

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

30-025-42589

PATHFINDER
A Schlumberger Company

HOBBS OGD

MAR 13 2017

RECEIVED

MAR 13 2017

DIRECTIONAL SURVEY REPORT

HOBBS OGD

DEVON ENERGY PRODUCTION CO., L.P.

COTTON DRAW UNIT 250H

LEA COUNTY, NEW MEXICO

SCHLUMBERGER

PREPARED BY: DAVID PARISH

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



November 23, 2015

DEVON ENERGY CORPORATION
Attn: Derek Ohl
333 West Sheridan
Oklahoma City, OK 73102

RE: DEVON ENERGY PRODUCTION CO., L.P.
COTTON DRAW UNIT 250H
LEA COUNTY, NM
RIG: Precision #601
API NO.: 30-025-42589
FILE NO.: 15LAF0133

Dear Mr. Ohl:

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 "D. Parish".

David Parish
M/LWD Service Coordinator
Schlumberger

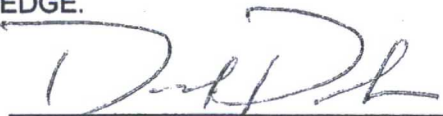
DP:tb

DIRECTIONAL SURVEY COMPANY REPORT:

1. NAME OF SURVEYING COMPANY: SCHLUMBERGER
2. NAME OF PERSON(S) PERFORMING SURVEY:
A) KEVIN BLANCHARD
B) WILLIAM KURZMACK
C) MICHAEL ZAW
3. POSITION OF SAID PERSON(S): (A-C) SURVEYORS (FIELD ENGINEERS)
4. DATE(S) ON WHICH SURVEY WAS PERFORMED: 11/09/15 TO 11/14/15
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.
COTTON DRAW UNIT 250H
LEA COUNTY, NM
RIG: PRECISION #601
API NO.: 30-025-42589
9. SURVEY CERTIFIED FROM: 7,493 TO 12,676 FEET MEASURED DEPTH.

THIS IS TO VERIFY THAT ATTACHED DOCUMENTS SHOWING THE WELL TO BE DISPLACED 4,852.73 FEET ON A BEARING OF 177.20 DEGREES FROM THE CENTER OF THE ROTARY TABLE AT A PROJECTED TO BIT DEPTH OF 12,676 FEET, ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.



DAVID PARISH
M/LWD SERVICE COORDINATOR

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



STATE OF LOUISIANA
PARISH OF LAFAYETTE

I, Kevin Blanchard, certify that; I am employed by Schlumberger; that I did on the day(s) of **11/09/15** through **11/14/15** conduct or supervise the taking of a **Measurement While Drilling** survey from a depth of **7,493 feet to a depth of 12,676 feet**; that the data is true, correct, complete and within the limitations of the tool as set forth by Schlumberger; 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 **Cotton Draw Unit 250H** Well API No. **30-025-42589** 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 Schlumberger.



PathFinder Field Engineer

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BHL Report

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Tie-in Date: 11/09/2015
Date Completed: 11/14/2015

DEVON ENERGY PRODUCTION COMPANY, LP
COTTON DRAW UNIT #250H
LEA COUNTY, NEW MEXICO
API#: 30-025-42589 Rig: PRECISION 601
PathFinder Office Supervisor: DAVID LAMAR PARISH
PathFinder Field Engineers: KEVIN BLANCHARD
 MICHAEL ZAW
 WILLIAM KURZMACK

Survey Horiz. Reference: WELLHEAD
Ref Coordinates: LAT: 32.9.6.4976 N LON: 103.43.17.3701 W
GRID Reference: NAD83 new mexico east Transverse Mercator
Ref GRID Coord: X: 730689.5200 Y: 419500.0000
North Aligned To: GRID NORTH
Total Magnetic Correction: 6.71° EAST TO GRID
Vertical Section Plane: 177.41
Survey Vert. Reference: 25.00' Rotary Table To Ground
Altitude: 3437.00' Ground To MSL

Measured Depth	12676.00	(feet)
Inclination	90.75	(deg)
Azimuth	178.63	(deg)
True Vertical Depth	8190.72	(feet)
Vertical Section	4852.70	(feet)
Survey X cord	730926.41	(feet)
Survey Y cord	414653.05	(feet)
Survey Lat	32.13847797 N	(deg)
Survey Lon	103.72081538 W	(deg)
Rectangular Corr. N/S	4846.95 S	(feet)
Rectangular Corr. E/W	236.89 E	(feet)
Closure Distance	4852.73	(feet)
Direction of Closure	177.20	(deg)
Dogleg Severity	0.00	(deg/100ft)

PathFinder – a Schlumberger company

Survey Report

DEVON ENERGY PRODUCTION COMPANY, LP

COTTON DRAW UNIT #250H

LEA COUNTY, NEW MEXICO

API#: 30-025-42589 Rig: PRECISION 601

PathFinder Office Supervisor: DAVID LAMAR PARISH

PathFinder Field Engineers: KEVIN BLANCHARD

MICHAEL ZAW

WILLIAM KURZMACK

Survey Calculations by PathCalc v2.05.00.00 using Minimum Curvature

Survey Horiz. Reference: WELLHEAD

Ref Coordinates: LAT:32.9.6.4976 N LON:103.43.17.3701 W

GRID Reference: NAD83 new mexico east Transverse Mercator

Ref GRID Coord: X: 730689.5200 Y: 419500.0000

North Aligned To: GRID NORTH

Total Magnetic Correction: 6.71° EAST TO GRID

Vertical Section Plane: 177.41

Survey Vert. Reference: 25.00' Rotary Table To Ground

Altitude: 3437.00' Ground To MSL

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 SURVEYS.												
92.00	0.09	229.36	91.99	92.00	1.59	1.63 S	0.80 W	32.15180042 N	103.72149433 W	1.82@	206.22	0.00
272.00	0.48	152.90	271.99	180.00	2.36	2.39 S	0.57 W	32.15179832 N	103.72149358 W	2.46@	193.32	0.26
330.00	0.62	162.08	329.99	58.00	2.89	2.91 S	0.36 W	32.15179690 N	103.72149292 W	2.93@	187.04	0.28
425.00	1.01	179.09	424.98	95.00	4.22	4.23 S	0.19 W	32.15179325 N	103.72149239 W	4.24@	182.54	0.48
519.00	0.88	175.57	518.97	94.00	5.77	5.78 S	0.12 W	32.15178899 N	103.72149220 W	5.78@	181.18	0.15
614.00	1.19	184.89	613.95	95.00	7.48	7.49 S	0.15 W	32.15178429 N	103.72149232 W	7.49@	181.12	0.37
730.00	1.19	307.06	729.94	116.00	7.90	7.97 S	1.21 W	32.15178300 N	103.72149576 W	8.06@	188.64	1.80
803.00	1.49	191.70	802.93	73.00	8.34	8.44 S	2.01 W	32.15178172 N	103.72149835 W	8.67@	193.38	3.11
898.00	1.41	189.77	897.90	95.00	10.68	10.80 S	2.46 W	32.15177523 N	103.72149984 W	11.08@	192.82	0.10
992.00	1.41	190.16	991.87	94.00	12.94	13.08 S	2.86 W	32.15176898 N	103.72150118 W	13.39@	192.32	0.01
1088.00	1.41	185.68	1087.84	96.00	15.26	15.42 S	3.18 W	32.15176256 N	103.72150227 W	15.74@	191.66	0.11
1181.00	1.10	181.37	1180.82	93.00	17.28	17.45 S	3.32 W	32.15175698 N	103.72150274 W	17.76@	190.76	0.35
1271.00	1.19	188.27	1270.80	90.00	19.06	19.24 S	3.47 W	32.15175206 N	103.72150328 W	19.55@	190.23	0.18
1360.00	0.88	268.36	1359.79	89.00	19.96	20.17 S	4.29 W	32.15174951 N	103.72150593 W	20.62@	192.00	1.52
1450.00	0.62	197.46	1449.78	90.00	20.40	20.65 S	5.13 W	32.15174819 N	103.72150864 W	21.28@	193.94	0.99
1539.00	0.70	196.49	1538.78	89.00	21.37	21.64 S	5.42 W	32.15174550 N	103.72150963 W	22.30@	194.07	0.09
1628.00	0.62	226.37	1627.77	89.00	22.20	22.49 S	5.93 W	32.15174316 N	103.72151127 W	23.26@	194.76	0.39
1718.00	0.62	226.39	1717.77	90.00	22.84	23.16 S	6.63 W	32.15174132 N	103.72151356 W	24.09@	195.98	0.00
1897.00	0.62	229.28	1896.76	179.00	24.07	24.46 S	8.07 W	32.15173777 N	103.72151822 W	25.76@	198.25	0.02
1987.00	0.31	187.97	1986.75	90.00	24.61	25.02 S	8.47 W	32.15173624 N	103.72151953 W	26.41@	198.70	0.49
2076.00	0.22	232.88	2075.75	89.00	24.94	25.36 S	8.64 W	32.15173531 N	103.72152009 W	26.79@	198.81	0.25
2168.00	0.40	177.07	2167.75	92.00	25.37	25.79 S	8.76 W	32.15173414 N	103.72152050 W	27.24@	198.77	0.36
2254.00	0.40	207.26	2253.75	86.00	25.93	26.35 S	8.89 W	32.15173258 N	103.72152090 W	27.81@	198.63	0.24

PathFinder – a Schlumberger company

Survey Report

DEVON ENERGY PRODUCTION COMPANY, LP
 COTTON DRAW UNIT #250H
 LEA COUNTY, NEW MEXICO
 API#: 30-025-42589 Rig: PRECISION 601

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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)
2344.00	0.22	187.88	2343.75	90.00	26.37	26.80 S 9.05 W	32.15173134 N	103.72152145 W	28.29@ 198.66	0.23
2433.00	0.22	170.30	2432.75	89.00	26.71	27.14 S 9.05 W	32.15173042 N	103.72152144 W	28.61@ 198.44	0.08
2522.00	0.40	125.96	2521.75	89.00	27.07	27.49 S 8.77 W	32.15172945 N	103.72152054 W	28.86@ 197.69	0.32
2611.00	0.48	133.08	2610.74	89.00	27.53	27.93 S 8.24 W	32.15172824 N	103.72151886 W	29.12@ 196.45	0.11
2700.00	0.40	133.08	2699.74	89.00	28.02	28.40 S 7.75 W	32.15172695 N	103.72151725 W	29.43@ 195.26	0.09
2790.00	0.31	143.27	2789.74	90.00	28.44	28.81 S 7.37 W	32.15172581 N	103.72151605 W	29.73@ 194.35	0.12
2879.00	0.40	127.59	2878.74	89.00	28.84	29.19 S 6.98 W	32.15172476 N	103.72151479 W	30.01@ 193.45	0.15
2967.00	0.48	128.46	2966.73	88.00	29.28	29.61 S 6.45 W	32.15172360 N	103.72151308 W	30.30@ 192.29	0.09
3058.00	0.40	133.30	3057.73	91.00	29.76	30.06 S 5.92 W	32.15172235 N	103.72151138 W	30.64@ 191.14	0.10
3147.00	0.22	169.20	3146.73	89.00	30.16	30.44 S 5.66 W	32.15172129 N	103.72151055 W	30.96@ 190.53	0.29
3237.00	0.22	133.56	3236.73	90.00	30.45	30.73 S 5.50 W	32.15172050 N	103.72151005 W	31.22@ 190.15	0.15
3326.00	0.40	84.17	3325.73	89.00	30.56	30.82 S 5.07 W	32.15172025 N	103.72150865 W	31.23@ 189.34	0.34
3415.00	0.09	27.79	3414.73	89.00	30.48	30.72 S 4.73 W	32.15172051 N	103.72150755 W	31.09@ 188.75	0.40
3503.00	0.22	109.70	3502.73	88.00	30.48	30.72 S 4.54 W	32.15172051 N	103.72150693 W	31.05@ 188.40	0.26
3594.00	0.09	326.09	3593.73	91.00	30.49	30.72 S 4.41 W	32.15172051 N	103.72150652 W	31.03@ 188.17	0.33
3702.00	0.22	60.48	3701.73	108.00	30.32	30.55 S 4.28 W	32.15172099 N	103.72150609 W	30.84@ 187.97	0.23
3773.00	0.48	141.78	3772.73	71.00	30.50	30.71 S 3.98 W	32.15172052 N	103.72150512 W	30.97@ 187.38	0.70
3863.00	0.48	111.28	3862.72	90.00	30.96	31.15 S 3.39 W	32.15171932 N	103.72150324 W	31.33@ 186.21	0.28
3952.00	0.48	124.97	3951.72	89.00	31.34	31.50 S 2.74 W	32.15171835 N	103.72150113 W	31.61@ 184.97	0.13
4041.00	0.70	159.89	4040.72	89.00	32.08	32.22 S 2.25 W	32.15171636 N	103.72149955 W	32.30@ 183.99	0.46
4131.00	1.19	170.56	4130.70	90.00	33.54	33.66 S 1.90 W	32.15171240 N	103.72149848 W	33.71@ 183.24	0.58
4220.00	1.10	155.97	4219.69	89.00	35.25	35.35 S 1.40 W	32.15170774 N	103.72149689 W	35.38@ 182.28	0.34
4310.00	0.88	159.67	4309.67	90.00	36.71	36.79 S 0.81 W	32.15170378 N	103.72149501 W	36.80@ 181.27	0.25
4396.00	0.79	167.97	4395.66	86.00	37.93	37.99 S 0.46 W	32.15170048 N	103.72149389 W	37.99@ 180.69	0.18
4452.00	0.79	165.60	4451.66	56.00	38.68	38.74 S 0.28 W	32.15169841 N	103.72149333 W	38.74@ 180.42	0.06
4541.00	0.79	165.60	4540.65	89.00	39.89	39.93 S 0.02 E	32.15169514 N	103.72149237 W	39.93@ 179.97	0.00
4631.00	0.62	154.17	4630.64	90.00	40.94	40.96 S 0.39 E	32.15169228 N	103.72149120 W	40.97@ 179.46	0.24

PathFinder – a Schlumberger company

Survey Report

DEVON ENERGY PRODUCTION COMPANY, LP
COTTON DRAW UNIT #250H
LEA COUNTY, NEW MEXICO
API#: 30-025-42589 Rig: PRECISION 601

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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)
4720.00	0.62	161.29	4719.64	89.00	41.85	41.85 S	0.75 E	32.15168982 N	103.72149004 W	41.86@	178.97	0.09
4809.00	0.70	58.68	4808.63	89.00	42.05	42.03 S	1.37 E	32.15168934 N	103.72148805 W	42.05@	178.13	1.16
4898.00	0.48	161.60	4897.63	89.00	42.14	42.10 S	1.95 E	32.15168913 N	103.72148617 W	42.14@	177.34	1.05
5006.00	0.40	182.56	5005.63	108.00	42.95	42.90 S	2.08 E	32.15168692 N	103.72148577 W	42.96@	177.23	0.17
5077.00	0.62	186.56	5076.62	71.00	43.58	43.53 S	2.02 E	32.15168519 N	103.72148596 W	43.58@	177.34	0.31
5166.00	0.40	162.48	5165.62	89.00	44.36	44.31 S	2.06 E	32.15168306 N	103.72148585 W	44.36@	177.33	0.34
5256.00	0.31	159.89	5255.62	90.00	44.89	44.84 S	2.24 E	32.15168160 N	103.72148529 W	44.89@	177.14	0.10
5345.00	0.40	145.56	5344.62	89.00	45.39	45.32 S	2.50 E	32.15168027 N	103.72148446 W	45.39@	176.84	0.14
5434.00	0.31	130.40	5433.62	89.00	45.81	45.73 S	2.86 E	32.15167913 N	103.72148331 W	45.82@	176.42	0.15
5612.00	0.09	73.88	5611.62	178.00	46.11	46.00 S	3.36 E	32.15167838 N	103.72148169 W	46.13@	175.82	0.15
5703.00	0.09	323.10	5702.62	91.00	46.03	45.93 S	3.39 E	32.15167859 N	103.72148161 W	46.05@	175.78	0.16
5792.00	0.22	325.47	5791.61	89.00	45.83	45.73 S	3.25 E	32.15167913 N	103.72148205 W	45.85@	175.94	0.15
5881.00	0.09	279.20	5880.61	89.00	45.67	45.58 S	3.08 E	32.15167955 N	103.72148259 W	45.68@	176.13	0.19
5971.00	0.09	302.18	5970.61	90.00	45.62	45.53 S	2.95 E	32.15167969 N	103.72148300 W	45.63@	176.29	0.04
6060.00	0.40	336.99	6059.61	89.00	45.29	45.21 S	2.77 E	32.15168058 N	103.72148358 W	45.29@	176.49	0.37
6149.00	0.22	9.59	6148.61	89.00	44.83	44.75 S	2.68 E	32.15168183 N	103.72148387 W	44.83@	176.58	0.28
6239.00	0.31	1.86	6238.61	90.00	44.42	44.34 S	2.71 E	32.15168296 N	103.72148375 W	44.42@	176.50	0.11
6328.00	0.22	339.18	6327.61	89.00	44.01	43.94 S	2.66 E	32.15168407 N	103.72148391 W	44.02@	176.53	0.15
6507.00	0.09	140.37	6506.61	179.00	43.80	43.73 S	2.63 E	32.15168465 N	103.72148401 W	43.80@	176.56	0.17
6596.00	0.31	169.29	6595.61	89.00	44.09	44.02 S	2.72 E	32.15168385 N	103.72148373 W	44.10@	176.47	0.26
6686.00	0.40	156.19	6685.61	90.00	44.63	44.54 S	2.89 E	32.15168240 N	103.72148318 W	44.64@	176.29	0.13
6775.00	0.70	144.99	6774.60	89.00	45.38	45.27 S	3.33 E	32.15168039 N	103.72148178 W	45.39@	175.80	0.36
6864.00	0.88	136.46	6863.60	89.00	46.35	46.21 S	4.11 E	32.15167779 N	103.72147927 W	46.40@	174.92	0.24
6954.00	0.88	130.40	6953.58	90.00	47.34	47.16 S	5.11 E	32.15167517 N	103.72147605 W	47.44@	173.81	0.10
7043.00	0.88	125.96	7042.57	89.00	48.24	48.01 S	6.19 E	32.15167283 N	103.72147260 W	48.40@	172.66	0.08
7133.00	1.01	129.56	7132.56	90.00	49.20	48.92 S	7.36 E	32.15167031 N	103.72146883 W	49.47@	171.45	0.16
7222.00	1.10	133.69	7221.55	89.00	50.34	50.01 S	8.58 E	32.15166729 N	103.72146490 W	50.74@	170.26	0.13

PathFinder – a Schlumberger company

Survey Report

DEVON ENERGY PRODUCTION COMPANY, LP
COTTON DRAW UNIT #250H
LEA COUNTY, NEW MEXICO
API#: 30-025-42589 Rig: PRECISION 601

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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)
7311.00	1.01	115.90	7310.53	89.00	51.33	50.94 S	9.90 E	32.15166471 N	103.72146064 W	51.89@	169.00	0.38
7401.00	1.10	115.68	7400.52	90.00	52.12	51.66 S	11.40 E	32.15166270 N	103.72145583 W	52.90@	167.56	0.10
** TIED INTO EXTREME ENGINEERING SURVEYS AT 7493' MD.												
7493.00	1.10	115.28	7492.50	92.00	52.95	52.42 S	12.99 E	32.15166059 N	103.72145070 W	54.01@	166.08	0.01
THE FOLLOWING ARE PATHFINDER MWD SURVEYS.												
7542.00	1.67	132.11	7541.49	49.00	53.68	53.10 S	13.94 E	32.15165871 N	103.72144762 W	54.90@	165.29	1.42
7586.00	5.01	161.99	7585.41	44.00	55.98	55.36 S	15.02 E	32.15165248 N	103.72144421 W	57.36@	164.82	8.31
7630.00	9.41	168.78	7629.05	44.00	61.39	60.72 S	16.31 E	32.15163774 N	103.72144012 W	62.87@	164.96	10.17
7676.00	14.95	172.31	7674.00	46.00	71.03	70.29 S	17.84 E	32.15161139 N	103.72143536 W	72.52@	165.76	12.15
7719.00	19.87	175.00	7715.01	43.00	83.86	83.08 S	19.22 E	32.15157623 N	103.72143114 W	85.27@	166.98	11.59
7765.00	24.97	176.62	7757.52	46.00	101.39	100.57 S	20.47 E	32.15152813 N	103.72142741 W	102.63@	168.49	11.17
7809.00	29.11	176.61	7796.71	44.00	121.39	120.53 S	21.65 E	32.15147323 N	103.72142396 W	122.46@	169.82	9.41
7854.00	31.83	175.22	7835.49	45.00	144.19	143.29 S	23.29 E	32.15141065 N	103.72141909 W	145.17@	170.77	6.24
7898.00	34.73	175.44	7872.27	44.00	168.32	167.35 S	25.25 E	32.15134448 N	103.72141319 W	169.24@	171.42	6.60
7944.00	37.90	177.04	7909.33	46.00	195.55	194.53 S	27.02 E	32.15126974 N	103.72140796 W	196.40@	172.09	7.19
7988.00	42.47	177.82	7942.94	44.00	223.93	222.88 S	28.29 E	32.15119178 N	103.72140440 W	224.67@	172.77	10.45
8033.00	47.92	178.47	7974.64	45.00	255.85	254.78 S	29.31 E	32.15110408 N	103.72140167 W	256.46@	173.44	12.15
8077.00	52.67	178.94	8002.74	44.00	289.68	288.62 S	30.07 E	32.15101107 N	103.72139984 W	290.18@	174.05	10.83
8123.00	56.01	179.68	8029.55	46.00	327.03	325.98 S	30.52 E	32.15090835 N	103.72139909 W	327.41@	174.65	7.38
8166.00	58.74	180.33	8052.73	43.00	363.20	362.19 S	30.51 E	32.15080882 N	103.72139977 W	363.48@	175.18	6.48
8212.00	62.78	180.57	8075.19	46.00	403.28	402.32 S	30.19 E	32.15069851 N	103.72140153 W	403.45@	175.71	8.79
8256.00	67.01	179.74	8093.86	44.00	443.06	442.16 S	30.09 E	32.15058902 N	103.72140260 W	443.18@	176.11	9.76
8301.00	70.61	179.06	8110.12	45.00	484.99	484.10 S	30.53 E	32.15047371 N	103.72140194 W	485.07@	176.39	8.12
8346.00	73.51	179.02	8123.98	45.00	527.78	526.91 S	31.25 E	32.15035605 N	103.72140041 W	527.83@	176.61	6.44
8391.00	76.06	178.99	8135.79	45.00	571.18	570.32 S	32.00 E	32.15023670 N	103.72139877 W	571.22@	176.79	5.67
8435.00	78.79	179.12	8145.37	44.00	614.11	613.25 S	32.71 E	32.15011867 N	103.72139727 W	614.13@	176.95	6.21
8477.00	82.13	179.22	8152.33	42.00	655.50	654.66 S	33.31 E	32.15000484 N	103.72139609 W	655.51@	177.09	7.96

PathFinder – a Schlumberger company

Survey Report

DEVON ENERGY PRODUCTION COMPANY, LP
COTTON DRAW UNIT #250H
LEA COUNTY, NEW MEXICO
API#: 30-025-42589 Rig: PRECISION 601

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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)
8521.00	86.79	178.41	8156.58	44.00	699.27	698.43 S	34.22 E	32.14988451 N	103.72139397 W	699.27@	177.20	10.75
8567.00	88.02	176.15	8158.66	46.00	745.22	744.33 S	36.40 E	32.14975831 N	103.72138776 W	745.22@	177.20	5.59
8611.00	88.20	175.38	8160.11	44.00	789.17	788.19 S	39.65 E	32.14963771 N	103.72137807 W	789.18@	177.12	1.80
8701.00	88.99	176.18	8162.32	90.00	879.11	877.91 S	46.27 E	32.14939097 N	103.72135833 W	879.13@	176.98	1.25
8790.00	87.23	176.09	8165.25	89.00	968.03	966.66 S	52.26 E	32.14914693 N	103.72134059 W	968.07@	176.91	1.98
8880.00	86.79	175.99	8169.95	90.00	1057.89	1056.32 S	58.47 E	32.14890037 N	103.72132218 W	1057.94@	176.83	0.50
8969.00	87.58	176.26	8174.32	89.00	1146.76	1145.01 S	64.48 E	32.14865649 N	103.72130440 W	1146.83@	176.78	0.94
9059.00	88.46	176.27	8177.43	90.00	1236.68	1234.77 S	70.34 E	32.14840968 N	103.72128712 W	1236.77@	176.74	0.98
9148.00	89.78	176.89	8178.79	89.00	1325.66	1323.59 S	75.65 E	32.14816543 N	103.72127160 W	1325.75@	176.73	1.64
9237.00	89.78	177.30	8179.14	89.00	1414.66	1412.48 S	80.16 E	32.14792103 N	103.72125866 W	1414.75@	176.75	0.46
9327.00	89.60	177.46	8179.62	90.00	1504.66	1502.38 S	84.27 E	32.14767384 N	103.72124702 W	1504.75@	176.79	0.27
9416.00	90.92	178.83	8179.22	89.00	1593.65	1591.33 S	87.15 E	32.14742930 N	103.72123934 W	1593.72@	176.87	2.14
9506.00	89.25	178.79	8179.09	90.00	1683.62	1681.31 S	89.02 E	32.14718194 N	103.72123496 W	1683.66@	176.97	1.86
9595.00	88.99	177.04	8180.45	89.00	1772.60	1770.24 S	92.26 E	32.14693745 N	103.72122613 W	1772.64@	177.02	1.99
9685.00	89.60	177.35	8181.56	90.00	1862.59	1860.12 S	96.66 E	32.14669030 N	103.72121355 W	1862.63@	177.03	0.76
9774.00	91.80	178.91	8180.47	89.00	1951.57	1949.06 S	99.57 E	32.14644579 N	103.72120580 W	1951.60@	177.08	3.03
9863.00	90.66	177.99	8178.56	89.00	2040.53	2038.00 S	101.97 E	32.14620126 N	103.72119966 W	2040.55@	177.14	1.65
9953.00	89.69	175.75	8178.29	90.00	2130.52	2127.86 S	106.89 E	32.14595418 N	103.72118544 W	2130.55@	177.12	2.71
10042.00	90.57	176.90	8178.09	89.00	2219.50	2216.68 S	112.59 E	32.14570996 N	103.72116864 W	2219.53@	177.09	1.63
10131.00	89.78	176.77	8177.81	89.00	2308.49	2305.54 S	117.50 E	32.14546562 N	103.72115439 W	2308.53@	177.08	0.90
10220.00	87.49	175.38	8179.93	89.00	2397.44	2394.30 S	123.59 E	32.14522155 N	103.72113635 W	2397.49@	177.05	3.01
10310.00	87.49	176.10	8183.87	90.00	2487.31	2483.96 S	130.27 E	32.14497497 N	103.72111642 W	2487.38@	177.00	0.80
10399.00	87.76	176.61	8187.56	89.00	2576.22	2572.71 S	135.93 E	32.14473095 N	103.72109978 W	2576.29@	176.98	0.65
10488.00	89.60	177.84	8189.61	89.00	2665.19	2661.57 S	140.23 E	32.14448661 N	103.72108750 W	2665.26@	176.98	2.49
10578.00	89.60	178.78	8190.24	90.00	2755.18	2751.53 S	142.89 E	32.14423929 N	103.72108058 W	2755.24@	177.03	1.04
10667.00	90.57	179.05	8190.11	89.00	2844.14	2840.51 S	144.57 E	32.14399467 N	103.72107677 W	2844.19@	177.09	1.13
10757.00	89.60	177.01	8189.98	90.00	2934.13	2930.45 S	147.67 E	32.14374739 N	103.72106842 W	2934.17@	177.12	2.51

PathFinder – a Schlumberger company

Survey Report

DEVON ENERGY PRODUCTION COMPANY, LP
COTTON DRAW UNIT #250H
LEA COUNTY, NEW MEXICO
API#: 30-025-42589 Rig: PRECISION 601

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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)
10846.00	87.93	174.93	8191.89	89.00	3023.08	3019.21 S 153.92 E	32.14350334 N	103.72104986 W	3023.13@ 177.08	3.00
10936.00	89.69	175.96	8193.76	90.00	3113.00	3108.90 S 161.06 E	32.14325668 N	103.72102842 W	3113.07@ 177.03	2.27
11025.00	90.13	177.07	8193.90	89.00	3201.99	3197.73 S 166.47 E	32.14301242 N	103.72101257 W	3202.06@ 177.02	1.34
11114.00	90.13	177.10	8193.70	89.00	3290.99	3286.62 S 171.00 E	32.14276802 N	103.72099958 W	3291.06@ 177.02	0.03
11204.00	91.19	178.26	8192.66	90.00	3380.98	3376.53 S 174.64 E	32.14252080 N	103.72098946 W	3381.05@ 177.04	1.75
11293.00	90.84	178.21	8191.09	89.00	3469.95	3465.48 S 177.38 E	32.14227627 N	103.72098224 W	3470.01@ 177.07	0.40
11382.00	91.89	178.71	8188.97	89.00	3558.91	3554.42 S 179.77 E	32.14203175 N	103.72097615 W	3558.96@ 177.10	1.31
11472.00	89.87	177.01	8187.59	90.00	3648.89	3644.34 S 183.14 E	32.14178453 N	103.72096695 W	3648.93@ 177.12	2.93
11561.00	89.60	177.03	8188.00	89.00	3737.89	3733.21 S 187.76 E	32.14154015 N	103.72095363 W	3737.93@ 177.12	0.30
11650.00	89.69	177.11	8188.55	89.00	3826.88	3822.10 S 192.31 E	32.14129576 N	103.72094057 W	3826.93@ 177.12	0.14
11740.00	89.96	177.32	8188.82	90.00	3916.88	3911.99 S 196.68 E	32.14104860 N	103.72092809 W	3916.93@ 177.12	0.38
11829.00	90.22	177.06	8188.68	89.00	4005.88	4000.88 S 201.05 E	32.14080418 N	103.72091563 W	4005.93@ 177.12	0.41
11919.00	90.40	177.24	8188.20	90.00	4095.88	4090.77 S 205.52 E	32.14055703 N	103.72090282 W	4095.93@ 177.12	0.28
12008.00	90.57	176.82	8187.44	89.00	4184.87	4179.65 S 210.13 E	32.14031266 N	103.72088956 W	4184.93@ 177.12	0.51
12097.00	88.55	177.03	8188.13	89.00	4273.86	4268.51 S 214.91 E	32.14006831 N	103.72087577 W	4273.92@ 177.12	2.28
12187.00	88.55	176.86	8190.40	90.00	4363.83	4358.36 S 219.70 E	32.13982128 N	103.72086193 W	4363.89@ 177.11	0.19
12276.00	88.72	177.13	8192.52	89.00	4452.80	4447.21 S 224.37 E	32.13957697 N	103.72084849 W	4452.86@ 177.11	0.36
12365.00	89.25	177.47	8194.10	89.00	4541.79	4536.09 S 228.56 E	32.13933257 N	103.72083658 W	4541.85@ 177.12	0.71
12455.00	90.75	178.37	8194.10	90.00	4631.78	4626.03 S 231.82 E	32.13908530 N	103.72082768 W	4631.84@ 177.13	1.94
12544.00	91.10	178.93	8192.66	89.00	4720.75	4714.99 S 233.92 E	32.13884073 N	103.72082254 W	4720.79@ 177.16	0.74
12616.00	90.75	178.63	8191.50	72.00	4792.72	4786.97 S 235.45 E	32.13864286 N	103.72081891 W	4792.76@ 177.18	0.64
STRAIGHT LINE PROJECTION TO BIT DEPTH AT 12676' MD.										
12676.00	90.75	178.63	8190.72	60.00	4852.70	4846.95 S 236.89 E	32.13847797 N	103.72081538 W	4852.73@ 177.20	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.