



**Reservoir Development**

Drilling & Measurements (Anadrill)

4301 SW 44th St

Oklahoma City, Oklahoma 73119 USA

Phone: (405) 682-2284

Fax: (405) 682-3937

*Record Clean Up*

December 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 242H  
 FIELD: PADUCA; BONE SPRING  
 RIG: PRECISION 608  
 COUNTY: EDDY  
 API NO: 30-015-43274  
 JOB NO: 15MLD2610

Sec 12, T25S, R31E Eddy NM  
 N 32.14429 W 103.73084

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 Surveyor</u>	<u>Drainhole Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
MAGSUD ALIYEV FE2	COTTON DRAW UNIT 242H Original Hole	4369.00 Ft to 17784.00 Ft	November 18, 2015 to December 3, 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

Phone: (405) 682-2284

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**Well Reference:**

Sec 12, T25S, R31E Eddy NM

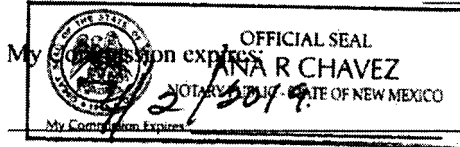
N 32.14429 W 103.73084

I, MAGSUD ALIYEV certify that; I am employed by PathFinder, a division of Schlumberger Technology Corporation; that I did on the day(s) of November 18, 2015 through December 03, 2015, conduct or supervise the taking of the HDS-1L surveys from a depth of 4369.00 feet to a depth of 17784.00 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 242H Well (Original Hole) API No. 30-015-43274 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

12/04/15

Subscribed and Sworn to before me this 4 day of Dec. (month) 2015 (yr)



*Ana R. Chavez*

(signature)

Notary Public

Socorro, New Mexico

(County State)

# PathFinder – a Schlumberger company

## Survey Report

DEVON ENERGY PRODUCTION COMPANY, LP  
 COTTON DRAW UNIT 242H  
 EDDY COUNTY, NM  
 API#: 30-015-43274 RIG: PRECISION 608  
 PathFinder Office Supervisor: QUN XU  
 PathFinder Field Engineers: MAGSUD ALIYEV  
 EMILY MARTIN  
 MICHAEL ZAW

Survey Horiz. Reference: WELLHEAD  
 Ref Coordinates: LAT:32.8.39.4339 N LON:103.43.51.0330 W  
 GRID Reference: NAD83 new mexico east Transverse Mercator  
 Ref GRID Coord: X: 727810.9000 Y: 416748.8500  
 North Aligned To: GRID NORTH  
 Total Magnetic Correction: 6.71° EAST TO GRID  
 Vertical Section Plane: 3.06  
 Survey Vert. Reference: 25.00' Rotary Table To Ground  
 Altitude: 3424.20' Ground To MSL

Survey Calculations by RX5 V7.01B using Minimum Curvature

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	Rectangular Offsets (ft)	TOTAL Angular Offsets (ft)	Closure Dist Dir (ft) (deg)	DLS (dg/100ft)
THE FOLLOWING ARE EXTREME ENGINEERING MWD SURVEYS.									
165.00	0.40	255.49	165.00	0.00	-0.18	0.15 S	0.56 W	0.57@ 255.17	0.00
228.00	0.40	327.52	228.00	63.00	-0.06	0.02 S	0.89 W	0.89@ 268.92	0.75
332.00	0.48	355.90	331.99	104.00	0.66	0.72 N	1.11 W	1.33@ 303.05	0.22
426.00	0.70	358.19	425.99	94.00	1.63	1.69 N	1.16 W	2.05@ 325.57	0.24
519.00	1.01	1.79	518.98	93.00	3.01	3.08 N	1.15 W	3.29@ 339.49	0.34
613.00	1.32	10.71	612.96	94.00	4.91	4.97 N	0.92 W	5.05@ 349.46	0.38
801.00	1.49	358.80	800.90	188.00	9.50	9.54 N	0.57 W	9.56@ 356.56	0.18
894.00	1.32	355.03	893.87	93.00	11.76	11.82 N	0.69 W	11.84@ 356.65	0.21
1079.00	1.01	352.12	1078.84	185.00	15.47	15.55 N	1.10 W	15.59@ 355.96	0.17
1262.00	0.62	352.21	1261.82	183.00	18.03	18.13 N	1.45 W	18.19@ 355.41	0.21
1441.00	0.31	347.99	1440.81	179.00	19.45	19.57 N	1.69 W	19.64@ 355.07	0.17
1620.00	0.09	43.72	1619.81	179.00	20.02	20.14 N	1.69 W	20.21@ 355.20	0.15
1798.00	0.31	45.91	1797.81	178.00	20.48	20.58 N	1.25 W	20.62@ 356.53	0.12
1974.00	0.22	82.92	1973.81	176.00	20.89	20.95 N	0.57 W	20.96@ 358.44	0.11
2153.00	0.22	71.01	2152.81	179.00	21.08	21.11 N	0.10 E	21.11@ 0.26	0.03
2331.00	0.31	117.02	2330.80	178.00	21.01	21.00 N	0.85 E	21.01@ 2.31	0.13
2509.00	0.22	90.91	2508.80	178.00	20.83	20.77 N	1.62 E	20.84@ 4.45	0.08
2688.00	0.22	145.01	2687.80	179.00	20.57	20.49 N	2.16 E	20.60@ 6.02	0.11
2867.00	0.20	111.22	2866.80	179.00	20.20	20.09 N	2.65 E	20.27@ 7.51	0.07
3045.00	0.22	147.30	3044.80	178.00	19.83	19.69 N	3.12 E	19.94@ 9.01	0.07
3224.00	0.31	105.02	3223.80	179.00	19.45	19.28 N	3.78 E	19.64@ 11.08	0.12
3403.00	0.22	105.11	3402.79	179.00	19.28	19.06 N	4.57 E	19.60@ 13.50	0.05
3581.00	0.22	82.51	3580.79	178.00	19.27	19.02 N	5.24 E	19.73@ 15.41	0.05
3763.00	0.62	115.30	3762.79	182.00	18.96	18.64 N	6.48 E	19.74@ 19.17	0.25

# PathFinder – a Schlumberger company

## Survey Report

DEVON ENERGY PRODUCTION COMPANY, LP  
 COTTON DRAW UNIT 242H  
 EDDY COUNTY, NM  
 API#: 30-015-43274      Rig: PRECISION 608

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft)	Closure Dist Dir (ft) (deg)	DLS (dg/100ft)
3942.00	0.88	128.79	3941.77	179.00	17.79	17.37 N 8.43 E	19.30@ 25.88	0.17
4120.00	1.49	136.70	4119.73	178.00	15.40	14.83 N 11.08 E	18.51@ 36.77	0.35
4210.00	1.10	127.92	4209.71	90.00	14.10	13.44 N 12.56 E	18.40@ 43.06	0.49
** TIED INTO EXTREME ENGINEERING MWD SURVEY AT 4284'MD.								
4284.00	0.88	135.83	4283.70	74.00	13.30	12.60 N 13.52 E	18.48@ 47.02	0.35
THE FOLLOWING ARE SCHLUMBERGER MWD SURVEYS.								
4369.00	0.79	130.81	4368.69	85.00	12.50	11.75 N 14.42 E	18.60@ 50.82	0.14
4458.00	0.62	134.38	4457.68	89.00	11.81	11.01 N 15.23 E	18.79@ 54.13	0.20
4548.00	0.62	116.85	4547.68	90.00	11.29	10.45 N 16.01 E	19.12@ 56.86	0.21
4637.00	0.88	92.75	4636.67	89.00	11.10	10.20 N 17.12 E	19.93@ 59.22	0.45
4726.00	1.76	89.10	4725.65	89.00	11.20	10.19 N 19.17 E	21.71@ 62.01	0.99
4815.00	1.93	90.82	4814.60	89.00	11.35	10.19 N 22.04 E	24.28@ 65.19	0.20
4905.00	2.55	93.49	4904.53	90.00	11.39	10.05 N 25.55 E	27.45@ 68.54	0.70
4994.00	2.99	91.04	4993.43	89.00	11.46	9.88 N 29.85 E	31.44@ 71.68	0.51
5083.00	3.08	86.29	5082.30	89.00	11.83	10.00 N 34.55 E	35.97@ 73.87	0.30
5173.00	3.17	90.28	5172.17	90.00	12.23	10.14 N 39.45 E	40.74@ 75.59	0.26
5262.00	4.48	89.47	5260.97	89.00	12.57	10.16 N 45.39 E	46.51@ 77.38	1.47
5352.00	5.45	84.67	5350.63	90.00	13.41	10.59 N 53.16 E	54.21@ 78.73	1.17
5441.00	5.28	82.48	5439.24	89.00	14.78	11.52 N 61.43 E	62.50@ 79.38	0.30
5530.00	4.92	83.28	5527.89	89.00	16.18	12.50 N 69.28 E	70.40@ 79.77	0.41
5619.00	4.92	82.16	5616.56	89.00	17.55	13.47 N 76.85 E	78.02@ 80.06	0.11
5708.00	4.92	81.36	5705.23	89.00	19.05	14.56 N 84.41 E	85.65@ 80.21	0.08
5798.00	5.36	77.80	5794.87	90.00	20.94	16.03 N 92.33 E	93.71@ 80.15	0.60
5887.00	5.01	84.50	5883.51	89.00	22.61	17.28 N 100.26 E	101.74@ 80.22	0.79
5976.00	4.75	84.60	5972.18	89.00	23.73	18.00 N 107.80 E	109.29@ 80.52	0.29
6065.00	4.66	84.30	6060.88	89.00	24.82	18.71 N 115.06 E	116.57@ 80.77	0.10
6155.00	4.66	85.44	6150.59	90.00	25.86	19.36 N 122.35 E	123.87@ 81.01	0.10
6244.00	4.57	88.01	6239.30	89.00	26.65	19.77 N 129.49 E	130.99@ 81.32	0.25
6333.00	5.45	87.51	6327.96	89.00	27.38	20.08 N 137.26 E	138.72@ 81.68	0.99
6423.00	5.45	88.63	6417.55	90.00	28.12	20.36 N 145.80 E	147.22@ 82.05	0.12
6512.00	5.80	89.47	6506.12	89.00	28.73	20.51 N 154.52 E	155.88@ 82.44	0.40

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 COTTON DRAW UNIT 242H  
 EDDY COUNTY, NM  
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Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft)	Closure Dist Dir (ft)	DLS (dg/100ft)
6601.00	5.36	83.10	6594.70	89.00	29.73	21.05 N 163.15 E	164.50@ 82.65	0.85
6691.00	5.19	82.98	6684.32	90.00	31.17	22.05 N 171.36 E	172.77@ 82.67	0.19
6780.00	4.84	88.05	6772.98	89.00	32.20	22.67 N 179.11 E	180.54@ 82.79	0.63
6870.00	4.40	88.12	6862.69	90.00	32.83	22.91 N 186.35 E	187.76@ 82.99	0.49
6959.00	4.92	79.05	6951.39	89.00	34.05	23.75 N 193.51 E	194.97@ 83.00	1.01
7048.00	5.19	77.88	7040.05	89.00	36.02	25.32 N 201.20 E	202.78@ 82.83	0.32
7138.00	4.75	78.26	7129.71	90.00	38.04	26.93 N 208.83 E	210.55@ 82.65	0.49
7227.00	5.72	80.42	7218.34	89.00	39.95	28.42 N 216.81 E	218.66@ 82.53	1.11
7316.00	5.45	82.40	7306.91	89.00	41.71	29.72 N 225.37 E	227.32@ 82.49	0.37
7406.00	5.19	83.79	7396.53	90.00	43.15	30.72 N 233.65 E	235.66@ 82.51	0.32
7495.00	4.75	87.86	7485.19	89.00	44.13	31.30 N 241.34 E	243.36@ 82.61	0.63
7585.00	4.57	79.38	7574.90	90.00	45.32	32.10 N 248.58 E	250.65@ 82.64	0.79
7674.00	4.66	79.71	7663.61	89.00	46.99	33.40 N 255.63 E	257.80@ 82.56	0.10
7763.00	4.48	80.55	7752.32	89.00	48.58	34.61 N 262.61 E	264.88@ 82.49	0.22
7853.00	4.66	77.48	7842.04	90.00	50.32	35.98 N 269.65 E	272.04@ 82.40	0.34
7942.00	4.31	75.11	7930.77	89.00	52.33	37.63 N 276.41 E	278.96@ 82.25	0.45
8032.00	4.75	77.04	8020.48	90.00	54.40	39.33 N 283.31 E	286.03@ 82.10	0.52
8121.00	5.28	84.11	8109.14	89.00	56.05	40.58 N 290.97 E	293.79@ 82.06	0.91
8211.00	4.92	85.32	8198.79	90.00	57.22	41.32 N 298.94 E	301.78@ 82.13	0.42
8300.00	5.63	86.00	8287.41	89.00	58.27	41.93 N 307.10 E	309.95@ 82.22	0.80
8389.00	5.54	83.71	8375.99	89.00	59.50	42.71 N 315.72 E	318.60@ 82.30	0.27
8478.00	4.66	82.76	8464.63	89.00	60.84	43.63 N 323.58 E	326.51@ 82.32	0.99
8568.00	4.75	80.53	8554.33	90.00	62.31	44.71 N 330.88 E	333.89@ 82.31	0.23
8657.00	5.10	78.22	8643.00	89.00	64.12	46.12 N 338.39 E	341.52@ 82.24	0.45
8746.00	6.24	95.49	8731.57	89.00	64.93	46.47 N 347.08 E	350.18@ 82.37	2.29
8835.00	5.98	100.48	8820.07	89.00	64.12	45.16 N 356.45 E	359.30@ 82.78	0.66
8925.00	5.10	95.32	8909.65	90.00	63.36	43.94 N 365.05 E	367.68@ 83.14	1.12
9014.00	3.96	95.26	8998.37	89.00	63.09	43.29 N 372.04 E	374.55@ 83.36	1.28
9103.00	2.81	89.07	9087.21	89.00	63.12	43.04 N 377.29 E	379.73@ 83.49	1.35
9193.00	2.02	100.64	9177.13	90.00	63.06	42.78 N 381.05 E	383.45@ 83.59	1.03

# PathFinder – a Schlumberger company

## Survey Report

DEVON ENERGY PRODUCTION COMPANY, LP  
 COTTON DRAW UNIT 242H  
 EDDY COUNTY, NM  
 API#: 30-015-43274      Rig: PRECISION 608

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft)	Closure Dist Dir (ft)	DLS (dg/100ft)
9282.00	1.58	75.07	9266.09	89.00	63.24	42.81 N 383.78 E	386.16@ 83.63	1.02
9371.00	1.06	62.83	9355.06	89.00	64.03	43.50 N 385.70 E	388.14@ 83.56	0.66
9460.00	0.88	79.89	9444.05	89.00	64.60	44.00 N 387.10 E	389.59@ 83.52	0.38
9573.00	0.88	102.80	9557.04	113.00	64.65	43.96 N 388.80 E	391.29@ 83.55	0.31
9663.00	1.58	349.95	9647.03	90.00	65.74	45.03 N 389.26 E	391.86@ 83.40	2.32
9708.00	5.98	351.43	9691.92	45.00	68.64	47.96 N 388.80 E	391.75@ 82.97	9.78
9752.00	10.20	357.34	9735.47	44.00	74.77	54.12 N 388.28 E	392.03@ 82.07	9.76
9797.00	13.72	3.93	9779.49	45.00	84.07	63.43 N 388.46 E	393.60@ 80.73	8.38
9842.00	17.67	7.59	9822.80	45.00	96.22	75.53 N 389.73 E	396.98@ 79.03	9.04
9886.00	19.87	7.68	9864.46	44.00	110.33	89.56 N 391.61 E	401.72@ 77.12	5.00
9931.00	21.10	4.10	9906.61	45.00	126.06	105.22 N 393.21 E	407.05@ 75.02	3.90
9976.00	24.53	2.69	9948.09	45.00	143.50	122.63 N 394.23 E	412.86@ 72.72	7.72
10020.00	28.14	3.36	9987.52	44.00	163.02	142.12 N 395.27 E	420.04@ 70.22	8.23
10065.00	31.48	5.38	10026.56	45.00	185.38	164.42 N 396.99 E	429.69@ 67.50	7.75
10110.00	35.00	5.02	10064.19	45.00	210.02	188.98 N 399.22 E	441.69@ 64.67	7.83
10154.00	39.13	6.06	10099.29	44.00	236.51	215.37 N 401.79 E	455.87@ 61.81	9.49
10199.00	43.09	5.65	10133.19	45.00	266.06	244.80 N 404.81 E	473.07@ 58.84	8.82
10244.00	47.22	4.32	10164.92	45.00	297.94	276.57 N 407.57 E	492.55@ 55.84	9.41
10288.00	50.91	2.67	10193.74	44.00	331.17	309.74 N 409.58 E	513.51@ 52.90	8.85
10333.00	53.64	2.83	10221.27	45.00	366.76	345.29 N 411.29 E	537.01@ 49.99	6.07
10377.00	57.16	2.57	10246.25	44.00	402.97	381.47 N 412.99 E	562.21@ 47.27	8.01
10422.00	62.26	1.44	10268.94	45.00	441.80	420.28 N 414.34 E	590.18@ 44.59	11.54
10467.00	66.48	0.12	10288.41	45.00	482.33	460.84 N 414.88 E	620.08@ 42.00	9.74
10512.00	69.20	358.90	10305.38	45.00	523.92	502.51 N 414.52 E	651.42@ 39.52	6.55
10556.00	71.14	358.24	10320.30	44.00	565.19	543.89 N 413.49 E	683.22@ 37.24	4.63
10601.00	72.55	356.75	10334.33	45.00	607.74	586.60 N 411.62 E	716.61@ 35.06	4.44
10645.00	74.39	356.02	10346.84	44.00	649.63	628.70 N 408.96 E	750.01@ 33.04	4.47
10690.00	75.53	355.95	10358.52	45.00	692.76	672.05 N 405.91 E	785.12@ 31.13	2.54
10735.00	77.65	356.68	10368.96	45.00	736.23	715.73 N 403.10 E	821.44@ 29.39	4.97
10780.00	81.43	356.72	10377.13	45.00	780.20	759.90 N 400.55 E	859.01@ 27.79	8.40

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 COTTON DRAW UNIT 242H  
 EDDY COUNTY, NM  
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10824.00	84.50	357.01	10382.51	44.00	823.61	803.50 N 398.17 E	896.74@ 26.36	7.01
10869.00	88.11	358.53	10385.41	45.00	868.32	848.36 N 396.42 E	936.41@ 25.05	8.70
10914.00	91.45	0.11	10385.59	45.00	913.21	893.35 N 395.89 E	977.14@ 23.90	8.21
10958.00	92.42	359.96	10384.10	44.00	957.12	937.33 N 395.91 E	1017.51@ 22.90	2.23
11048.00	91.01	359.79	10381.41	90.00	1046.94	1027.28 N 395.72 E	1100.87@ 21.07	1.58
11137.00	89.96	359.99	10380.65	89.00	1135.80	1116.28 N 395.55 E	1184.29@ 19.51	1.20
11226.00	89.60	359.03	10381.00	89.00	1224.63	1205.27 N 394.79 E	1268.28@ 18.14	1.15
11316.00	89.78	359.49	10381.48	90.00	1314.43	1295.26 N 393.62 E	1353.75@ 16.90	0.55
11406.00	89.43	0.72	10382.10	90.00	1404.31	1385.26 N 393.79 E	1440.14@ 15.87	1.42
11495.00	89.96	1.02	10382.58	89.00	1493.24	1474.25 N 395.14 E	1526.28@ 15.00	0.68
11584.00	90.22	1.58	10382.44	89.00	1582.20	1563.23 N 397.16 E	1612.89@ 14.26	0.69
11673.00	90.40	1.45	10381.96	89.00	1671.16	1652.19 N 399.51 E	1699.81@ 13.59	0.25
11763.00	91.80	1.47	10380.23	90.00	1761.11	1742.14 N 401.80 E	1787.88@ 12.99	1.56
11852.00	90.31	1.05	10378.59	89.00	1850.05	1831.11 N 403.76 E	1875.09@ 12.43	1.74
11942.00	90.66	1.35	10377.83	90.00	1940.00	1921.08 N 405.65 E	1963.44@ 11.92	0.51
12031.00	89.43	1.45	10377.76	89.00	2028.96	2010.05 N 407.82 E	2051.01@ 11.47	1.39
12121.00	89.52	1.09	10378.58	90.00	2118.91	2100.03 N 409.82 E	2139.64@ 11.04	0.41
12210.00	89.34	0.20	10379.47	89.00	2207.83	2189.02 N 410.82 E	2227.23@ 10.63	1.02
12299.00	89.34	0.59	10380.49	89.00	2296.72	2278.01 N 411.43 E	2314.86@ 10.24	0.44
12389.00	89.60	0.38	10381.33	90.00	2386.63	2368.00 N 412.19 E	2403.61@ 9.87	0.37
12478.00	89.96	0.83	10381.67	89.00	2475.55	2457.00 N 413.13 E	2491.49@ 9.54	0.65
12567.00	90.31	0.57	10381.46	89.00	2564.47	2545.99 N 414.22 E	2579.46@ 9.24	0.49
12657.00	91.98	0.39	10379.66	90.00	2654.36	2635.96 N 414.97 E	2668.43@ 8.95	1.87
12746.00	90.13	0.69	10378.02	89.00	2743.25	2724.94 N 415.81 E	2756.48@ 8.68	2.11
12835.00	89.34	0.47	10378.43	89.00	2832.17	2813.93 N 416.71 E	2844.62@ 8.42	0.92
12924.00	90.31	359.83	10378.70	89.00	2921.05	2902.93 N 416.95 E	2932.72@ 8.17	1.31
13013.00	89.60	358.64	10378.77	89.00	3009.85	2991.92 N 415.76 E	3020.67@ 7.91	1.56
13103.00	90.31	358.54	10378.84	90.00	3099.58	3081.89 N 413.54 E	3109.52@ 7.64	0.80
13192.00	88.81	358.32	10379.53	89.00	3188.28	3170.86 N 411.10 E	3197.40@ 7.39	1.70
13281.00	89.60	359.00	10380.76	89.00	3277.01	3259.82 N 409.02 E	3285.38@ 7.15	1.17

# PathFinder – a Schlumberger company

## Survey Report

DEVON ENERGY PRODUCTION COMPANY, LP  
 COTTON DRAW UNIT 242H  
 EDDY COUNTY, NM  
 API#: 30-015-43274    Rig: PRECISION 608

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft)	Closure Dist Dir (ft) (deg)	DLS (dg/100ft)
13370.00	90.84	359.57	10380.42	89.00	3365.81	3348.81 N 407.91 E	3373.56@ 6.94	1.53
13479.00	91.71	359.99	10378.00	109.00	3474.60	3457.78 N 407.49 E	3481.71@ 6.72	0.89
13568.00	90.66	359.31	10376.15	89.00	3563.43	3546.76 N 406.95 E	3570.03@ 6.55	1.41
13657.00	90.57	359.73	10375.20	89.00	3652.25	3635.75 N 406.21 E	3658.37@ 6.37	0.48
13746.00	90.75	359.78	10374.17	89.00	3741.10	3724.75 N 405.82 E	3746.79@ 6.22	0.21
13836.00	89.78	358.80	10373.76	90.00	3830.90	3814.74 N 404.71 E	3836.14@ 6.06	1.53
13925.00	89.52	357.61	10374.30	89.00	3919.58	3903.69 N 401.92 E	3924.32@ 5.88	1.37
14014.00	90.40	356.35	10374.36	89.00	4008.07	3992.56 N 397.23 E	4012.27@ 5.68	1.73
14103.00	91.10	355.44	10373.20	89.00	4096.37	4081.32 N 390.86 E	4100.00@ 5.47	1.29
14193.00	92.33	355.53	10370.51	90.00	4185.54	4171.00 N 383.78 E	4188.62@ 5.26	1.37
14282.00	93.14	354.39	10366.26	89.00	4273.55	4259.56 N 375.97 E	4276.12@ 5.04	1.57
14371.00	92.47	354.75	10361.90	89.00	4361.47	4348.05 N 367.56 E	4363.56@ 4.83	0.85
14461.00	90.67	355.36	10359.44	90.00	4450.56	4437.68 N 359.81 E	4452.24@ 4.64	2.11
14550.00	90.50	355.92	10358.53	89.00	4538.81	4526.41 N 353.04 E	4540.16@ 4.46	0.66
14639.00	90.34	357.83	10357.88	89.00	4627.28	4615.28 N 348.19 E	4628.39@ 4.31	2.15
14729.00	88.71	357.79	10358.62	90.00	4716.90	4705.20 N 344.75 E	4717.82@ 4.19	1.81
14818.00	89.10	357.47	10360.32	89.00	4805.48	4794.11 N 341.07 E	4806.23@ 4.07	0.57
14908.00	89.10	359.18	10361.74	90.00	4895.16	4884.06 N 338.44 E	4895.77@ 3.96	1.90
14997.00	89.61	0.28	10362.74	89.00	4984.00	4973.05 N 338.02 E	4984.52@ 3.89	1.36
15086.00	90.39	0.30	10362.74	89.00	5072.90	5062.05 N 338.47 E	5073.35@ 3.83	0.88
15176.00	88.93	359.72	10363.27	90.00	5162.77	5152.04 N 338.49 E	5163.15@ 3.76	1.75
15265.00	91.45	1.76	10362.98	89.00	5251.68	5241.02 N 339.64 E	5252.02@ 3.71	3.64
15354.00	91.55	2.57	10360.65	89.00	5340.64	5329.93 N 343.00 E	5340.95@ 3.68	0.92
15444.00	90.83	2.41	10358.78	90.00	5430.61	5419.82 N 346.91 E	5430.91@ 3.66	0.82
15533.00	90.04	1.67	10358.10	89.00	5519.60	5508.76 N 350.07 E	5519.88@ 3.64	1.22
15623.00	89.54	1.02	10358.43	90.00	5609.55	5598.74 N 352.19 E	5609.80@ 3.60	0.91
15712.00	89.16	1.08	10359.44	89.00	5698.50	5687.72 N 353.82 E	5698.71@ 3.56	0.43
15781.00	89.04	0.52	10360.53	69.00	5767.43	5756.70 N 354.78 E	5767.62@ 3.53	0.83
15819.00	88.90	0.64	10361.21	38.00	5805.39	5794.69 N 355.16 E	5805.57@ 3.51	0.49
15909.00	86.70	0.69	10364.66	90.00	5895.24	5884.62 N 356.21 E	5895.39@ 3.46	2.44



# PathFinder – a Schlumberger company

## Survey Report

DEVON ENERGY PRODUCTION COMPANY, LP  
 COTTON DRAW UNIT 242H  
 EDDY COUNTY, NM  
 API#: 30-015-43274    Rig: PRECISION 608

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft)	Closure Dist Dir (ft) (deg)	DLS (dg/100ft)
15998.00	87.58	0.53	10369.11	89.00	5984.05	5973.50 N 357.15 E	5984.17@ 3.42	1.00
16087.00	87.41	1.91	10373.00	89.00	6072.91	6062.39 N 359.05 E	6073.01@ 3.39	1.56
16177.00	87.85	2.13	10376.72	90.00	6162.82	6152.26 N 362.22 E	6162.91@ 3.37	0.55
16266.00	87.93	2.58	10379.99	89.00	6251.76	6241.12 N 365.87 E	6251.84@ 3.36	0.51
16356.00	88.29	2.84	10382.96	90.00	6341.70	6330.97 N 370.13 E	6341.78@ 3.35	0.49
16445.00	88.90	3.18	10385.14	89.00	6430.68	6419.82 N 374.80 E	6430.75@ 3.34	0.78
16534.00	88.11	2.55	10387.47	89.00	6519.64	6508.68 N 379.24 E	6519.72@ 3.33	1.14
16624.00	88.72	2.56	10389.96	90.00	6609.61	6598.56 N 383.25 E	6609.68@ 3.32	0.68
16713.00	88.99	3.16	10391.73	89.00	6698.59	6687.43 N 387.69 E	6698.66@ 3.32	0.74
16802.00	88.20	3.40	10393.92	89.00	6787.56	6776.25 N 392.79 E	6787.63@ 3.32	0.93
16891.00	88.90	3.76	10396.17	89.00	6876.53	6865.05 N 398.34 E	6876.60@ 3.32	0.88
16980.00	88.20	3.52	10398.42	89.00	6965.49	6953.84 N 403.99 E	6965.57@ 3.32	0.83
17070.00	88.81	4.17	10400.77	90.00	7055.45	7043.61 N 410.02 E	7055.53@ 3.33	0.99
17159.00	88.81	3.55	10402.62	89.00	7144.42	7132.39 N 416.01 E	7144.51@ 3.34	0.70
17248.00	88.46	2.18	10404.74	89.00	7233.40	7221.25 N 420.46 E	7233.48@ 3.33	1.59
17338.00	88.46	1.96	10407.16	90.00	7323.35	7311.16 N 423.71 E	7323.42@ 3.32	0.24
17427.00	88.46	2.25	10409.55	89.00	7412.31	7400.06 N 426.98 E	7412.37@ 3.30	0.33
17516.00	89.96	2.62	10410.77	89.00	7501.29	7488.97 N 430.76 E	7501.35@ 3.29	1.74
17605.00	90.04	1.29	10410.77	89.00	7590.27	7577.92 N 433.79 E	7590.32@ 3.28	1.50
17694.00	90.22	1.14	10410.57	89.00	7679.22	7666.90 N 435.68 E	7679.27@ 3.25	0.26
17784.00	90.57	1.11	10409.95	90.00	7769.17	7756.88 N 437.45 E	7769.20@ 3.23	0.39
17847.00	90.57	1.11	10409.33	63.00	7832.13	7819.86 N 438.67 E	7832.16@ 3.21	0.00

STRAIGHT LINE PROJECTION TO BIT AT 17847MD.

\*\* 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.