

**Reservoir Development**

Drilling & Measurements (Anadrill)

4301 SW 44th St

Oklahoma City, Oklahoma 73119 USA

Phone: (405) 682-2284

Fax: (405) 682-3937

**PATHFINDER**

A Schlumberger Company

September 4, 2015

DEVON ENERGY PRODUCTION COMPANY, LP

333 W Sheridan Ave

Oklahoma City, OK 73102

**NM OIL CONSERVATION**  
ARTESIA DISTRICT

SEP 19 2016

RECEIVED

Re:

CLIENT: DEVON ENERGY PRODUCTION COMPANY, LP

WELL: COTTON DRAW UNIT 239H

FIELD: PADUCA; BONE SPRING

RIG: PRECISION 608

COUNTY: LEA

API NO: 30-015-43270

JOB NO: 15MLD2601

Sec 13, T25S, R31E Lea NM

N 32.13701 W 103.73798

Enclosed, please find the original copy of the survey performed on the referenced well by PathFinder, a division of Schlumberger Technology Corporation.

Other information required by your office is as follows.

| <u>Name &amp; Title of<br/>Surveyor</u> | <u>Drainhole Number</u>                   | <u>Surveyed Depths</u>       | <u>Dates Performed</u>                  | <u>Type of Survey</u> |
|-----------------------------------------|-------------------------------------------|------------------------------|-----------------------------------------|-----------------------|
| MAGSUD ALIYEV<br>FE2                    | COTTON DRAW UNIT<br>239H<br>Original Hole | 4399.00 Ft to<br>15201.00 Ft | August 22, 2015 to<br>September 1, 2015 | HDS-1L                |

If any other information is required, please contact the undersigned at the above letterhead and phone number.

Sincerely,

Qun Xu

Field Service Manager

**Reservoir Development**

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Oklahoma City, Oklahoma 73119 USA

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**PATHFINDER**

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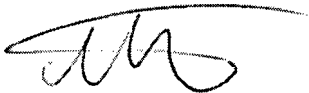
**Well Reference:**

Sec 13, T25S, R31E Lea NM

N 32.13701 W 103.73798

I, MAGSUD ALIYEV certify that; I am employed by PathFinder, a division of Schlumberger Technology Corporation; that I did on the day(s) of August 22, 2015 through September 01, 2015, conduct or supervise the taking of the HDS-1L surveys from a depth of 4399.00 feet to a depth of 15201.00 feet referenced to driller's depth; that the data is true, correct, complete and within the limitations of the tool as set forth by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I am authorized and qualified to make this report; that this survey was conducted at the request of DEVON ENERGY PRODUCTION COMPANY, LP for the COTTON DRAW UNIT 239H Well (Original Hole) API No. 30-015-43270 and that I have reviewed this report and find that it conforms to the principals and procedures as set forth by Drilling & Measurements, a division of Schlumberger Technology Corporation.

By  
MAGSUD ALIYEV  
FE2

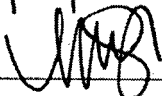
 09/04/15

Subscribed and Sworn to before me this 4th day of September (month) 2015 (yr)

My Commission expires:

08/28/2018

Notary Public



(signature)

Bernalillo County, State of New Mexico  
(County State)



OFFICIAL SEAL  
MAKAYA MONIZ

NOTARY PUBLIC, State of New Mexico

My Commission Expires

08/28/2018

# PathFinder – a Schlumberger company

## Survey Report

DEVON ENERGY PRODUCTION COMPANY, LP  
COTTON DRAW UNIT 239H  
LEA COUNTY, NM  
API#: 30-015-43270 RIG: PD 608  
PathFinder Office Supervisor: QUN XU  
PathFinder Field Engineers: MAGSUD ALIYEV  
ZAIRE WILLIAMS  
BEN FULTON

VERONICA CHAU

Survey Horiz. Reference: WELLHEAD  
Ref Coordinates: LAT:32.8132290 N LON:103.44167107 W  
GRID Reference: NAD83 new mexico east Transverse Mercator  
Ref GRID Coord: X: 725617.9100 Y: 414088.5400  
North Aligned To: GRID NORTH  
Total Magnetic Correction: 6.74° EAST TO GRID  
Vertical Section Plane: 359.69  
Survey Vert. Reference: 25.00' Rotary Table To Ground  
Altitude: 3404.00' Ground To MSL

Survey Calculations by RX5 V7.01A using Minimum Curvature

| Measured<br>Depth<br>(ft)                          | Incl<br>(deg) | Drift<br>Dir.<br>(deg) | TVD<br>(ft) | Course<br>Length<br>(ft) | Vertical<br>Section<br>(ft) | Rectangular Offsets<br>(ft) | TOTAL<br>Offsets<br>(ft) | Closure<br>Dist Dir<br>(ft) (deg) | DLS<br>(dg/100ft) |
|----------------------------------------------------|---------------|------------------------|-------------|--------------------------|-----------------------------|-----------------------------|--------------------------|-----------------------------------|-------------------|
| THE FOLLOWING ARE EXTREME ENGINEERING MWD SURVEYS. |               |                        |             |                          |                             |                             |                          |                                   |                   |
| 174.00                                             | 0.30          | 348.34                 | 174.00      | 0.00                     | 0.45                        | 0.45 N                      | 0.09 W                   | 0.46@ 348.45                      | 0.00              |
| 229.00                                             | 0.31          | 343.34                 | 229.00      | 55.00                    | 0.73                        | 0.73 N                      | 0.16 W                   | 0.75@ 347.42                      | 0.05              |
| 318.00                                             | 0.31          | 307.34                 | 317.99      | 89.00                    | 1.11                        | 1.11 N                      | 0.42 W                   | 1.19@ 339.09                      | 0.21              |
| 420.00                                             | 0.70          | 331.14                 | 419.99      | 102.00                   | 1.83                        | 1.82 N                      | 0.94 W                   | 2.05@ 332.62                      | 0.43              |
| 514.00                                             | 1.01          | 254.04                 | 513.98      | 94.00                    | 2.11                        | 2.10 N                      | 2.02 W                   | 2.91@ 316.11                      | 1.16              |
| 679.00                                             | 0.88          | 245.67                 | 678.96      | 165.00                   | 1.20                        | 1.18 N                      | 4.57 W                   | 4.72@ 284.43                      | 0.12              |
| 849.00                                             | 1.01          | 276.83                 | 848.94      | 170.00                   | 0.86                        | 0.82 N                      | 7.25 W                   | 7.29@ 276.43                      | 0.31              |
| 942.00                                             | 0.79          | 251.43                 | 941.93      | 93.00                    | 0.76                        | 0.71 N                      | 8.67 W                   | 8.70@ 274.68                      | 0.48              |
| 1037.00                                            | 1.01          | 261.36                 | 1036.91     | 95.00                    | 0.43                        | 0.38 N                      | 10.12 W                  | 10.13@ 272.12                     | 0.28              |
| 1132.00                                            | 0.88          | 266.32                 | 1131.90     | 95.00                    | 0.27                        | 0.20 N                      | 11.67 W                  | 11.68@ 270.99                     | 0.16              |
| 1227.00                                            | 1.01          | 264.35                 | 1226.89     | 95.00                    | 0.15                        | 0.07 N                      | 13.24 W                  | 13.24@ 270.32                     | 0.14              |
| 1321.00                                            | 0.70          | 247.82                 | 1320.88     | 94.00                    | -0.15                       | 0.22 S                      | 14.59 W                  | 14.59@ 269.12                     | 0.42              |
| 1416.00                                            | 0.88          | 244.22                 | 1415.87     | 95.00                    | -0.68                       | 0.76 S                      | 15.79 W                  | 15.80@ 267.24                     | 0.20              |
| 1510.00                                            | 0.70          | 258.63                 | 1509.86     | 94.00                    | -1.10                       | 1.19 S                      | 17.00 W                  | 17.04@ 266.00                     | 0.28              |
| 1605.00                                            | 1.10          | 246.64                 | 1604.85     | 95.00                    | -1.56                       | 1.66 S                      | 18.40 W                  | 18.48@ 264.83                     | 0.46              |
| 1694.00                                            | 1.01          | 261.75                 | 1693.83     | 89.00                    | -2.01                       | 2.12 S                      | 19.97 W                  | 20.08@ 263.95                     | 0.33              |
| 1784.00                                            | 1.01          | 239.34                 | 1783.82     | 90.00                    | -2.52                       | 2.63 S                      | 21.43 W                  | 21.59@ 262.99                     | 0.44              |
| 1873.00                                            | 0.88          | 253.36                 | 1872.81     | 89.00                    | -3.11                       | 3.23 S                      | 22.76 W                  | 22.99@ 261.92                     | 0.30              |
| 1962.00                                            | 1.19          | 238.95                 | 1961.79     | 89.00                    | -3.77                       | 3.90 S                      | 24.21 W                  | 24.52@ 260.84                     | 0.45              |
| 2052.00                                            | 1.32          | 240.53                 | 2051.77     | 90.00                    | -4.75                       | 4.89 S                      | 25.91 W                  | 26.37@ 259.30                     | 0.15              |
| 2141.00                                            | 1.32          | 238.02                 | 2140.75     | 89.00                    | -5.79                       | 5.94 S                      | 27.67 W                  | 28.30@ 257.88                     | 0.06              |
| 2230.00                                            | 1.10          | 234.42                 | 2229.73     | 89.00                    | -6.82                       | 6.98 S                      | 29.24 W                  | 30.06@ 256.57                     | 0.26              |
| 2409.00                                            | 1.41          | 238.73                 | 2408.69     | 179.00                   | -8.95                       | 9.12 S                      | 32.52 W                  | 33.77@ 254.33                     | 0.18              |
| 2499.00                                            | 1.41          | 225.63                 | 2498.66     | 90.00                    | -10.29                      | 10.47 S                     | 34.26 W                  | 35.82@ 253.00                     | 0.36              |

# PathFinder – a Schlumberger company

## Survey Report

DEVON ENERGY PRODUCTION COMPANY, LP  
COTTON DRAW UNIT 239H  
LEA COUNTY, NM  
API#: 30-015-43270 Rig: PD 608

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| Measured<br>Depth<br>(ft) | Incl<br>(deg) | Drift<br>Dir.<br>(deg) | TVD<br>(ft) | Course<br>Length<br>(ft) | Vertical<br>Section<br>(ft) | Rectangular Offsets<br>(ft) | TOTAL<br>(ft) | Closure<br>Dist Dir<br>(ft) (deg) | DLS<br>(dg/100ft) |
|---------------------------|---------------|------------------------|-------------|--------------------------|-----------------------------|-----------------------------|---------------|-----------------------------------|-------------------|
| 2588.00                   | 1.71          | 228.62                 | 2587.62     | 89.00                    | -11.92                      | 12.12 S                     | 36.03 W       | 38.02@ 251.41                     | 0.35              |
| 2677.00                   | 1.89          | 227.52                 | 2676.58     | 89.00                    | -13.78                      | 13.99 S                     | 38.11 W       | 40.60@ 249.85                     | 0.21              |
| 2767.00                   | 1.49          | 218.34                 | 2766.54     | 90.00                    | -15.69                      | 15.91 S                     | 39.93 W       | 42.99@ 248.28                     | 0.54              |
| 2945.00                   | 1.58          | 213.24                 | 2944.48     | 178.00                   | -19.54                      | 19.77 S                     | 42.71 W       | 47.07@ 245.16                     | 0.09              |
| 3124.00                   | 1.58          | 222.73                 | 3123.41     | 179.00                   | -23.40                      | 23.65 S                     | 45.74 W       | 51.49@ 242.66                     | 0.15              |
| 3302.00                   | 1.58          | 206.34                 | 3301.34     | 178.00                   | -27.39                      | 27.65 S                     | 48.50 W       | 55.83@ 240.31                     | 0.25              |
| 3481.00                   | 1.89          | 190.26                 | 3480.26     | 179.00                   | -32.50                      | 32.77 S                     | 50.12 W       | 59.88@ 236.82                     | 0.32              |
| 3659.00                   | 1.89          | 182.65                 | 3658.17     | 178.00                   | -38.31                      | 38.59 S                     | 50.78 W       | 63.77@ 232.77                     | 0.14              |
| 3837.00                   | 2.20          | 176.85                 | 3836.05     | 178.00                   | -44.66                      | 44.93 S                     | 50.72 W       | 67.76@ 228.46                     | 0.21              |
| 4016.00                   | 3.12          | 173.42                 | 4014.86     | 179.00                   | -52.93                      | 53.20 S                     | 49.98 W       | 72.99@ 223.21                     | 0.52              |
| 4105.00                   | 2.99          | 167.62                 | 4103.73     | 89.00                    | -57.61                      | 57.88 S                     | 49.20 W       | 75.96@ 220.37                     | 0.38              |
| 4199.00                   | 3.30          | 170.74                 | 4197.59     | 94.00                    | -62.68                      | 62.94 S                     | 48.24 W       | 79.30@ 217.47                     | 0.38              |
| 4399.00                   | 3.08          | 165.51                 | 4397.28     | 200.00                   | -73.57                      | 73.82 S                     | 45.97 W       | 86.97@ 211.91                     | 0.18              |
| 4489.00                   | 2.90          | 128.82                 | 4487.17     | 90.00                    | -77.36                      | 77.59 S                     | 43.59 W       | 89.00@ 209.33                     | 2.10              |
| 4578.00                   | 3.08          | 118.95                 | 4576.05     | 89.00                    | -79.94                      | 80.16 S                     | 39.74 W       | 89.47@ 206.37                     | 0.61              |
| 4668.00                   | 3.69          | 84.59                  | 4665.90     | 90.00                    | -80.87                      | 81.06 S                     | 34.74 W       | 88.19@ 203.20                     | 2.31              |
| 4757.00                   | 3.96          | 80.77                  | 4754.70     | 89.00                    | -80.14                      | 80.30 S                     | 28.86 W       | 85.32@ 199.77                     | 0.42              |
| 4846.00                   | 4.22          | 82.67                  | 4843.47     | 89.00                    | -79.26                      | 79.38 S                     | 22.58 W       | 82.53@ 195.88                     | 0.33              |
| 4936.00                   | 4.57          | 72.47                  | 4933.21     | 90.00                    | -77.79                      | 77.88 S                     | 15.88 W       | 79.48@ 191.52                     | 0.95              |
| 5025.00                   | 4.57          | 69.08                  | 5021.93     | 89.00                    | -75.50                      | 75.55 S                     | 9.18 W        | 76.10@ 186.93                     | 0.30              |
| 5114.00                   | 5.63          | 49.20                  | 5110.58     | 89.00                    | -71.41                      | 71.43 S                     | 2.57 W        | 71.48@ 182.06                     | 2.30              |
| 5204.00                   | 5.89          | 46.16                  | 5200.12     | 90.00                    | -65.37                      | 65.35 S                     | 4.11 E        | 65.47@ 176.40                     | 0.45              |
| 5293.00                   | 5.89          | 43.62                  | 5288.66     | 89.00                    | -58.93                      | 58.88 S                     | 10.55 E       | 59.81@ 169.84                     | 0.29              |
| 5382.00                   | 5.54          | 42.08                  | 5377.21     | 89.00                    | -52.47                      | 52.38 S                     | 16.58 E       | 54.94@ 162.44                     | 0.43              |
| 5472.00                   | 7.21          | 41.85                  | 5466.65     | 90.00                    | -45.08                      | 44.95 S                     | 23.26 E       | 50.61@ 152.64                     | 1.86              |
| 5561.00                   | 7.30          | 40.93                  | 5554.94     | 89.00                    | -36.68                      | 36.52 S                     | 30.69 E       | 47.70@ 139.95                     | 0.17              |
| 5651.00                   | 7.30          | 41.04                  | 5644.21     | 90.00                    | -28.09                      | 27.89 S                     | 38.19 E       | 47.29@ 126.13                     | 0.02              |
| 5740.00                   | 7.30          | 40.25                  | 5732.49     | 89.00                    | -19.55                      | 19.31 S                     | 45.56 E       | 49.48@ 112.96                     | 0.11              |
| 5830.00                   | 7.56          | 40.87                  | 5821.73     | 90.00                    | -10.75                      | 10.46 S                     | 53.13 E       | 54.15@ 101.14                     | 0.30              |

\*\* TIED INTO EXTREME ENGINEERING MWD SURVEY AT 4199'MD.

THE FOLLOWING ARE PATHFINDER MWD SURVEYS.

# PathFinder – a Schlumberger company

## Survey Report

DEVON ENERGY PRODUCTION COMPANY, LP  
COTTON DRAW UNIT 239H  
LEA COUNTY, NM  
API#: 30-015-43270 Rig: PD 608

| Measured<br>Depth<br>(ft) | Incl<br>(deg) | Drift<br>Dir.<br>(deg) | TVD<br>(ft) | Course<br>Length<br>(ft) | Vertical<br>Section<br>(ft) | TOTAL<br>Rectangular Offsets<br>(ft) | Closure<br>Dist Dir<br>(ft) (deg) | DLS<br>(dg/100ft) |
|---------------------------|---------------|------------------------|-------------|--------------------------|-----------------------------|--------------------------------------|-----------------------------------|-------------------|
| 5919.00                   | 7.47          | 41.10                  | 5909.97     | 89.00                    | -2.01                       | 1.68 S                               | 60.78@ 91.58                      | 0.11              |
| 6008.00                   | 7.12          | 41.06                  | 5998.25     | 89.00                    | 6.47                        | 6.84 N                               | 68.53@ 84.27                      | 0.39              |
| 6098.00                   | 6.95          | 40.23                  | 6087.57     | 90.00                    | 14.80                       | 15.20 N                              | 75.37 E 76.89@ 78.59              | 0.22              |
| 6187.00                   | 6.95          | 40.68                  | 6175.92     | 89.00                    | 22.95                       | 23.40 N                              | 82.35 E 85.61@ 74.14              | 0.06              |
| 6277.00                   | 6.68          | 39.60                  | 6265.28     | 90.00                    | 31.08                       | 31.56 N                              | 89.24 E 94.66@ 70.52              | 0.33              |
| 6366.00                   | 6.33          | 37.74                  | 6353.71     | 89.00                    | 38.91                       | 39.43 N                              | 95.54 E 103.36@ 67.57             | 0.46              |
| 6456.00                   | 7.65          | 47.42                  | 6443.04     | 90.00                    | 46.85                       | 47.41 N                              | 102.99 E 113.38@ 65.28            | 1.96              |
| 6545.00                   | 8.00          | 50.17                  | 6531.21     | 89.00                    | 54.77                       | 55.38 N                              | 112.11 E 125.04@ 63.71            | 0.58              |
| 6634.00                   | 8.00          | 49.34                  | 6619.35     | 89.00                    | 62.73                       | 63.38 N                              | 121.56 E 137.10@ 62.46            | 0.13              |
| 6723.00                   | 7.56          | 48.36                  | 6707.53     | 89.00                    | 70.60                       | 71.31 N                              | 130.64 E 148.83@ 61.37            | 0.52              |
| 6813.00                   | 7.47          | 48.45                  | 6796.75     | 90.00                    | 78.37                       | 79.12 N                              | 139.44 E 160.33@ 60.43            | 0.10              |
| 6902.00                   | 7.03          | 48.87                  | 6885.04     | 89.00                    | 85.74                       | 86.54 N                              | 147.87 E 171.34@ 59.66            | 0.50              |
| 6991.00                   | 6.51          | 48.76                  | 6973.42     | 89.00                    | 92.61                       | 93.45 N                              | 155.77 E 181.65@ 59.04            | 0.59              |
| 7081.00                   | 6.24          | 49.13                  | 7062.86     | 90.00                    | 99.13                       | 100.02 N                             | 163.30 E 191.50@ 58.51            | 0.30              |
| 7170.00                   | 5.80          | 47.71                  | 7151.37     | 89.00                    | 105.28                      | 106.21 N                             | 170.29 E 200.69@ 58.05            | 0.52              |
| 7259.00                   | 5.36          | 47.27                  | 7239.95     | 89.00                    | 111.10                      | 112.05 N                             | 176.67 E 209.21@ 57.61            | 0.50              |
| 7348.00                   | 4.04          | 58.25                  | 7328.65     | 89.00                    | 115.54                      | 116.52 N                             | 182.39 E 216.43@ 57.43            | 1.79              |
| 7438.00                   | 3.08          | 91.29                  | 7418.49     | 90.00                    | 117.12                      | 118.14 N                             | 187.50 E 221.62@ 57.79            | 2.47              |
| 7527.00                   | 2.90          | 100.44                 | 7507.37     | 89.00                    | 116.64                      | 117.68 N                             | 192.11 E 225.28@ 58.51            | 0.57              |
| 7616.00                   | 2.37          | 117.43                 | 7596.27     | 89.00                    | 115.36                      | 116.42 N                             | 195.95 E 227.93@ 59.28            | 1.05              |
| 7706.00                   | 2.29          | 124.97                 | 7686.20     | 90.00                    | 113.45                      | 114.53 N                             | 199.08 E 229.67@ 60.09            | 0.35              |
| 7795.00                   | 2.20          | 122.63                 | 7775.13     | 89.00                    | 111.50                      | 112.59 N                             | 201.97 E 231.24@ 60.86            | 0.14              |
| 7885.00                   | 2.20          | 118.84                 | 7865.06     | 90.00                    | 109.72                      | 110.83 N                             | 204.94 E 232.99@ 61.60            | 0.16              |
| 7974.00                   | 1.93          | 117.58                 | 7954.01     | 89.00                    | 108.18                      | 109.31 N                             | 207.77 E 234.77@ 62.25            | 0.31              |
| 8063.00                   | 2.02          | 115.80                 | 8042.95     | 89.00                    | 106.79                      | 107.93 N                             | 210.51 E 236.57@ 62.85            | 0.12              |
| 8153.00                   | 1.67          | 114.14                 | 8132.91     | 90.00                    | 105.55                      | 106.71 N                             | 213.13 E 238.35@ 63.40            | 0.39              |
| 8242.00                   | 1.32          | 111.73                 | 8221.88     | 89.00                    | 104.63                      | 105.80 N                             | 215.27 E 239.86@ 63.83            | 0.40              |
| 8332.00                   | 1.06          | 101.19                 | 8311.86     | 90.00                    | 104.08                      | 105.25 N                             | 217.05 E 241.22@ 64.13            | 0.38              |
| 8421.00                   | 0.97          | 82.15                  | 8400.84     | 89.00                    | 104.01                      | 105.19 N                             | 218.60 E 242.60@ 64.30            | 0.39              |
| 8599.00                   | 0.70          | 44.36                  | 8578.82     | 178.00                   | 104.98                      | 106.18 N                             | 220.85 E 245.05@ 64.32            | 0.34              |

# PathFinder – a Schlumberger company

## Survey Report

DEVON ENERGY PRODUCTION COMPANY, LP  
COTTON DRAW UNIT 239H  
LEA COUNTY, NM  
API#: 30-015-43270 Rig: PD 608

Page 04/07

| Measured<br>Depth<br>(ft) | Incl<br>(deg) | Drift<br>Dir.<br>(deg) | TVD<br>(ft) | Course<br>Length<br>(ft) | Vertical<br>Section<br>(ft) | TOTAL<br>Rectangular Offsets<br>(ft) | Closure<br>Dist Dir<br>(ft) (deg) | DLS<br>(dg/100ft) |
|---------------------------|---------------|------------------------|-------------|--------------------------|-----------------------------|--------------------------------------|-----------------------------------|-------------------|
| 8689.00                   | 0.35          | 342.40                 | 8668.82     | 90.00                    | 105.63                      | 106.83 N                             | 245.61@ 64.22                     | 0.69              |
| 8778.00                   | 0.62          | 54.20                  | 8757.82     | 89.00                    | 106.17                      | 107.37 N                             | 246.12@ 64.13                     | 0.68              |
| 8867.00                   | 0.97          | 40.05                  | 8846.81     | 89.00                    | 107.03                      | 108.23 N                             | 247.28@ 64.04                     | 0.45              |
| 8956.00                   | 1.49          | 22.25                  | 8935.79     | 89.00                    | 108.67                      | 109.88 N                             | 248.84@ 63.80                     | 0.72              |
| 9135.00                   | 1.76          | 354.02                 | 9114.72     | 179.00                   | 113.55                      | 114.77 N                             | 251.56@ 62.86                     | 0.47              |
| 9224.00                   | 2.02          | 353.00                 | 9203.67     | 89.00                    | 116.47                      | 117.68 N                             | 252.61@ 62.23                     | 0.30              |
| 9314.00                   | 0.97          | 349.01                 | 9293.64     | 90.00                    | 118.80                      | 120.01 N                             | 253.40@ 61.73                     | 1.17              |
| 9493.00                   | 0.44          | 328.41                 | 9472.63     | 179.00                   | 120.87                      | 122.08 N                             | 253.82@ 61.25                     | 0.32              |
| 9582.00                   | 0.44          | 325.19                 | 9561.62     | 89.00                    | 121.45                      | 122.65 N                             | 253.77@ 61.10                     | 0.03              |
| 9671.00                   | 0.09          | 280.88                 | 9650.62     | 89.00                    | 121.74                      | 122.94 N                             | 253.68@ 61.01                     | 0.43              |
| 9761.00                   | 1.06          | 5.64                   | 9740.62     | 90.00                    | 122.58                      | 123.79 N                             | 254.10@ 60.85                     | 1.17              |
| 9785.00                   | 1.23          | 0.28                   | 9764.61     | 24.00                    | 123.06                      | 124.26 N                             | 254.35@ 60.75                     | 0.84              |
| 9875.00                   | 4.48          | 354.83                 | 9854.49     | 90.00                    | 127.53                      | 128.73 N                             | 256.30@ 59.85                     | 3.62              |
| 9919.00                   | 10.38         | 354.63                 | 9898.10     | 44.00                    | 133.20                      | 134.40 N                             | 258.74@ 58.71                     | 13.41             |
| 9964.00                   | 13.89         | 356.21                 | 9942.09     | 45.00                    | 142.63                      | 143.82 N                             | 263.14@ 56.87                     | 7.83              |
| 10008.00                  | 15.92         | 354.85                 | 9984.61     | 44.00                    | 153.92                      | 155.11 N                             | 268.74@ 54.75                     | 4.68              |
| 10053.00                  | 17.41         | 351.29                 | 10027.72    | 45.00                    | 166.73                      | 167.91 N                             | 275.08@ 52.38                     | 4.01              |
| 10098.00                  | 21.90         | 350.45                 | 10070.08    | 45.00                    | 181.68                      | 182.85 N                             | 282.60@ 49.68                     | 10.00             |
| 10143.00                  | 26.73         | 351.51                 | 10111.08    | 45.00                    | 199.99                      | 201.14 N                             | 292.67@ 46.59                     | 10.78             |
| 10187.00                  | 32.36         | 351.99                 | 10149.34    | 44.00                    | 221.47                      | 222.61 N                             | 305.68@ 43.26                     | 12.81             |
| 10232.00                  | 37.81         | 351.72                 | 10186.15    | 45.00                    | 247.08                      | 248.20 N                             | 322.44@ 39.67                     | 12.12             |
| 10277.00                  | 40.54         | 351.67                 | 10221.03    | 45.00                    | 275.23                      | 276.33 N                             | 342.12@ 36.13                     | 6.07              |
| 10321.00                  | 43.35         | 350.75                 | 10253.76    | 44.00                    | 304.31                      | 305.39 N                             | 363.53@ 32.85                     | 6.54              |
| 10366.00                  | 47.75         | 350.16                 | 10285.26    | 45.00                    | 336.01                      | 337.06 N                             | 387.85@ 29.65                     | 9.82              |
| 10411.00                  | 51.53         | 350.28                 | 10314.40    | 45.00                    | 369.83                      | 370.84 N                             | 414.90@ 26.64                     | 8.40              |
| 10500.00                  | 62.78         | 353.67                 | 10362.60    | 89.00                    | 443.81                      | 444.77 N                             | 478.24@ 21.57                     | 13.04             |
| 10533.00                  | 67.53         | 355.97                 | 10376.46    | 33.00                    | 473.64                      | 474.58 N                             | 505.16@ 20.04                     | 15.72             |
| 10545.00                  | 68.68         | 356.02                 | 10380.94    | 12.00                    | 484.75                      | 485.69 N                             | 515.35@ 19.53                     | 9.59              |
| 10589.00                  | 73.60         | 356.59                 | 10395.16    | 44.00                    | 526.30                      | 527.22 N                             | 553.84@ 17.84                     | 11.25             |
| 10634.00                  | 77.03         | 357.38                 | 10406.56    | 45.00                    | 569.77                      | 570.69 N                             | 594.72@ 16.34                     | 7.81              |

# PathFinder – a Schlumberger company

## Survey Report

DEVON ENERGY PRODUCTION COMPANY, LP  
COTTON DRAW UNIT 239H  
LEA COUNTY, NM  
API#: 30-015-43270 Rig: PD 608

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| Measured<br>Depth<br>(ft) | Incl<br>(deg) | Drift<br>Dir.<br>(deg) | TVD<br>(ft) | Course<br>Length<br>(ft) | Vertical<br>Section<br>(ft) | TOTAL<br>Rectangular Offsets<br>(ft) | Closure<br>Dist Dir<br>(ft) (deg) | DLS<br>(dg/100ft) |
|---------------------------|---------------|------------------------|-------------|--------------------------|-----------------------------|--------------------------------------|-----------------------------------|-------------------|
| 10668.00                  | 80.81         | 357.06                 | 10413.10    | 34.00                    | 603.10                      | 604.01 N 165.73 E                    | 626.33@ 15.34                     | 11.16             |
| 10767.00                  | 86.35         | 357.86                 | 10424.16    | 99.00                    | 701.37                      | 702.25 N 161.37 E                    | 720.55@ 12.94                     | 5.65              |
| 10856.00                  | 89.43         | 357.13                 | 10427.44    | 89.00                    | 790.23                      | 791.09 N 157.49 E                    | 806.62@ 11.26                     | 3.56              |
| 10945.00                  | 91.54         | 355.92                 | 10426.69    | 89.00                    | 879.09                      | 879.92 N 152.09 E                    | 892.97@ 9.81                      | 2.73              |
| 11035.00                  | 92.59         | 357.94                 | 10423.44    | 90.00                    | 968.92                      | 969.73 N 147.27 E                    | 980.85@ 8.64                      | 2.53              |
| 11124.00                  | 91.89         | 358.82                 | 10419.96    | 89.00                    | 1057.82                     | 1058.62 N 144.76 E                   | 1068.47@ 7.79                     | 1.26              |
| 11213.00                  | 89.96         | 359.21                 | 10418.53    | 89.00                    | 1146.80                     | 1147.59 N 143.23 E                   | 1156.50@ 7.11                     | 2.21              |
| 11303.00                  | 90.92         | 0.66                   | 10417.84    | 90.00                    | 1236.79                     | 1237.59 N 143.13 E                   | 1245.84@ 6.60                     | 1.93              |
| 11392.00                  | 89.69         | 1.57                   | 10417.36    | 89.00                    | 1325.76                     | 1326.57 N 144.86 E                   | 1334.45@ 6.23                     | 1.72              |
| 11482.00                  | 87.67         | 359.71                 | 10419.44    | 90.00                    | 1415.72                     | 1416.53 N 145.87 E                   | 1424.02@ 5.88                     | 3.05              |
| 11571.00                  | 87.58         | 358.24                 | 10423.12    | 89.00                    | 1504.63                     | 1505.44 N 144.28 E                   | 1512.33@ 5.47                     | 1.65              |
| 11661.00                  | 88.46         | 356.03                 | 10426.23    | 90.00                    | 1594.48                     | 1595.26 N 139.78 E                   | 1601.37@ 5.01                     | 2.64              |
| 11750.00                  | 93.03         | 355.22                 | 10425.08    | 89.00                    | 1683.23                     | 1683.97 N 132.99 E                   | 1689.22@ 4.52                     | 5.21              |
| 11840.00                  | 93.21         | 355.41                 | 10420.18    | 90.00                    | 1772.83                     | 1773.54 N 125.65 E                   | 1777.98@ 4.05                     | 0.29              |
| 11929.00                  | 92.86         | 354.68                 | 10415.47    | 89.00                    | 1861.41                     | 1862.08 N 117.98 E                   | 1865.81@ 3.63                     | 0.91              |
| 12019.00                  | 92.95         | 354.76                 | 10410.91    | 90.00                    | 1950.96                     | 1951.58 N 109.71 E                   | 1954.66@ 3.22                     | 0.13              |
| 12108.00                  | 93.39         | 355.11                 | 10405.98    | 89.00                    | 2039.52                     | 2040.10 N 101.86 E                   | 2042.64@ 2.86                     | 0.63              |
| 12197.00                  | 91.28         | 356.45                 | 10402.36    | 89.00                    | 2128.23                     | 2128.78 N 95.32 E                    | 2130.91@ 2.56                     | 2.81              |
| 12286.00                  | 91.19         | 356.85                 | 10400.44    | 89.00                    | 2217.08                     | 2217.60 N 90.12 E                    | 2219.44@ 2.33                     | 0.46              |
| 12376.00                  | 91.45         | 356.94                 | 10398.37    | 90.00                    | 2306.95                     | 2307.45 N 85.24 E                    | 2309.02@ 2.12                     | 0.31              |
| 12465.00                  | 91.36         | 356.90                 | 10396.18    | 89.00                    | 2395.82                     | 2396.29 N 80.46 E                    | 2397.64@ 1.92                     | 0.11              |
| 12554.00                  | 91.36         | 358.09                 | 10394.07    | 89.00                    | 2484.73                     | 2485.18 N 76.57 E                    | 2486.36@ 1.76                     | 1.34              |
| 12643.00                  | 90.84         | 358.51                 | 10392.36    | 89.00                    | 2573.69                     | 2574.13 N 73.94 E                    | 2575.19@ 1.65                     | 0.75              |
| 12733.00                  | 90.75         | 358.13                 | 10391.11    | 90.00                    | 2663.65                     | 2664.08 N 71.30 E                    | 2665.03@ 1.53                     | 0.43              |
| 12822.00                  | 91.10         | 358.29                 | 10389.68    | 89.00                    | 2752.61                     | 2753.02 N 68.52 E                    | 2753.88@ 1.43                     | 0.43              |
| 12911.00                  | 90.92         | 359.11                 | 10388.11    | 89.00                    | 2841.58                     | 2841.99 N 66.50 E                    | 2842.76@ 1.34                     | 0.94              |
| 13000.00                  | 91.19         | 0.17                   | 10386.47    | 89.00                    | 2930.57                     | 2930.97 N 65.94 E                    | 2931.71@ 1.29                     | 1.23              |
| 13090.00                  | 92.07         | 0.41                   | 10383.91    | 90.00                    | 3020.53                     | 3020.93 N 66.39 E                    | 3021.66@ 1.26                     | 1.01              |
| 13179.00                  | 92.68         | 359.99                 | 10380.22    | 89.00                    | 3109.44                     | 3109.85 N 66.70 E                    | 3110.57@ 1.23                     | 0.83              |
| 13268.00                  | 91.89         | 359.52                 | 10376.67    | 89.00                    | 3198.37                     | 3198.78 N 66.32 E                    | 3199.47@ 1.19                     | 1.03              |

# PathFinder – a Schlumberger company

## Survey Report

DEVON ENERGY PRODUCTION COMPANY, LP  
COTTON DRAW UNIT 239H  
LEA COUNTY, NM  
API#: 30-015-43270 Rig: PD 608

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| Measured<br>Depth<br>(ft) | Incl<br>(deg) | Drift<br>Dir.<br>(deg) | TVD<br>(ft) | Course<br>Length<br>(ft) | Vertical<br>Section<br>(ft) | Rectangular Offsets<br>(ft) | TOTAL<br>(ft) | Closure<br>Dist Dir<br>(ft) (deg) | DLS<br>(dg/100ft) |
|---------------------------|---------------|------------------------|-------------|--------------------------|-----------------------------|-----------------------------|---------------|-----------------------------------|-------------------|
| 13358.00                  | 91.80         | 358.97                 | 10373.78    | 90.00                    | 3288.32                     | 3288.72 N                   | 65.14 E       | 3289.37@ 1.13                     | 0.62              |
| 13447.00                  | 92.07         | 358.61                 | 10370.77    | 89.00                    | 3377.26                     | 3377.65 N                   | 63.26 E       | 3378.25@ 1.07                     | 0.50              |
| 13537.00                  | 91.63         | 357.35                 | 10367.87    | 90.00                    | 3467.17                     | 3467.55 N                   | 60.09 E       | 3468.07@ 0.99                     | 1.48              |
| 13626.00                  | 91.45         | 359.29                 | 10365.47    | 89.00                    | 3556.11                     | 3556.47 N                   | 57.48 E       | 3556.94@ 0.93                     | 2.19              |
| 13716.00                  | 90.75         | 358.28                 | 10363.75    | 90.00                    | 3646.08                     | 3646.43 N                   | 55.57 E       | 3646.86@ 0.87                     | 1.37              |
| 13805.00                  | 91.28         | 358.27                 | 10362.17    | 89.00                    | 3735.04                     | 3735.38 N                   | 52.90 E       | 3735.76@ 0.81                     | 0.60              |
| 13894.00                  | 90.92         | 356.51                 | 10360.46    | 89.00                    | 3823.95                     | 3824.27 N                   | 48.84 E       | 3824.58@ 0.73                     | 2.02              |
| 13984.00                  | 90.92         | 356.75                 | 10359.02    | 90.00                    | 3913.81                     | 3914.10 N                   | 43.55 E       | 3914.34@ 0.64                     | 0.27              |
| 14073.00                  | 90.40         | 356.89                 | 10357.99    | 89.00                    | 4002.69                     | 4002.96 N                   | 38.62 E       | 4003.14@ 0.55                     | 0.60              |
| 14162.00                  | 90.04         | 356.57                 | 10357.65    | 89.00                    | 4091.57                     | 4091.81 N                   | 33.54 E       | 4091.95@ 0.47                     | 0.54              |
| 14252.00                  | 89.78         | 356.95                 | 10357.79    | 90.00                    | 4181.45                     | 4181.67 N                   | 28.45 E       | 4181.76@ 0.39                     | 0.51              |
| 14341.00                  | 89.60         | 356.91                 | 10358.27    | 89.00                    | 4270.35                     | 4270.54 N                   | 23.69 E       | 4270.60@ 0.32                     | 0.21              |
| 14431.00                  | 89.96         | 355.40                 | 10358.62    | 90.00                    | 4360.17                     | 4360.33 N                   | 17.65 E       | 4360.37@ 0.23                     | 1.73              |
| 14520.00                  | 89.43         | 353.56                 | 10359.09    | 89.00                    | 4448.80                     | 4448.91 N                   | 9.09 E        | 4448.92@ 0.12                     | 2.15              |
| 14609.00                  | 88.72         | 354.54                 | 10360.53    | 89.00                    | 4537.36                     | 4537.42 N                   | 0.13 W        | 4537.42@ 360.00                   | 1.36              |
| 14698.00                  | 89.34         | 355.18                 | 10362.03    | 89.00                    | 4626.03                     | 4626.05 N                   | 8.11 W        | 4626.06@ 359.90                   | 1.00              |
| 14787.00                  | 90.84         | 356.07                 | 10361.89    | 89.00                    | 4714.80                     | 4714.79 N                   | 14.89 W       | 4714.81@ 359.82                   | 1.96              |
| 14877.00                  | 91.28         | 356.70                 | 10360.23    | 90.00                    | 4804.63                     | 4804.59 N                   | 20.57 W       | 4804.64@ 359.75                   | 0.85              |
| 14966.00                  | 90.84         | 356.90                 | 10358.58    | 89.00                    | 4893.50                     | 4893.44 N                   | 25.54 W       | 4893.50@ 359.70                   | 0.54              |
| 15055.00                  | 90.31         | 357.38                 | 10357.69    | 89.00                    | 4982.41                     | 4982.32 N                   | 29.98 W       | 4982.41@ 359.66                   | 0.80              |
| 15145.00                  | 91.45         | 357.95                 | 10356.31    | 90.00                    | 5072.34                     | 5072.23 N                   | 33.64 W       | 5072.35@ 359.62                   | 1.42              |
| 15201.00                  | 91.36         | 357.98                 | 10354.93    | 56.00                    | 5128.30                     | 5128.18 N                   | 35.63 W       | 5128.31@ 359.60                   | 0.17              |
| 15261.00                  | 91.36         | 357.98                 | 10353.51    | 60.00                    | 5188.26                     | 5188.13 N                   | 37.74 W       | 5188.27@ 359.58                   | 0.00              |

STRAIGHT LINE PROJECTION TO BIT AT 15261'MD.

# PathFinder – a Schlumberger company

## Survey Report

DEVON ENERGY PRODUCTION COMPANY, LP  
COTTON DRAW UNIT 239H  
LEA COUNTY, NM  
API#: 30-015-43270    Rig: PD 608

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\*\* 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.