



An Operating Unit of Smith International, Inc.

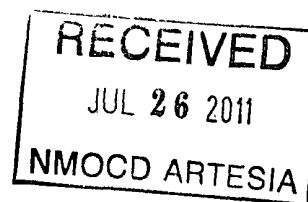
DIRECTIONAL SURVEY REPORT

30-015-38281

DEVON ENERGY

SLIDER "8" FEDERAL #2H

EDDY COUNTY, NEW MEXICO



PREPARED BY: FRANCISCO SINISTERRA

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

Pathfinder

6203 W Interstate 26
Midland Texas 79706
Tel. 432 687 1647
Fax 432 687 1544



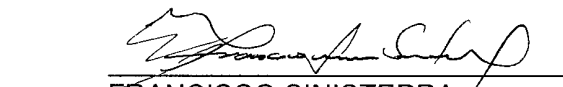
DIRECTIONAL SURVEY COMPANY REPORT:

1. NAME OF SURVEYING COMPANY: PATHFINDER ENERGY SERVICES
2. NAME OF PERSON(S) PERFORMING SURVEY:
A) DAVID PHILLIPS
3. POSITION OF SAID PERSON(S): (A-F) SURVEYORS (FIELD ENGINEERS)
4. DATE(S) ON WHICH SURVEY WAS PERFORMED: 02-08-11 TO 02-18-11
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
SLIDER "8" FEDERAL #2H
EDDY COUNTY, NM
RIG: H&P 416

9. SURVEY CERTIFIED FROM: 2985 TO 10958 FEET MEASURED DEPTH.

THIS IS TO VERIFY THAT ATTACHED DOCUMENTS SHOWING THE WELL TO BE DISPLACED AT 3604.18 FEET ON A BEARING OF 270.31 DEGREES FROM THE CENTER OF THE ROTARY TABLE AT A PROJECTED BIT DEPTH OF 11034 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: 02/08/2011
Date Completed: 02/18/2011

DEVON ENERGY CORPORATION
SLIDER "8" FEDERAL #2H
EDDY COUNTY COUNTY, NEW MEXICO
Rig:H&P 416
PathFinder Office Supervisor: FRANCISCO SINISTERRA
PathFinder Field Engineers:DAVID PHILLIPS
JEFF CORBET

Survey Horiz. Reference:WELLHEAD
Ref Coordinates: LAT:32.8.31.0142 N LON:104.0.9.0963 W
GRID Reference:NAD83 new mexico east Transverse Mercator
Ref GRID Coord: X: 643725.5400 Y: 415533.6530
North Aligned To:GRID NORTH
Total Magnetic Correction: 7.64° EAST TO GRID
Vertical Section Plane: 268.87
Survey Vert. Reference:2991.00' Rotary Table To Ground
Altitude:2965.00' Ground To MSL

Measured Depth	11034.00	(feet)
Inclination	94.00	(deg)
Azimuth	268.92	(deg)
True Vertical Depth	7227.32	(feet)
Vertical Section	3603.04	(feet)
Survey X cord	640121.42	(feet)
Survey Y cord	415553.05	(feet)
Survey Lat	32.14203159 N	(deg)
Survey Lon	104.01417101 W	(deg)
Rectangular Corr. N/S	19.39 N	(feet)
Rectangular Corr. E/W	3604.12 W	(feet)
Closure Distance	3604.18	(feet)
Direction of Closure	270.31	(deg)
Dogleg Severity	0.00	(deg/100ft)

PathFinder Energy Services, Inc.

Survey Report

DEVON ENERGY CORPORATION
SLIDER "8" FEDERAL #2H
EDDY COUNTY COUNTY, NEW MEXICO
Rig:H&P 416
PathFinder Office Supervisor: FRANCISCO SINISTERRA
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Total Magnetic Correction: 7.64°EAST TO GRID
Vertical Section Plane: 268.87
Survey Vert. Reference:2991.00' Rotary Table To Ground
Altitude:2965.00' Ground To MSL

Survey Calculations by RX5 V6.03D 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)
TIED INTO SCIENTIFIC DRILLING SURVEYS AT 2788'MD.										
2788.00	5.29	99.59	2784.03	0.00	-50.37	91.39 N	48.58 E	103.50@	27.99	0.00
THE FOLLOWING ARE PATHFINDER MWD SURVEYS.										
2985.00	5.10	101.86	2980.22	197.00	-67.83	88.08 N	66.10 E	110.12@	36.89	0.14
3080.00	5.01	93.51	3074.85	95.00	-76.08	86.96 N	74.38 E	114.43@	40.54	0.78
3176.00	5.01	95.53	3170.49	96.00	-84.42	86.30 N	82.73 E	119.55@	43.79	0.18
3269.00	4.84	82.52	3263.15	93.00	-92.35	86.41 N	90.66 E	125.25@	46.37	1.21
3363.00	4.66	83.23	3356.82	94.00	-100.09	87.38 N	98.39 E	131.59@	48.39	0.20
3458.00	4.92	85.42	3451.49	95.00	-108.00	88.16 N	106.28 E	138.09@	50.32	0.34
3542.00	4.75	85.60	3535.19	84.00	-115.07	88.72 N	113.34 E	143.93@	51.95	0.20
3647.00	5.01	88.50	3639.81	105.00	-123.99	89.17 N	122.26 E	151.32@	53.89	0.34
3741.00	4.57	89.29	3733.48	94.00	-131.84	89.32 N	130.11 E	157.82@	55.53	0.47
3836.00	4.31	83.31	3828.20	95.00	-139.18	89.79 N	137.44 E	164.16@	56.84	0.56
3930.00	5.10	82.43	3921.88	94.00	-146.85	90.75 N	145.09 E	171.13@	57.97	0.84
4025.00	5.10	82.35	4016.50	95.00	-155.24	91.87 N	153.46 E	178.85@	59.09	0.01
4119.00	5.36	84.98	4110.11	94.00	-163.77	92.81 N	161.97 E	186.67@	60.19	0.38
4214.00	5.36	85.60	4204.70	95.00	-172.63	93.54 N	170.81 E	194.75@	61.30	0.06
4309.00	5.01	86.13	4299.31	95.00	-181.20	94.16 N	179.38 E	202.59@	62.30	0.37
4403.00	4.84	86.39	4392.96	94.00	-189.26	94.68 N	187.43 E	209.99@	63.20	0.18
4498.00	4.75	88.06	4487.63	95.00	-197.20	95.07 N	195.36 E	217.26@	64.05	0.17
4593.00	4.48	88.94	4582.32	95.00	-204.84	95.27 N	203.00 E	224.25@	64.86	0.29
4687.00	4.75	89.55	4676.02	94.00	-212.40	95.37 N	210.56 E	231.15@	65.63	0.29
4781.00	4.92	92.45	4769.68	94.00	-220.32	95.23 N	218.48 E	238.33@	66.45	0.32
4876.00	5.10	92.45	4864.32	95.00	-228.60	94.87 N	226.77 E	245.82@	67.30	0.19
4971.00	4.92	94.48	4958.96	95.00	-236.87	94.37 N	235.05 E	253.29@	68.12	0.27
5065.00	4.57	92.81	5052.63	94.00	-244.61	93.87 N	242.81 E	260.33@	68.86	0.40

PathFinder Energy Services, Inc.

Survey Report

DEVON ENERGY CORPORATION
SLIDER "8" FEDERAL #2H
EDDY COUNTY COUNTY, NEW MEXICO
RIG:H&P 416

Page 02/05

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)
5160.00	4.13	97.99	5147.36	95.00	-251.77	93.21 N	249.98 E	266.79@	69.55	0.62
5254.00	3.96	96.41	5241.13	94.00	-258.33	92.38 N	256.56 E	272.68@	70.20	0.22
5349.00	3.78	96.85	5335.91	95.00	-264.68	91.64 N	262.93 E	278.44@	70.78	0.19
5443.00	3.96	91.31	5429.70	94.00	-270.99	91.20 N	269.25 E	284.27@	71.29	0.44
5538.00	2.99	93.25	5524.52	95.00	-276.74	90.98 N	275.00 E	289.66@	71.69	1.03
5632.00	3.61	89.64	5618.36	94.00	-282.14	90.86 N	280.41 E	294.76@	72.05	0.70
5726.00	3.69	83.67	5712.17	94.00	-288.12	91.21 N	286.37 E	300.55@	72.33	0.41
5821.00	4.22	81.64	5806.95	95.00	-294.63	92.06 N	292.87 E	307.00@	72.55	0.58
5915.00	4.04	81.91	5900.70	94.00	-301.35	93.03 N	299.57 E	313.68@	72.75	0.19
6010.00	4.92	88.32	5995.41	95.00	-308.74	93.62 N	306.96 E	320.91@	73.04	1.06
6105.00	4.66	92.28	6090.08	95.00	-316.67	93.58 N	314.88 E	328.50@	73.45	0.44
6199.00	4.57	94.12	6183.78	94.00	-324.21	93.16 N	322.43 E	335.62@	73.88	0.19
6294.00	4.04	98.08	6278.51	95.00	-331.28	92.42 N	329.52 E	342.24@	74.33	0.64
6388.00	4.66	89.55	6372.24	94.00	-338.37	91.98 N	336.62 E	348.96@	74.72	0.95
6483.00	4.48	91.22	6466.94	95.00	-345.93	91.94 N	344.19 E	356.25@	75.04	0.24
6535.00	4.57	88.44	6518.77	52.00	-350.03	91.95 N	348.29 E	360.22@	75.21	0.46
6566.00	4.92	87.83	6549.67	31.00	-352.60	92.03 N	350.85 E	362.72@	75.30	1.14
6598.00	4.22	86.85	6581.57	32.00	-355.15	92.15 N	353.40 E	365.21@	75.39	2.20
6629.00	2.11	77.07	6612.52	31.00	-356.85	92.34 N	355.09 E	366.90@	75.42	7.00
6661.00	1.06	300.44	6644.51	32.00	-357.17	92.62 N	355.41 E	367.28@	75.39	9.28
6692.00	3.96	280.20	6675.48	31.00	-355.88	92.96 N	354.11 E	366.11@	75.29	9.64
6723.00	7.30	275.95	6706.32	31.00	-352.87	93.35 N	351.10 E	363.30@	75.11	10.85
6755.00	9.85	278.07	6737.96	32.00	-348.15	93.95 N	346.37 E	358.88@	74.82	8.03
6787.00	11.78	279.03	6769.39	32.00	-342.23	94.84 N	340.43 E	353.39@	74.43	6.06
6818.00	13.63	278.68	6799.63	31.00	-335.52	95.89 N	333.69 E	347.20@	73.97	5.97
6850.00	15.65	278.49	6830.59	32.00	-327.55	97.10 N	325.70 E	339.86@	73.40	6.31
6881.00	17.85	276.99	6860.28	31.00	-318.72	98.29 N	316.84 E	331.74@	72.76	7.23
6913.00	19.70	275.27	6890.57	32.00	-308.50	99.39 N	306.60 E	322.31@	72.04	6.03

PathFinder Energy Services, Inc.

Survey Report

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SLIDER "8" FEDERAL #2H
EDDY COUNTY COUNTY, NEW MEXICO
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)
6944.00	21.46	272.70	6919.59	31.00	-297.65	100.13 N	295.73 E	312.23@	71.29	6.38
6976.00	23.48	270.12	6949.16	32.00	-285.44	100.42 N	283.51 E	300.77@	70.50	7.02
7007.00	26.12	268.20	6977.30	31.00	-272.44	100.22 N	270.51 E	288.48@	69.67	8.90
7038.00	28.58	267.24	7004.83	31.00	-258.20	99.65 N	256.28 E	274.97@	68.75	8.06
7070.00	30.95	266.46	7032.61	32.00	-242.32	98.77 N	240.42 E	259.92@	67.67	7.50
7101.00	33.59	266.78	7058.82	31.00	-225.79	97.80 N	223.90 E	244.33@	66.40	8.53
7133.00	35.79	266.50	7085.13	32.00	-207.59	96.73 N	205.72 E	227.33@	64.82	6.89
7165.00	37.55	266.44	7110.80	32.00	-188.50	95.55 N	186.65 E	209.69@	62.89	5.50
7195.00	39.75	265.95	7134.22	30.00	-169.78	94.31 N	167.95 E	192.62@	60.69	7.40
7228.00	42.38	265.78	7159.10	33.00	-148.13	92.74 N	146.33 E	173.25@	57.63	7.98
7259.00	45.46	266.04	7181.43	31.00	-126.66	91.21 N	124.89 E	154.65@	53.86	9.95
7291.00	48.89	266.39	7203.18	32.00	-103.22	89.66 N	101.47 E	135.41@	48.54	10.75
7322.00	52.06	266.04	7222.91	31.00	-79.34	88.08 N	77.62 E	117.40@	41.39	10.26
7353.00	54.43	266.13	7241.45	31.00	-54.53	86.39 N	52.84 E	101.27@	31.45	7.65
7385.00	57.68	268.06	7259.32	32.00	-28.00	85.05 N	26.33 E	89.04@	17.20	11.32
7416.00	61.03	268.67	7275.12	31.00	-1.34	84.29 N	0.32 W	84.29@	359.78	10.94
7447.00	64.46	268.92	7289.32	31.00	26.22	83.72 N	27.87 W	88.23@	341.59	11.09
7479.00	68.32	269.49	7302.13	32.00	55.53	83.31 N	57.18 W	101.05@	325.53	12.17
7511.00	72.81	269.36	7312.77	32.00	85.70	83.01 N	87.35 W	120.50@	313.54	14.04
7542.00	76.77	269.24	7320.91	31.00	115.60	82.64 N	117.26 W	143.45@	305.18	12.78
7574.00	82.13	269.19	7326.76	32.00	147.05	82.21 N	148.70 W	169.91@	298.94	16.75
7602.00	87.23	269.49	7329.36	28.00	174.92	81.89 N	176.57 W	194.64@	294.88	18.25
7634.00	93.47	269.10	7329.16	32.00	206.90	81.50 N	208.55 W	223.91@	291.34	19.54
7665.00	94.26	268.59	7327.07	31.00	237.83	80.87 N	239.47 W	252.76@	288.66	3.03
7697.00	94.18	268.03	7324.72	32.00	269.74	79.93 N	271.37 W	282.90@	286.41	1.76
7728.00	94.26	268.18	7322.44	31.00	300.66	78.91 N	302.27 W	312.40@	284.63	0.55
7823.00	93.12	268.73	7316.32	95.00	395.46	76.35 N	397.04 W	404.31@	280.89	1.33
7918.00	91.19	268.33	7312.75	95.00	490.38	73.92 N	491.94 W	497.46@	278.55	2.07

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Survey Report

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RIG:H&P 416

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8012.00	90.57	268.68	7311.31	94.00	584.37	71.47 N	585.89 W	590.24@	276.95	0.76
8107.00	92.24	269.21	7308.98	95.00	679.34	69.72 N	680.84 W	684.40@	275.85	1.84
8201.00	94.53	269.01	7303.43	94.00	773.17	68.26 N	774.66 W	777.66@	275.04	2.44
8296.00	93.83	269.63	7296.50	95.00	867.91	67.14 N	869.40 W	871.99@	274.42	0.98
8390.00	93.83	269.92	7290.22	94.00	961.69	66.77 N	963.19 W	965.50@	273.97	0.31
8485.00	93.65	269.83	7284.03	95.00	1056.47	66.56 N	1057.99 W	1060.08@	273.60	0.21
8579.00	90.75	270.72	7280.42	94.00	1150.36	67.01 N	1151.91 W	1153.86@	273.33	3.23
8673.00	90.13	270.98	7279.70	94.00	1244.30	68.41 N	1245.89 W	1247.77@	273.14	0.72
8768.00	88.90	269.04	7280.50	95.00	1339.27	68.42 N	1340.88 W	1342.63@	272.92	2.42
8863.00	89.52	268.27	7281.81	95.00	1434.26	66.19 N	1435.85 W	1437.37@	272.64	1.04
8957.00	89.78	268.33	7282.39	94.00	1528.26	63.41 N	1529.80 W	1531.12@	272.37	0.28
9052.00	90.40	268.78	7282.24	95.00	1623.25	61.01 N	1624.77 W	1625.92@	272.15	0.81
9146.00	92.86	269.32	7279.56	94.00	1717.21	59.45 N	1718.71 W	1719.74@	271.98	2.68
9241.00	90.22	268.55	7277.01	95.00	1812.16	57.69 N	1813.66 W	1814.57@	271.82	2.90
9335.00	89.43	267.82	7277.30	94.00	1906.16	54.71 N	1907.61 W	1908.39@	271.64	1.14
9429.00	89.78	267.84	7277.95	94.00	2000.14	51.15 N	2001.54 W	2002.19@	271.46	0.37
9524.00	90.66	267.92	7277.58	95.00	2095.12	47.64 N	2096.47 W	2097.01@	271.30	0.93
9619.00	90.31	266.63	7276.78	95.00	2190.08	43.12 N	2191.36 W	2191.78@	271.13	1.41
9713.00	91.54	266.69	7275.26	94.00	2284.00	37.64 N	2285.18 W	2285.49@	270.94	1.31
9808.00	91.63	267.40	7272.63	95.00	2378.91	32.75 N	2380.02 W	2380.24@	270.79	0.75
9902.00	92.24	268.34	7269.46	94.00	2472.84	29.26 N	2473.90 W	2474.07@	270.68	1.19
9997.00	89.87	268.30	7267.71	95.00	2567.81	26.47 N	2568.84 W	2568.97@	270.59	2.50
10091.00	88.90	266.97	7268.72	94.00	2661.78	22.59 N	2662.75 W	2662.84@	270.49	1.75
10185.00	89.52	267.28	7270.01	94.00	2755.73	17.88 N	2756.62 W	2756.68@	270.37	0.74
10280.00	91.19	268.81	7269.42	95.00	2850.71	14.64 N	2851.56 W	2851.59@	270.29	2.38
10375.00	91.54	270.93	7267.16	95.00	2945.67	14.42 N	2946.52 W	2946.56@	270.28	2.26
10469.00	91.28	271.07	7264.85	94.00	3039.57	16.06 N	3040.48 W	3040.52@	270.30	0.31
10564.00	93.12	270.71	7261.20	95.00	3134.44	17.54 N	3135.40 W	3135.44@	270.32	1.97

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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)
10658.00	94.35	270.89	7255.08	94.00	3228.18	18.85 N	3229.18 W	3229.24@	270.33	1.32
10753.00	94.18	270.52	7248.01	95.00	3322.87	20.01 N	3323.91 W	3323.97@	270.34	0.43
10847.00	94.53	270.80	7240.87	94.00	3416.56	21.09 N	3417.64 W	3417.70@	270.35	0.48
10958.00	94.00	268.92	7232.62	111.00	3527.23	20.82 N	3528.32 W	3528.38@	270.34	1.76
STRAIGHT LINE PROJECTION TO BIT AT 11034'MD.										
11034.00	94.00	268.92	7227.32	76.00	3603.04	19.39 N	3604.12 W	3604.18@	270.31	0.00



A Schlumberger Company

TIE-IN SURVEY INFORMATION SHEET**CLIENT INFORMATION**

CLIENT:	Devon Energy		
LEASE / WELL No.:	SLIDER "8" FEDERAL #2H		
WELL LOCATION:	EDDY COUNTY		
COUNTY / STATE / COUNTRY:	EDDY COUNTY	NM	USA
RIG:	H&P # 416		
API WELL No:	30-015-38281		
JOB No:	700001556 WT-WT		
P.O / AFE No.			
DIRECTIONAL COMPANY:	PATHFINDER ENERGY SERVICES		

WELL SITE INFORMATION

TOTAL MAGNETIC CORRECTION (TMC):			
<i>On Wall Plat:</i>		<i>LWD Calculated:</i>	
X = 643725.540000 Feet		Y = 415533.653000 Feet	
SITE LATITUDE:	32.141948 N	SITE LONGITUDE:	104.002527 W
GRID SYSTEM:	TRUE ☐ UTM ☐ LAMBERT ☒	ZONE:	
PROPOSED DRIFT DIRECTION:	270.37		
KELLY BUSHING ELEVATION:	2991		
ALTITUDE:	2965 Feet	WATER DEPTH:	Feet

TIE-IN SURVEY

MEASURED DEPTH:	2788		
DRIFT ANGLE:	5.29		
DRIFT DIRECTION:	99.59		
TRUE VERTICAL DEPTH:	2784.03		
VERTICAL SECTION:	-47.99		
RECTANGULAR COORDINATE (N / S) :	91.39		
RECTANGULAR COORDINATE (E / W) :	48.58		
CLOSURE DISTANCE / DIRECTION:	103.5	270.3	
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:	6633	TOTAL DEPTH:	10913.17
KICKOFF ANGLE:	5	MAX ANGLE:	90

PES Engineers: David Phillips
Jake Newhouse

**Signature of both field engineers required if applicable

Directional Driller: Manual CervantesDATE: 7-Feb-2011

PathFinder Energy Services, Inc.

Magnetic & Grid Calculations

DEVON ENERGY
SLIDER "8" FEDERAL #2H
EDDY COUNTY, NEW MEXICO
Rig:HLP 416

Sun Feb 06 11:13:50 2011

Coordinates

Latitude: 32.141948 N (32 deg. 8 min. 31.0142 sec.)
Longitude: 104.002527 W (-104 deg. 0 min. 9.0963 sec.)
Elevation: 2991.00 feet.
Calculation Date: Feb/06/2011

Magnetic Calculations

Model: IGRF2010
Dip Angle: 60.0436 degrees
Total Magnetic Field: 0.48557 gauss
Magnetic Declination: 7.819350 degrees
Horizontal Intensity: 0.242463 gauss
To Convert a Magnetic Dir. to a TRUE North Dir. Add 7.819350 Degs

Transverse Mercator Grid Calculations NAD83

Grid System: Transverse Mercator: new mexico east
Ellipsoid: GRS80
X: 643725.5400 feet
Y: 415533.6530 feet
True to Grid: (convergence) -0.175997 degrees
Magnetic to Grid: 7.643354 degrees
To Convert a Magnetic Dir. to a GRID dir. Add 7.643354 Degs.