 48	115 35	500 0	2 2	-0 4	349 57	2 2
600 0	1 32	115 12	600 0	1 5	1 0	33 43	1 8
700 0	1 95	130 17	699 9	0 0	3 4	90 83	3 4
800 0	3 39	155 24	799 8	-3 8	5 9	123 01	7 0
900 0	3 50	154 98	899 6	-9 3	8 4	137 77	12 5
1,000 0	3 48	156 05	999 5	-14 8	10 9	143 55	18 4
1,100 0	3 50	162 34	1,099 3	-20 5	13 1	147 41	24 3

Scientific Drilling International, Inc.

SDI Standard Survey Report



Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well Snapping 2 State #3H
Project:	Wildcat (Eddy County, NM)	TVD Reference:	WELL @ 0 0usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0 0usft (Original Well Elev)
Well:	Snapping 2 State #3H	North Reference:	Grid
Wellbore:	VH - Job #32K0811765	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0811765	Database:	EDM-Regulatory

Survey							
Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
1,200 0	3 62	168 55	1,199 1	-26 5	14 7	151 05	30 3
1,300 0	3 61	172 38	1,298 9	-32 7	15 7	154 36	36 3
1,400 0	3 34	175 65	1,398 7	-38 7	16 3	157 13	42 1
1,500 0	2 93	178 33	1,498 6	-44 2	16 6	159 38	47 2
1,600 0	2 44	182 13	1,598 4	-48 9	16 6	161 21	51 6
1,700 0	2 31	185 93	1,698 4	-53 0	16 3	162 87	55 5
1,800 0	2 37	186 48	1,798 3	-57 1	15 9	164 43	59 3
1,900 0	2 41	186 04	1,898 2	-61 2	15 4	165 84	63 1
2,000 0	2 35	186 86	1,998 1	-65 3	15 0	167 09	67 0
2,100 0	2 28	186 27	2,098 0	-69 4	14 5	168 18	70 9
2,200 0	2 19	181 43	2,197 9	-73 3	14 3	168 99	74 6
2,300 0	2 38	180.43	2,297 9	-77 2	14 2	169 59	78 5
2,400 0	3 05	186 55	2,397 8	-82.0	13 9	170 39	83 1
2,500 0	2 65	192 19	2,497 6	-86 9	13 1	171 43	87 8
2,600 0	1 98	184 52	2,597 5	-90 8	12 5	172 19	91.7
2,700 0	1 75	183 73	2,697 5	-94 1	12 2	172 60	94 9
2,800 0	1 83	185 75	2,797 4	-97 2	12 0	172 98	97 9
2,900 0	1 70	190 47	2,897 4	-100 2	11 5	173 44	100 9
3,000 0	1 14	180 66	2,997 4	-102 7	11 3	173 75	103 3
3,100 0	0 88	166 24	3,097 3	-104.4	11 4	173 76	105 1
3,200 0	0 31	179 96	3,197 3	-105 5	11 6	173 72	106 1
3,300 0	0 42	290 95	3,297 3	-105 6	11 3	173 91	106 2
3,400 0	0 20	321 33	3,397 3	-105 3	10 8	174 14	105 9
3,500 0	1 04	108 62	3,497 3	-105 5	11 6	173 74	106 1
3,600 0	1 70	118 30	3,597 3	-106 5	13 7	172 65	107 4
3,700 0	2 05	120 96	3,697 3	-108 1	16 6	171 28	109 4
3,800 0	3 40	146 00	3,797 1	-111 5	19 8	169 95	113 2
3,900 0	1 69	161 05	3,897 0	-115.3	21 9	169 25	117 4
4,000 0	1 00	185 97	3,997 0	-117 6	22 3	169 27	119 7
4,100 0	0 79	171 86	4,097 0	-119 1	22 3	169 40	121 2
4,200 0	0 86	182 58	4,197 0	-120 6	22 4	169 49	122 6
4,300 0	0 49	170 74	4,297 0	-121 7	22 4	169 58	123 8
4,400 0	0 44	163 05	4,397 0	-122 5	22 6	169 56	124 6
4,500 0	0 37	151 63	4,497 0	-123 2	22 8	169 50	125 3
4,600 0	0 42	154 46	4,597 0	-123 8	23 2	169 41	125 9
4,700 0	0 47	173 51	4,697 0	-124 5	23 4	169 38	126 7
4,800 0	0 46	177 69	4,797 0	-125 3	23 4	169 42	127 5
4,900 0	0 50	172 26	4,897 0	-126 2	23 5	169 45	128 4
5,000 0	0 52	202 03	4,997 0	-127 0	23 4	169 57	129 2
5,100 0	0 56	205 28	5,097 0	-127 9	23 0	169 80	130 0
5,200 0	0 51	210 13	5,197 0	-128 7	22 6	170 05	130 7
5,300 0	0 36	234 54	5,296 9	-129 3	22 1	170 30	131 2
5,400 0	0 38	238 03	5,396 9	-129 7	21 6	170 56	131 4
5,500 0	0 16	232 56	5,496 9	-129 9	21 2	170 75	131 6

Scientific Drilling International, Inc.
SDI Standard Survey Report



Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well Snapping 2 State #3H
Project:	Wildcat (Eddy County, NM)	TVD Reference:	WELL @ 0 0usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0 0usft (Original Well Elev)
Well:	Snapping 2 State #3H	North Reference:	Grid
Wellbore:	VH - Job #32K0811765	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0811765	Database:	EDM-Regulatory

Survey							
Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
5,600 0	0 12	253 79	5,596 9	-130 0	21 0	170 85	131 7
5,700 0	0 18	206 15	5,696 9	-130 2	20 8	170 93	131 8
5,800 0	0 23	224 36	5,796 9	-130 5	20 6	171 04	132 1
5,900 0	0 46	217 18	5,896 9	-130 9	20 2	171 24	132 5
6,000 0	0 44	198 54	5,996 9	-131 6	19 8	171 44	133 1
6,100 0	0 80	193 39	6,096 9	-132 7	19 5	171 62	134 1
6,200 0	0 73	186 89	6,196 9	-134 0	19 3	171 80	135 4
6,300 0	0 94	180 88	6,296 9	-135 4	19 2	171 93	136 8
6,400 0	1 11	177 42	6,396 9	-137 2	19 2	172 02	138 6
6,500 0	0 97	175 07	6,496 9	-139 0	19 4	172 07	140 4
6,600 0	1 10	193 28	6,596 9	-140 8	19 2	172 23	142 1
6,700 0	1 34	213 05	6,696 8	-142 7	18 4	172 67	143 9
6,800 0	1 66	211 94	6,796 8	-144 9	17 0	173 33	145 9
6,900 0	1 13	214 31	6,896 8	-147 0	15 6	173 93	147 8
7,000 0	1 40	210 81	6,996 8	-148 8	14 4	174 46	149 5
7,100 0	1 41	209 97	7,096 7	-151 0	13 2	175 00	151 5
7,200 0	1 35	206 89	7,196 7	-153 1	12 1	175 50	153 5
7,300 0	1 33	200 28	7,296 7	-155 2	11 1	175 90	155 6
7,400 0	1 24	182 93	7,396 6	-157 4	10 7	176 12	157 7
7,475 0	1 27	171 86	7,471 6	-159 0	10 7	176 14	159 4



Project: Wildcat (Eddy County, NM)
 Eddy County, NM
 Well: Snapping 2 State #3H
 Wellbore: VH - Job #32K0811765
 Design: VH - Job #32K0811765

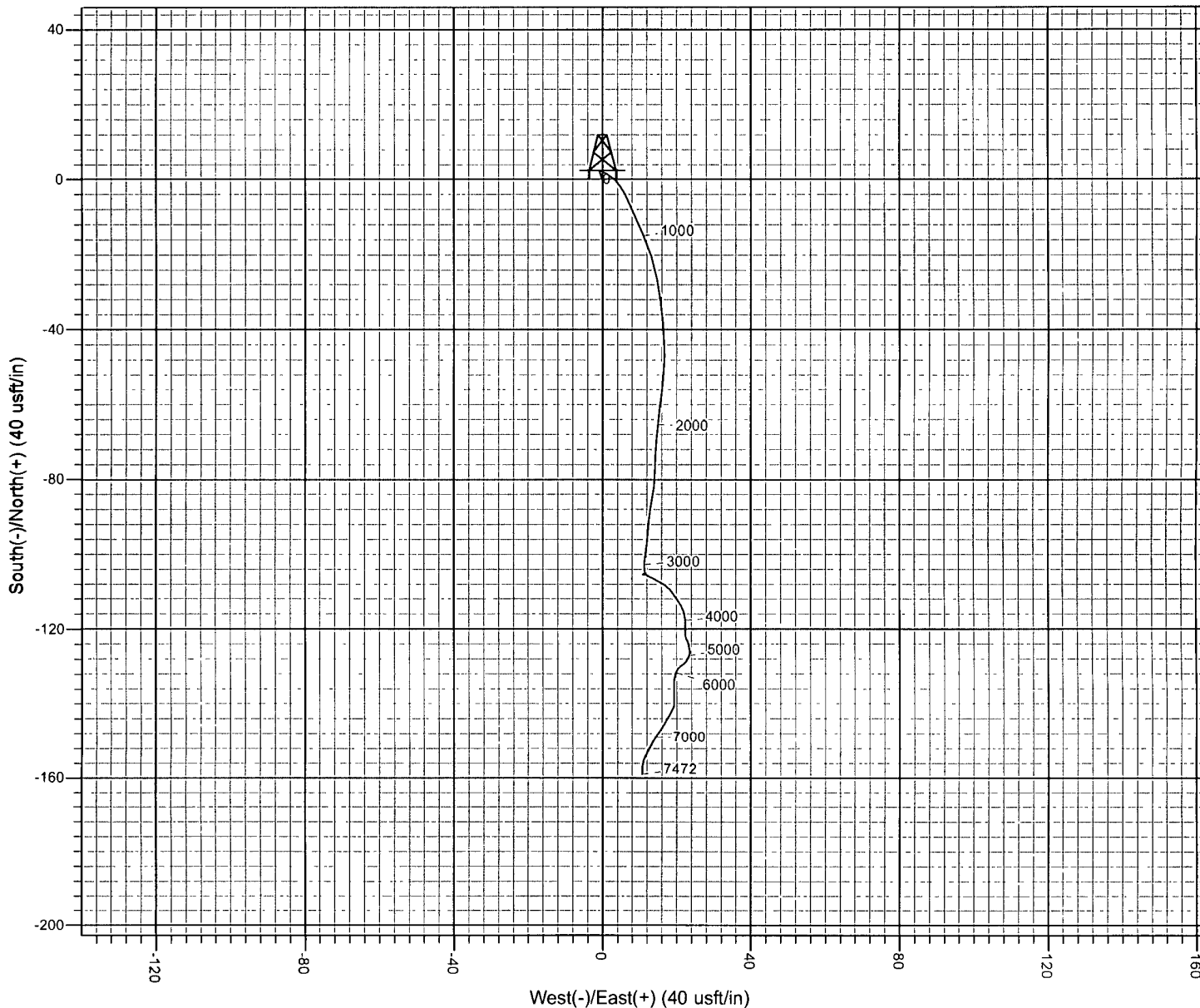


Azimuths to Grid North
 True North -0 31°
 Magnetic North 7 33°

Magnetic Field
 Strength 48510 0snT
 Dip Angle 60 00°
 Date: 8/12/2011
 Model IGRF2010

WELL DETAILS: Snapping 2 State #3H
 WELL @ 0 0usft (Original Well Elev)
 Ground Level: 0.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	388151.88	720368 18	32° 3' 56.849 N	103° 45' 19.382 W	



PROJECT DETAILS: Wildcat (Eddy County, NM)
 Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: New Mexico Eastern Zone
 System Datum: Mean Sea Level

SITE DETAILS: Eddy County, NM
 Site Centre Latitude: 32° 3' 50.850 N
 Longitude: 103° 45' 52.110 W
 Positional Uncertainty: 0.0
 Convergence: 0.30
 Local North: Grid

Pathfinder

6213 WCR 112
Midland, Texas 79706
Tel (432)687-1647
Fax (432)687-1544



September 19, 2011

Devon Energy
20 N. Broadway
Oklahoma City, OK

RE: Devon Energy
Snapping 2 State #3H
API: 30-015-39036
Eddy County, NM
RIG: H & P 416
FIELD: Wildcat; Bone Spring
PES FILE NO.: 700003303-WT-WT

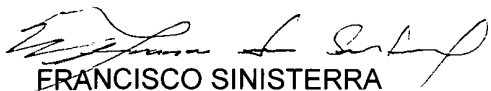
To whom it may concern:

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