



Reservoir Development
Drilling & Measurements (Anadrill)
4301 SW 44th St
Oklahoma City, Oklahoma 73119 USA
Phone: (405) 682-2284
Fax: (405) 682-3937

NM OIL CONSERVATION
ARTESIA DISTRICT

September 1, 2015

AUG 23 2016

DEVON ENERGY PRODUCTION COMPANY, LP
333 W Sheridan Ave
Oklahoma City, OK 73102

RECEIVED

Re:

Sec 13, T25S, R31E Eddy NM
N 32.13698 W 103.73371

CLIENT: DEVON ENERGY PRODUCTION COMPANY, LP
WELL: COTTON DRAW UNIT 241H
FIELD: PADUCA; BONE SPRING
RIG: H&P 223
COUNTY: EDDY
API NO: 30-015-43220
JOB NO: 15MLD2240

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 & Title of Surveyor</u>	<u>Drainhole Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
ROSELEIGH TAYLOR FEI	COTTON DRAW UNIT 241H Original Hole	865.00 Ft to 15255.00 Ft	August 19, 2015 to August 31, 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
Drilling & Measurements (Anadrill)
4301 SW 44th St
Oklahoma City, Oklahoma 73119 USA
Phone: (405) 682-2284
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Well Reference:

Sec 13, T25S, R31E Eddy NM
N 32.13698 W 103.73371

I, ROSELEIGH TAYLOR certify that; I am employed by PathFinder, a division of Schlumberger Technology Corporation; that I did on the day(s) of August 19, 2015 through August 31, 2015, conduct or supervise the taking of the HDS-1L surveys from a depth of 865.00 feet to a depth of 15255.00 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 241H Well (Original Hole) API No. 30-015-43220 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
ROSELEIGH TAYLOR
FEI



Subscribed and Sworn to before me this 9th day of September (month) 2015 (yr)

My Commission expires:

September 5, 2016



Michelle Ellwood
Notary Public

(signature)

Midland, TX
(County State)

PathFinder -- a Schlumberger company

Survey Report

DEVON ENERGY PRODUCTION COMPANY, LP
COTTON DRAW UNIT 241H
EDDY COUNTY, NM
API#: 30-015-43220 Rlg: H&P 223
PathFinder Office Supervisor: QUN XU
PathFinder Field Engineers: R.TAYLOR
MIDLAND CC
J. YEE

Survey Horiz. Reference: WELLHEAD
Ref Coordinates: LAT:32.8.13.1390 N LON:103.44.1.3627 W
GRID Reference:NAD83 new mexico east Transverse Mercator
Ref GRID Coord: X: 726937.6067 Y: 414086.7667
North Aligned To: GRID NORTH
Total Magnetic Correction: 6.74° EAST TO GRID
Vertical Section Plane: 358.37
Survey Vert. Reference: 25.00' Drill Floor To Ground
Altitude:3399.40' Ground To MSL

Survey Calculations by RX4 using Minimum Curvature

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	Rectangular Offsets (ft)	TOTAL (ft)	Closure Dist (ft)	DLS (dg/100ft)
THE FOLLOWING ARE EXTREME MWD SURVEYS.									
198.00	0.40	66.24	198.00	0.00	0.46	0.46 N	0.02 W	0.46@ 357.06	0.00
232.00	0.20	79.74	232.00	34.00	0.51	0.51 N	0.14 E	0.53@ 15.61	0.62
259.00	0.22	45.14	259.00	27.00	0.55	0.56 N	0.23 E	0.60@ 22.08	0.47
321.00	0.09	333.34	321.00	62.00	0.68	0.69 N	0.29 E	0.74@ 22.85	0.34
413.00	0.88	281.04	413.00	92.00	0.90	0.89 N	0.44 W	0.99@ 333.78	0.90
502.00	1.19	279.94	501.98	89.00	1.23	1.18 N	2.02 W	2.34@ 300.25	0.35
581.00	1.32	271.55	580.96	79.00	1.45	1.34 N	3.74 W	3.97@ 289.78	0.28
** TIED INTO EXTREME MWD SURVEYS AT 680' MD.									
680.00	1.19	260.83	679.94	99.00	1.38	1.21 N	5.89 W	6.01@ 281.61	0.27
THE FOLLOWING ARE SCHLUMBERGER MWD SURVEYS.									
865.00	0.53	250.28	864.92	185.00	0.86	0.62 N	8.59 W	8.61@ 274.10	0.36
955.00	0.44	252.16	954.91	90.00	0.63	0.37 N	9.31 W	9.32@ 272.27	0.10
1045.00	0.35	247.28	1044.91	90.00	0.44	0.16 N	9.90 W	9.90@ 270.91	0.11
1139.00	0.53	253.09	1138.91	94.00	0.22	0.08 S	10.58 W	10.58@ 269.56	0.20
1234.00	0.35	248.16	1233.91	95.00	0.00	0.32 S	11.27 W	11.27@ 268.39	0.19
1328.00	0.44	230.42	1327.91	94.00	-0.32	0.65 S	11.81 W	11.83@ 266.83	0.16
1422.00	0.44	211.43	1421.90	94.00	-0.84	1.19 S	12.28 W	12.33@ 264.46	0.15
1516.00	0.35	249.70	1515.90	94.00	-1.24	1.60 S	12.73 W	12.83@ 262.84	0.29
1610.00	0.26	176.06	1609.90	94.00	-1.54	1.91 S	12.99 W	13.13@ 261.63	0.40
1705.00	0.26	164.45	1704.90	95.00	-1.97	2.33 S	12.92 W	13.13@ 259.76	0.06
1799.00	0.26	125.26	1798.90	94.00	-2.30	2.66 S	12.68 W	12.96@ 258.15	0.19
1894.00	0.18	107.51	1893.90	95.00	-2.48	2.83 S	12.37 W	12.69@ 257.10	0.11
1988.00	0.26	100.33	1987.90	94.00	-2.57	2.91 S	12.02 W	12.36@ 256.37	0.09
2083.00	0.35	75.15	2082.89	95.00	-2.55	2.88 S	11.52 W	11.88@ 255.97	0.17
2177.00	0.35	98.84	2176.89	94.00	-2.54	2.85 S	10.96 W	11.33@ 255.43	0.15

PathFinder – a Schlumberger company

Survey Report

DEVON ENERGY PRODUCTION COMPANY, LP
COTTON DRAW UNIT 241H
EDDY COUNTY, NM
API#: 30-015-43220 Rig: H&P 223

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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) (deg)	DLS (dg/100ft)
2271.00	0.35	94.57	2270.89	94.00	-2.62	2.92 S 10.39 W	10.79@ 254.33	0.03
2366.00	0.26	91.86	2365.89	95.00	-2.66	2.95 S 9.89 W	10.32@ 253.41	0.10
2460.00	0.35	70.97	2459.89	94.00	-2.59	2.86 S 9.40 W	9.83@ 253.09	0.15
2555.00	0.26	81.98	2554.89	95.00	-2.48	2.73 S 8.92 W	9.33@ 252.95	0.11
2649.00	0.26	85.42	2648.89	94.00	-2.45	2.69 S 8.49 W	8.91@ 252.43	0.02
2744.00	0.09	81.38	2743.89	95.00	-2.43	2.66 S 8.20 W	8.62@ 252.04	0.18
2838.00	0.09	34.77	2837.89	94.00	-2.36	2.59 S 8.09 W	8.49@ 252.26	0.08
2933.00	0.18	57.37	2932.89	95.00	-2.22	2.45 S 7.92 W	8.29@ 252.84	0.11
3027.00	0.09	30.33	3026.88	94.00	-2.08	2.30 S 7.76 W	8.09@ 253.47	0.12
3122.00	0.18	359.48	3121.88	95.00	-1.87	2.09 S 7.72 W	8.00@ 254.86	0.12
3216.00	0.18	29.69	3215.88	94.00	-1.59	1.81 S 7.65 W	7.86@ 256.66	0.10
3310.00	0.18	48.92	3309.88	94.00	-1.38	1.59 S 7.47 W	7.63@ 257.99	0.06
3405.00	0.18	36.54	3404.88	95.00	-1.16	1.37 S 7.26 W	7.39@ 259.32	0.04
3499.00	0.18	41.73	3498.88	94.00	-0.94	1.14 S 7.08 W	7.17@ 260.84	0.02
3594.00	0.26	35.21	3593.88	95.00	-0.66	0.85 S 6.85 W	6.91@ 262.90	0.09
3688.00	0.26	54.02	3687.88	94.00	-0.37	0.55 S 6.56 W	6.58@ 265.17	0.09
3782.00	0.35	87.79	3781.88	94.00	-0.24	0.42 S 6.10 W	6.11@ 266.08	0.21
3877.00	0.35	88.46	3876.88	95.00	-0.24	0.40 S 5.52 W	5.53@ 265.87	0.00
3971.00	0.44	110.28	3970.88	94.00	-0.38	0.52 S 4.89 W	4.92@ 263.98	0.19
4066.00	0.62	139.47	4065.87	95.00	-0.91	1.03 S 4.22 W	4.34@ 256.23	0.34
4160.00	0.70	136.60	4159.87	94.00	-1.74	1.84 S 3.49 W	3.95@ 242.26	0.09
4248.00	0.44	145.65	4247.86	88.00	-2.42	2.51 S 2.93 W	3.86@ 229.48	0.31
4350.00	0.09	160.44	4349.86	102.00	-2.83	2.91 S 2.68 W	3.96@ 222.74	0.35
4444.00	0.09	173.92	4443.86	94.00	-2.97	3.05 S 2.65 W	4.04@ 221.02	0.02
4539.00	0.09	255.23	4538.86	95.00	-3.06	3.14 S 2.72 W	4.15@ 220.85	0.12
4633.00	0.09	214.95	4632.86	94.00	-3.14	3.22 S 2.83 W	4.29@ 221.30	0.07
4728.00	0.09	187.56	4727.86	95.00	-3.27	3.36 S 2.88 W	4.42@ 220.66	0.05
4822.00	0.18	176.40	4821.86	94.00	-3.49	3.58 S 2.88 W	4.59@ 218.87	0.10

PathFinder – a Schlumberger company

Survey Report

DEVON ENERGY PRODUCTION COMPANY, LP
COTTON DRAW UNIT 241H
EDDY COUNTY, NM
API#: 30-015-43220 Rig: H&P 223

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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) (deg)	DLS (dg/100ft)
4917.00	0.18	143.12	4916.86	95.00	-3.76	3.84 S 2.78 W	4.75@ 215.91	0.11
5011.00	1.23	273.29	5010.85	94.00	-3.80	3.91 S 3.70 W	5.38@ 223.48	1.44
5106.00	3.25	267.99	5105.78	95.00	-3.73	3.94 S 7.41 W	8.40@ 242.00	2.14
5200.00	5.01	268.88	5199.53	94.00	-3.71	4.11 S 14.18 W	14.76@ 253.82	1.87
5294.00	4.84	268.47	5293.18	94.00	-3.67	4.30 S 22.25 W	22.66@ 259.06	0.19
5388.00	4.66	267.56	5386.86	94.00	-3.71	4.57 S 30.03 W	30.37@ 261.35	0.21
5483.00	4.57	265.52	5481.55	95.00	-3.96	5.03 S 37.66 W	37.99@ 262.39	0.20
5577.00	4.31	264.28	5575.27	94.00	-4.39	5.67 S 44.90 W	45.26@ 262.80	0.30
5671.00	4.13	264.82	5669.01	94.00	-4.86	6.33 S 51.79 W	52.17@ 263.03	0.20
5766.00	5.28	265.87	5763.69	95.00	-5.26	6.96 S 59.56 W	59.96@ 263.34	1.21
5860.00	5.54	263.63	5857.27	94.00	-5.82	7.77 S 68.38 W	68.82@ 263.52	0.36
5955.00	5.19	263.45	5951.86	95.00	-6.57	8.77 S 77.21 W	77.70@ 263.52	0.37
6049.00	5.19	263.03	6045.47	94.00	-7.33	9.77 S 85.65 W	86.20@ 263.49	0.04
6144.00	4.92	263.90	6140.10	95.00	-8.05	10.72 S 93.97 W	94.58@ 263.49	0.30
6238.00	5.10	278.06	6233.75	94.00	-7.66	10.57 S 102.11 W	102.66@ 264.09	1.33
6333.00	4.75	276.81	6328.39	95.00	-6.37	9.51 S 110.20 W	110.61@ 265.07	0.39
6427.00	4.92	277.43	6422.06	94.00	-5.16	8.53 S 118.06 W	118.37@ 265.87	0.19
6522.00	4.92	275.65	6516.71	95.00	-4.01	7.60 S 126.15 W	126.38@ 266.55	0.16
6616.00	3.34	271.68	6610.46	94.00	-3.34	7.12 S 132.90 W	133.09@ 266.93	1.71
6711.00	1.93	293.15	6705.36	95.00	-2.51	6.41 S 137.14 W	137.29@ 267.32	1.79
6805.00	0.88	21.42	6799.34	94.00	-1.18	5.12 S 138.33 W	138.42@ 267.88	2.23
6900.00	0.97	46.78	6894.33	95.00	0.03	3.89 S 137.48 W	137.53@ 268.38	0.44
6994.00	0.97	41.76	6988.31	94.00	1.13	2.75 S 136.37 W	136.40@ 268.85	0.09
7088.00	0.79	59.28	7082.30	94.00	2.03	1.82 S 135.28 W	135.29@ 269.23	0.34
7182.00	0.70	60.34	7176.30	94.00	2.61	1.21 S 134.23 W	134.23@ 269.48	0.10
7277.00	0.18	23.70	7271.29	95.00	3.02	0.78 S 133.66 W	133.66@ 269.66	0.60
7372.00	0.88	93.75	7366.29	95.00	3.08	0.70 S 132.87 W	132.87@ 269.70	0.88
7465.00	0.97	98.22	7459.28	93.00	2.88	0.85 S 131.38 W	131.38@ 269.63	0.12

PathFinder – a Schlumberger company

Survey Report

DEVON ENERGY PRODUCTION COMPANY, LP
COTTON DRAW UNIT 241H
EDDY COUNTY, NM
AP#: 30-015-43220 Rig: H&P 223

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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) (deg)	DLS (dg/100ft)
7560.00	0.88	97.00	7554.26	95.00	2.64	1.06 S 129.86 W	129.87@ 269.53	0.10
7654.00	0.88	95.98	7648.25	94.00	2.43	1.22 S 128.43 W	128.43@ 269.46	0.02
7749.00	0.88	111.32	7743.24	95.00	2.05	1.56 S 127.02 W	127.03@ 269.30	0.25
7844.00	0.70	117.21	7838.23	95.00	1.49	2.09 S 125.83 W	125.84@ 269.05	0.21
7938.00	0.53	112.94	7932.23	94.00	1.03	2.53 S 124.91 W	124.94@ 268.84	0.19
8032.00	0.53	97.55	8026.22	94.00	0.78	2.75 S 124.08 W	124.11@ 268.73	0.15
8127.00	0.53	77.28	8121.22	95.00	0.79	2.71 S 123.22 W	123.25@ 268.74	0.20
8221.00	0.44	92.13	8215.22	94.00	0.85	2.63 S 122.43 W	122.46@ 268.77	0.16
8316.00	0.35	63.71	8310.21	95.00	0.95	2.52 S 121.81 W	121.84@ 268.82	0.22
8410.00	0.35	37.79	8404.21	94.00	1.29	2.16 S 121.38 W	121.40@ 268.98	0.17
8505.00	0.70	25.48	8499.21	95.00	2.03	1.41 S 120.95 W	120.96@ 269.33	0.38
8599.00	1.06	8.77	8593.20	94.00	3.40	0.03 S 120.57 W	120.57@ 269.99	0.47
8693.00	0.44	359.85	8687.19	94.00	4.61	1.19 N 120.44 W	120.44@ 270.57	0.67
8787.00	0.44	22.65	8781.19	94.00	5.30	1.88 N 120.30 W	120.31@ 270.90	0.19
8881.00	1.49	39.98	8875.17	94.00	6.55	3.15 N 119.38 W	119.42@ 271.51	1.15
8976.00	1.85	45.10	8970.13	95.00	8.52	5.18 N 117.50 W	117.61@ 272.53	0.41
9070.00	1.06	22.38	9064.10	94.00	10.36	7.06 N 116.09 W	116.30@ 273.48	1.03
9165.00	0.44	11.33	9159.09	95.00	11.51	8.23 N 115.68 W	115.98@ 274.07	0.67
9259.00	0.09	169.71	9253.09	94.00	11.79	8.51 N 115.60 W	115.91@ 274.21	0.56
9353.00	0.44	143.42	9347.09	94.00	11.42	8.15 N 115.37 W	115.66@ 274.04	0.38
9448.00	0.62	117.08	9442.09	95.00	10.88	7.62 N 114.70 W	114.95@ 273.80	0.31
9543.00	0.35	82.77	9537.08	95.00	10.66	7.42 N 113.95 W	114.19@ 273.73	0.41
9637.00	0.79	56.44	9631.08	94.00	11.03	7.82 N 113.13 W	113.40@ 273.95	0.53
9732.00	0.79	31.20	9726.07	95.00	11.93	8.74 N 112.24 W	112.58@ 274.45	0.36
9769.00	0.79	6.46	9763.07	37.00	12.39	9.21 N 112.08 W	112.46@ 274.70	0.92
9850.00	4.48	345.11	9843.97	81.00	16.03	12.82 N 112.83 W	113.56@ 276.48	4.64
9882.00	8.27	350.64	9875.76	32.00	19.53	16.30 N 113.53 W	114.69@ 278.17	11.98
9913.00	11.17	351.60	9906.32	31.00	24.72	21.47 N 114.33 W	116.33@ 280.64	9.37

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9945.00	13.28	354.15	9937.59	32.00	31.46	28.20 N	118.56@ 283.76	6.80
9990.00	16.71	359.10	9981.05	45.00	43.09	39.81 N	122.44@ 288.98	8.13
10039.00	20.84	2.58	10027.44	49.00	58.83	55.57 N	128.17@ 295.69	8.73
10084.00	24.36	4.63	10068.97	45.00	76.05	72.82 N	135.60@ 302.48	8.01
10133.00	27.35	1.29	10113.07	49.00	97.34	94.15 N	147.33@ 309.72	6.78
10178.00	32.18	357.81	10152.12	45.00	119.66	116.48 N	162.67@ 315.73	11.40
10228.00	37.28	355.95	10193.20	50.00	148.12	144.91 N	185.07@ 321.53	10.42
10273.00	42.47	357.68	10227.73	45.00	176.95	173.70 N	209.27@ 326.10	11.79
10322.00	47.48	0.48	10262.38	49.00	211.56	208.31 N	239.03@ 330.63	10.99
10367.00	52.76	0.91	10291.22	45.00	246.05	242.83 N	269.46@ 334.31	11.76
10417.00	57.60	0.22	10319.77	50.00	287.06	283.86 N	306.80@ 337.70	9.75
10462.00	63.40	359.89	10341.92	45.00	326.19	323.01 N	343.34@ 340.19	12.90
10511.00	68.94	358.72	10361.71	49.00	370.99	367.81 N	385.95@ 342.37	11.52
10556.00	72.98	358.32	10376.38	45.00	413.52	410.33 N	426.96@ 343.95	9.02
10581.00	74.39	358.34	10383.41	25.00	437.51	434.31 N	450.25@ 344.71	5.64
10638.00	77.82	357.40	10397.09	57.00	492.83	489.60 N	504.27@ 346.14	6.23
10693.00	80.28	356.72	10407.54	55.00	546.81	543.52 N	557.38@ 347.19	4.63
10738.00	84.15	356.52	10413.63	45.00	591.37	588.02 N	601.40@ 347.89	8.61
10787.00	87.41	357.41	10417.24	49.00	640.21	636.81 N	649.70@ 348.57	6.90
10882.00	88.72	357.70	10420.45	95.00	735.15	731.67 N	743.62@ 349.71	1.41
10976.00	89.25	357.97	10422.11	94.00	829.13	825.58 N	836.77@ 350.62	0.63
11071.00	91.63	358.17	10421.38	95.00	924.12	920.52 N	931.04@ 351.38	2.51
11165.00	94.00	358.84	10416.77	94.00	1018.00	1014.37 N	1024.26@ 352.03	2.62
11259.00	94.53	358.88	10409.77	94.00	1111.73	1108.09 N	1117.39@ 352.60	0.57
11354.00	93.83	359.49	10402.85	95.00	1206.47	1202.83 N	1211.56@ 353.12	0.98
11448.00	92.68	358.85	10397.51	94.00	1300.31	1296.66 N	1304.92@ 353.55	1.40
11543.00	89.78	359.14	10395.47	95.00	1395.27	1391.62 N	1399.49@ 353.92	3.07
11637.00	90.40	358.99	10395.33	94.00	1489.26	1485.60 N	1493.13@ 354.24	0.68

PathFinder – a Schlumberger company

Survey Report

DEVON ENERGY PRODUCTION COMPANY, LP
COTTON DRAW UNIT 241H
EDDY COUNTY, NM
AP#: 30-015-43220 Rig: H&P 223

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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) (deg)	DLS (dg/100ft)
11732.00	91.10	359.73	10394.08	95.00	1584.24	1580.59 N 150.85 W	1587.77@ 354.55	1.07
11826.00	91.98	359.63	10391.56	94.00	1678.18	1674.55 N 151.38 W	1681.38@ 354.83	0.94
11921.00	90.66	0.13	10389.37	95.00	1773.12	1769.52 N 151.57 W	1776.00@ 355.10	1.49
12015.00	91.45	0.82	10387.64	94.00	1867.04	1863.50 N 150.80 W	1869.59@ 355.37	1.12
12109.00	90.48	0.67	10386.05	94.00	1960.94	1957.48 N 149.57 W	1963.19@ 355.63	1.04
12204.00	90.92	0.65	10384.89	95.00	2055.86	2052.47 N 148.48 W	2057.83@ 355.86	0.46
12298.00	91.36	0.65	10383.02	94.00	2149.77	2146.44 N 147.41 W	2151.50@ 356.07	0.47
12393.00	91.80	0.46	10380.40	95.00	2244.66	2241.40 N 146.49 W	2246.18@ 356.26	0.50
12487.00	91.71	0.59	10377.53	94.00	2338.55	2335.35 N 145.63 W	2339.89@ 356.43	0.17
12582.00	92.07	0.67	10374.39	95.00	2433.42	2430.29 N 144.59 W	2434.59@ 356.60	0.39
12676.00	91.71	0.04	10371.29	94.00	2527.32	2524.24 N 144.01 W	2528.35@ 356.73	0.77
12770.00	91.63	0.75	10368.55	94.00	2621.22	2618.20 N 143.36 W	2622.12@ 356.87	0.76
12865.00	91.10	0.63	10366.29	95.00	2716.11	2713.16 N 142.21 W	2716.89@ 357.00	0.57
12959.00	91.45	0.62	10364.20	94.00	2810.01	2807.13 N 141.19 W	2810.68@ 357.12	0.37
13054.00	92.07	0.77	10361.28	95.00	2904.89	2902.08 N 140.04 W	2905.46@ 357.24	0.67
13148.00	90.57	0.02	10359.11	94.00	2998.80	2996.05 N 139.39 W	2999.29@ 357.34	1.78
13242.00	90.75	359.74	10358.03	94.00	3092.77	3090.05 N 139.59 W	3093.20@ 357.41	0.35
13336.00	91.45	359.74	10356.23	94.00	3186.72	3184.03 N 140.01 W	3187.10@ 357.48	0.74
13431.00	91.98	359.92	10353.38	95.00	3281.65	3278.98 N 140.30 W	3281.98@ 357.55	0.59
13525.00	90.31	359.27	10351.51	94.00	3375.60	3372.96 N 140.96 W	3375.90@ 357.61	1.91
13619.00	90.40	359.51	10350.92	94.00	3469.59	3466.95 N 141.96 W	3469.86@ 357.66	0.27
13714.00	90.40	359.39	10350.26	95.00	3564.57	3561.95 N 142.87 W	3564.81@ 357.70	0.13
13808.00	90.92	359.36	10349.18	94.00	3658.55	3655.93 N 143.90 W	3658.76@ 357.75	0.55
13903.00	91.28	359.51	10347.35	95.00	3753.51	3750.91 N 144.83 W	3753.71@ 357.79	0.41
13997.00	91.28	359.58	10345.25	94.00	3847.47	3844.88 N 145.58 W	3847.64@ 357.83	0.08
14092.00	91.01	358.99	10343.36	95.00	3942.44	3939.86 N 146.77 W	3942.59@ 357.87	0.68
14186.00	90.92	359.12	10341.77	94.00	4036.42	4033.83 N 148.32 W	4036.56@ 357.89	0.17
14281.00	91.28	359.35	10339.95	95.00	4131.39	4128.80 N 149.58 W	4131.51@ 357.93	0.45

PathFinder – a Schlumberger company

Survey Report

DEVON ENERGY PRODUCTION COMPANY, LP
COTTON DRAW UNIT 241H
EDDY COUNTY, NM
API#: 30-015-43220 Rig: H&P 223

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Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	Rectangular Offsets (ft)	Closure Dist Dir (ft) (deg)	DLS (dg/100ft)
14376.00	88.99	359.27	10339.73	95.00	4226.37	4223.79 N 150.73 W	4226.48@ 357.96	2.41
14470.00	88.72	359.08	10341.60	94.00	4320.34	4317.76 N 152.08 W	4320.44@ 357.98	0.35
14565.00	88.55	359.20	10343.87	95.00	4415.31	4412.73 N 153.51 W	4415.39@ 358.01	0.22
14660.00	88.29	359.56	10346.49	95.00	4510.25	4507.68 N 154.53 W	4510.33@ 358.04	0.47
14754.00	88.55	359.74	10349.08	94.00	4604.19	4601.64 N 155.11 W	4604.26@ 358.07	0.34
14849.00	90.31	0.09	10350.02	95.00	4699.15	4696.64 N 155.25 W	4699.20@ 358.11	1.89
14943.00	90.57	0.19	10349.30	94.00	4793.10	4790.63 N 155.02 W	4793.14@ 358.15	0.30
15038.00	91.36	0.37	10347.70	95.00	4888.04	4885.62 N 154.56 W	4888.06@ 358.19	0.85
15132.00	91.63	0.24	10345.25	94.00	4981.95	4979.58 N 154.06 W	4981.97@ 358.23	0.32
15226.00	91.63	0.57	10342.57	94.00	5075.85	5073.54 N 153.39 W	5075.86@ 358.27	0.35
15255.00	91.36	0.56	10341.82	29.00	5104.82	5102.53 N 153.11 W	5104.83@ 358.28	0.93
STRAIGHT LINE PROJECTION TO BIT AT 15312' MD.								
15312.00	91.36	0.56	10340.47	57.00	5161.77	5159.51 N 152.55 W	5161.77@ 358.31	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.