

Results of Directional Survey

API number:	30-025-41694		
OGRID:		Operator:	DEVON ENERGY PRODUCTION COMPANY, LP
		Property:	DOPPLEBOCK 8 STATE COM # 1H

surface	ULSTR:	B	08	T 18S	R 36E
				200 FNL	1980 FEL

BH Loc	ULSTR:	O	08	T 18S	R 36E
13760 MD		9407.1	TVD	331 FSL	1927 FEL
4949 FNL					

Top Perf/OH	ULSTR:	B	08	T 18S	R 36E
9534 MD		9375.2	TVD	728 FNL	2004 FEL

Bot Perf/OH	ULSTR:	O	08	T 18S	R 36E
13631 MD		9405.7	TVD	386 FSL	1930 FEL
4894 FNL					

	MD	N/S	E/W	VD
	9503	-498.64	-24.42	9364.19
TOP PERFS/OH	9534	-527.62	-24.24	9375.18
	9534	-527.62	-24.24	9375.18
	13630	-4694.07	50.44	9405.71
BOT PERFS/OH	13631	-4694.07	50.45	9405.72
	13705	-4694.35	51.47	9406.23

NEXT TO LAST	13705	-4694.35	51.47	9406.23
LAST READING	13760.00	-4749.04	52.71	9407.07
TD	13760	-4749.04	52.71	9407.07

Surface Location	200	FN	1980	FE
Projected BHL	4949	FN	1927	FE
Location of				
Top Perfs/OH	728	FN	2004	FE
Bottom Perfs/OH	4894	FN	1930	FE

SUMMARY of Subsurface Locations

Surface Location	B-08-18S-36E	200	FN	1980	FE	Vert. Depth
Top Perfs/OH	B-08-18S-36E	728	FN	2004	FE	9375.18
Bottom Perfs/OH	O-08-18S-36E	4894	FN	1930	FE	9405.72
Projected TD	O-08-18S-36E	4949	FN	1927	FE	9407.07

PathFinder

3329 W. Pinhook Rd.
Lafayette, LA 70508-3506, USA
Tel. 337-233-3982
Fax 337-234-2988

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PATHFINDER
A Schlumberger Company

DIRECTIONAL SURVEY REPORT

DEVON ENERGY PRODUCTION CO., L.P.
DOPPLEBOCK 8 STATE COM #1H ST1
LEA COUNTY, NEW MEXICO

PREPARED BY: MARK TRAHAN

PathFinder

3329 W. Pinhook Rd.
Lafayette, LA 70508-3506, USA
Tel. 337-233-3982
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July 23, 2014

DEVON ENERGY PRODUCTION CO.
Judith Barnett
333 West Sheridan
Oklahoma City, OK 73102

RE: DEVON ENERGY PRODUCTION CO., L.P.
DOPPLEBOCK 8 STATE COM #1H ST1
LEA COUNTY, NM
RIG: PATTERSON 228
API NO.: 30-025-41694
FILE NO.: 14LAF0177

Dear Ms. Barnett:

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
3 – Original Directional Survey Reports

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 (337) 233-3982.

Sincerely,

A handwritten signature in black ink, appearing to read "Mark Trahan".

Mark Trahan
M/LWD Service Coordinator
PathFinder, a Schlumberger company

MT:tb

PathFinder

3329 W. Pinhook Rd.
Lafayette, LA 70508-3506, USA
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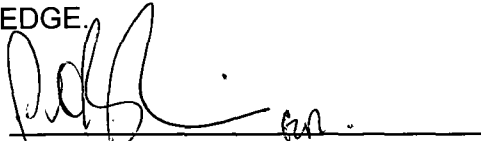
DIRECTIONAL SURVEY COMPANY REPORT:

1. SURVEYING COMPANY: PATHFINDER, A SCHLUMBERGER COMPANY
2. NAME OF PERSON(S) PERFORMING SURVEY:
A) DERIK RICHARD
3. POSITION OF SAID PERSON(S): (A) SURVEYORS (FIELD ENGINEERS)
4. DATE(S) ON WHICH SURVEY WAS PERFORMED: 06/24/14 TO 07/04/14
5. STATE IN WHICH SURVEY WAS PERFORMED: NEW MEXICO
6. LOCATION OF WELL: LEA COUNTY
7. TYPE OF SURVEY(S) PERFORMED: MWD
8. COMPLETE IDENTIFICATION OF WELL:

DEVON ENERGY PRODUCTION CO., L.P.
DOPPLEBOCK 8 STATE COM #1H ST1
LEA COUNTY, NM
RIG: PATTERSON 228
API NO.: 30-025-41694

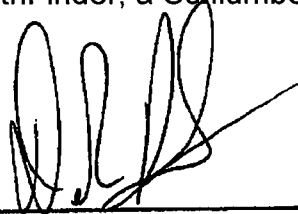
9. SURVEY CERTIFIED FROM: 8,637.81 TO 13,760 FEET MEASURED DEPTH.

THIS IS TO VERIFY THAT ATTACHED DOCUMENTS SHOWING THE WELL TO BE
DISPLACED AT 4,749.34 FEET ON A BEARING OF 179.36 DEGREES FROM THE CENTER
OF THE ROTARY TABLE AT PROJECTION BIT DEPTH OF 13,760 FEET, ARE TRUE AND
CORRECT TO THE BEST OF MY KNOWLEDGE.


MARK TRAHAN
M/LWD SERVICE COORDINATOR

STATE OF LOUISIANA
PARISH OF LAFAYETTE

I, **Derik Richard**, certify that; I am employed by PathFinder, a Schlumberger company; that I did on the day(s) of **06/24/14** through **07/04/14** conduct or supervise the taking of a **Measurement While Drilling** survey from a depth of **8,637.81 feet to a depth of 13,760 feet**; that the data is true, correct, complete and within the limitations of the tool as set forth by PathFinder, a Schlumberger company; that I am authorized and qualified to make this report; that this survey was conducted at the request of **DEVON ENERGY PRODUCTION CO., L.P.** for the **Dopplebock 8 State Com #1H ST1** Well API No. **30-025-41694** in **Lea County, New Mexico**; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by PathFinder, a Schlumberger company.



PathFinder Field Engineer

PathFinder – a Schlumberger company

BHL Report

Page 01/01
Tie-in Date: 06/24/2014
Date Completed: 07/04/2014

DEVON ENERGY PRODUCTION CO. L.P.
DOPPLEBOCK 8 STATE COM #1H ST1
LEA COUNTY, NM
API#: 30-025-41694 Rig: PATTERSON 228
PathFinder Office Supervisor: MARK TRAHAN
PathFinder Field Engineers:DERIK RICHARD

Survey Horiz. Reference:WELLHEAD
Ref Coordinates: LAT:32.46.7.5924 N LON:103.22.28.4940 W
GRID Reference:NAD83 new mexico east Transverse Mercator
Ref GRID Coord: X: 836038.3100 Y: 644747.2300
North Aligned To:GRID NORTH
Total Magnetic Correction: 6.64° EAST TO GRID
Vertical Section Plane: 179.35
Survey Vert. Reference: 26.60' Rotary Table To Ground
Altitude:3852.30' Ground To MSL

Measured Depth	13760.00	(feet)
Inclination	89.00	(deg)
Azimuth	178.50	(deg)
True Vertical Depth	9407.07	(feet)
Vertical Section	4749.34	(feet)
Survey X cord	836091.01	(feet)
Survey Y cord	639998.20	(feet)
Survey Lat	32.75572266 N	(deg)
Survey Lon	103.37455013 W	(deg)
Rectangular Corr. N/S	4749.04 S	(feet)
Rectangular Corr. E/W	52.71 E	(feet)
Closure Distance	4749.34	(feet)
Direction of Closure	179.36	(deg)
Dogleg Severity	0.87	(deg/100ft)

PathFinder – a Schlumberger company

Survey Report

DEVON ENERGY PRODUCTION CO. L.P.

DOPPLEBOCK 8 STATE COM #1H ST1

LEA COUNTY, NM

API#: 30-025-41694 Rig: PATTERSON 228

PathFinder Office Supervisor: MARK TRAHAN

PathFinder Field Engineers: DERIK RICHARD

Survey Horiz. Reference: WELLHEAD

Ref Coordinates: LAT: 32.46.7.5924 N LON: 103.22.28.4940 W

GRID Reference: NAD83 new mexico east Transverse Mercator

Ref GRID Coord: X: 836038.3100 Y: 644747.2300

North Aligned To: GRID NORTH

Total Magnetic Correction: 6.64° EAST TO GRID

Vertical Section Plane: 179.35

Survey Vert. Reference: 26.60' Rotary Table To Ground

Altitude: 3852.30' Ground To MSL

Survey Calculations by RX5 V6.05A using Minimum Curvature

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)	Survey Latitude (deg)	Survey Longitude (deg)	Closure Dist Dir (ft) (deg)	DLS (dg/100ft)
0.00	0.00	0.00	0.01	0.00	-0.08	0.08 N 0.02 E	32.76877593 N	103.37458164 W	0.09@ 12.72	0.00
THE FOLLOWING ARE EXTREME GYRO SURVEYS.										
191.00	0.48	162.76	191.00	191.00	0.68	0.68 S 0.26 E	32.76877382 N	103.37458089 W	0.73@ 159.36	0.25
286.00	1.10	152.56	286.00	95.00	1.88	1.87 S 0.79 E	32.76877054 N	103.37457917 W	2.03@ 156.98	0.67
348.00	1.41	159.06	347.98	62.00	3.12	3.11 S 1.34 E	32.76876712 N	103.37457743 W	3.39@ 156.67	0.55
441.00	1.49	163.06	440.95	93.00	5.36	5.34 S 2.10 E	32.76876098 N	103.37457502 W	5.73@ 158.49	0.14
533.00	1.58	162.67	532.92	92.00	7.72	7.69 S 2.83 E	32.76875449 N	103.37457273 W	8.19@ 159.80	0.10
625.00	1.89	167.63	624.88	92.00	10.42	10.38 S 3.53 E	32.76874708 N	103.37457052 W	10.97@ 161.22	0.37
718.00	1.89	168.73	717.82	93.00	13.43	13.38 S 4.16 E	32.76873881 N	103.37456856 W	14.02@ 162.74	0.04
810.00	1.89	169.83	809.77	92.00	16.42	16.37 S 4.72 E	32.76873060 N	103.37456682 W	17.03@ 163.90	0.04
994.00	2.29	164.65	993.65	184.00	22.97	22.90 S 6.23 E	32.76871262 N	103.37456210 W	23.73@ 164.77	0.24
1085.00	2.29	160.87	1084.58	91.00	26.45	26.37 S 7.31 E	32.76870305 N	103.37455870 W	27.36@ 164.51	0.17
1230.00	2.81	180.23	1229.44	145.00	32.75	32.66 S 8.25 E	32.76868574 N	103.37455584 W	33.68@ 165.83	0.69
1360.00	2.99	203.14	1359.28	130.00	39.04	38.96 S 6.90 E	32.76866844 N	103.37456040 W	39.57@ 169.96	0.90
1545.00	3.30	160.56	1544.02	185.00	48.50	48.42 S 6.78 E	32.76864245 N	103.37456109 W	48.90@ 172.03	1.24
1655.00	3.50	160.90	1653.83	110.00	54.68	54.58 S 8.93 E	32.76862547 N	103.37455427 W	55.31@ 170.71	0.18
1759.00	3.69	160.87	1757.62	104.00	60.87	60.74 S 11.06 E	32.76860848 N	103.37454750 W	61.74@ 169.68	0.18
1831.00	3.69	161.57	1829.47	72.00	65.27	65.13 S 12.56 E	32.76859639 N	103.37454278 W	66.33@ 169.09	0.06
1926.00	4.00	165.35	1924.26	95.00	71.39	71.24 S 14.36 E	32.76857956 N	103.37453709 W	72.67@ 168.60	0.42
2021.00	4.00	163.85	2019.03	95.00	77.80	77.62 S 16.12 E	32.76856196 N	103.37453155 W	79.28@ 168.27	0.11
2025.00	4.00	164.03	2023.02	4.00	78.07	77.89 S 16.20 E	32.76856122 N	103.37453131 W	79.56@ 168.25	0.31
2206.00	3.52	151.92	2203.63	181.00	89.09	88.86 S 20.55 E	32.76853096 N	103.37451747 W	91.21@ 166.98	0.51
2396.00	3.21	151.30	2393.30	190.00	98.96	98.68 S 25.85 E	32.76850386 N	103.37450052 W	102.01@ 165.32	0.16
2490.00	3.12	150.12	2487.16	94.00	103.52	103.20 S 28.39 E	32.76849136 N	103.37449240 W	107.04@ 164.62	0.12
2680.00	2.90	159.07	2676.90	190.00	112.54	112.18 S 32.68 E	32.76846659 N	103.37447870 W	116.84@ 163.76	0.27
2870.00	2.29	162.76	2866.70	190.00	120.69	120.29 S 35.52 E	32.76844422 N	103.37446969 W	125.43@ 163.55	0.33

PathFinder – a Schlumberger company

Survey Report

DEVON ENERGY PRODUCTION CO. L.P.
 DOPPLEBOCK 8 STATE COM #1H ST1
 LEA COUNTY, NM
 API#: 30-025-41694 Rig: PATTERSON 228

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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)		Survey Latitude (deg)	Survey Longitude (deg)	Closure Dist (ft)	Dir (deg)	DLS (dg/100ft)
3061.00	2.02	161.27	3057.57	191.00	127.54	127.12 S	37.73 E	32.76842539 N	103.37446270 W	132.61@	163.47	0.14
3250.00	1.58	143.78	3246.48	189.00	132.83	132.38 S	40.34 E	32.76841088 N	103.37445437 W	138.39@	163.05	0.37
3430.00	1.19	135.56	3426.42	180.00	136.20	135.72 S	43.12 E	32.76840164 N	103.37444544 W	142.40@	162.37	0.24
THE FOLLOWING ARE VAUGHN ENERGY SERVICES GYRO SURVEYS.												
3536.97	1.19	119.49	3533.37	106.97	137.56	137.06 S	44.86 E	32.76839791 N	103.37443980 W	144.21@	161.87	0.31
3631.43	1.05	128.43	3627.81	94.46	138.59	138.08 S	46.40 E	32.76839507 N	103.37443485 W	145.66@	161.43	0.24
3725.89	1.21	130.47	3722.25	94.46	139.80	139.26 S	47.83 E	32.76839178 N	103.37443021 W	147.25@	161.04	0.17
3820.35	1.07	125.36	3816.70	94.46	140.97	140.42 S	49.31 E	32.76838856 N	103.37442544 W	148.83@	160.65	0.18
3914.81	0.76	122.70	3911.14	94.46	141.83	141.27 S	50.56 E	32.76838619 N	103.37442141 W	150.04@	160.31	0.33
4009.27	0.69	119.59	4005.60	94.46	142.46	141.89 S	51.58 E	32.76838447 N	103.37441810 W	150.97@	160.02	0.09
4103.73	0.48	116.18	4100.05	94.46	142.93	142.34 S	52.43 E	32.76838319 N	103.37441535 W	151.69@	159.78	0.23
4198.18	0.43	97.29	4194.50	94.45	143.16	142.56 S	53.13 E	32.76838257 N	103.37441306 W	152.14@	159.56	0.17
4292.65	0.37	41.77	4288.97	94.47	142.98	142.38 S	53.69 E	32.76838306 N	103.37441125 W	152.17@	159.34	0.40
4387.11	0.15	356.58	4383.42	94.46	142.63	142.03 S	53.89 E	32.76838402 N	103.37441060 W	151.91@	159.22	0.30
4481.57	0.10	340.11	4477.88	94.46	142.43	141.83 S	53.85 E	32.76838457 N	103.37441071 W	151.71@	159.21	0.06
4576.03	0.13	337.12	4572.34	94.46	142.25	141.65 S	53.78 E	32.76838506 N	103.37441093 W	151.52@	159.21	0.03
4670.49	0.16	330.33	4666.80	94.46	142.04	141.44 S	53.67 E	32.76838565 N	103.37441127 W	151.28@	159.22	0.04
4764.95	0.28	328.26	4761.26	94.46	141.73	141.13 S	53.49 E	32.76838651 N	103.37441187 W	150.92@	159.24	0.13
4859.41	0.68	326.05	4855.72	94.46	141.06	140.47 S	53.05 E	32.76838834 N	103.37441327 W	150.15@	159.31	0.42
4953.87	0.59	335.68	4950.17	94.46	140.15	139.56 S	52.54 E	32.76839084 N	103.37441491 W	149.12@	159.37	0.15
5048.33	0.62	332.49	5044.63	94.46	139.24	138.66 S	52.10 E	32.76839332 N	103.37441630 W	148.13@	159.41	0.05
5142.79	0.71	326.07	5139.08	94.46	138.30	137.72 S	51.54 E	32.76839591 N	103.37441811 W	147.05@	159.48	0.12
5237.25	1.00	317.27	5233.53	94.46	137.20	136.63 S	50.65 E	32.76839893 N	103.37442096 W	145.72@	159.66	0.34
5331.71	1.00	326.88	5327.98	94.46	135.89	135.34 S	49.64 E	32.76840252 N	103.37442420 W	144.15@	159.86	0.18
5426.17	0.99	314.08	5422.42	94.46	134.62	134.08 S	48.61 E	32.76840600 N	103.37442754 W	142.62@	160.07	0.24
5520.63	0.93	329.67	5516.87	94.46	133.38	132.85 S	47.63 E	32.76840941 N	103.37443067 W	141.13@	160.27	0.28
5615.09	0.97	321.67	5611.32	94.46	132.08	131.56 S	46.75 E	32.76841297 N	103.37443350 W	139.62@	160.44	0.15
5709.55	0.94	318.85	5705.76	94.46	130.86	130.35 S	45.75 E	32.76841632 N	103.37443674 W	138.14@	160.66	0.06
5804.01	0.87	322.41	5800.21	94.46	129.70	129.20 S	44.80 E	32.76841951 N	103.37443978 W	136.74@	160.88	0.09

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Survey Report

DEVON ENERGY PRODUCTION CO. L.P.
DOPPLEBOCK 8 STATE COM #1H ST1
LEA COUNTY, NM
API#: 30-025-41694 Rig: PATTERSON 228

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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)		Survey Latitude (deg)	Survey Longitude (deg)	Closure Dist (ft)	Dir (deg)	DLS (dg/100ft)
5898.47	1.12	306.31	5894.66	94.46	128.57	128.08 S	43.62 E	32.76842260 N	103.37444359 W	135.31@	161.19	0.39
5992.93	1.06	321.62	5989.10	94.46	127.32	126.85 S	42.33 E	32.76842602 N	103.37444774 W	133.73@	161.55	0.31
6087.39	1.07	316.77	6083.55	94.46	125.98	125.52 S	41.18 E	32.76842970 N	103.37445143 W	132.11@	161.84	0.10
6181.85	1.07	319.45	6177.99	94.46	124.66	124.21 S	40.01 E	32.76843334 N	103.37445522 W	130.50@	162.15	0.05
6276.31	1.22	313.68	6272.43	94.46	123.28	122.85 S	38.71 E	32.76843712 N	103.37445941 W	128.80@	162.51	0.20
6370.77	1.36	318.64	6366.87	94.46	121.73	121.31 S	37.24 E	32.76844138 N	103.37446414 W	126.90@	162.94	0.19
6465.23	0.78	316.80	6461.31	94.46	120.40	120.00 S	36.06 E	32.76844501 N	103.37446795 W	125.30@	163.28	0.61
6559.69	1.30	318.27	6555.75	94.46	119.12	118.73 S	34.90 E	32.76844852 N	103.37447166 W	123.76@	163.62	0.55
6654.15	1.23	315.54	6650.19	94.46	117.58	117.21 S	33.48 E	32.76845274 N	103.37447625 W	121.90@	164.06	0.10
6748.61	1.14	314.80	6744.63	94.46	116.18	115.82 S	32.10 E	32.76845658 N	103.37448069 W	120.19@	164.51	0.10
6843.07	1.56	316.19	6839.06	94.46	114.57	114.23 S	30.55 E	32.76846099 N	103.37448570 W	118.25@	165.03	0.45
6937.53	1.52	314.81	6933.49	94.46	112.74	112.42 S	28.77 E	32.76846601 N	103.37449144 W	116.05@	165.65	0.06
7031.99	1.79	310.91	7027.91	94.46	110.87	110.57 S	26.76 E	32.76847115 N	103.37449790 W	113.77@	166.39	0.31
7126.45	2.02	305.54	7122.32	94.46	108.91	108.64 S	24.29 E	32.76847652 N	103.37450588 W	111.32@	167.39	0.31
7220.91	2.32	297.09	7216.71	94.46	107.04	106.80 S	21.24 E	32.76848165 N	103.37451576 W	108.89@	168.75	0.46
7315.37	2.32	297.78	7311.09	94.46	105.24	105.04 S	17.84 E	32.76848658 N	103.37452675 W	106.54@	170.36	0.03
7404.29	2.53	292.05	7399.93	88.92	103.62	103.46 S	14.43 E	32.76849099 N	103.37453780 W	104.47@	172.06	0.36
ST1 DEPARTS ORIGINAL WELLBORE OF AT 3.0 DEGREE WHIPSTOCK IN OPEN HOLE AT 7505' MD (7500.54' TVD).												
7504.29	2.69	288.72	7499.83	100.00	101.99	101.88 S	10.16 E	32.76849545 N	103.37455164 W	102.39@	174.30	0.22
7598.75	4.12	271.11	7594.12	94.46	101.15	101.11 S	4.67 E	32.76849772 N	103.37456948 W	101.21@	177.35	1.86
7693.21	6.14	249.45	7688.21	94.46	102.77	102.81 S	3.45 W	32.76849323 N	103.37459596 W	102.87@	181.92	2.93
7787.67	6.44	234.13	7782.11	94.46	107.54	107.69 S	12.48 W	32.76848005 N	103.37462546 W	108.41@	186.61	1.80
7882.13	5.81	225.46	7876.03	94.46	113.91	114.15 S	20.18 W	32.76846249 N	103.37465070 W	115.92@	190.02	1.18
7976.59	5.74	203.81	7970.02	94.46	121.53	121.82 S	25.49 W	32.76844153 N	103.37466822 W	124.46@	191.82	2.29
8071.05	4.68	175.82	8064.10	94.46	129.67	129.99 S	27.12 W	32.76841912 N	103.37467375 W	132.79@	191.78	2.88
8165.51	4.27	167.83	8158.28	94.46	136.97	137.27 S	26.10 W	32.76839909 N	103.37467064 W	139.73@	190.76	0.79
8259.97	3.62	165.27	8252.51	94.46	143.31	143.59 S	24.60 W	32.76838168 N	103.37466594 W	145.69@	189.72	0.71
8354.43	2.70	170.66	8346.83	94.46	148.40	148.67 S	23.48 W	32.76836769 N	103.37466245 W	150.52@	188.97	1.02

PathFinder – a Schlumberger company

Survey Report

DEVON ENERGY PRODUCTION CO. L.P.
DOPPLEBOCK 8 STATE COM #1H ST1
LEA COUNTY, NM
API#: 30-025-41694 Rig: PATTERSON 228

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Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft)		Survey Latitude (deg)	Survey Longitude (deg)	Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
8448.49	3.69	184.72	8440.74	94.06	153.60	153.88 S	23.37 W	32.76835339 N	103.37466225 W	155.64@	188.63	1.33
8543.35	3.38	188.60	8535.42	94.86	159.40	159.68 S	24.04 W	32.76833744 N	103.37466459 W	161.48@	188.56	0.41
** TIED INTO VAUGHN ENERGY SERVICES GYRO SURVEY @ 8637.81' MD.												
8637.81	4.09	192.11	8629.68	94.46	165.43	165.73 S	25.16 W	32.76832085 N	103.37466843 W	167.63@	188.63	0.79
THE FOLLOWING ARE PATHFINDER MWD SURVEYS.												
8711.00	4.40	180.75	8702.67	73.19	170.79	171.09 S	25.74 W	32.76830614 N	103.37467048 W	173.02@	188.56	1.22
8805.00	4.13	175.92	8796.41	94.00	177.77	178.07 S	25.55 W	32.76828695 N	103.37467006 W	179.90@	188.17	0.48
8842.00	4.31	170.12	8833.31	37.00	180.47	180.77 S	25.22 W	32.76827952 N	103.37466906 W	182.52@	187.94	1.25
8874.00	4.48	172.23	8865.22	32.00	182.90	183.19 S	24.84 W	32.76827285 N	103.37466791 W	184.87@	187.72	0.73
8905.00	5.19	174.78	8896.11	31.00	185.50	185.79 S	24.55 W	32.76826571 N	103.37466704 W	187.40@	187.53	2.39
8936.00	5.72	177.59	8926.97	31.00	188.44	188.73 S	24.36 W	32.76825763 N	103.37466650 W	190.29@	187.35	1.91
8968.00	7.39	182.07	8958.75	32.00	192.09	192.38 S	24.37 W	32.76824760 N	103.37466663 W	193.92@	187.22	5.45
8999.00	9.32	182.60	8989.42	31.00	196.59	196.88 S	24.55 W	32.76823523 N	103.37466736 W	198.40@	187.11	6.23
9031.00	12.13	181.72	9020.86	32.00	202.54	202.83 S	24.77 W	32.76821888 N	103.37466825 W	204.34@	186.96	8.80
9063.00	15.12	180.22	9051.96	32.00	210.07	210.37 S	24.89 W	32.76819818 N	103.37466885 W	211.83@	186.75	9.41
9094.00	18.55	179.52	9081.63	31.00	219.05	219.34 S	24.86 W	32.76817351 N	103.37466903 W	220.75@	186.47	11.08
9125.00	23.57	178.91	9110.55	31.00	230.18	230.48 S	24.70 W	32.76814290 N	103.37466884 W	231.80@	186.12	16.21
9157.00	27.87	178.82	9139.37	32.00	244.06	244.36 S	24.43 W	32.76810474 N	103.37466835 W	245.58@	185.71	13.44
9188.00	32.18	179.08	9166.20	31.00	259.57	259.86 S	24.14 W	32.76806212 N	103.37466789 W	260.98@	185.31	13.91
9220.00	36.93	179.43	9192.55	32.00	277.72	278.01 S	23.91 W	32.76801225 N	103.37466767 W	279.03@	184.92	14.86
9251.00	41.15	180.31	9216.62	31.00	297.24	297.53 S	23.87 W	32.76795860 N	103.37466813 W	298.48@	184.59	13.73
9283.00	43.18	180.84	9240.34	32.00	318.71	319.01 S	24.09 W	32.76789958 N	103.37466947 W	319.91@	184.32	6.44
9314.00	45.73	181.45	9262.47	31.00	340.41	340.71 S	24.53 W	32.76783994 N	103.37467152 W	341.59@	184.12	8.34
9345.00	49.86	181.45	9283.29	31.00	363.35	363.66 S	25.11 W	32.76777688 N	103.37467409 W	364.53@	183.95	13.32
9377.00	53.55	180.22	9303.11	32.00	388.45	388.77 S	25.47 W	32.76770789 N	103.37467600 W	389.60@	183.75	11.92
9408.00	57.68	179.61	9320.62	31.00	414.03	414.35 S	25.43 W	32.76763760 N	103.37467662 W	415.12@	183.51	13.42
9440.00	61.38	179.26	9336.84	32.00	441.61	441.92 S	25.15 W	32.76756181 N	103.37467654 W	442.64@	183.26	11.60
9471.00	64.19	179.17	9351.02	31.00	469.17	469.48 S	24.78 W	32.76748605 N	103.37467612 W	470.14@	183.02	9.07

PathFinder – a Schlumberger company

Survey Report

DEVON ENERGY PRODUCTION CO. L.P.
DOPPLEBOCK 8 STATE COM #1H ST1
LEA COUNTY, NM
API#: 30-025-41694 Rig: PATTERSON 228

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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)		Survey Latitude (deg)	Survey Longitude (deg)	Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
9503.00	67.18	179.43	9364.19	32.00	498.33	498.64 S	24.42 W	32.76740591 N	103.37467583 W	499.24@	182.80	9.37
9534.00	71.31	179.87	9375.18	31.00	527.31	527.62 S	24.24 W	32.76732626 N	103.37467611 W	528.18@	182.63	13.39
9565.00	75.18	180.49	9384.11	31.00	556.99	557.30 S	24.34 W	32.76724469 N	103.37467729 W	557.83@	182.50	12.63
9597.00	79.76	181.28	9391.05	32.00	588.20	588.52 S	24.82 W	32.76715889 N	103.37467979 W	589.05@	182.42	14.51
9628.00	83.62	181.63	9395.53	31.00	618.85	619.18 S	25.60 W	32.76707465 N	103.37468322 W	619.71@	182.37	12.50
9660.00	86.35	182.25	9398.33	32.00	650.69	651.04 S	26.68 W	32.76698713 N	103.37468767 W	651.58@	182.35	8.75
9755.00	88.72	182.01	9402.41	95.00	745.49	745.88 S	30.21 W	32.76672657 N	103.37470194 W	746.49@	182.32	2.51
9850.00	89.08	180.89	9404.24	95.00	840.40	840.83 S	32.61 W	32.76646568 N	103.37471256 W	841.46@	182.22	1.24
9945.00	89.78	179.84	9405.18	95.00	935.38	935.82 S	33.22 W	32.76620463 N	103.37471732 W	936.41@	182.03	1.33
10039.00	91.54	179.47	9404.10	94.00	1029.37	1029.81 S	32.65 W	32.76594631 N	103.37471825 W	1030.33@	181.82	1.91
10134.00	90.57	178.38	9402.35	95.00	1124.35	1124.77 S	30.87 W	32.76568527 N	103.37471525 W	1125.20@	181.57	1.54
10229.00	89.96	178.85	9401.91	95.00	1219.34	1219.74 S	28.57 W	32.76542421 N	103.37471058 W	1220.08@	181.34	0.81
10324.00	89.25	178.31	9402.57	95.00	1314.33	1314.71 S	26.22 W	32.76516316 N	103.37470572 W	1314.97@	181.14	0.94
10418.00	89.78	177.15	9403.36	94.00	1408.29	1408.63 S	22.50 W	32.76490494 N	103.37469638 W	1408.81@	180.91	1.36
10512.00	89.25	177.50	9404.16	94.00	1502.22	1502.53 S	18.11 W	32.76464678 N	103.37468487 W	1502.63@	180.69	0.68
10607.00	88.72	177.06	9405.84	95.00	1597.15	1597.40 S	13.60 W	32.76438592 N	103.37467300 W	1597.46@	180.49	0.72
10701.00	89.25	177.43	9407.51	94.00	1691.07	1691.28 S	9.08 W	32.76412781 N	103.37466108 W	1691.30@	180.31	0.69
10796.00	89.16	177.31	9408.82	95.00	1786.00	1786.17 S	4.73 W	32.76386692 N	103.37464969 W	1786.18@	180.15	0.16
10889.00	89.34	179.70	9410.04	93.00	1878.98	1879.12 S	2.30 W	32.76361139 N	103.37464454 W	1879.13@	180.07	2.58
10984.00	89.96	179.68	9410.62	95.00	1973.97	1974.12 S	1.79 W	32.76335030 N	103.37464567 W	1974.12@	180.05	0.65
11078.00	89.78	179.54	9410.83	94.00	2067.97	2068.12 S	1.15 W	32.76309195 N	103.37464635 W	2068.12@	180.03	0.24
11173.00	90.48	179.38	9410.62	95.00	2162.97	2163.11 S	0.25 W	32.76283086 N	103.37464624 W	2163.11@	180.01	0.76
11267.00	90.22	179.34	9410.05	94.00	2256.97	2257.10 S	0.80 E	32.76257252 N	103.37464559 W	2257.10@	179.98	0.28
11362.00	89.69	179.83	9410.12	95.00	2351.97	2352.10 S	1.49 E	32.76231142 N	103.37464615 W	2352.10@	179.96	0.76
11456.00	90.48	179.57	9409.98	94.00	2445.96	2446.10 S	1.98 E	32.76205307 N	103.37464732 W	2446.10@	179.95	0.89
11551.00	90.31	180.21	9409.33	95.00	2540.96	2541.10 S	2.16 E	32.76179199 N	103.37464953 W	2541.10@	179.95	0.70
11645.00	89.78	181.11	9409.25	94.00	2634.93	2635.09 S	1.08 E	32.76153370 N	103.37465582 W	2635.09@	179.98	1.11
11740.00	90.48	180.50	9409.04	95.00	2729.90	2730.08 S	0.26 W	32.76127268 N	103.37466296 W	2730.08@	180.01	0.98

PathFinder – a Schlumberger company

Survey Report

DEVON ENERGY PRODUCTION CO. L.P.
DOPPLEBOCK 8 STATE COM #1H ST1
LEA COUNTY, NM
API#: 30-025-41694 Rig: PATTERSON 228

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Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL		Survey Latitude (deg)	Survey Longitude (deg)	Closure		DLS (dg/100ft)
						Rectangular	Offsets			Dist	Dir	
						(ft)	(ft)			(ft)	(deg)	
11834.00	90.04	180.62	9408.61	94.00	2823.88	2824.07 S	1.17 W	32.76101438 N	103.37466871 W	2824.07@	180.02	0.49
11928.00	90.22	180.09	9408.40	94.00	2917.86	2918.07 S	1.76 W	32.76075606 N	103.37467338 W	2918.07@	180.03	0.60
12023.00	90.57	179.39	9407.74	95.00	3012.86	3013.07 S	1.33 W	32.76049497 N	103.37467477 W	3013.07@	180.03	0.82
12118.00	90.92	178.52	9406.51	95.00	3107.85	3108.04 S	0.41 E	32.76023391 N	103.37467193 W	3108.04@	179.99	0.99
12212.00	90.22	178.76	9405.57	94.00	3201.83	3202.01 S	2.64 E	32.75997560 N	103.37466744 W	3202.01@	179.95	0.79
12307.00	90.22	177.55	9405.21	95.00	3296.81	3296.96 S	5.70 E	32.75971458 N	103.37466029 W	3296.96@	179.90	1.27
12401.00	89.52	177.05	9405.42	94.00	3390.75	3390.85 S	10.12 E	32.75945642 N	103.37464866 W	3390.87@	179.83	0.92
12496.00	90.31	177.21	9405.56	95.00	3485.68	3485.73 S	14.88 E	32.75919555 N	103.37463598 W	3485.76@	179.76	0.85
12590.00	89.60	178.06	9405.63	94.00	3579.63	3579.65 S	18.76 E	32.75893734 N	103.37462613 W	3579.70@	179.70	1.18
12684.00	89.78	176.91	9406.14	94.00	3673.58	3673.56 S	22.88 E	32.75867915 N	103.37461548 W	3673.63@	179.64	1.24
12779.00	89.25	177.46	9406.95	95.00	3768.51	3768.44 S	27.55 E	32.75841827 N	103.37460310 W	3768.54@	179.58	0.80
12873.00	89.69	177.86	9407.82	94.00	3862.46	3862.36 S	31.39 E	32.75816007 N	103.37459338 W	3862.48@	179.53	0.63
12968.00	90.92	177.93	9407.31	95.00	3957.43	3957.29 S	34.88 E	32.75789908 N	103.37458483 W	3957.44@	179.50	1.30
13062.00	90.22	178.12	9406.38	94.00	4051.40	4051.23 S	38.12 E	32.75764082 N	103.37457706 W	4051.41@	179.46	0.77
13157.00	89.52	179.37	9406.59	95.00	4146.39	4146.20 S	40.20 E	32.75737976 N	103.37457309 W	4146.40@	179.44	1.51
13251.00	90.04	178.44	9406.95	94.00	4240.39	4240.18 S	41.99 E	32.75712143 N	103.37457002 W	4240.39@	179.43	1.13
13346.00	89.60	179.17	9407.25	95.00	4335.38	4335.16 S	43.97 E	32.75686035 N	103.37456637 W	4335.38@	179.42	0.90
13440.00	90.75	178.47	9406.96	94.00	4429.37	4429.14 S	45.91 E	32.75660202 N	103.37456284 W	4429.38@	179.41	1.43
13535.00	90.40	178.27	9406.01	95.00	4524.35	4524.09 S	48.61 E	32.75634099 N	103.37455685 W	4524.35@	179.38	0.42
13630.00	89.96	179.52	9405.71	95.00	4619.35	4619.07 S	50.44 E	32.75607991 N	103.37455369 W	4619.35@	179.37	1.40
13705.00	89.25	178.91	9406.23	75.00	4694.35	4694.07 S	51.47 E	32.75587379 N	103.37455255 W	4694.35@	179.37	1.25
STRAIGHT LINE PROJECTION TO BIT AT 13760' MD.												
13760.00	89.00	178.50	9407.07	55.00	4749.34	4749.04 S	52.71 E	32.75572266 N	103.37455013 W	4749.34@	179.36	0.87

** 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 – a Schlumberger company and may reflect minor changes due to rounding differences between survey programs. Only survey stations taken by qualified PathFinder personnel are subject to certification.



Directional Survey

District DELAWARE BASIN	County LEA	Field Name WEIHEN	Project Group DELAWARE BASIN REG			State/Province NM	
Surface Legal Location SEC8 T18S R36E	API/UWI 3002541694	Latitude (°) 32° 46' 7.593" N	Longitude (°) 103° 22' 28.494" W	Ground Elev... 3,582.30	KB - GL (ft) 26.50	Orig KB Elev (ft) 3,608.80	Tubing Head Elevation (ft)

Wellbores							
Wellbore Name OH	Parent Wellbore	SAP Well ID	Kick Off Depth (ftKB)	Vertical Section Direction (°) 179.44			
Actual Deviation Survey		Definitive?	Proposed?	Proposed Deviation Survey			

Deviation Survey							
Date	Description						
MD Tie In (ftKB)	TVD Tie In (ftKB)	Inclination Tie In (°)	Azimuth Tie In (°)	NSTie In (ft)	EW Tie In (ft)		

Survey Data										
Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	Survey Tool	Survey Company
Wellbore Name ST01	Parent Wellbore OH	SAP Well ID	Kick Off Depth (ftKB) 7,505.0	Vertical Section Direction (°) 179.33						
Actual Deviation Survey MWD, Proposed? No		Definitive? Yes	Proposed? No	Proposed Deviation Survey						

Deviation Survey										
Date 6/20/2014	Description MWD									
MD Tie In (ftKB) 7,453.00	TVD Tie In (ftKB) 7,448.33	Inclination Tie In (°) 3.12	Azimuth Tie In (°) 295.70	NSTie In (ft) -91.25	EW Tie In (ft) 0.60					

Survey Data										
Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	Survey Tool	Survey Company
6/30/2014	8,638.00	4.09	192.11	8,631.92	118.16	-118.61	-37.35	0.48	MWD	PATHFINDER ENERGY SE...
6/21/2014	8,711.00	4.40	180.75	8,704.72	123.50	-123.95	-37.94	1.23	MWD	PATHFINDER ENERGY SE...
6/21/2014	8,805.00	4.13	175.92	8,798.46	130.48	-130.93	-37.74	0.48	MWD	PATHFINDER ENERGY SE...
6/30/2014	8,842.00	4.31	170.12	8,835.36	133.19	-133.63	-37.41	1.25	MWD	PATHFINDER ENERGY SE...
6/25/2014	8,874.00	4.48	172.23	8,867.26	135.61	-136.06	-37.04	0.73	MWD	PATHFINDER ENERGY SE...
6/25/2014	8,905.00	5.19	174.78	8,898.15	138.21	-138.65	-36.74	2.39	MWD	PATHFINDER ENERGY SE...
6/25/2014	8,936.00	5.72	177.59	8,929.01	141.15	-141.59	-36.55	1.91	MWD	PATHFINDER ENERGY SE...
6/25/2014	8,968.00	7.39	182.07	8,960.80	144.80	-145.24	-36.56	5.45	MWD	PATHFINDER ENERGY SE...
6/25/2014	8,999.00	9.32	182.60	8,991.47	149.30	-149.74	-36.74	6.23	MWD	PATHFINDER ENERGY SE...
6/26/2014	9,031.00	12.13	181.72	9,022.91	155.25	-155.69	-36.96	8.80	MWD	PATHFINDER ENERGY SE...
6/26/2014	9,063.00	15.12	180.22	9,054.01	162.78	-163.23	-37.08	9.41	MWD	PATHFINDER ENERGY SE...
6/26/2014	9,094.00	18.55	179.52	9,083.67	171.76	-172.20	-37.05	11.08	MWD	PATHFINDER ENERGY SE...
6/27/2014	9,125.00	23.57	178.91	9,112.59	182.90	-183.34	-36.90	16.21	MWD	PATHFINDER ENERGY SE...
6/27/2014	9,157.00	27.87	178.82	9,141.42	196.78	-197.22	-36.62	13.44	MWD	PATHFINDER ENERGY SE...
6/27/2014	9,188.00	32.18	179.08	9,168.25	212.29	-212.73	-36.34	13.91	MWD	PATHFINDER ENERGY SE...
6/27/2014	9,220.00	36.93	179.43	9,194.60	230.43	-230.87	-36.10	14.86	MWD	PATHFINDER ENERGY SE...
6/27/2014	9,251.00	41.15	180.31	9,218.67	249.95	-250.39	-36.07	13.73	MWD	PATHFINDER ENERGY SE...
6/27/2014	9,283.00	43.18	180.84	9,242.39	271.43	-271.87	-36.28	6.44	MWD	PATHFINDER ENERGY SE...
6/27/2014	9,314.00	45.73	181.45	9,264.51	293.12	-293.57	-36.72	8.34	MWD	PATHFINDER ENERGY SE...
6/27/2014	9,345.00	49.86	181.45	9,285.33	316.07	-316.52	-37.30	13.32	MWD	PATHFINDER ENERGY SE...
6/27/2014	9,377.00	53.55	180.22	9,305.16	341.17	-341.63	-37.66	11.92	MWD	PATHFINDER ENERGY SE...
6/27/2014	9,408.00	57.68	179.61	9,322.67	366.74	-367.21	-37.62	13.42	MWD	PATHFINDER ENERGY SE...
6/27/2014	9,440.00	61.38	179.26	9,338.89	394.32	-394.78	-37.35	11.60	MWD	PATHFINDER ENERGY SE...
6/27/2014	9,471.00	64.19	179.17	9,353.07	421.88	-422.35	-36.97	9.07	MWD	PATHFINDER ENERGY SE...
6/27/2014	9,503.00	67.18	179.43	9,366.24	451.04	-451.50	-36.61	9.37	MWD	PATHFINDER ENERGY SE...
6/28/2014	9,534.00	71.31	179.87	9,377.22	480.02	-480.48	-36.44	13.39	MWD	PATHFINDER ENERGY SE...
6/28/2014	9,565.00	75.18	180.49	9,386.16	509.70	-510.16	-36.53	12.63	MWD	PATHFINDER ENERGY SE...
6/28/2014	9,597.00	79.76	181.28	9,393.10	540.92	-541.39	-37.02	14.51	MWD	PATHFINDER ENERGY SE...
6/28/2014	9,628.00	83.62	181.63	9,397.58	571.56	-572.04	-37.80	12.50	MWD	PATHFINDER ENERGY SE...
6/28/2014	9,660.00	86.35	182.25	9,400.38	603.40	-603.90	-38.88	8.75	MWD	PATHFINDER ENERGY SE...
6/29/2014	9,755.00	88.72	182.01	9,404.46	698.20	-698.74	-42.40	2.51	MWD	PATHFINDER ENERGY SE...
6/30/2014	9,850.00	89.08	180.89	9,406.29	793.11	-793.69	-44.81	1.24	MWD	PATHFINDER ENERGY SE...
6/30/2014	9,945.00	89.78	179.84	9,407.23	888.09	-888.68	-45.41	1.33	MWD	PATHFINDER ENERGY SE...
6/30/2014	10,039.00	91.54	179.47	9,406.15	982.08	-982.67	-44.85	1.91	MWD	PATHFINDER ENERGY SE...
6/30/2014	10,134.00	90.57	178.38	9,404.40	1,077.06	-1,077.64	-43.06	1.54	MWD	PATHFINDER ENERGY SE...
6/30/2014	10,229.00	89.96	178.85	9,403.96	1,172.05	-1,172.61	-40.77	0.81	MWD	PATHFINDER ENERGY SE...



Directional Survey

District DELAWARE BASIN	County LEA	Field Name WEIHEN	Project Group DELAWARE BASIN REG	State/Province NM			
Surface Legal Location SEC8 T18S R36E	API/UWI 3002541694	Latitude (°) 32° 46' 7.593" N	Longitude (°) 103° 22' 28.494" W	Ground Elev... 3,582.30	KB - GL (ft) 26.50	Orig KB Elev (ft) 3,608.80	Tubing Head Elevation (ft)

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	Survey Tool	Survey Company
6/30/2014	10,324.00	89.25	178.31	9,404.61	1,267.04	-1,267.57	-38.41	0.94	MWD	PATHFINDER ENERGY SE...
6/30/2014	10,418.00	89.78	177.17	9,405.41	1,361.00	-1,361.49	-34.71	1.34	MWD	PATHFINDER ENERGY SE...
6/30/2014	10,512.00	89.25	177.50	9,406.21	1,454.94	-1,455.39	-30.34	0.66	MWD	PATHFINDER ENERGY SE...
6/30/2014	10,607.00	88.72	177.06	9,407.89	1,549.86	-1,550.27	-25.83	0.73	MWD	PATHFINDER ENERGY SE...
6/30/2014	10,701.00	89.25	177.43	9,409.55	1,643.78	-1,644.14	-21.31	0.69	MWD	PATHFINDER ENERGY SE...
6/30/2014	10,796.00	89.16	177.31	9,410.87	1,738.72	-1,739.03	-16.95	0.16	MWD	PATHFINDER ENERGY SE...
7/1/2014	10,889.00	89.34	179.70	9,412.09	1,831.69	-1,831.99	-14.53	2.58	MWD	PATHFINDER ENERGY SE...
7/1/2014	10,984.00	89.96	179.68	9,412.67	1,926.69	-1,926.98	-14.01	0.65	MWD	PATHFINDER ENERGY SE...
7/2/2014	11,074.00	89.78	179.54	9,412.87	2,016.69	-2,016.98	-13.40	0.25	MWD	PATHFINDER ENERGY SE...
7/2/2014	11,173.00	90.48	179.38	9,412.65	2,115.69	-2,115.98	-12.47	0.73	MWD	PATHFINDER ENERGY SE...
7/2/2014	11,267.00	90.22	179.34	9,412.08	2,209.68	-2,209.97	-11.42	0.28	MWD	PATHFINDER ENERGY SE...
7/2/2014	11,417.00	89.69	179.83	9,412.19	2,359.68	-2,359.96	-10.33	0.48	MWD	PATHFINDER ENERGY SE...
7/2/2014	11,456.00	90.48	179.57	9,412.14	2,398.68	-2,398.96	-10.13	2.13	MWD	PATHFINDER ENERGY SE...
7/2/2014	11,551.00	90.31	180.21	9,411.48	2,493.67	-2,493.96	-9.94	0.70	MWD	PATHFINDER ENERGY SE...
7/2/2014	11,645.00	89.78	181.11	9,411.41	2,587.65	-2,587.95	-11.03	1.11	MWD	PATHFINDER ENERGY SE...
7/2/2014	11,740.00	90.48	180.50	9,411.19	2,682.61	-2,682.94	-12.36	0.98	MWD	PATHFINDER ENERGY SE...
7/2/2014	11,834.00	90.04	180.62	9,410.76	2,776.59	-2,776.94	-13.28	0.49	MWD	PATHFINDER ENERGY SE...
7/2/2014	11,928.00	90.22	180.09	9,410.55	2,870.57	-2,870.93	-13.86	0.60	MWD	PATHFINDER ENERGY SE...
7/2/2014	12,023.00	90.57	179.39	9,409.90	2,965.57	-2,965.93	-13.43	0.82	MWD	PATHFINDER ENERGY SE...
7/2/2014	12,118.00	90.92	178.52	9,408.66	3,060.56	-3,060.90	-11.70	0.99	MWD	PATHFINDER ENERGY SE...
7/2/2014	12,212.00	90.22	178.76	9,407.73	3,154.55	-3,154.87	-9.47	0.79	MWD	PATHFINDER ENERGY SE...
7/3/2014	12,307.00	90.22	177.55	9,407.36	3,249.52	-3,249.82	-6.41	1.27	MWD	PATHFINDER ENERGY SE...
7/3/2014	12,496.00	90.31	177.21	9,406.49	3,438.41	-3,438.62	2.23	0.19	MWD	PATHFINDER ENERGY SE...
7/3/2014	12,590.00	89.60	178.06	9,406.56	3,532.37	-3,532.54	6.11	1.18	MWD	PATHFINDER ENERGY SE...
7/3/2014	12,684.00	89.78	176.91	9,407.07	3,626.32	-3,626.45	10.23	1.24	MWD	PATHFINDER ENERGY SE...
7/3/2014	12,779.00	89.25	177.46	9,407.87	3,721.25	-3,721.33	14.90	0.80	MWD	PATHFINDER ENERGY SE...
7/3/2014	12,873.00	89.69	177.86	9,408.74	3,815.20	-3,815.24	18.74	0.63	MWD	PATHFINDER ENERGY SE...
7/3/2014	12,968.00	90.92	177.93	9,408.24	3,910.17	-3,910.18	22.23	1.30	MWD	PATHFINDER ENERGY SE...
7/3/2014	13,062.00	90.22	178.12	9,407.30	4,004.14	-4,004.12	25.47	0.77	MWD	PATHFINDER ENERGY SE...
7/3/2014	13,157.00	89.52	179.37	9,407.52	4,099.13	-4,099.09	27.55	1.51	MWD	PATHFINDER ENERGY SE...
7/3/2014	13,251.00	90.04	178.44	9,407.88	4,193.13	-4,193.07	29.34	1.13	MWD	PATHFINDER ENERGY SE...
7/4/2014	13,346.00	89.60	179.17	9,408.18	4,288.12	-4,288.05	31.32	0.90	MWD	PATHFINDER ENERGY SE...
7/4/2014	13,440.00	90.75	178.47	9,407.89	4,382.12	-4,382.03	33.26	1.43	MWD	PATHFINDER ENERGY SE...
7/4/2014	13,535.00	90.40	178.27	9,406.94	4,477.10	-4,476.98	35.96	0.42	MWD	PATHFINDER ENERGY SE...
7/4/2014	13,630.00	89.96	179.52	9,406.64	4,572.09	-4,571.96	37.79	1.39	MWD	PATHFINDER ENERGY SE...
7/4/2014	13,705.00	89.25	178.91	9,407.16	4,647.09	-4,646.95	38.82	1.25	MWD	PATHFINDER ENERGY SE...
7/4/2014	13,760.00	89.00	178.50	9,407.99	4,702.08	-4,701.93	40.06	0.87	BIT	PATHFINDER ENERGY SE...