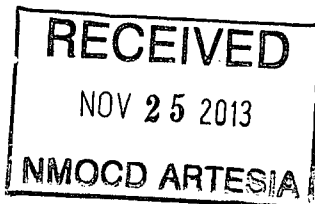


PATHFINDER

A Schlumberger Company

DIRECTIONAL SURVEY REPORT



30-015-40334

DEVON ENERGY PRODUCTION CO., L.P.

BELLATRIX 28 FEDERAL COM 4H

EDDY COUNTY, NEW MEXICO

PREPARED BY: KIRK DAVIS

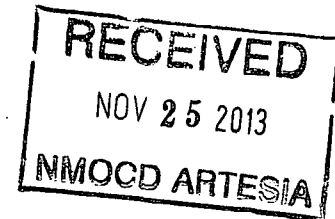
Pathfinder

6213 WCR 112
Midland, Texas 79706-3725
Tel. (432) 687-1647
Fax (432) 687-1544

PATHFINDER
A Schlumberger Company

July 15, 2013

Devon Energy
20 N. Broadway
Oklahoma City, OK



RE: DEVON ENERGY PRODUCTION CO., L.P.
BELLATRIX 28 FEDERAL COM 4H
EDDY COUNTY, NEW MEXICO
API No: 30-015-40334
Rig: H&P 300
PES File No.: 13MLD0326

Dear Sir or Madam:

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.

In accordance with the **Railroad Commission of Texas "Title 16, Part 1, Chapter 3, Rule 3.12"**, we are forwarding a certified original survey report to the Texas Railroad Commission in Austin, Texas.

DIRECTIONAL SURVEY DATA

- 1 – Original survey report
- 1 – 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.

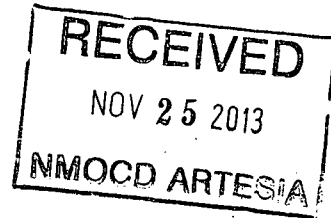
Sincerely,

A handwritten signature in black ink, appearing to be "K. Davis", written over a horizontal line.

KIRK DAVIS
M/LWD Field Service Manager
Schlumberger Technology Corp.

Pathfinder

6213 WCR 112
Midland, Texas 79706-3725
Tel. (432) 687-1647
Fax (432) 687-1544



**STATE OF TEXAS
MIDLAND COUNTY**

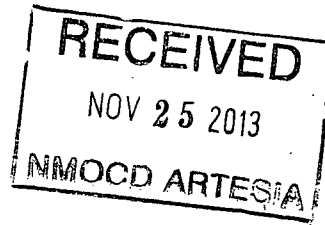
I, **ZACH LOFTIES** certify that; I am employed by PathFinder, a Schlumberger company.; that I did on the day(s) of **6/22/13** through **7/4/13** conduct or supervise the taking of a **Measurement While Drilling** survey from a depth of **8477 feet** to a depth of **14280 feet**; that the data is true, 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 **BELLATRIX 28 FEDERAL COM 4H** Well API No. **30-015-40334** in **EDDY 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.

A handwritten signature in black ink, appearing to read "Zach Lofties", is written above a horizontal line.

ZACH LOFTIES
Field Engineer

Pathfinder

6213 WCR 112
Midland, Texas 79706-3725
Tel. (432) 687-1647
Fax (432) 687-1544

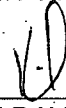


DIRECTIONAL SURVEY COMPANY REPORT:

1. NAME OF SURVEYING COMPANY: SCHLUMBERGER TECHNOLOGY CORP.
2. NAME OF PERSON(S) PERFORMING SURVEY:
A) ZACH LOFTIES
B) PHILIP THEKKEKARA
3. POSITION OF SAID PERSON(S): (A) SURVEYORS (FIELD ENGINEER)
4. DATE(S) ON WHICH SURVEY WAS PERFORMED: 6/22/13 TO 7/4/13
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 PRODUCTION CO., L.P.
BELLATRIX 28 FEDERAL COM 4H
EDDY COUNTY, NEW MEXICO
API NO.: 30-015-40334
RIG: H&P 300
9. SURVEY CERTIFIED FROM: 8477 TO 14280 FEET MEASURED DEPTH.

THIS IS TO VERIFY THAT ATTACHED DOCUMENTS SHOWING THE WELL TO BE
DISPLACED AT 5166.48 FEET ON A BEARING OF 96.47 DEGREES FROM THE
CENTER OF THE ROTARY TABLE AT A PROJECTED DEPTH OF 14354.00 FEET,
ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.



KIRK DAVIS
M/LWD Field Service Manager

PathFinder – a Schlumberger company

BHL Report

Page 01/01
Tie-in Date: 06/21/2013
Date Completed: 07/04/2013

DEVON ENERGY PRODUCTION COMPANY, LP
BELLATRIX 28 FEDERAL COM 4H
EDDY COUNTY, NM
API#: 30-015-40334 Rig: H&P 300
PathFinder Office Supervisor: JOSEPH HOGAN
PathFinder Field Engineers: ZACH LOFTIES
 PHILIP THEKKEKARA

Survey Horiz. Reference: WELLHEAD
Ref Coordinates: LAT: 32.37.41.8564 N LON: 103.53.0.3529 W
GRID Reference: NAD83 new mexico east Transverse Mercator
Ref GRID Coord: X: 679842.9400 Y: 592597.2000
North Aligned To: GRID NORTH
Total Magnetic Correction: 7.27° EAST TO GRID
Vertical Section Plane: 96.42
Survey Vert. Reference: 26.00' Kelly Bushing To Ground
Altitude: 3482.30' Ground To MSL

Measured Depth	14354.00	(feet)
Inclination	88.99	(deg)
Azimuth	89.18	(deg)
True Vertical Depth	9095.34	(feet)
Vertical Section	5166.47	(feet)
Survey X cord	684976.53	(feet)
Survey Y cord	592015.19	(feet)
Survey Lat	32.62663285 N	(deg)
Survey Lon	103.86676490 W	(deg)
Rectangular Corr. N/S	582.01 S	(feet)
Rectangular Corr. E/W	5133.59 E	(feet)
Closure Distance	5166.48	(feet)
Direction of Closure	96.47	(deg)
Dogleg Severity	0.00	(deg/100ft)

PathFinder – a Schlumberger company

Survey Report

Page 01/07
Tie-in Date: 06/21/2013
Date Completed: 07/04/2013

DEVON ENERGY PRODUCTION COMPANY, LP
BELLATRIX 28 FEDERAL COM 4H
EDDY COUNTY, NM
API#: 30-015-40334 Rig: H&P 300
PathFinder Office Supervisor: JOSEPH HOGAN
PathFinder Field Engineers: ZACH LOFTIES
PHILIP THEKKEKARA

Survey Horiz. Reference: WELLHEAD
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North Aligned To: GRID NORTH
Total Magnetic Correction: 7.27° EAST TO GRID
Vertical Section Plane: 96.42
Survey Vert. Reference: 26.00' Kelly Bushing To Ground
Altitude: 3482.30' Ground To MSL

Survey Calculations by RX5 V6.04D 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)
THE FOLLOWING ARE VAUGHN ENERGY SERVICES GYRO SURVEYS.										
100.00	0.48	312.88	100.00	0.00	-0.33	0.27 N	0.30 W	0.40@	311.38	0.00
200.00	0.80	257.83	199.99	100.00	-1.33	0.40 N	1.29 W	1.35@	287.39	0.66
300.00	1.87	244.01	299.96	100.00	-3.37	0.46 S	3.44 W	3.47@	262.43	1.11
400.00	2.82	253.55	399.88	100.00	-7.01	1.87 S	7.27 W	7.50@	255.58	1.02
500.00	4.03	248.91	499.70	100.00	-12.40	3.83 S	12.91 W	13.46@	253.47	1.24
600.00	4.49	249.52	599.42	100.00	-19.00	6.46 S	19.85 W	20.88@	251.96	0.46
700.00	3.87	244.99	699.15	100.00	-25.37	9.26 S	26.58 W	28.14@	250.79	0.70
800.00	3.18	256.28	798.97	100.00	-30.86	11.35 S	32.33 W	34.26@	250.66	0.98
900.00	2.82	250.33	898.83	100.00	-35.67	12.83 S	37.34 W	39.48@	251.04	0.48
1000.00	2.30	254.37	998.73	100.00	-39.74	14.20 S	41.59 W	43.95@	251.15	0.55
1100.00	1.94	254.13	1098.66	100.00	-43.17	15.20 S	45.15 W	47.64@	251.39	0.36
1200.00	1.24	266.33	1198.62	100.00	-45.80	15.74 S	47.86 W	50.38@	251.80	0.77
1300.00	0.98	268.25	1298.60	100.00	-47.71	15.83 S	49.79 W	52.25@	252.36	0.26
1400.00	0.58	261.24	1398.59	100.00	-49.04	15.93 S	51.15 W	53.57@	252.70	0.41
1500.00	0.54	292.28	1498.59	100.00	-49.99	15.83 S	52.08 W	54.44@	253.09	0.30
1600.00	0.70	34.48	1598.59	100.00	-50.15	15.15 S	52.17 W	54.33@	253.81	0.97
1700.00	1.25	66.51	1698.57	100.00	-48.92	14.21 S	50.83 W	52.78@	254.38	0.75
1800.00	1.53	60.84	1798.54	100.00	-46.89	13.13 S	48.66 W	50.40@	254.90	0.31
1900.00	2.20	72.58	1898.49	100.00	-44.05	11.90 S	45.66 W	47.19@	255.39	0.77
2000.00	2.03	74.79	1998.42	100.00	-40.64	10.86 S	42.12 W	43.50@	255.54	0.19
2100.00	1.51	81.20	2098.37	100.00	-37.73	10.20 S	39.11 W	40.42@	255.39	0.56
2200.00	1.23	93.32	2198.34	100.00	-35.38	10.06 S	36.74 W	38.09@	254.69	0.40
2300.00	0.79	79.45	2298.33	100.00	-33.65	9.99 S	34.99 W	36.39@	254.06	0.50
2400.00	0.65	63.05	2398.32	100.00	-32.52	9.61 S	33.81 W	35.14@	254.13	0.25
2500.00	0.45	69.83	2498.32	100.00	-31.69	9.22 S	32.93 W	34.20@	254.36	0.21

PathFinder – a Schlumberger company

Survey Report

DEVON ENERGY PRODUCTION COMPANY, LP
 BELLATRIX 28 FEDERAL COM 4H
 EDDY COUNTY, NM
 API#: 30-015-40334 Rig: H&P 300

Page 02/07

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)
2600.00	0.36	78.93	2598.31	100.00	-31.04	9.02 S	32.25 W	33.49@	254.37	0.11
2700.00	0.49	73.85	2698.31	100.00	-30.35	8.84 S	31.54 W	32.75@	254.34	0.13
2800.00	0.20	100.58	2798.31	100.00	-29.78	8.75 S	30.95 W	32.17@	254.21	0.32
2900.00	0.12	177.63	2898.31	100.00	-29.59	8.89 S	30.78 W	32.04@	253.89	0.21
3000.00	0.95	243.63	2998.30	100.00	-30.27	9.36 S	31.52 W	32.88@	253.45	0.91
3100.00	1.12	248.36	3098.29	100.00	-31.83	10.09 S	33.17 W	34.67@	253.07	0.19
3200.00	1.14	255.37	3198.27	100.00	-33.62	10.70 S	35.04 W	36.64@	253.01	0.14
3300.00	0.87	252.56	3298.25	100.00	-35.24	11.18 S	36.72 W	38.39@	253.06	0.27
3400.00	0.75	271.28	3398.24	100.00	-36.59	11.40 S	38.10 W	39.77@	253.35	0.29
3500.00	0.78	264.24	3498.23	100.00	-37.91	11.45 S	39.43 W	41.06@	253.81	0.10
3600.00	0.74	273.22	3598.22	100.00	-39.22	11.48 S	40.76 W	42.34@	254.27	0.13
3700.00	0.77	280.89	3698.22	100.00	-40.53	11.32 S	42.06 W	43.56@	254.94	0.10
3800.00	0.77	265.52	3798.21	100.00	-41.86	11.24 S	43.39 W	44.82@	255.47	0.21
3900.00	0.69	271.14	3898.20	100.00	-43.12	11.28 S	44.66 W	46.07@	255.82	0.11
4000.00	0.63	252.10	3998.19	100.00	-44.22	11.44 S	45.79 W	47.20@	255.97	0.23
4100.00	0.93	242.82	4098.18	100.00	-45.40	11.98 S	47.03 W	48.54@	255.71	0.32
4200.00	0.90	260.32	4198.17	100.00	-46.83	12.48 S	48.53 W	50.11@	255.57	0.28
4300.00	0.98	257.12	4298.16	100.00	-48.39	12.81 S	50.14 W	51.75@	255.67	0.10
4400.00	1.37	272.93	4398.14	100.00	-50.39	12.94 S	52.16 W	53.74@	256.07	0.50
4500.00	1.08	276.91	4498.11	100.00	-52.53	12.76 S	54.29 W	55.77@	256.77	0.30
4600.00	0.91	272.07	4598.10	100.00	-54.26	12.62 S	56.02 W	57.43@	257.31	0.19
4700.00	1.04	283.31	4698.08	100.00	-55.95	12.38 S	57.70 W	59.01@	257.89	0.23
4800.00	0.89	282.62	4798.07	100.00	-57.63	12.00 S	59.34 W	60.54@	258.56	0.15
4900.00	0.74	290.66	4898.06	100.00	-59.02	11.61 S	60.70 W	61.80@	259.18	0.19
5000.00	0.58	281.55	4998.05	100.00	-60.15	11.28 S	61.80 W	62.82@	259.66	0.19
5100.00	0.65	258.83	5098.05	100.00	-61.20	11.29 S	62.86 W	63.86@	259.82	0.25
5200.00	1.28	267.11	5198.03	100.00	-62.84	11.45 S	64.53 W	65.54@	259.94	0.64
5300.00	1.33	265.05	5298.01	100.00	-65.08	11.61 S	66.80 W	67.80@	260.14	0.07

PathFinder – a Schlumberger company

Survey Report

DEVON ENERGY PRODUCTION COMPANY, LP
 BELLATRIX 28 FEDERAL COM 4H
 EDDY COUNTY, NM
 API#: 30-015-40334 Rig: H&P 300

Page 03/07

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)
5400.00	1.37	287.50	5397.98	100.00	-67.39	11.35 S	69.10 W	70.02@	260.67	0.53
5500.00	1.21	292.55	5497.95	100.00	-69.58	10.58 S	71.21 W	71.99@	261.55	0.20
5600.00	1.05	297.62	5597.93	100.00	-71.45	9.75 S	73.00 W	73.65@	262.39	0.19
5700.00	0.92	303.02	5697.92	100.00	-73.02	8.89 S	74.48 W	75.01@	263.19	0.16
5800.00	1.13	307.31	5797.90	100.00	-74.59	7.86 S	75.94 W	76.35@	264.09	0.22
5900.00	0.97	308.18	5897.89	100.00	-76.15	6.74 S	77.39 W	77.68@	265.03	0.16
6000.00	1.12	316.62	5997.87	100.00	-77.62	5.50 S	78.73 W	78.92@	266.00	0.21
6100.00	1.02	309.43	6097.85	100.00	-79.11	4.23 S	80.09 W	80.20@	266.98	0.17
6200.00	0.80	317.98	6197.84	100.00	-80.38	3.14 S	81.24 W	81.30@	267.78	0.26
6300.00	0.97	332.50	6297.83	100.00	-81.37	1.87 S	82.10 W	82.12@	268.69	0.28
6400.00	1.08	326.70	6397.81	100.00	-82.45	0.34 S	83.01 W	83.01@	269.77	0.15
6500.00	1.03	342.29	6497.80	100.00	-83.42	1.31 N	83.80 W	83.81@	270.89	0.29
6600.00	1.16	329.15	6597.78	100.00	-84.40	3.03 N	84.59 W	84.64@	272.05	0.28
6700.00	1.16	337.11	6697.76	100.00	-85.51	4.84 N	85.50 W	85.64@	273.24	0.16
6800.00	0.95	348.51	6797.74	100.00	-86.26	6.58 N	86.06 W	86.31@	274.37	0.30
6900.00	1.18	354.64	6897.72	100.00	-86.72	8.42 N	86.32 W	86.73@	275.57	0.26
7000.00	1.06	356.44	6997.70	100.00	-87.09	10.37 N	86.48 W	87.10@	276.84	0.13
7100.00	1.03	352.64	7097.69	100.00	-87.47	12.18 N	86.65 W	87.50@	278.00	0.08
7200.00	1.23	336.80	7197.67	100.00	-88.21	14.06 N	87.19 W	88.31@	279.16	0.37
7300.00	1.20	309.02	7297.65	100.00	-89.62	15.70 N	88.42 W	89.81@	280.07	0.58
7400.00	0.95	274.14	7397.63	100.00	-91.34	16.42 N	90.06 W	91.55@	280.33	0.69
7500.00	0.22	204.01	7497.62	100.00	-92.22	16.31 N	90.97 W	92.42@	280.16	0.90
7600.00	0.56	226.76	7597.62	100.00	-92.60	15.80 N	91.40 W	92.76@	279.81	0.37
7700.00	0.48	221.56	7697.62	100.00	-93.15	15.15 N	92.04 W	93.28@	279.35	0.09
7800.00	0.90	261.33	7797.61	100.00	-94.15	14.72 N	93.09 W	94.25@	278.98	0.61
7900.00	0.87	301.88	7897.60	100.00	-95.60	15.00 N	94.51 W	95.69@	279.02	0.61
8000.00	1.24	315.88	7997.58	100.00	-97.12	16.18 N	95.91 W	97.26@	279.57	0.45
8100.00	1.54	354.63	8097.56	100.00	-98.23	18.29 N	96.79 W	98.50@	280.70	0.96

PathFinder – a Schlumberger company

Survey Report

DEVON ENERGY PRODUCTION COMPANY, LP
 BELLATRIX 28 FEDERAL COM 4H
 EDDY COUNTY, NM
 API#: 30-015-40334 Rig: H&P 300

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)
8200.00	1.73	12.03	8197.52	100.00	-98.35	21.11 N	96.60 W	98.88@	282.33	0.53
8300.00	1.52	9.91	8297.48	100.00	-98.13	23.89 N	96.06 W	98.98@	283.97	0.22
** TIED INTO VAUGHN ENERGY SERVICES SURVEYS AT 8380'MD.										
8380.00	1.40	341.17	8377.45	80.00	-98.48	25.86 N	96.19 W	99.61@	285.05	0.92
THE FOLLOWING ARE PATHFINDER MWD SURVEYS.										
8477.00	1.49	36.54	8474.42	97.00	-98.35	27.99 N	95.82 W	99.83@	286.29	1.39
8508.00	1.49	74.95	8505.41	31.00	-97.77	28.42 N	95.19 W	99.35@	286.63	3.16
8540.00	3.96	134.54	8537.38	32.00	-96.52	27.76 N	94.00 W	98.01@	286.45	10.79
8571.00	8.00	144.64	8568.21	31.00	-94.24	25.25 N	91.99 W	95.39@	285.35	13.42
8602.00	12.40	145.70	8598.71	31.00	-90.63	20.73 N	88.86 W	91.25@	283.13	14.21
8634.00	16.88	146.84	8629.66	32.00	-85.42	14.00 N	84.39 W	85.54@	279.42	14.03
8665.00	20.05	149.39	8659.06	31.00	-79.35	5.66 N	79.22 W	79.42@	274.09	10.55
8697.00	21.02	151.76	8689.03	32.00	-72.78	4.12 S	73.71 W	73.82@	266.80	3.99
8728.00	23.74	152.82	8717.69	31.00	-66.17	14.57 S	68.23 W	69.76@	257.95	8.87
8760.00	27.26	153.26	8746.57	32.00	-58.59	26.85 S	61.98 W	67.55@	246.58	11.02
8791.00	29.19	152.73	8773.88	31.00	-50.52	39.91 S	55.32 W	68.22@	234.20	6.28
8823.00	31.30	153.43	8801.53	32.00	-41.66	54.28 S	48.03 W	72.48@	221.50	6.69
8854.00	34.21	155.01	8827.59	31.00	-32.73	69.39 S	40.75 W	80.46@	210.42	9.78
8886.00	37.72	154.66	8853.49	32.00	-22.89	86.39 S	32.75 W	92.39@	200.76	10.99
8917.00	41.33	154.57	8877.40	31.00	-12.49	104.21 S	24.30 W	107.01@	193.12	11.65
8949.00	45.02	155.28	8900.73	32.00	-1.06	124.04 S	15.02 W	124.95@	186.91	11.63
8980.00	48.80	154.57	8921.90	31.00	10.77	144.54 S	5.43 W	144.64@	182.15	12.31
9012.00	53.02	153.78	8942.08	32.00	24.02	166.89 S	5.40 E	166.98@	178.15	13.32
9043.00	58.04	153.26	8959.62	31.00	37.90	189.76 S	16.79 E	190.50@	174.94	16.25
9075.00	61.99	153.61	8975.61	32.00	52.99	214.54 S	29.18 E	216.52@	172.25	12.38
9106.00	65.51	153.26	8989.32	31.00	68.12	239.41 S	41.61 E	243.00@	170.14	11.40
9138.00	69.56	152.64	9001.54	32.00	84.43	265.74 S	55.06 E	271.38@	168.29	12.78
9169.00	72.72	152.55	9011.56	31.00	100.76	291.78 S	68.56 E	299.72@	166.78	10.20

PathFinder – a Schlumberger company

Survey Report

DEVON ENERGY PRODUCTION COMPANY, LP
BELLATRIX 28 FEDERAL COM 4H
EDDY COUNTY, NM
API#: 30-015-40334 Rig: H&P 300

Page 05/07

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)
9201.00	75.36	150.09	9020.36	32.00	118.45	318.76 S	83.33 E	329.47@	165.35	11.08
9232.00	76.59	146.40	9027.88	31.00	137.04	344.33 S	99.16 E	358.32@	163.94	12.21
9264.00	77.65	142.09	9035.01	32.00	157.98	369.64 S	117.38 E	387.83@	162.38	13.54
9295.00	78.35	138.40	9041.46	31.00	179.85	392.94 S	136.77 E	416.06@	160.81	11.86
9327.00	79.67	135.59	9047.56	32.00	203.71	415.91 S	158.19 E	444.98@	159.18	9.56
9358.00	79.84	134.10	9053.07	31.00	227.61	437.42 S	179.82 E	472.94@	157.65	4.76
9390.00	80.46	130.84	9058.55	32.00	253.09	458.71 S	203.08 E	501.65@	156.12	10.22
9421.00	80.64	127.86	9063.64	31.00	278.76	478.09 S	226.72 E	529.13@	154.63	9.50
9452.00	81.51	123.81	9068.45	31.00	305.43	496.02 S	251.54 E	556.15@	153.11	13.21
9484.00	81.95	120.12	9073.06	32.00	333.99	512.78 S	278.40 E	583.48@	151.50	11.49
9515.00	82.22	115.55	9077.33	31.00	362.57	527.11 S	305.55 E	609.27@	149.90	14.63
9547.00	82.39	111.51	9081.61	32.00	392.87	539.77 S	334.62 E	635.07@	148.20	12.52
9578.00	82.39	107.99	9085.72	31.00	422.77	550.15 S	363.53 E	659.41@	146.54	11.26
9610.00	83.45	104.92	9089.67	32.00	454.03	559.14 S	393.98 E	684.01@	144.83	10.08
9641.00	85.03	101.75	9092.78	31.00	484.65	566.25 S	423.99 E	707.40@	143.18	11.38
9673.00	86.44	99.47	9095.16	32.00	516.47	572.13 S	455.35 E	731.22@	141.48	8.36
9696.00	87.32	98.32	9096.41	23.00	539.42	575.68 S	478.04 E	748.29@	140.29	6.29
9790.00	89.60	93.40	9098.94	94.00	633.34	585.27 S	571.48 E	818.00@	135.68	5.77
9885.00	89.43	91.12	9099.74	95.00	728.08	589.01 S	666.40 E	889.40@	131.47	2.41
9979.00	88.55	89.89	9101.40	94.00	821.56	589.84 S	760.38 E	962.34@	127.80	1.61
10074.00	90.40	89.45	9102.27	95.00	915.90	589.29 S	855.37 E	1038.71@	124.56	2.00
10168.00	90.66	88.22	9101.40	94.00	1009.07	587.38 S	949.34 E	1116.37@	121.75	1.34
10262.00	90.31	87.25	9100.60	94.00	1101.99	583.67 S	1043.27 E	1195.44@	119.23	1.10
10357.00	89.25	87.69	9100.97	95.00	1195.83	579.48 S	1138.17 E	1277.19@	116.98	1.21
10452.00	88.64	88.83	9102.72	95.00	1289.85	576.59 S	1233.11 E	1361.25@	115.06	1.36
10546.00	89.25	89.89	9104.45	94.00	1383.12	575.54 S	1327.09 E	1446.51@	113.45	1.30
10640.00	89.87	91.12	9105.17	94.00	1476.61	576.37 S	1421.08 E	1533.51@	112.08	1.47
10735.00	90.13	91.47	9105.17	95.00	1571.23	578.52 S	1516.05 E	1622.68@	110.89	0.46

PathFinder – a Schlumberger company

Survey Report

DEVON ENERGY PRODUCTION COMPANY, LP
 BELLATRIX 28 FEDERAL COM 4H
 EDDY COUNTY, NM
 API#: 30-015-40334 Rig: H&P 300

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)
10829.00	90.22	90.50	9104.88	94.00	1664.81	580.13 S	1610.04 E	1711.37@	109.82	1.04
10923.00	93.39	89.98	9101.92	94.00	1758.20	580.53 S	1703.98 E	1800.15@	108.81	3.42
11018.00	91.54	89.89	9097.84	95.00	1852.50	580.42 S	1798.88 E	1890.20@	107.88	1.95
11112.00	91.28	89.36	9095.52	94.00	1945.81	579.80 S	1892.85 E	1979.66@	107.03	0.63
11206.00	90.84	90.06	9093.78	94.00	2039.15	579.33 S	1986.84 E	2069.57@	106.26	0.88
11301.00	90.13	89.98	9092.98	95.00	2133.56	579.36 S	2081.83 E	2160.94@	105.55	0.75
11395.00	90.57	90.77	9092.41	94.00	2227.03	579.98 S	2175.83 E	2251.80@	104.93	0.96
11490.00	90.31	91.12	9091.68	95.00	2321.60	581.54 S	2270.81 E	2344.09@	104.36	0.46
11584.00	90.66	90.41	9090.88	94.00	2415.13	582.80 S	2364.80 E	2435.55@	103.84	0.84
11679.00	90.66	89.54	9089.79	95.00	2509.53	582.76 S	2459.79 E	2527.88@	103.33	0.92
11773.00	90.31	89.01	9088.99	94.00	2602.79	581.57 S	2553.78 E	2619.16@	102.83	0.68
11867.00	89.87	88.22	9088.84	94.00	2695.92	579.30 S	2647.75 E	2710.38@	102.34	0.96
11962.00	89.60	88.04	9089.28	95.00	2789.93	576.20 S	2742.70 E	2802.57@	101.86	0.34
12056.00	88.99	87.69	9090.44	94.00	2882.87	572.69 S	2836.63 E	2893.86@	101.41	0.75
12150.00	89.08	88.47	9092.02	94.00	2975.87	569.54 S	2930.56 E	2985.39@	101.00	0.83
12245.00	89.08	88.43	9093.55	95.00	3069.94	566.98 S	3025.51 E	3078.18@	100.61	0.04
12339.00	88.99	88.78	9095.13	94.00	3163.05	564.69 S	3119.47 E	3170.17@	100.26	0.38
12434.00	89.52	89.19	9096.37	95.00	3257.24	563.00 S	3214.45 E	3263.38@	99.93	0.71
12528.00	91.01	90.60	9095.93	94.00	3350.63	562.83 S	3308.44 E	3355.98@	99.65	2.18
12623.00	91.28	91.91	9094.03	95.00	3445.22	564.91 S	3403.40 E	3449.96@	99.42	1.41
12717.00	91.01	92.44	9092.15	94.00	3538.94	568.48 S	3497.31 E	3543.21@	99.23	0.63
12811.00	90.40	92.26	9091.00	94.00	3632.70	572.33 S	3591.22 E	3636.55@	99.06	0.68
12906.00	89.78	92.08	9090.85	95.00	3727.44	575.93 S	3686.16 E	3730.88@	98.88	0.68
13000.00	89.52	92.17	9091.42	94.00	3821.17	579.42 S	3780.09 E	3824.24@	98.71	0.29
13095.00	88.99	92.26	9092.66	95.00	3915.91	583.09 S	3875.01 E	3918.63@	98.56	0.57
13189.00	90.04	91.12	9093.45	94.00	4009.58	585.86 S	3968.96 E	4011.97@	98.40	1.65
13284.00	91.19	90.85	9092.43	95.00	4104.15	587.49 S	4063.94 E	4106.19@	98.23	1.24
13378.00	91.71	91.21	9090.06	94.00	4197.70	589.18 S	4157.90 E	4199.43@	98.07	0.67

PathFinder – a Schlumberger company

Survey Report

DEVON ENERGY PRODUCTION COMPANY, LP
 BELLATRIX 28 FEDERAL COM 4H
 EDDY COUNTY, NM
 API#: 30-015-40334 Rig: H&P 300

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)
13473.00	91.10	91.29	9087.73	95.00	4292.29	591.25 S	4252.84 E	4293.75@	97.91	0.65
13567.00	90.40	91.12	9086.50	94.00	4385.89	593.23 S	4346.82 E	4387.11@	97.77	0.77
13661.00	90.48	89.80	9085.77	94.00	4479.37	593.98 S	4440.81 E	4480.35@	97.62	1.41
13756.00	89.96	89.01	9085.41	95.00	4573.66	593.00 S	4535.80 E	4574.40@	97.45	1.00
13850.00	89.25	88.74	9086.06	94.00	4666.85	591.15 S	4629.78 E	4667.37@	97.28	0.81
13944.00	88.11	88.66	9088.22	94.00	4759.97	589.02 S	4723.73 E	4760.31@	97.11	1.22
14039.00	88.46	88.66	9091.07	95.00	4854.06	586.80 S	4818.66 E	4854.26@	96.94	0.37
14134.00	89.69	89.27	9092.60	95.00	4948.24	585.08 S	4913.63 E	4948.34@	96.79	1.45
14228.00	89.43	89.18	9093.32	94.00	5041.49	583.81 S	5007.62 E	5041.53@	96.65	0.29
14280.00	88.99	89.18	9094.04	52.00	5093.07	583.07 S	5059.61 E	5093.09@	96.57	0.85
STRAIGHT LINE PROJECTION TO BIT AT 14354'MD.										
14354.00	88.99	89.18	9095.34	74.00	5166.47	582.01 S	5133.59 E	5166.48@	96.47	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 – 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.

District I
1635 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

RECEIVED
NOV 25 2013
State of New Mexico
Energy, Minerals & Natural Resources Department
NM OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised October 15, 2009
Submit one copy to appropriate
District Office
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number		2 Pool Code		3 Pool Name	
4 Property Code		5 Property Name BELLATRIX "28" FEDERAL COM			6 Well Number 4H
7 OGRID No. 6137		8 Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.			9 Elevation 3482.3

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	29	19 S	31 E		1510	SOUTH	200	EAST	EDDY

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	28	19 S	31 E		900	SOUTH	340	EAST	EDDY

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
--------------------	--------------------	-----------------------	--------------

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

NW CORNER SEC. 29 LAT. = 32.6386302°N LONG. = 103.899686°W NMSP EAST (FT) N = 596336.65 E = 674736.47		SECTION CORNER LAT. = 32.6386573°N LONG. = 103.8828175°W NMSP EAST (FT) N = 596388.47 E = 680015.94		NE CORNER SEC. 28 LAT. = 32.6386883°N LONG. = 103.865669°W NMSP EAST (FT) N = 596401.84 E = 685294.35	
SEC. 29		SEC. 28			
BELLATRIX "28" FEDERAL COM #4H ELEV. = 3482.3' LAT. = 32.6282934°N (NAD83) LONG. = 103.8834317°W NMSP EAST (FT) N = 592597.20 E = 679842.94		SURFACE LOCATION		BOTTOM OF HOLE LAT. = 32.6266415°N LONG. = 103.8667353°W NMSP EAST (FT) N = 592018.39 E = 684985.64	
SW CORNER SEC. 29 LAT. = 32.6241144°N LONG. = 103.8999168°W NMSP EAST (FT) N = 591056.73 E = 674773.95		SECTION CORNER LAT. = 32.6241448°N LONG. = 103.8827673°W NMSP EAST (FT) N = 591088.77 E = 680053.80		SE CORNER SEC. 28 LAT. = 32.6241893°N LONG. = 103.8656232°W NMSP EAST (FT) N = 591120.47 E = 685331.96	

17 OPERATOR CERTIFICATION
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or an undivided mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature _____ Date _____
Printed Name _____

18 SURVEYOR CERTIFICATION
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my belief.

DECEMBER 17, 2013

Date of Survey _____

12797

Signature and Seal of Professional Surveyor _____
Certificate Number _____ PL 12797 SURVEY NO. 769



A Schlumberger Company

Devon Energy, Inc.

Eddy County (NAD83)

Bellatrix "28" Federal Com

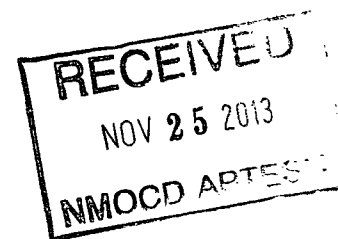
#4H

OH

Design: OH

Pathfinder X&Y Report

03 July, 2013





A Schlumberger Company

Pathfinder Pathfinder X&Y Report



Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well #4H
Project:	Eddy County (NAD83)	TVD Reference:	KB = 26 @ 3508.3usft (H&P 300)
Site:	Bellatrix "28" Federal Com	MD Reference:	KB = 26 @ 3508.3usft (H&P 300)
Well:	#4H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Project:	Eddy County (NAD83)	System Datum:	Mean Sea Level
Map System:	US State Plane 1983		
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site:	Bellatrix "28" Federal Com				
Site Position:		Northing:	595,443.610 usft	Latitude:	32.636124
From:	Map	Easting:	679,232.620 usft	Longitude:	-103.885375
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.24 °

Well:	#4H					
Well Position	+N/-S	0.0 usft	Northing:	592,597.200 usft	Latitude:	32.628293
	+E/-W	0.0 usft	Easting:	679,842.940 usft	Longitude:	-103.883431
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,482.3 usft

Wellbore:	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF200510	5/7/2013	7.52	60.49	48.679

Design:	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.0	0.0	0.0	96.42	



A Schlumberger Company

Pathfinder
Pathfinder X&Y Report



Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well #4H
Project:	Eddy County (NAD83)	TVD Reference:	KB = 26 @ 3508.3usft (H&P 300)
Site:	Bellatrix "28" Federal Com	MD Reference:	KB = 26 @ 3508.3usft (H&P 300)
Well:	#4H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey Program		Date		7/3/2013	
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.0	8,380.0	Gyro #1 (OH)	NS-GYRO-MS	North sensing gyrocompassing m/s	
8,477.0	13,567.0	MWD #2 (OH)	MWD	MWD - Standard	

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
0.0	0.00	0.00	0.0	-3,508.3	0.0	0.0	0.0	0.00	592,597.20	679,842.94	
Tenneco-Federal (Offset P&A)											
100.0	0.48	312.88	100.0	-3,408.3	0.3	-0.3	-0.3	0.48	592,597.49	679,842.63	
200.0	0.80	257.83	200.0	-3,308.3	0.4	-1.3	-1.3	0.66	592,597.62	679,841.64	
300.0	1.87	244.01	300.0	-3,208.3	-0.4	-3.4	-3.4	1.11	592,596.76	679,839.49	
400.0	2.82	253.55	399.9	-3,108.4	-1.9	-7.3	-7.0	1.02	592,595.35	679,835.67	
500.0	4.03	248.91	499.7	-3,008.6	-3.8	-12.9	-12.4	1.24	592,593.39	679,830.03	
600.0	4.49	249.52	599.4	-2,908.9	-6.4	-19.9	-19.0	0.46	592,590.75	679,823.09	
700.0	3.87	244.99	699.2	-2,809.1	-9.2	-26.6	-25.4	0.70	592,587.96	679,816.36	
800.0	3.18	256.28	799.0	-2,709.3	-11.3	-32.3	-30.9	0.98	592,585.87	679,810.61	
900.0	2.82	250.33	898.8	-2,609.5	-12.8	-37.3	-35.7	0.48	592,584.39	679,805.60	
1,000.0	2.30	254.37	998.7	-2,509.6	-14.2	-41.6	-39.7	0.55	592,583.02	679,801.35	
1,100.0	1.94	254.13	1,098.7	-2,409.6	-15.2	-45.2	-43.2	0.36	592,582.02	679,797.79	
1,200.0	1.24	266.33	1,198.6	-2,309.7	-15.7	-47.9	-45.8	0.77	592,581.48	679,795.08	
1,300.0	0.98	268.25	1,298.6	-2,209.7	-15.8	-49.8	-47.7	0.26	592,581.39	679,793.14	
1,400.0	0.58	261.24	1,398.6	-2,109.7	-15.9	-51.2	-49.0	0.41	592,581.28	679,791.79	
1,500.0	0.54	292.28	1,498.6	-2,009.7	-15.8	-52.1	-50.0	0.30	592,581.39	679,790.85	
1,600.0	0.70	34.48	1,598.6	-1,909.7	-15.1	-52.2	-50.2	0.97	592,582.07	679,790.76	
1,700.0	1.25	66.51	1,698.6	-1,809.7	-14.2	-50.8	-48.9	0.75	592,583.01	679,792.11	
1,800.0	1.53	60.84	1,798.5	-1,709.8	-13.1	-48.7	-46.9	0.31	592,584.09	679,794.28	
1,900.0	2.20	72.58	1,898.5	-1,609.8	-11.9	-45.7	-44.1	0.77	592,585.32	679,797.27	



A Schlumberger Company

Pathfinder Pathfinder X&Y Report



Company: Devon Energy, Inc.
Project: Eddy County (NAD83)
Site: Bellatrix "28" Federal Com
Well: #4H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #4H
TVD Reference: KB = 26 @ 3508.3usft (H&P 300)
MD Reference: KB = 26 @ 3508.3usft (H&P 300)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
2,000.0	2.03	74.79	1,998.4	-1,509.9	-10.8	-42.1	-40.6	0.19	592,586.36	679,800.81	
2,100.0	1.51	81.20	2,098.4	-1,409.9	-10.2	-39.1	-37.7	0.56	592,587.02	679,803.82	
2,200.0	1.23	93.32	2,198.3	-1,310.0	-10.0	-36.7	-35.4	0.40	592,587.16	679,806.20	
2,300.0	0.79	79.45	2,298.3	-1,210.0	-10.0	-35.0	-33.7	0.50	592,587.23	679,807.95	
2,400.0	0.65	63.05	2,398.3	-1,110.0	-9.6	-33.8	-32.5	0.25	592,587.61	679,809.13	
2,500.0	0.45	69.83	2,498.3	-1,010.0	-9.2	-32.9	-31.7	0.21	592,588.00	679,810.00	
2,600.0	0.36	78.93	2,598.3	-910.0	-9.0	-32.3	-31.0	0.11	592,588.20	679,810.68	
2,700.0	0.49	73.85	2,698.3	-810.0	-8.8	-31.5	-30.4	0.14	592,588.38	679,811.40	
2,800.0	0.20	100.58	2,798.3	-710.0	-8.7	-31.0	-29.8	0.32	592,588.46	679,811.98	
2,900.0	0.12	177.63	2,898.3	-610.0	-8.9	-30.8	-29.6	0.21	592,588.33	679,812.16	
3,000.0	0.95	243.63	2,998.3	-510.0	-9.3	-31.5	-30.3	0.91	592,587.85	679,811.42	
3,100.0	1.12	248.36	3,098.3	-410.0	-10.1	-33.2	-31.8	0.19	592,587.13	679,809.77	
3,200.0	1.14	255.37	3,198.3	-310.0	-10.7	-35.0	-33.6	0.14	592,586.51	679,807.90	
3,300.0	0.87	252.56	3,298.3	-210.0	-11.2	-36.7	-35.2	0.27	592,586.03	679,806.21	
3,400.0	0.75	271.28	3,398.2	-110.1	-11.4	-38.1	-36.6	0.29	592,585.82	679,804.83	
3,500.0	0.78	264.24	3,498.2	-10.1	-11.4	-39.4	-37.9	0.10	592,585.77	679,803.50	
3,600.0	0.74	273.22	3,598.2	89.9	-11.5	-40.8	-39.2	0.13	592,585.74	679,802.18	
3,700.0	0.77	280.89	3,698.2	189.9	-11.3	-42.1	-40.5	0.11	592,585.90	679,800.87	
3,800.0	0.77	265.52	3,798.2	289.9	-11.2	-43.4	-41.9	0.21	592,585.97	679,799.54	
3,900.0	0.69	271.14	3,898.2	389.9	-11.3	-44.7	-43.1	0.11	592,585.93	679,798.27	
4,000.0	0.63	252.10	3,998.2	489.9	-11.4	-45.8	-44.2	0.23	592,585.78	679,797.15	
4,100.0	0.93	242.82	4,098.2	589.9	-12.0	-47.0	-45.4	0.32	592,585.24	679,795.90	
4,200.0	0.90	260.32	4,198.2	689.9	-12.5	-48.5	-46.8	0.28	592,584.73	679,794.41	
4,300.0	0.98	257.12	4,298.2	789.9	-12.8	-50.1	-48.4	0.10	592,584.41	679,792.80	
4,400.0	1.37	272.93	4,398.1	889.8	-12.9	-52.2	-50.4	0.50	592,584.28	679,790.77	
4,500.0	1.08	276.91	4,498.1	989.8	-12.7	-54.3	-52.5	0.30	592,584.46	679,788.64	
4,600.0	0.91	272.07	4,598.1	1,089.8	-12.6	-56.0	-54.3	0.19	592,584.60	679,786.91	



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Pathfinder

Pathfinder X&Y Report



Company: Devon Energy, Inc.
Project: Eddy County (NAD83)
Site: Bellatrix "28" Federal Com
Well: #4H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #4H
TVD Reference: KB = 26 @ 3508.3usft (H&P 300)
MD Reference: KB = 26 @ 3508.3usft (H&P 300)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey												
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V Sec (usft)	D Leg (°/100usft)	Northing (usft)	Easting (usft)		
4,700.0	1.04	283.31	4,698.1	1,189.8	-12.4	-57.7	-56.0	0.23	592,584.84	679,785.24		
4,800.0	0.89	282.62	4,798.1	1,289.8	-12.0	-59.3	-57.6	0.15	592,585.21	679,783.59		
4,900.0	0.74	290.66	4,898.1	1,389.8	-11.6	-60.7	-59.0	0.19	592,585.61	679,782.23		
5,000.0	0.58	281.55	4,998.1	1,489.8	-11.3	-61.8	-60.2	0.19	592,585.94	679,781.13		
5,100.0	0.65	258.83	5,098.0	1,589.7	-11.3	-62.9	-61.2	0.25	592,585.93	679,780.08		
5,200.0	1.28	267.11	5,198.0	1,689.7	-11.4	-64.5	-62.8	0.64	592,585.77	679,778.41		
5,300.0	1.33	265.05	5,298.0	1,789.7	-11.6	-66.8	-65.1	0.07	592,585.61	679,776.14		
5,400.0	1.37	287.50	5,398.0	1,889.7	-11.3	-69.1	-67.4	0.53	592,585.87	679,773.84		
5,500.0	1.21	292.55	5,498.0	1,989.7	-10.6	-71.2	-69.6	0.20	592,586.63	679,771.73		
5,600.0	1.05	297.62	5,597.9	2,089.6	-9.7	-73.0	-71.5	0.19	592,587.46	679,769.94		
5,700.0	0.92	303.02	5,697.9	2,189.6	-8.9	-74.5	-73.0	0.16	592,588.33	679,768.45		
5,800.0	1.13	307.31	5,797.9	2,289.6	-7.8	-75.9	-74.6	0.22	592,589.36	679,767.00		
5,900.0	0.97	308.18	5,897.9	2,389.6	-6.7	-77.4	-76.2	0.16	592,590.48	679,765.55		
6,000.0	1.12	316.62	5,997.9	2,489.6	-5.5	-78.7	-77.6	0.21	592,591.72	679,764.21		
6,100.0	1.02	309.43	6,097.9	2,589.6	-4.2	-80.1	-79.1	0.17	592,592.99	679,762.85		
6,200.0	0.80	317.98	6,197.8	2,689.5	-3.1	-81.2	-80.4	0.26	592,594.07	679,761.70		
6,300.0	0.97	332.50	6,297.8	2,789.5	-1.9	-82.1	-81.4	0.28	592,595.34	679,760.84		
6,400.0	1.08	326.70	6,397.8	2,889.5	-0.3	-83.0	-82.5	0.15	592,596.88	679,759.93		
6,500.0	1.03	342.29	6,497.8	2,989.5	1.3	-83.8	-83.4	0.29	592,598.53	679,759.14		
6,600.0	1.16	329.15	6,597.8	3,089.5	3.1	-84.6	-84.4	0.28	592,600.25	679,758.35		
6,700.0	1.16	337.11	6,697.8	3,189.5	4.9	-85.5	-85.5	0.16	592,602.05	679,757.43		
6,800.0	0.95	348.51	6,797.7	3,289.4	6.6	-86.1	-86.3	0.30	592,603.80	679,756.87		
6,900.0	1.18	354.64	6,897.7	3,389.4	8.4	-86.3	-86.7	0.26	592,605.64	679,756.61		
7,000.0	1.06	356.44	6,997.7	3,489.4	10.4	-86.5	-87.1	0.13	592,607.58	679,756.46		
7,100.0	1.03	352.64	7,097.7	3,589.4	12.2	-86.7	-87.5	0.08	592,609.40	679,756.29		
7,200.0	1.23	336.80	7,197.7	3,689.4	14.1	-87.2	-88.2	0.37	592,611.28	679,755.75		
7,300.0	1.20	309.02	7,297.6	3,789.3	15.7	-88.4	-89.6	0.58	592,612.92	679,754.51		



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Pathfinder Pathfinder X&Y Report



Company: Devon Energy, Inc.
Project: Eddy County (NAD83)
Site: Bellatrix "28" Federal Com
Well: #4H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #4H
TVD Reference: KB = 26 @ 3508.3usft (H&P 300)
MD Reference: KB = 26 @ 3508.3usft (H&P 300)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V:Sec (usft)	DLeg (%/100usft)	Northing (usft)	Easting (usft)	
7,400.0	0.95	274.14	7,397.6	3,889.3	16.4	-90.1	-91.3	0.69	592,613.64	679,752.87	
7,500.0	0.22	204.01	7,497.6	3,989.3	16.3	-91.0	-92.2	0.90	592,613.53	679,751.97	
7,600.0	0.56	226.76	7,597.6	4,089.3	15.8	-91.4	-92.6	0.37	592,613.02	679,751.53	
7,700.0	0.48	221.56	7,697.6	4,189.3	15.2	-92.0	-93.2	0.09	592,612.37	679,750.90	
7,800.0	0.90	261.33	7,797.6	4,289.3	14.7	-93.1	-94.2	0.61	592,611.94	679,749.85	
7,900.0	0.87	301.88	7,897.6	4,389.3	15.0	-94.5	-95.6	0.61	592,612.22	679,748.42	
8,000.0	1.24	315.88	7,997.6	4,489.3	16.2	-95.9	-97.1	0.45	592,613.40	679,747.03	
8,100.0	1.54	354.63	8,097.6	4,589.3	18.3	-96.8	-98.2	0.96	592,615.51	679,746.15	
8,200.0	1.73	12.03	8,197.5	4,689.2	21.1	-96.6	-98.4	0.53	592,618.33	679,746.34	
8,300.0	1.52	9.91	8,297.5	4,789.2	23.9	-96.1	-98.1	0.22	592,621.11	679,746.88	
8,380.0	1.40	341.17	8,377.5	4,869.2	25.9	-96.2	-98.5	0.92	592,623.08	679,746.75	
8,477.0	1.49	36.54	8,474.4	4,966.1	28.0	-95.8	-98.4	1.39	592,625.21	679,747.11	
8,508.0	1.49	74.95	8,505.4	4,997.1	28.4	-95.2	-97.8	3.16	592,625.64	679,747.74	
8,540.0	3.96	134.54	8,537.4	5,029.1	27.8	-94.0	-96.5	10.79	592,624.97	679,748.93	
8,571.0	8.00	144.64	8,568.2	5,059.9	25.3	-92.0	-94.2	13.42	592,622.46	679,750.95	
8,602.0	12.40	145.70	8,598.7	5,090.4	20.8	-88.9	-90.6	14.21	592,617.95	679,754.07	
8,634.0	16.88	146.84	8,629.7	5,121.4	14.0	-84.4	-85.4	14.03	592,611.22	679,758.55	
8,665.0	20.05	149.39	8,659.1	5,150.8	5.7	-79.2	-79.4	10.55	592,602.88	679,763.72	
8,697.0	21.02	151.76	8,689.0	5,180.7	-4.1	-73.7	-72.8	3.99	592,593.10	679,769.23	
8,728.0	23.74	152.82	8,717.7	5,209.4	-14.6	-68.2	-66.2	8.87	592,582.65	679,774.71	
8,760.0	27.26	153.26	8,746.6	5,238.3	-26.8	-62.0	-58.6	11.02	592,570.37	679,780.95	
8,791.0	29.19	152.73	8,773.9	5,265.6	-39.9	-55.3	-50.5	6.28	592,557.31	679,787.61	
8,823.0	31.30	153.43	8,801.5	5,293.2	-54.3	-48.0	-41.7	6.69	592,542.94	679,794.91	
8,854.0	34.21	155.01	8,827.6	5,319.3	-69.4	-40.7	-32.7	9.78	592,527.83	679,802.19	
8,886.0	37.72	154.66	8,853.5	5,345.2	-86.4	-32.8	-22.9	10.99	592,510.83	679,810.18	
8,917.0	41.33	154.57	8,877.4	5,369.1	-104.2	-24.3	-12.5	11.65	592,493.01	679,818.64	
8,949.0	45.02	155.28	8,900.7	5,392.4	-124.0	-15.0	-1.1	11.63	592,473.18	679,827.91	



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Pathfinder Pathfinder X&Y Report



Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well #4H
Project:	Eddy County (NAD83)	TVD Reference:	KB = 26 @ 3508.3usft (H&P 300)
Site:	Bellatrix "28" Federal Com	MD Reference:	KB = 26 @ 3508.3usft (H&P 300)
Well:	#4H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
8,980.0	48.80	154.57	8,921.9	5,413.6	-144.5	-5.4	10.8	12.31	592,452.68	679,837.51	
9,012.0	53.02	153.78	8,942.1	5,433.8	-166.9	5.4	24.0	13.33	592,430.33	679,848.33	
9,043.0	58.04	153.26	8,959.6	5,451.3	-189.7	16.8	37.9	16.25	592,407.46	679,859.73	
9,075.0	61.99	153.61	8,975.6	5,467.3	-214.5	29.2	53.0	12.38	592,382.67	679,872.12	
9,106.0	65.51	153.26	8,989.3	5,481.0	-239.4	41.6	68.1	11.40	592,357.81	679,884.55	
9,138.0	69.56	152.64	9,001.5	5,493.2	-265.7	55.1	84.4	12.78	592,331.48	679,898.00	
9,169.0	72.72	152.55	9,011.6	5,503.3	-291.8	68.6	100.8	10.20	592,305.44	679,911.50	
9,201.0	75.36	150.09	9,020.4	5,512.1	-318.7	83.3	118.5	11.08	592,278.46	679,926.27	
9,232.0	76.59	146.40	9,027.9	5,519.6	-344.3	99.2	137.0	12.21	592,252.89	679,942.09	
9,264.0	77.65	142.09	9,035.0	5,526.7	-369.6	117.4	158.0	13.54	592,227.58	679,960.32	
9,295.0	78.35	138.40	9,041.5	5,533.2	-392.9	136.8	179.9	11.86	592,204.28	679,979.71	
9,327.0	79.67	135.59	9,047.6	5,539.3	-415.9	158.2	203.7	9.56	592,181.31	680,001.13	
9,358.0	79.84	134.10	9,053.1	5,544.8	-437.4	179.8	227.6	4.76	592,159.80	680,022.76	
9,390.0	80.46	130.84	9,058.6	5,550.3	-458.7	203.1	253.1	10.22	592,138.51	680,046.01	
9,421.0	80.64	127.86	9,063.6	5,555.3	-478.1	226.7	278.8	9.50	592,119.13	680,069.66	
9,452.0	81.51	123.81	9,068.5	5,560.2	-496.0	251.5	305.4	13.21	592,101.20	680,094.48	
9,484.0	81.95	120.12	9,073.1	5,564.8	-512.8	278.4	334.0	11.49	592,084.44	680,121.34	
9,515.0	82.22	115.55	9,077.3	5,569.0	-527.1	305.5	362.6	14.63	592,070.11	680,148.48	
9,547.0	82.39	111.51	9,081.6	5,573.3	-539.7	334.6	392.9	12.52	592,057.45	680,177.55	
9,578.0	82.39	107.99	9,085.7	5,577.4	-550.1	363.5	422.8	11.25	592,047.07	680,206.47	
9,610.0	83.45	104.92	9,089.7	5,581.4	-559.1	394.0	454.0	10.08	592,038.08	680,236.92	
9,641.0	85.03	101.75	9,092.8	5,584.5	-566.2	424.0	484.7	11.38	592,030.96	680,266.93	
9,673.0	86.44	99.47	9,095.2	5,586.9	-572.1	455.4	516.5	8.36	592,025.09	680,298.29	
9,696.0	87.32	98.32	9,096.4	5,588.1	-575.7	478.0	539.4	6.29	592,021.54	680,320.98	
9,790.0	89.60	93.40	9,098.9	5,590.6	-585.2	571.5	633.4	5.77	592,011.95	680,414.42	
9,885.0	89.43	91.12	9,099.7	5,591.4	-589.0	666.4	728.1	2.41	592,008.20	680,509.34	
9,979.0	88.55	89.89	9,101.4	5,593.1	-589.8	760.4	821.6	1.61	592,007.38	680,603.32	



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Pathfinder Pathfinder X&Y Report



Company: Devon Energy, Inc.
Project: Eddy County (NAD83)
Site: Bellatrix "28" Federal Com
Well: #4H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #4H
TVD Reference: KB = 26 @ 3508.3usft (H&P 300)
MD Reference: KB = 26 @ 3508.3usft (H&P 300)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg. (°/100usft)	Northing (usft)	Easting (usft)
10,074.0	90.40	89.45	9,102.3	5,594.0	-589.3	855.4	915.9	2.00	592,007.92	680,698.31
10,168.0	90.66	88.22	9,101.4	5,593.1	-587.4	949.3	1,009.1	1.34	592,009.83	680,792.28
10,262.0	90.31	87.25	9,100.6	5,592.3	-583.7	1,043.3	1,102.0	1.10	592,013.55	680,886.20
10,357.0	89.25	87.69	9,101.0	5,592.7	-579.5	1,138.2	1,195.8	1.21	592,017.74	680,981.11
10,452.0	88.64	88.83	9,102.7	5,594.4	-576.6	1,233.1	1,289.9	1.36	592,020.63	681,076.04
10,546.0	89.25	89.89	9,104.5	5,596.2	-575.5	1,327.1	1,383.1	1.30	592,021.68	681,170.02
10,640.0	89.87	91.12	9,105.2	5,596.9	-576.4	1,421.1	1,476.6	1.47	592,020.85	681,264.01
10,735.0	90.13	91.47	9,105.2	5,596.9	-578.5	1,516.0	1,571.2	0.46	592,018.70	681,358.99
10,829.0	90.22	90.50	9,104.9	5,596.6	-580.1	1,610.0	1,664.8	1.04	592,017.09	681,452.97
10,923.0	93.39	89.98	9,101.9	5,593.6	-580.5	1,704.0	1,758.2	3.42	592,016.69	681,546.91
11,018.0	91.54	89.89	9,097.8	5,589.5	-580.4	1,798.9	1,852.5	1.95	592,016.80	681,641.82
11,112.0	91.28	89.36	9,095.5	5,587.2	-579.8	1,892.8	1,945.8	0.63	592,017.41	681,735.79
11,206.0	90.84	90.06	9,093.8	5,585.5	-579.3	1,986.8	2,039.2	0.88	592,017.89	681,829.77
11,301.0	90.13	89.98	9,093.0	5,584.7	-579.3	2,081.8	2,133.6	0.75	592,017.86	681,924.77
11,395.0	90.57	90.77	9,092.4	5,584.1	-580.0	2,175.8	2,227.0	0.96	592,017.24	682,018.76
11,490.0	90.31	91.12	9,091.7	5,583.4	-581.5	2,270.8	2,321.6	0.46	592,015.67	682,113.75
11,584.0	90.66	90.41	9,090.9	5,582.6	-582.8	2,364.8	2,415.1	0.84	592,014.42	682,207.73
11,679.0	90.66	89.54	9,089.8	5,581.5	-582.7	2,459.8	2,509.5	0.92	592,014.46	682,302.73
11,773.0	90.31	89.01	9,089.0	5,580.7	-581.5	2,553.8	2,602.8	0.68	592,015.65	682,396.72
11,867.0	89.87	88.22	9,088.8	5,580.5	-579.3	2,647.7	2,695.9	0.96	592,017.92	682,490.69
11,962.0	89.60	88.04	9,089.3	5,581.0	-576.2	2,742.7	2,789.9	0.34	592,021.02	682,585.64
12,056.0	88.99	87.69	9,090.4	5,582.1	-572.7	2,836.6	2,882.9	0.75	592,024.52	682,679.56
12,150.0	89.08	88.47	9,092.0	5,583.7	-569.5	2,930.6	2,975.9	0.84	592,027.67	682,773.50
12,245.0	89.08	88.43	9,093.6	5,585.3	-567.0	3,025.5	3,069.9	0.04	592,030.24	682,868.45
12,339.0	88.99	88.78	9,095.1	5,586.8	-564.7	3,119.5	3,163.1	0.38	592,032.53	682,962.41
12,434.0	89.52	89.19	9,096.4	5,588.1	-563.0	3,214.4	3,257.2	0.71	592,034.21	683,057.38



A Schlumberger Company

Pathfinder
Pathfinder X&Y Report



Company: Devon Energy, Inc.
Project: Eddy County (NAD83)
Site: Bellatrix "28" Federal Com
Well: #4H
Wellbore: OH
Design: OH

Local Co-ordinate Reference
TVD Reference: KB = 26 @ 3508.3usft (H&P 300)
MD Reference: KB = 26 @ 3508.3usft (H&P 300)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V Sec (usft)	DLeg (%/100usft)	Northing (usft)	Easting (usft)	
12,473.7	90.15	89.79	9,096.5	5,588.2	-562.6	3,254.2	3,296.7	2.18	592,034.57	683,097.11	
Mid-Pt (Bellatrix #4H)											
12,528.0	91.01	90.60	9,095.9	5,587.6	-562.8	3,308.4	3,350.6	2.18	592,034.39	683,151.38	
12,623.0	91.28	91.91	9,094.0	5,585.7	-564.9	3,403.4	3,445.2	1.41	592,032.31	683,246.33	
12,717.0	91.01	92.44	9,092.2	5,583.9	-568.5	3,497.3	3,538.9	0.63	592,028.74	683,340.25	
12,811.0	90.40	92.26	9,091.0	5,582.7	-572.3	3,591.2	3,632.7	0.68	592,024.88	683,434.16	
12,906.0	89.78	92.08	9,090.9	5,582.6	-575.9	3,686.2	3,727.4	0.68	592,021.29	683,529.09	
13,000.0	89.52	92.17	9,091.4	5,583.1	-579.4	3,780.1	3,821.2	0.29	592,017.80	683,623.03	
13,095.0	88.99	92.26	9,092.7	5,584.4	-583.1	3,875.0	3,915.9	0.57	592,014.13	683,717.95	
13,189.0	90.04	91.12	9,093.5	5,585.2	-585.8	3,969.0	4,009.6	1.65	592,011.36	683,811.90	
13,284.0	91.19	90.85	9,092.4	5,584.1	-587.5	4,063.9	4,104.1	1.24	592,009.73	683,906.88	
13,378.0	91.71	91.21	9,090.1	5,581.8	-589.2	4,157.9	4,197.7	0.67	592,008.04	684,000.83	
13,473.0	91.10	91.29	9,087.7	5,579.4	-591.2	4,252.8	4,292.3	0.65	592,005.96	684,095.78	
13,567.0	90.40	91.12	9,086.5	5,578.2	-593.2	4,346.8	4,385.9	0.77	592,003.99	684,189.75	
PBHL (Bellatrix #4H)											

Checked By: _____ Approved By: _____ Date: _____