

Results of Directional Survey

API number:	30-025-41693		
OGRID:		Operator:	DEVON ENERGY PRODUCTION COMPANY, LP
		Property:	DUNKEL 7 STATE # 1H

surface	ULSTR:	M	07	T 18S	R 36E
				200 FSL ✓	865 FWL ✓

BH Loc	ULSTR:	D	07	T 18S	R 36E
13639	MD	9120.9	TVD	578 FNL	621 FWL ✓
				4702 FSL	

Top Perf/OH	ULSTR:	M	07	T 18S	R 36E
9438	MD	9273.6	TVD	510 FSL	602 FWL

Bot Perf/OH	ULSTR:	D	07	T 18S	R 36E
13535	MD	9124.8	TVD	682 FSL	619 FWL
				4598 FSL	

	MD	N/S	E/W	VD
	9417	289.96	-263.80	9266.86
TOP PERFS/OH	9438	309.80	-262.59	9273.61
	9448	319.25	-262.01	9276.83
	13516	4379.22	-246.23	9125.53
BOT PERFS/OH	13535	4398.20	-245.89	9124.80
	13575	4438.17	-245.18	9123.27

NEXT TO LAST	13575	4438.17	-245.18	9123.27
LAST READING	13639	4502.11	-243.63	9120.93
TD	13639	4502.11	-243.63	9120.93

Surface Location	200	FS	865	FW
Projected BHL	4702	FS	621	FW
Location of				
Top Perfs/OH	510	FS	602	FW
Bottom Perfs/OH	4598	FS	619	FW

SUMMARY of Subsurface Locations

Surface Location	M-07-18S-36E	200	FS	865	FW	Vert. Depth
Top Perfs/OH	M-07-18S-36E	510	FS	602	FW	9273.61
Bottom Perfs/OH	D-07-18S-36E	4598	FS	619	FW	9124.80
Projected TD	D-07-18S-36E	4702	FS	621	FW	9120.93

FEB 03 2015

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

HOBBSOCD

JAN 05 2015

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PATHFINDER
A Schlumberger Company

DIRECTIONAL SURVEY REPORT

DEVON ENERGY PRODUCTION CO., L.P.

DUNKEL 7 STATE #001H LATERAL

LEA COUNTY, NEW MEXICO

PREPARED BY: MARK TRAHAN

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



October 14, 2014

DEVON ENERGY PRODUCTION CO.
Ms. Judy Barnett
Regulatory Compliance Professional
333 West Sheridan
Oklahoma City, OK 73102

RE: DEVON ENERGY PRODUCTION CO., L.P.
DUNKEL 7 STATE #001H LATERAL
LEA COUNTY, NM
RIG: PATTERSON 228
API NO.: 30-025-41693
FILE NO.: 14LAF0242

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

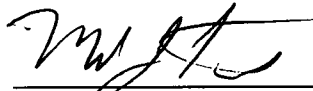
MT:tb

DIRECTIONAL SURVEY COMPANY REPORT:

1. SURVEYING COMPANY: PATHFINDER, A SCHLUMBERGER COMPANY
2. NAME OF PERSON(S) PERFORMING SURVEY:
A) DERICK RICHARD
B) CAESAR SALIZAR
3. POSITION OF SAID PERSON(S): (A-B) SURVEYORS (FIELD ENGINEERS)
4. DATE(S) ON WHICH SURVEY WAS PERFORMED: 09/11/14 TO 09/26/14
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.
DUNKEL 7 STATE #001H LATERAL
LEA COUNTY, NM
RIG: PATTERSON 228
API NO.: 30-025-41693
9. SURVEY CERTIFIED FROM: 0 TO 13,639 FEET MEASURED DEPTH.

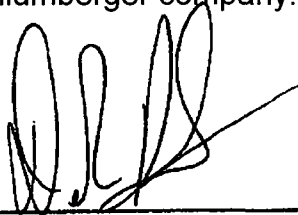
THIS IS TO VERIFY THAT ATTACHED DOCUMENTS SHOWING THE WELL TO BE DISPLACED AT 4,508.69 FEET ON A BEARING OF 356.90 DEGREES FROM THE CENTER OF THE ROTARY TABLE AT A STRAIGHT LINE PROJECTED TO BIT DEPTH OF 13,639 FEET, ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.



MARK TRAHAN
M/LWD SERVICE COORDINATOR

STATE OF LOUISIANA
PARISH OF LAFAYETTE

I, **Derick Richard**, certify that; I am employed by PathFinder, a Schlumberger company; that I did on the day(s) of **09/11/14** through **09/26/14** conduct or supervise the taking of a **Measurement While Drilling** survey from a depth of **8,455 feet to a depth of 13,639 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 **Dunkel 7 State #001H Lateral Well API No. 30-025-41693** 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: 09/11/2014
Date Completed: 09/26/2014

DEVON ENERGY PRODUCTION COMPANY, LP
DUNKEL 7 STATE #001H LATERAL
LEA COUNTY, NM
API#: 30-025-41693 Rig: PATTERSON 228
PathFinder Office Supervisor: MARK TRAHAN
PathFinder Field Engineers: DERICK RICHARD
CAESAR SALIZAR

Survey Horiz. Reference: WELLHEAD
Ref Coordinates: LAT: 32.45.19.7280 N LON: 103.23.58.0092 W
GRID Reference: NAD83 new mexico east Transverse Mercator
Ref GRID Coord: X: 828437.5959 Y: 639841.5017
North Aligned To: GRID NORTH
Total Magnetic Correction: 6.64° EAST TO GRID
Vertical Section Plane: 356.95
Survey Vert. Reference: 26.60' Rotary Table To Ground
Altitude: 3866.50' Ground To MSL

Measured Depth	13639.00	(feet)
Inclination	92.05	(deg)
Azimuth	1.50	(deg)
True Vertical Depth	9120.93	(feet)
Vertical Section	4508.69	(feet)
Survey X cord	828193.96	(feet)
Survey Y cord	644343.61	(feet)
Survey Lat	32.76785907 N	(deg)
Survey Lon	103.40011032 W	(deg)
Rectangular Corr. N/S	4502.11 N	(feet)
Rectangular Corr. E/W	243.63 W	(feet)
Closure Distance	4508.69	(feet)
Direction of Closure	356.90	(deg)
Dogleg Severity	0.38	(deg/100ft)

PathFinder – a Schlumberger company

Survey Report

DEVON ENERGY PRODUCTION COMPANY, LP
DUNKEL 7 STATE #001H LATERAL
LEA COUNTY, NM
API#: 30-025-41693 Rlg: PATTERSON 228
PathFinder Office Supervisor: MARK TRAHAN
PathFinder Field Engineers: DERICK RICHARD
CAESAR SALIZAR

Survey Horiz. Reference: WELLHEAD
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Ref GRID Coord: X: 828437.5959 Y: 639841.5017
North Aligned To: GRID NORTH
Total Magnetic Correction: 6.64° EAST TO GRID
Vertical Section Plane: 356.95
Survey Vert. Reference: 26.60' Rotary Table To Ground
Altitude: 3866.50' Ground To MSL

Survey Calculations by RX5 V7.01 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)
THE FOLLOWING ARE EXTREME ENGINEERING GYRO SURVEY.												
0.00	0.00	0.00	0.00	0.00	0.00	0.00 N	0.00 W	32.75548001 N	103.39944701 W	0.00@	323.63	0.00
102.00	0.09	6.61	102.00	102.00	0.08	0.08 N	0.01 E	32.75548023 N	103.39944698 W	0.08@	4.41	0.09
184.00	0.31	207.13	184.00	82.00	-0.05	0.05 S	0.09 W	32.75547986 N	103.39944729 W	0.10@	240.16	0.48
281.00	0.40	205.55	281.00	97.00	-0.57	0.59 S	0.35 W	32.75547839 N	103.39944817 W	0.69@	210.93	0.09
380.00	0.62	5.65	380.00	99.00	-0.34	0.37 S	0.45 W	32.75547900 N	103.39944847 W	0.58@	230.69	1.01
472.00	0.40	216.53	472.00	92.00	-0.10	0.13 S	0.59 W	32.75547966 N	103.39944893 W	0.61@	257.55	1.07
566.00	0.48	224.36	565.99	94.00	-0.62	0.68 S	1.06 W	32.75547817 N	103.39945047 W	1.26@	237.53	0.11
659.00	0.40	245.23	658.99	93.00	-1.00	1.09 S	1.63 W	32.75547704 N	103.39945233 W	1.96@	236.21	0.19
748.00	0.70	240.66	747.99	89.00	-1.36	1.49 S	2.39 W	32.75547597 N	103.39945480 W	2.81@	238.06	0.34
843.00	0.48	225.54	842.98	95.00	-1.88	2.05 S	3.18 W	32.75547444 N	103.39945739 W	3.78@	237.15	0.28
931.00	0.62	250.85	930.98	88.00	-2.25	2.46 S	3.89 W	32.75547332 N	103.39945972 W	4.60@	237.63	0.31
1025.00	0.70	241.54	1024.97	94.00	-2.64	2.90 S	4.87 W	32.75547214 N	103.39946293 W	5.67@	239.20	0.14
1116.00	0.79	248.04	1115.96	91.00	-3.08	3.40 S	5.94 W	32.75547079 N	103.39946643 W	6.85@	240.20	0.14
1210.00	0.88	241.36	1209.95	94.00	-3.60	3.99 S	7.18 W	32.75546920 N	103.39947046 W	8.21@	240.92	0.14
1300.00	1.01	247.03	1299.94	90.00	-4.17	4.63 S	8.52 W	32.75546747 N	103.39947483 W	9.69@	241.45	0.18
1394.00	1.10	244.35	1393.93	94.00	-4.80	5.35 S	10.09 W	32.75546555 N	103.39947997 W	11.42@	242.08	0.11
1486.00	1.10	246.15	1485.91	92.00	-5.46	6.09 S	11.70 W	32.75546356 N	103.39948521 W	13.18@	242.51	0.04
1585.00	1.01	250.46	1584.89	99.00	-6.04	6.76 S	13.39 W	32.75546174 N	103.39949073 W	15.00@	243.20	0.12
1673.00	0.79	245.05	1672.88	88.00	-6.49	7.28 S	14.67 W	32.75546035 N	103.39949491 W	16.37@	243.61	0.27
1767.00	0.79	232.66	1766.87	94.00	-7.09	7.94 S	15.77 W	32.75545855 N	103.39949852 W	17.66@	243.26	0.18
1863.00	1.01	234.77	1862.86	96.00	-7.92	8.83 S	16.99 W	32.75545613 N	103.39950250 W	19.15@	242.52	0.23
2059.00	0.70	236.84	2058.84	196.00	-9.44	10.49 S	19.40 W	32.75545165 N	103.39951040 W	22.05@	241.61	0.16
2150.00	0.70	5.65	2149.84	91.00	-9.17	10.24 S	19.81 W	32.75545235 N	103.39951173 W	22.30@	242.68	1.39

PathFinder – a Schlumberger company

Survey Report

DEVON ENERGY PRODUCTION COMPANY, LP
DUNKEL 7 STATE #001H LATERAL
LEA COUNTY, NM
API#: 30-025-41693 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)
2243.00	1.01	246.15	2242.83	93.00	-8.90	10.00 S	20.51 W	32.75545301 N	103.39951398 W	22.81@	244.00	1.60
2340.00	1.10	244.35	2339.81	97.00	-9.56	10.75 S	22.13 W	32.75545099 N	103.39951927 W	24.60@	244.09	0.10
2429.00	1.01	253.36	2428.80	89.00	-10.07	11.35 S	23.65 W	32.75544939 N	103.39952424 W	26.23@	244.37	0.21
2524.00	0.88	254.24	2523.79	95.00	-10.43	11.78 S	25.15 W	32.75544823 N	103.39952915 W	27.78@	244.90	0.14
2617.00	0.79	257.27	2616.78	93.00	-10.69	12.12 S	26.47 W	32.75544734 N	103.39953342 W	29.11@	245.40	0.11
2712.00	0.88	265.97	2711.77	95.00	-10.82	12.31 S	27.83 W	32.75544683 N	103.39953787 W	30.43@	246.13	0.16
2806.00	0.79	257.45	2805.76	94.00	-10.94	12.51 S	29.18 W	32.75544634 N	103.39954228 W	31.75@	246.80	0.16
2900.00	0.88	261.75	2899.75	94.00	-11.11	12.75 S	30.53 W	32.75544570 N	103.39954667 W	33.09@	247.33	0.12
2995.00	0.88	280.56	2994.74	95.00	-11.00	12.72 S	31.97 W	32.75544581 N	103.39955135 W	34.41@	248.30	0.30
3088.00	0.79	285.83	3087.73	93.00	-10.63	12.42 S	33.29 W	32.75544669 N	103.39955563 W	35.53@	249.55	0.13
3121.00	1.01	283.07	3120.72	33.00	-10.47	12.29 S	33.79 W	32.75544705 N	103.39955726 W	35.96@	250.02	0.68
3282.00	0.88	300.64	3281.70	161.00	-9.39	11.34 S	36.24 W	32.75544972 N	103.39956519 W	37.97@	252.63	0.20
3402.00	1.01	303.27	3401.68	120.00	-8.25	10.29 S	37.91 W	32.75545265 N	103.39957061 W	39.29@	254.82	0.11
3555.00	1.58	306.36	3554.64	153.00	-6.12	8.30 S	40.74 W	32.75545819 N	103.39957974 W	41.58@	258.49	0.38
3649.00	1.80	311.15	3648.60	94.00	-4.26	6.56 S	42.90 W	32.75546302 N	103.39958670 W	43.39@	261.31	0.28
3743.00	1.19	312.64	3742.57	94.00	-2.54	4.92 S	44.73 W	32.75546755 N	103.39959261 W	45.00@	263.72	0.65
3910.00	1.19	311.88	3909.53	167.00	-0.07	2.59 S	47.29 W	32.75547402 N	103.39960089 W	47.36@	266.86	0.01
4047.00	1.19	309.96	4046.50	137.00	1.90	0.73 S	49.44 W	32.75547920 N	103.39960783 W	49.45@	269.16	0.03
4235.00	1.01	314.94	4234.47	188.00	4.47	1.70 N	52.11 W	32.75548592 N	103.39961644 W	52.14@	271.86	0.11
4389.00	0.89	317.87	4388.45	154.00	6.40	3.54 N	53.87 W	32.75549104 N	103.39962212 W	53.99@	273.76	0.08
4517.00	0.79	322.66	4516.44	128.00	7.90	4.98 N	55.08 W	32.75549502 N	103.39962599 W	55.30@	275.17	0.10
4589.00	0.62	321.03	4588.43	72.00	8.63	5.68 N	55.62 W	32.75549695 N	103.39962775 W	55.91@	275.83	0.24
4686.00	0.70	319.36	4685.42	97.00	9.52	6.54 N	56.34 W	32.75549933 N	103.39963005 W	56.72@	276.62	0.09
4780.00	0.62	321.17	4779.42	94.00	10.39	7.37 N	57.03 W	32.75550163 N	103.39963228 W	57.50@	277.36	0.09
4874.00	0.62	319.06	4873.41	94.00	11.21	8.15 N	57.68 W	32.75550379 N	103.39963438 W	58.26@	278.04	0.02
4970.00	0.62	317.34	4969.41	96.00	12.02	8.92 N	58.38 W	32.75550594 N	103.39963661 W	59.05@	278.69	0.02
5063.00	0.48	307.46	5062.40	93.00	12.66	9.53 N	59.03 W	32.75550762 N	103.39963870 W	59.79@	279.17	0.18

PathFinder – a Schlumberger company

Survey Report

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DUNKEL 7 STATE #001H LATERAL
LEA COUNTY, NM
API#: 30-025-41693 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)
5157.00	0.48	318.97	5156.40	94.00	13.22	10.07 N	59.60 W	32.75550911 N	103.39964055 W	60.44@	279.59	0.10
5273.00	0.40	305.29	5272.39	116.00	13.86	10.67 N	60.25 W	32.75551077 N	103.39964264 W	61.18@	280.04	0.11
5362.00	0.40	220.77	5361.39	89.00	13.83	10.61 N	60.70 W	32.75551063 N	103.39964413 W	61.62@	279.91	0.60
5456.00	0.60	322.66	5455.39	94.00	13.99	10.75 N	61.22 W	32.75551104 N	103.39964579 W	62.15@	279.96	0.84
5550.00	0.40	337.95	5549.39	94.00	14.71	11.45 N	61.64 W	32.75551296 N	103.39964714 W	62.69@	280.52	0.25
5703.00	0.40	340.55	5702.38	153.00	15.73	12.45 N	62.02 W	32.75551571 N	103.39964834 W	63.25@	281.35	0.01
5821.00	0.22	345.47	5820.38	118.00	16.35	13.05 N	62.21 W	32.75551739 N	103.39964896 W	63.56@	281.85	0.15
5915.00	0.22	354.57	5914.38	94.00	16.70	13.41 N	62.27 W	32.75551836 N	103.39964915 W	63.70@	282.15	0.04
6006.00	0.00	302.05	6005.38	91.00	16.88	13.58 N	62.29 W	32.75551884 N	103.39964920 W	63.75@	282.30	0.24
6102.00	0.31	1.73	6101.38	96.00	17.14	13.84 N	62.28 W	32.75551955 N	103.39964917 W	63.80@	282.53	0.32
6195.00	0.22	328.24	6194.38	93.00	17.54	14.25 N	62.37 W	32.75552066 N	103.39964944 W	63.97@	282.87	0.19
6289.00	0.09	351.75	6288.38	94.00	17.78	14.47 N	62.47 W	32.75552129 N	103.39964977 W	64.13@	283.04	0.15
6383.00	0.31	341.16	6382.38	94.00	18.09	14.79 N	62.57 W	32.75552215 N	103.39965007 W	64.29@	283.30	0.24
6477.00	0.22	341.25	6476.38	94.00	18.51	15.20 N	62.71 W	32.75552329 N	103.39965051 W	64.52@	283.62	0.10
6584.00	0.31	316.95	6583.38	107.00	18.93	15.60 N	62.97 W	32.75552441 N	103.39965136 W	64.87@	283.92	0.13
6679.00	0.48	291.64	6678.37	95.00	19.30	15.94 N	63.51 W	32.75552534 N	103.39965312 W	65.48@	284.09	0.25
6773.00	0.79	288.34	6772.37	94.00	19.70	16.29 N	64.50 W	32.75552633 N	103.39965630 W	66.52@	284.17	0.33
6868.00	0.88	277.84	6867.36	95.00	20.07	16.59 N	65.84 W	32.75552720 N	103.39966066 W	67.90@	284.15	0.19
6962.00	1.10	275.24	6961.34	94.00	20.34	16.77 N	67.45 W	32.75552774 N	103.39966591 W	69.51@	283.96	0.24
7056.00	1.32	270.15	7055.32	94.00	20.53	16.86 N	69.43 W	32.75552802 N	103.39967235 W	71.45@	283.65	0.26
7150.00	1.58	264.04	7149.29	94.00	20.52	16.73 N	71.81 W	32.75552771 N	103.39968007 W	73.73@	283.11	0.32
7245.00	1.71	261.93	7244.25	95.00	20.33	16.39 N	74.51 W	32.75552686 N	103.39968888 W	76.29@	282.41	0.15
7324.00	1.80	261.14	7323.22	79.00	20.11	16.04 N	76.91 W	32.75552594 N	103.39969667 W	78.56@	281.78	0.12
7418.00	1.89	254.77	7417.17	94.00	19.63	15.40 N	79.86 W	32.75552426 N	103.39970630 W	81.33@	280.92	0.24
7512.00	1.80	245.93	7511.12	94.00	18.77	14.39 N	82.70 W	32.75552156 N	103.39971557 W	83.95@	279.87	0.32
7606.00	2.02	240.04	7605.07	94.00	17.49	12.96 N	85.49 W	32.75551770 N	103.39972467 W	86.46@	278.62	0.31
7703.00	1.98	239.28	7702.01	97.00	15.94	11.25 N	88.41 W	32.75551307 N	103.39973422 W	89.12@	277.25	0.05

PathFinder – a Schlumberger company

Survey Report

DEVON ENERGY PRODUCTION COMPANY, LP
DUNKEL 7 STATE #001H LATERAL
LEA COUNTY, NM
API#: 30-025-41693 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)
7807.00	1.89	237.67	7805.95	104.00	14.27	9.42 N	91.40 W	32.75550810 N	103.39974401 W	91.89@	275.88	0.10
7888.00	1.49	232.97	7886.91	81.00	13.03	8.07 N	93.37 W	32.75550444 N	103.39975045 W	93.72@	274.94	0.52
7980.00	1.80	233.23	7978.88	92.00	11.56	6.48 N	95.48 W	32.75550013 N	103.39975737 W	95.70@	273.88	0.34
8075.00	2.11	231.43	8073.82	95.00	9.71	4.50 N	98.05 W	32.75549475 N	103.39976576 W	98.15@	272.63	0.33
8184.00	2.20	219.65	8182.74	109.00	7.01	1.64 N	100.95 W	32.75548695 N	103.39977529 W	100.96@	270.93	0.41
8278.00	2.50	209.85	8276.66	94.00	3.96	1.53 S	103.12 W	32.75547830 N	103.39978244 W	103.13@	269.15	0.53
8370.00	2.42	200.36	8368.58	92.00	0.49	5.09 S	104.80 W	32.75546855 N	103.39978799 W	104.92@	267.22	0.45
8451.00	2.02	188.23	8449.52	81.00	-2.48	8.11 S	105.60 W	32.75546028 N	103.39979068 W	105.91@	265.61	0.76
** TIED INTO EXTREME ENGINEERING GYRO SURVEY AT 8554' MD.												
8544.00	2.42	182.34	8542.45	93.00	-6.04	11.69 S	105.91 W	32.75545044 N	103.39979180 W	106.55@	263.70	0.49
THE FOLLOWING ARE PATHFINDER MWD SURVEYS.												
8571.00	2.37	180.22	8569.43	27.00	-7.16	12.82 S	105.94 W	32.75544734 N	103.39979192 W	106.71@	263.10	0.38
8665.00	9.23	250.98	8662.96	94.00	-11.19	17.23 S	113.08 W	32.75543540 N	103.39981529 W	114.39@	261.34	9.30
8695.00	11.78	251.59	8692.45	30.00	-12.66	18.98 S	118.27 W	32.75543071 N	103.39983220 W	119.78@	260.88	8.51
8727.00	14.86	255.94	8723.59	32.00	-14.31	21.01 S	125.35 W	32.75542530 N	103.39985529 W	127.09@	260.49	10.12
8758.00	16.00	261.18	8753.47	31.00	-15.50	22.63 S	133.43 W	32.75542104 N	103.39988161 W	135.33@	260.37	5.81
8789.00	17.59	269.17	8783.15	31.00	-15.75	23.35 S	142.33 W	32.75541927 N	103.39991060 W	144.24@	260.68	9.03
8821.00	20.31	277.80	8813.42	32.00	-14.51	22.67 S	152.67 W	32.75542140 N	103.39994421 W	154.35@	261.56	12.18
8852.00	22.86	284.49	8842.25	31.00	-11.68	20.43 S	163.84 W	32.75542782 N	103.39998046 W	165.11@	262.89	11.42
8883.00	24.45	291.19	8870.65	31.00	-7.23	16.60 S	175.65 W	32.75543863 N	103.40001877 W	176.43@	264.60	10.07
8915.00	25.24	299.32	8899.70	32.00	-0.86	10.87 S	187.78 W	32.75545468 N	103.40005805 W	188.09@	266.69	10.95
8946.00	25.59	308.69	8927.71	31.00	7.14	3.44 S	198.77 W	32.75547536 N	103.40009359 W	198.80@	269.01	13.01
8978.00	25.85	316.27	8956.55	32.00	17.03	5.92 N	208.99 W	32.75550134 N	103.40012656 W	209.07@	271.62	10.31
9010.00	26.64	326.26	8985.26	32.00	28.50	16.93 N	217.80 W	32.75553182 N	103.40015491 W	218.46@	274.45	14.01
9040.00	27.79	334.34	9011.95	30.00	40.74	28.84 N	224.57 W	32.75556469 N	103.40017657 W	226.41@	277.32	12.89
9071.00	29.28	341.88	9039.19	31.00	54.74	42.56 N	230.06 W	32.75560254 N	103.40019403 W	233.96@	280.48	12.57
9102.00	31.39	346.67	9065.95	31.00	70.01	57.62 N	234.28 W	32.75564404 N	103.40020733 W	241.26@	283.82	10.35

PathFinder – a Schlumberger company

Survey Report

DEVON ENERGY PRODUCTION COMPANY, LP
DUNKEL 7 STATE #001H LATERAL
LEA COUNTY, NM
API#: 30-025-41693 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)
9134.00	34.29	347.70	9092.83	32.00	87.11	74.54 N	238.12 W	32.75569064 N	103.40021934 W	249.52@	287.38	9.23
9165.00	37.72	348.17	9117.91	31.00	105.10	92.36 N	241.93 W	32.75573970 N	103.40023121 W	258.96@	290.90	11.10
9197.00	41.86	348.11	9142.49	32.00	125.34	112.40 N	246.13 W	32.75579487 N	103.40024432 W	270.58@	294.54	12.94
9228.00	45.81	348.03	9164.85	31.00	146.55	133.40 N	250.57 W	32.75585270 N	103.40025815 W	283.87@	298.03	12.74
9260.00	49.77	348.36	9186.34	32.00	169.97	156.60 N	255.42 W	32.75591657 N	103.40027325 W	299.60@	301.51	12.40
9291.00	53.99	351.35	9205.48	31.00	194.16	180.60 N	259.69 W	32.75598263 N	103.40028647 W	316.32@	304.82	15.58
9322.00	56.81	355.13	9223.08	31.00	219.61	205.93 N	262.68 W	32.75605232 N	103.40029546 W	333.78@	308.09	13.54
9354.00	60.06	358.03	9239.83	32.00	246.87	233.14 N	264.30 W	32.75612714 N	103.40029993 W	352.43@	311.42	12.76
9385.00	64.54	0.66	9254.24	31.00	274.28	260.58 N	264.60 W	32.75620255 N	103.40030012 W	371.36@	314.56	16.28
9417.00	69.03	2.42	9266.86	32.00	303.59	289.96 N	263.80 W	32.75628330 N	103.40029669 W	392.01@	317.71	14.91
9448.00	73.42	4.53	9276.83	31.00	332.74	319.25 N	262.01 W	32.75636375 N	103.40029004 W	413.00@	320.62	15.56
9480.00	78.35	6.29	9284.63	32.00	363.42	350.13 N	259.08 W	32.75644856 N	103.40027962 W	435.57@	323.50	16.30
9512.00	83.19	7.17	9289.76	32.00	394.54	381.49 N	255.38 W	32.75653465 N	103.40026668 W	459.08@	326.20	15.37
9581.00	90.84	5.54	9293.35	69.00	462.47	449.92 N	247.76 W	32.75672253 N	103.40023995 W	513.63@	331.16	11.33
9675.00	94.00	4.50	9289.39	94.00	555.44	543.47 N	239.55 W	32.75697942 N	103.40021054 W	593.92@	336.21	3.54
9769.00	92.95	3.21	9283.69	94.00	648.59	637.08 N	233.24 W	32.75723654 N	103.40018734 W	678.43@	339.89	1.77
9863.00	92.15	1.60	9279.51	94.00	742.06	730.90 N	229.30 W	32.75749429 N	103.40017183 W	766.02@	342.58	1.91
9957.00	90.92	359.05	9276.99	94.00	835.86	824.85 N	228.77 W	32.75775249 N	103.40016741 W	855.99@	344.50	3.01
10051.00	91.63	359.12	9274.90	94.00	929.77	918.82 N	230.27 W	32.75801077 N	103.40016960 W	947.23@	345.93	0.76
10145.00	90.92	0.70	9272.80	94.00	1023.62	1012.79 N	230.41 W	32.75826904 N	103.40016738 W	1038.67@	347.18	1.84
10239.00	91.71	1.28	9270.65	94.00	1117.36	1106.75 N	228.79 W	32.75852723 N	103.40015941 W	1130.15@	348.32	1.04
10333.00	90.92	359.75	9268.49	94.00	1211.15	1200.72 N	227.95 W	32.75878547 N	103.40015397 W	1222.16@	349.25	1.83
10427.00	91.54	359.75	9266.47	94.00	1305.01	1294.70 N	228.36 W	32.75904376 N	103.40015261 W	1314.68@	350.00	0.66
10521.00	91.71	359.84	9263.81	94.00	1398.86	1388.66 N	228.69 W	32.75930200 N	103.40015101 W	1407.36@	350.65	0.20
10615.00	91.71	359.73	9261.00	94.00	1492.70	1482.61 N	229.05 W	32.75956023 N	103.40014946 W	1500.20@	351.22	0.12
10709.00	91.98	359.83	9257.97	94.00	1586.54	1576.57 N	229.41 W	32.75981845 N	103.40014794 W	1593.17@	351.72	0.31
10803.00	91.80	359.85	9254.87	94.00	1680.37	1670.51 N	229.67 W	32.76007665 N	103.40014610 W	1686.23@	352.17	0.19

PathFinder – a Schlumberger company

Survey Report

DEVON ENERGY PRODUCTION COMPANY, LP
DUNKEL 7 STATE #001H LATERAL
LEA COUNTY, NM
API#: 30-025-41693 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)
10897.00	92.15	0.12	9251.64	94.00	1774.18	1764.46 N	229.69 W	32.76033484 N	103.40014349 W	1779.34@	352.58	0.47
10991.00	91.98	0.36	9248.25	94.00	1867.96	1858.40 N	229.30 W	32.76059300 N	103.40013951 W	1872.49@	352.97	0.31
11085.00	89.87	359.70	9246.73	94.00	1961.81	1952.38 N	229.25 W	32.76085129 N	103.40013666 W	1965.79@	353.30	2.35
11179.00	89.69	359.52	9247.09	94.00	2055.71	2046.37 N	229.89 W	32.76110964 N	103.40013605 W	2059.25@	353.59	0.27
11273.00	90.40	359.92	9247.02	94.00	2149.60	2140.37 N	230.35 W	32.76136798 N	103.40013485 W	2152.73@	353.86	0.87
11367.00	91.36	359.81	9245.57	94.00	2243.46	2234.36 N	230.57 W	32.76162630 N	103.40013287 W	2246.23@	354.11	1.03
11459.00	91.45	359.96	9243.32	92.00	2335.31	2326.33 N	230.76 W	32.76187907 N	103.40013083 W	2337.75@	354.34	0.19
11553.00	92.07	359.17	9240.43	94.00	2429.17	2420.28 N	231.47 W	32.76213729 N	103.40013046 W	2431.33@	354.54	1.07
11647.00	91.89	358.73	9237.18	94.00	2523.06	2514.21 N	233.19 W	32.76239548 N	103.40013337 W	2525.00@	354.70	0.50
11741.00	91.71	358.73	9234.23	94.00	2616.97	2608.14 N	235.27 W	32.76265368 N	103.40013745 W	2618.73@	354.85	0.19
11835.00	90.48	358.29	9232.43	94.00	2710.91	2702.09 N	237.72 W	32.76291193 N	103.40014270 W	2712.53@	354.97	1.39
11929.00	91.36	358.55	9230.93	94.00	2804.87	2796.04 N	240.31 W	32.76317021 N	103.40014844 W	2806.35@	355.09	0.98
12023.00	92.59	358.82	9227.69	94.00	2898.77	2889.96 N	242.46 W	32.76342837 N	103.40015276 W	2900.11@	355.20	1.34
12117.00	93.21	358.91	9222.93	94.00	2992.59	2983.82 N	244.32 W	32.76368637 N	103.40015612 W	2993.81@	355.32	0.67
12211.00	93.83	358.82	9217.16	94.00	3086.36	3077.62 N	246.18 W	32.76394422 N	103.40015947 W	3087.46@	355.43	0.67
12305.00	93.65	359.17	9211.03	94.00	3180.10	3171.41 N	247.83 W	32.76420201 N	103.40016213 W	3181.08@	355.53	0.42
12399.00	94.26	359.79	9204.54	94.00	3273.79	3265.18 N	248.68 W	32.76445974 N	103.40016221 W	3274.64@	355.64	0.92
12492.00	95.23	359.87	9196.85	93.00	3366.35	3357.86 N	248.95 W	32.76471446 N	103.40016045 W	3367.08@	355.76	1.05
12586.00	95.23	359.61	9188.28	94.00	3459.85	3451.47 N	249.38 W	32.76497174 N	103.40015915 W	3460.47@	355.87	0.28
12679.00	95.50	359.70	9179.59	93.00	3552.34	3544.06 N	249.94 W	32.76522622 N	103.40015831 W	3552.86@	355.97	0.31
12772.00	94.26	359.79	9171.68	93.00	3644.89	3636.72 N	250.35 W	32.76548088 N	103.40015699 W	3645.33@	356.06	1.34
12865.00	94.09	0.05	9164.90	93.00	3737.52	3729.47 N	250.48 W	32.76573580 N	103.40015475 W	3737.87@	356.16	0.33
12958.00	94.35	0.05	9158.06	93.00	3830.13	3822.22 N	250.40 W	32.76599070 N	103.40015183 W	3830.41@	356.25	0.28
13051.00	94.00	359.96	9151.29	93.00	3922.75	3914.97 N	250.39 W	32.76624561 N	103.40014914 W	3922.97@	356.34	0.39
13145.00	93.56	0.14	9145.09	94.00	4016.41	4008.77 N	250.31 W	32.76650339 N	103.40014619 W	4016.58@	356.43	0.51
13238.00	93.21	0.49	9139.60	93.00	4109.09	4101.60 N	249.80 W	32.76675852 N	103.40014187 W	4109.20@	356.51	0.53
13330.00	93.03	0.93	9134.59	92.00	4200.75	4193.46 N	248.66 W	32.76701094 N	103.40013553 W	4200.83@	356.61	0.52

PathFinder – a Schlumberger company

Survey Report

DEVON ENERGY PRODUCTION COMPANY, LP
DUNKEL 7 STATE #001H LATERAL
LEA COUNTY, NM
API#: 30-025-41693 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)
13423.00	92.95	0.66	9129.74	93.00	4293.42	4286.32 N	247.37 W	32.76726613 N	103.40012867 W	4293.46@	356.70	0.30
13516.00	92.24	0.75	9125.53	93.00	4386.12	4379.22 N	246.23 W	32.76752141 N	103.40012229 W	4386.14@	356.78	0.77
13575.00	92.15	1.28	9123.27	59.00	4444.93	4438.17 N	245.18 W	32.76768339 N	103.40011720 W	4444.94@	356.84	0.91
STRAIGHT LINE PROJECTION TO BIT DEPTH AT 13639'MD.												
13639.00	92.05	1.50	9120.93	64.00	4508.69	4502.11 N	243.63 W	32.76785907 N	103.40011032 W	4508.69@	356.90	0.38

** 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.



DUNKEL 7 STATE 1H

WEST UNRESTRICTED

Directional Survey

District DELAWARE BASIN	County LEA	Field Name WEIHEN	Project Group DELAWARE BASIN REG			State/Province NM	
Surface Legal Location SEC7 T18S R36E	API/UWI 3002541693	Latitude (°) 32° 45' 19.727" N	Longitude (°) 103° 23' 58.01" W	Ground Elev... 3,866.50	KB - GL (ft) 26.50	Orig KB Elev (ft) 3,893.00	Tubing Head Elevation (ft)

Wellbores

Wellbore Name OH	Parent Wellbore	SAP Well ID	Kick Off Depth (ftKB)	Vertical Section Direction (°)
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)	EWtie 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) 8,602.0		Vertical Section Direction (°) 359.00	
Actual Deviation Survey MWD, Proposed? No				Definitive? No		Proposed? No		Proposed Deviation Survey		

Deviation Survey

Date 9/10/2014		Description MWD				
MD Tie In (ftKB) 8,544.00	TVD Tie In (ftKB) 8,542.45	Inclination Tie In (°) 2.42	Azimuth Tie In (°) 182.34	NSTie In (ft) -11.69	EWtie In (ft) -105.91	

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	Survey Tool	Survey Company
9/10/2014	8,544.00	2.42	182.34	8,542.45	-9.84	-11.69	-105.91	0.00	MWD	PATHFINDER ENERGY SE...
9/10/2014	8,571.00	2.37	180.22	8,569.43	-10.97	-12.82	-105.94	0.38	MWD	PATHFINDER ENERGY SE...
9/11/2014	8,665.00	9.23	250.98	8,662.96	-15.25	-17.23	-113.08	9.30	MWD	PATHFINDER ENERGY SE...
9/11/2014	8,695.00	11.78	251.59	8,692.45	-16.91	-18.98	-118.26	8.51	MWD	PATHFINDER ENERGY SE...
9/12/2014	8,727.00	14.86	255.94	8,723.59	-18.82	-21.01	-125.35	10.12	MWD	PATHFINDER ENERGY SE...
9/12/2014	8,758.00	16.00	261.18	8,753.47	-20.30	-22.63	-133.43	5.81	MWD	PATHFINDER ENERGY SE...
9/12/2014	8,789.00	17.59	269.17	8,783.15	-20.86	-23.35	-142.33	9.03	MWD	PATHFINDER ENERGY SE...
9/12/2014	8,821.00	20.31	277.80	8,813.42	-20.00	-22.67	-152.67	12.18	MWD	PATHFINDER ENERGY SE...
9/12/2014	8,852.00	22.86	284.49	8,842.25	-17.57	-20.43	-163.84	11.42	MWD	PATHFINDER ENERGY SE...
9/12/2014	8,883.00	24.45	291.19	8,870.65	-13.54	-16.60	-175.65	10.07	MWD	PATHFINDER ENERGY SE...
9/12/2014	8,915.00	25.24	299.32	8,899.70	-7.59	-10.87	-187.78	10.95	MWD	PATHFINDER ENERGY SE...
9/12/2014	8,946.00	25.59	308.69	8,927.71	0.03	-3.44	-198.77	13.01	MWD	PATHFINDER ENERGY SE...
9/12/2014	8,978.00	25.85	316.27	8,956.55	9.57	5.92	-208.99	10.31	MWD	PATHFINDER ENERGY SE...
9/12/2014	9,010.00	26.64	326.26	8,985.26	20.73	16.93	-217.80	14.01	MWD	PATHFINDER ENERGY SE...
9/12/2014	9,040.00	27.29	334.34	9,012.01	32.64	28.73	-224.52	12.39	MWD	PATHFINDER ENERGY SE...
9/12/2014	9,071.00	29.28	341.88	9,039.32	46.35	42.35	-229.96	13.18	MWD	PATHFINDER ENERGY SE...
9/12/2014	9,102.00	31.39	346.67	9,066.07	61.49	57.41	-234.18	10.35	MWD	PATHFINDER ENERGY SE...
9/12/2014	9,134.00	34.29	347.70	9,092.96	78.47	74.33	-238.02	9.23	MWD	PATHFINDER ENERGY SE...
9/12/2014	9,165.00	37.72	348.17	9,118.03	96.36	92.15	-241.82	11.10	MWD	PATHFINDER ENERGY SE...
9/12/2014	9,197.00	41.86	348.11	9,142.61	116.46	112.19	-246.03	12.94	MWD	PATHFINDER ENERGY SE...
9/12/2014	9,228.00	45.81	348.03	9,164.97	137.54	133.19	-250.47	12.74	MWD	PATHFINDER ENERGY SE...
9/15/2014	9,260.00	49.77	348.36	9,186.47	160.82	156.39	-255.32	12.40	MWD	PATHFINDER ENERGY SE...
9/15/2014	9,291.00	53.99	351.35	9,205.60	184.89	180.39	-259.59	15.58	MWD	PATHFINDER ENERGY SE...
9/15/2014	9,322.00	56.81	355.13	9,223.21	210.27	205.72	-262.58	13.54	MWD	PATHFINDER ENERGY SE...
9/15/2014	9,354.00	60.06	358.03	9,239.96	237.50	232.93	-264.19	12.76	MWD	PATHFINDER ENERGY SE...
9/15/2014	9,385.00	64.54	0.66	9,254.37	264.94	260.36	-264.50	16.29	MWD	PATHFINDER ENERGY SE...
9/15/2014	9,417.00	69.03	2.42	9,266.98	294.31	289.75	-263.70	14.91	MWD	PATHFINDER ENERGY SE...
9/15/2014	9,448.00	73.42	4.53	9,276.95	323.56	319.04	-261.91	15.56	MWD	PATHFINDER ENERGY SE...
9/15/2014	9,480.00	78.35	6.29	9,284.76	354.39	349.92	-258.98	16.30	MWD	PATHFINDER ENERGY SE...
9/15/2014	9,512.00	83.19	7.17	9,289.89	385.68	381.28	-255.28	15.37	MWD	PATHFINDER ENERGY SE...
9/18/2014	9,581.00	90.84	5.54	9,293.48	453.96	449.71	-247.66	11.33	MWD	PATHFINDER ENERGY SE...
9/18/2014	9,675.00	94.00	4.50	9,289.51	547.35	543.25	-239.44	3.54	MWD	PATHFINDER ENERGY SE...
9/18/2014	9,769.00	92.95	3.21	9,283.81	640.84	636.87	-233.14	1.77	MWD	PATHFINDER ENERGY SE...
9/18/2014	9,863.00	92.15	1.60	9,279.63	734.57	730.69	-229.20	1.91	MWD	PATHFINDER ENERGY SE...
9/18/2014	9,957.00	90.92	359.05	9,277.11	828.51	824.64	-228.66	3.01	MWD	PATHFINDER ENERGY SE...
9/18/2014	10,051.00	91.63	356.38	9,275.02	922.45	918.53	-232.41	2.94	MWD	PATHFINDER ENERGY SE...



DUNKEL 7 STATE 1H

WEST UNRESTRICTED

Directional Survey

District DELAWARE BASIN	County LEA	Field Name WEIHEN	Project Group DELAWARE BASIN REG	State/Province NM			
Surface Legal Location SEC7 T18S R36E	API/UWI 3002541693	Latitude (°) 32° 45' 19.727" N	Longitude (°) 103° 23' 58.01" W	Ground Elev... 3,866.50	KB - GL (ft) 26.50	Orig KB Elev (ft) 3,893.00	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
9/19/2014	10,145.00	90.92	0.70	9,272.93	1,016.40	1,012.46	-234.80	4.66	MWD	PATHFINDER ENERGY SE...
9/19/2014	10,239.00	91.71	1.28	9,270.77	1,110.32	1,106.42	-233.18	1.04	MWD	PATHFINDER ENERGY SE...
9/19/2014	10,333.00	90.92	359.75	9,268.61	1,204.26	1,200.38	-232.34	1.83	MWD	PATHFINDER ENERGY SE...
9/19/2014	10,427.00	91.54	359.75	9,266.59	1,298.23	1,294.36	-232.75	0.66	MWD	PATHFINDER ENERGY SE...
9/19/2014	10,521.00	91.71	359.84	9,263.93	1,392.18	1,388.32	-233.08	0.20	MWD	PATHFINDER ENERGY SE...
9/19/2014	10,615.00	91.71	359.73	9,261.12	1,486.13	1,482.28	-233.43	0.12	MWD	PATHFINDER ENERGY SE...
9/19/2014	10,709.00	91.98	359.83	9,258.10	1,580.07	1,576.23	-233.80	0.31	MWD	PATHFINDER ENERGY SE...
9/19/2014	10,803.00	91.80	359.85	9,255.00	1,674.01	1,670.18	-234.06	0.19	MWD	PATHFINDER ENERGY SE...
9/19/2014	10,897.00	92.15	0.12	9,251.76	1,767.94	1,764.12	-234.08	0.47	MWD	PATHFINDER ENERGY SE...
9/19/2014	10,991.00	91.98	0.36	9,248.37	1,861.86	1,858.06	-233.69	0.31	MWD	PATHFINDER ENERGY SE...
9/20/2014	11,085.00	89.87	359.70	9,246.85	1,955.82	1,952.04	-233.64	2.35	MWD	PATHFINDER ENERGY SE...
9/20/2014	11,179.00	89.69	359.52	9,247.21	2,049.82	2,046.04	-234.28	0.27	MWD	PATHFINDER ENERGY SE...
9/20/2014	11,273.00	90.40	359.92	9,247.14	2,143.81	2,140.04	-234.74	0.87	MWD	PATHFINDER ENERGY SE...
9/20/2014	11,367.00	91.36	359.81	9,245.70	2,237.79	2,234.03	-234.96	1.03	MWD	PATHFINDER ENERGY SE...
9/22/2014	11,459.00	91.45	359.96	9,243.44	2,329.75	2,326.00	-235.15	0.19	MWD	PATHFINDER ENERGY SE...
9/22/2014	11,553.00	92.07	359.17	9,240.55	2,423.70	2,419.95	-235.86	1.07	MWD	PATHFINDER ENERGY SE...
9/23/2014	11,647.00	91.89	358.73	9,237.31	2,517.64	2,513.88	-237.58	0.51	MWD	PATHFINDER ENERGY SE...
9/23/2014	11,741.00	91.71	358.73	9,234.35	2,611.59	2,607.81	-239.66	0.19	MWD	PATHFINDER ENERGY SE...
9/23/2014	11,835.00	90.48	358.29	9,232.56	2,705.57	2,701.76	-242.11	1.39	MWD	PATHFINDER ENERGY SE...
9/23/2014	11,929.00	91.36	358.55	9,231.05	2,799.55	2,795.71	-244.70	0.98	MWD	PATHFINDER ENERGY SE...
9/23/2014	12,023.00	92.59	358.82	9,227.81	2,893.49	2,889.63	-246.85	1.34	MWD	PATHFINDER ENERGY SE...
9/23/2014	12,117.00	93.21	358.91	9,223.05	2,987.37	2,983.49	-248.71	0.67	MWD	PATHFINDER ENERGY SE...
9/23/2014	12,211.00	93.83	358.82	9,217.28	3,081.20	3,077.29	-250.57	0.67	MWD	PATHFINDER ENERGY SE...
9/23/2014	12,305.00	93.65	359.17	9,211.15	3,174.99	3,171.08	-252.22	0.42	MWD	PATHFINDER ENERGY SE...
9/24/2014	12,399.00	94.26	359.79	9,204.67	3,268.77	3,264.85	-253.07	0.92	MWD	PATHFINDER ENERGY SE...
9/24/2014	12,492.00	95.23	359.87	9,196.97	3,361.44	3,357.53	-253.34	1.05	MWD	PATHFINDER ENERGY SE...
9/24/2014	12,586.00	95.23	359.61	9,188.40	3,455.04	3,451.13	-253.77	0.28	MWD	PATHFINDER ENERGY SE...
9/24/2014	12,679.00	95.50	359.70	9,179.71	3,547.62	3,543.73	-254.33	0.31	MWD	PATHFINDER ENERGY SE...
9/24/2014	12,772.00	94.26	359.79	9,171.80	3,640.28	3,636.39	-254.74	1.34	MWD	PATHFINDER ENERGY SE...
9/25/2014	12,865.00	94.09	0.05	9,165.03	3,733.02	3,729.14	-254.87	0.33	MWD	PATHFINDER ENERGY SE...
9/25/2014	12,958.00	94.35	0.05	9,158.18	3,825.75	3,821.89	-254.79	0.28	MWD	PATHFINDER ENERGY SE...
9/25/2014	13,051.00	94.00	359.96	9,151.41	3,918.49	3,914.64	-254.78	0.39	MWD	PATHFINDER ENERGY SE...
9/25/2014	13,145.00	93.56	0.14	9,145.22	4,012.27	4,008.43	-254.70	0.51	MWD	PATHFINDER ENERGY SE...
9/25/2014	13,238.00	93.21	0.49	9,139.72	4,105.08	4,101.27	-254.19	0.53	MWD	PATHFINDER ENERGY SE...
9/25/2014	13,330.00	93.03	0.93	9,134.72	4,196.90	4,193.13	-253.05	0.52	MWD	PATHFINDER ENERGY SE...
9/25/2014	13,423.00	92.95	0.66	9,129.87	4,289.73	4,285.99	-251.76	0.30	MWD	PATHFINDER ENERGY SE...
9/26/2014	13,516.00	92.24	0.75	9,125.66	4,382.60	4,378.89	-250.62	0.77	MWD	PATHFINDER ENERGY SE...
9/26/2014	13,575.00	92.15	1.28	9,123.40	4,441.52	4,437.84	-249.57	0.91	MWD	PATHFINDER ENERGY SE...
9/26/2014	13,639.00	92.05	1.50	9,121.05	4,505.42	4,501.77	-248.02	0.38	BIT	PATHFINDER ENERGY SE...