CONFIDENTIAL

Form 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE *– Other instructions on page 2*

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5. Lease Serial No.	BHL: NMLC061862
6. If Indian, Allottee or Tribe Name	
7. If Unit of CA Agreement, Name and/or No.	
1. Type of Well: ☑ Oil Well ☐ Gas Well ☐ Other	8. Well Name and No.: Cotton Draw Unit 179H
2. Name of Operator: Devon Energy Production Company, L.P.	9. API Well No.: 30-015-43738
3a. Address: 333 West Sheridan, Oklahoma City, OK 73102	3b. Phone No. *(include area code)*: 405-228-8148
4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)*: 330' FNL & 1980' FEL Unit B, Sec 13, T25S, R31E; 221' FSL & 2010' FEL Unit O, Sec 13, T25S, R31E; PP: 336' FNL & 1965' FEL	10. Field and Pool or Exploratory Area: Cotton Draw; Delaware, South
	11. Country or Parish, State: Eddy, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☑ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☑ Other Completion Report
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

1/17/2017 - 4/16/2017: MIRU WL & PT. TIH & ran Isolation Scanner/CBL, found ETOC @ 3650'. TIH w/pump through frac plug and guns. Perf Delaware, '8379' - 12,797', total 472 holes. Frac'd Delaware @ 8379' - 12,797' in 20 stages. Frac totals 1134 gals acid, 4,552,000# prop. ND frac, MIRU PU, NU BOP, DO plugs & CO to FC @ 12,858' '. CHC, FWB, ND BOP. RIH w/254 jts 2-7/8" L-80 tbg, set @ 8063'. TOP.

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14. I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)*: Linda Good	Title: Regulatory Specialist
Signature: Linda Good	Date: 5/31/2017

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

Pending BLM approvals will subsequently be reviewed and scanned

Cordero, Gilbert, EMNRD

From: Good, Linda <Linda.Good@dvn.com>
Sent: Tuesday, June 27, 2017 7:23 AM
To: Cordero, Gilbert, EMNRD
Subject: FW: [EXTERNAL] CDU #179H

Let me know if this will work.

Linda Good
Regulatory Compliance Specialist
Devon Energy Corporation
Devon Energy Center-Tower - OKDEC 30.328
333 West Sheridan Avenue Oklahoma City OK 73102-5015
405-552-6558
linda.good@dvn.com

From: Good, Linda
Sent: Tuesday, June 27, 2017 6:14 AM
To: Klein, Ranell, EMNRD <Ranell.Klein@state.nm.us>
Subject: RE: [EXTERNAL] CDU #179H

Rusty,

Here is the test report from WellView. Will this work along with the chart?

Rpt# 3, 1/18/2017 05:00 - 1/19/2017 05:00

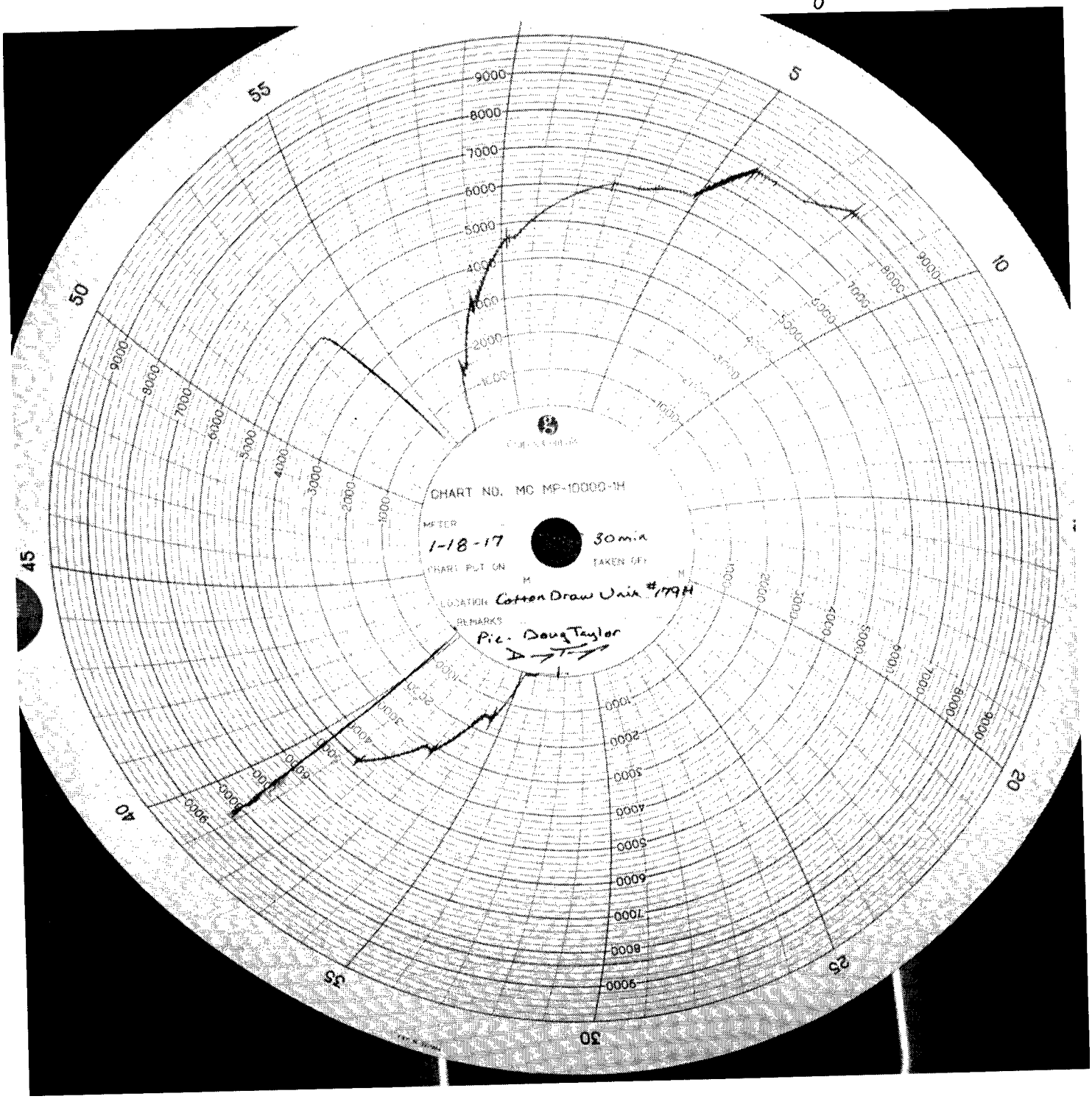
Daily Cost (Cost)	Cum Field Est To Date (Cost)	24 Hour Summary
	$60,837	MIRU PMP TRKS. OPEN TOE SLEEVE. PMPD 10 BBLS ACID.

Start Time	End Time	Dur (hr)	Ops Status	Operation	Description
05:00	07:30	2.50	ACTIVE	SHUTDOWN	SI
07:30	08:00	0.50	ACTIVE	SAFETY	PJSM
08:00	13:00	5.00	ACTIVE	RIGU	MIRU PMP TRKS; RU MINON TANK.
13:00	16:00	3.00	ACTIVE	TST	TSTD LINES GOOD TO 9000 PSI. WH 0 PSI. PRESS'D GOOD TO 4 INCREMENTS 15 MINS; BLED DN. PRESS'D GOOD TO 8500 PSI; 3 PRESS'D SLOWLY TO 8500 PSI; HOLDING; BLED DN. PRES'D TO HOLDING; BLED DN. PRES'D TO 8100 PSI; 1.4 BPM; HOLDING; BL 8100 PSI; 3.5 BPM; HOLDING; BLED DN. PRESS'D TO 8100 PSI; 5 I DN. PRESS'D TO 8100 PSI; 2 BPM; HOLDING; BLED DN BY SURGI 5212 PSI; 2 BPM; TOE SLEEVE OPENED.

Thank you,

Linda Good
Regulatory Compliance Specialist
Devon Energy Corporation
Devon Energy Center-Tower - OKDEC 30.328
333 West Sheridan Avenue Oklahoma City OK 73102-5015

Devon Energy
CDU 179H
5½" Csg Pressure test



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LEAM
Drilling Systems LLC

Survey Certification Form

State of New Mexico
Eddy County

I, Randy W. Rakowitz, certify that; I am employed by LEAM Drilling Systems LLC, that I did on the day(s) of November 17, 2016 through November 24, 2016, conduct or supervise the taking of MWD Survey from a depth of 0' MD to 12,947' MD; that the data is true, correct, complete and within the limitations of the tools as set forth by LEAM Drilling Systems LLC, that I am authorized and qualified to make this report; that this survey was conducted at the request of Devon Energy Corporation for the Cotton Draw Unit 179H in Eddy County, New Mexico; and that I reviewed this report and find that it conforms to the principals and procedures as set forth by LEAM Drilling Systems LLC.

Randy W. Rakowitz
MWD Operations Coordinator

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LEAM Drilling Systems LLC

Survey Report

Company:	Devon Energy	**Local Co-ordinate Reference:**	Well 179H
Project:	Eddy County, NM (NAD-83)	**TVD Reference:**	3401.4' GL + 23.5' KB @ 3424.90usft
Site:	Cotton Draw Unit	**MD Reference:**	3401.4' GL + 23.5' KB @ 3424.90usft
Well:	179H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 5000.1 Multi User Db

Project	Eddy County, NM (NAD-83)		
Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Cotton Draw Unit				
Site Position:		**Northing:**	419,194.51 usft	**Latitude:**	32° 9' 3.901 N
From:	Map	**Easting:**	722,955.98 usft	**Longitude:**	103° 44' 47.345 W
Position Uncertainty:	0.00 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.31 °

Well	179H					
Well Position	**+N/-S**	0.00 usft	**Northing:**	413,981.38 usft	**Latitude:**	32° 8' 12.022 N
	+E/-W	0.00 usft	**Easting:**	728,272.24 usft	**Longitude:**	103° 43' 45.848 W
Position Uncertainty		0.00 usft	**Wellhead Elevation:**	3,424.90 usft	**Ground Level:**	3,401.40 usft

Wellbore	OH				
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	HDGM	11/04/16	6.92	59.88	48,107

Design	OH					
Audit Notes:						
Version:	1.0	**Phase:**	ACTUAL	**Tie On Depth:**		0.00
Vertical Section:	**Depth From (TVD) (usft)**	**+N/-S (usft)**	**+E/-W (usft)**	**Direction (°)**		
	0.00	0.00	0.00	180.07		

Survey Program **Date** 12/01/16

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
154.00	12,842.00	Survey #1 (OH)	LEAM MWD+HDGM	MWD+HDGM
12,947.00	12,947.00	Survey #2 (OH)	Project	Projection

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
154.00	0.30	221.20	154.00	-0.30	-0.27	0.30	0.19	0.19	0.00
218.00	0.20	238.50	218.00	-0.49	-0.47	0.49	0.19	-0.16	27.03
274.00	0.20	322.30	274.00	-0.46	-0.61	0.46	0.48	0.00	149.64
370.00	0.10	22.70	370.00	-0.25	-0.68	0.25	0.18	-0.10	62.92
455.00	0.50	21.20	455.00	0.16	-0.52	-0.16	0.47	0.47	-1.76
557.00	0.40	15.20	556.99	0.92	-0.27	-0.92	0.11	-0.10	-5.88
645.00	0.60	40.40	644.99	1.57	0.11	-1.57	0.33	0.23	28.64
675.00	0.50	20.50	674.99	1.81	0.26	-1.81	0.71	-0.33	-66.33
796.00	0.30	31.00	795.99	2.58	0.61	-2.58	0.18	-0.17	8.68

LEAM Drilling Systems LLC

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Well:	179H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 5000.1 Multi User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
980.00	0.40	329.10	979.98	3.54	0.53	-3.54	0.20	0.05	-33.64
1,164.00	0.30	320.90	1,163.98	4.47	-0.11	-4.47	0.06	-0.05	-4.46
1,347.00	0.20	296.60	1,346.98	4.98	-0.70	-4.98	0.08	-0.05	-13.28
1,539.00	0.00	304.10	1,538.98	5.13	-1.00	-5.13	0.10	-0.10	0.00
1,730.00	0.10	196.70	1,729.98	4.97	-1.04	-4.97	0.05	0.05	0.00
1,921.00	0.20	127.20	1,920.98	4.61	-0.83	-4.61	0.10	0.05	-36.39
2,112.00	0.10	115.20	2,111.98	4.34	-0.41	-4.34	0.05	-0.05	-6.28
2,304.00	0.10	96.10	2,303.98	4.25	-0.09	-4.25	0.02	0.00	-9.95
2,495.00	0.20	133.20	2,494.98	4.00	0.32	-4.00	0.07	0.05	19.42
2,686.00	0.20	124.00	2,685.97	3.59	0.84	-3.59	0.02	0.00	-4.82
2,877.00	0.40	163.80	2,876.97	2.76	1.30	-2.76	0.15	0.10	20.84
3,069.00	0.40	169.00	3,068.97	1.46	1.61	-1.46	0.02	0.00	2.71
3,260.00	0.70	104.20	3,259.96	0.52	2.87	-0.52	0.34	0.16	-33.93
3,451.00	0.60	106.40	3,450.95	-0.05	4.96	0.04	0.05	-0.05	1.15
3,642.00	0.40	123.30	3,641.94	-0.70	6.48	0.69	0.13	-0.10	8.85
3,833.00	0.80	120.40	3,832.93	-1.74	8.19	1.73	0.21	0.21	-1.52
4,025.00	1.20	128.30	4,024.90	-3.66	10.92	3.65	0.22	0.21	4.11
4,216.00	1.50	131.30	4,215.85	-6.55	14.37	6.54	0.16	0.16	1.57
4,292.00	1.30	131.10	4,291.82	-7.78	15.77	7.76	0.26	-0.26	-0.26
4,407.00	0.70	129.50	4,406.81	-9.08	17.29	9.06	0.52	-0.52	-1.39
4,502.00	0.70	143.00	4,501.80	-9.91	18.09	9.89	0.17	0.00	14.21
4,598.00	0.70	45.10	4,597.79	-9.97	18.86	9.94	1.10	0.00	-101.98
4,693.00	1.20	36.10	4,692.78	-8.75	19.85	8.73	0.55	0.53	-9.47
4,789.00	2.00	21.40	4,788.74	-6.38	21.06	6.36	0.93	0.83	-15.31
4,884.00	1.70	26.60	4,883.69	-3.58	22.29	3.55	0.36	-0.32	5.47
4,980.00	2.60	18.10	4,979.63	-0.24	23.61	0.21	0.99	0.94	-8.85
5,076.00	2.90	14.60	5,075.51	4.18	24.90	-4.21	0.36	0.31	-3.65
5,171.00	3.80	6.90	5,170.35	9.63	25.88	-9.67	1.06	0.95	-8.11
5,267.00	4.00	3.80	5,266.13	16.13	26.48	-16.17	0.30	0.21	-3.23
5,363.00	4.70	359.80	5,361.85	23.41	26.69	-23.44	0.79	0.73	-4.17
5,458.00	5.30	357.00	5,456.49	31.68	26.45	-31.71	0.68	0.63	-2.95
5,554.00	6.00	355.60	5,552.02	41.11	25.83	-41.14	0.74	0.73	-1.46
5,650.00	6.70	357.70	5,647.43	51.71	25.22	-51.74	0.77	0.73	2.19
5,745.00	6.90	359.10	5,741.77	62.95	24.91	-62.98	0.27	0.21	1.47
5,841.00	6.90	357.70	5,837.07	74.48	24.59	-74.51	0.18	0.00	-1.46
5,936.00	6.30	359.80	5,931.44	85.40	24.34	-85.43	0.68	-0.63	2.21
6,032.00	6.20	355.40	6,026.87	95.83	23.91	-95.86	0.51	-0.10	-4.58
6,128.00	5.50	352.40	6,122.37	105.56	22.88	-105.59	0.80	-0.73	-3.13
6,223.00	5.20	356.00	6,216.96	114.37	21.98	-114.39	0.47	-0.32	3.79
6,319.00	5.90	0.10	6,312.51	123.64	21.68	-123.67	0.84	0.73	4.27
6,414.00	5.80	2.40	6,407.01	133.32	21.89	-133.34	0.27	-0.11	2.42
6,510.00	5.70	4.50	6,502.53	142.92	22.47	-142.94	0.24	-0.10	2.19
6,605.00	5.50	6.30	6,597.08	152.15	23.34	-152.17	0.28	-0.21	1.89

LEAM Drilling Systems LLC

Survey Report

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Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 5000.1 Multi User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
6,701.00	5.00	3.20	6,692.67	160.90	24.08	-160.92	0.60	-0.52	-3.23
6,797.00	5.40	8.10	6,788.28	169.54	24.95	-169.57	0.62	0.42	5.10
6,892.00	5.00	8.70	6,882.89	178.06	26.21	-178.09	0.42	-0.42	0.63
6,988.00	4.70	14.50	6,978.54	186.01	27.82	-186.04	0.60	-0.31	6.04
7,083.00	4.20	7.40	7,073.26	193.22	29.25	-193.26	0.78	-0.53	-7.47
7,178.00	3.80	4.50	7,168.03	199.81	29.94	-199.85	0.47	-0.42	-3.05
7,274.00	3.00	4.10	7,263.86	205.49	30.37	-205.53	0.83	-0.83	-0.42
7,370.00	2.90	5.50	7,359.73	210.41	30.78	-210.45	0.13	-0.10	1.46
7,465.00	2.80	11.40	7,454.61	215.08	31.47	-215.12	0.33	-0.11	6.21
7,561.00	2.60	13.60	7,550.51	219.49	32.45	-219.53	0.23	-0.21	2.29
7,624.00	2.30	20.40	7,613.45	222.07	33.22	-222.11	0.66	-0.48	10.79
7,705.00	0.40	200.80	7,694.43	223.33	33.69	-223.37	3.33	-2.35	-221.73
7,753.00	6.70	183.80	7,742.31	220.37	33.44	-220.41	13.16	13.13	-35.42
7,801.00	13.50	182.00	7,789.54	211.97	33.06	-212.01	14.18	14.17	-3.75
7,848.00	20.80	181.00	7,834.42	198.12	32.73	-198.16	15.54	15.53	-2.13
7,896.00	27.30	181.50	7,878.23	178.58	32.29	-178.62	13.55	13.54	1.04
7,944.00	32.10	180.50	7,919.91	154.81	31.89	-154.85	10.05	10.00	-2.08
7,992.00	37.10	181.90	7,959.41	127.57	31.30	-127.61	10.55	10.42	2.92
8,039.00	42.40	182.40	7,995.54	97.55	30.16	-97.58	11.30	11.28	1.06
8,087.00	46.70	181.70	8,029.73	63.90	28.97	-63.94	9.02	8.96	-1.46
8,135.00	50.90	181.50	8,061.34	27.81	27.96	-27.84	8.76	8.75	-0.42
8,176.89	53.95	180.01	8,086.89	-5.38	27.53	5.35	7.82	7.29	-3.56
330' HL Crossing: 8176.89' MD / 8086.89' TVD									
8,183.00	54.40	179.80	8,090.46	-10.34	27.54	10.30	7.82	7.31	-3.40
8,231.00	59.40	179.20	8,116.67	-50.53	27.90	50.50	10.47	10.42	-1.25
8,279.00	65.10	179.60	8,139.01	-92.99	28.34	92.96	11.90	11.88	0.83
8,327.00	69.90	179.80	8,157.37	-137.33	28.57	137.29	10.01	10.00	0.42
8,374.00	76.10	180.50	8,171.11	-182.25	28.45	182.21	13.27	13.19	1.49
8,413.00	81.50	181.70	8,178.68	-220.48	27.71	220.45	14.17	13.85	3.08
8,445.00	84.40	181.50	8,182.60	-252.23	26.82	252.19	9.08	9.06	-0.63
8,541.00	88.90	179.60	8,188.21	-348.03	25.91	348.00	5.09	4.69	-1.98
8,636.00	88.80	179.40	8,190.12	-443.01	26.73	442.97	0.24	-0.11	-0.21
8,732.00	87.80	179.10	8,192.97	-538.96	27.99	538.92	1.09	-1.04	-0.31
8,828.00	91.00	183.10	8,193.97	-634.90	26.15	634.87	5.34	3.33	4.17
8,923.00	90.80	181.50	8,192.48	-729.81	22.34	729.78	1.70	-0.21	-1.68
9,019.00	90.90	181.30	8,191.06	-825.77	19.99	825.74	0.23	0.10	-0.21
9,114.00	89.40	180.30	8,190.81	-920.76	18.66	920.73	1.90	-1.58	-1.05
9,210.00	88.40	179.60	8,192.65	-1,016.74	18.75	1,016.71	1.27	-1.04	-0.73
9,305.00	86.50	179.40	8,196.88	-1,111.63	19.58	1,111.61	2.01	-2.00	-0.21
9,401.00	86.70	179.40	8,202.57	-1,207.46	20.58	1,207.43	0.21	0.21	0.00
9,496.00	87.80	179.80	8,207.13	-1,302.35	21.24	1,302.32	1.23	1.16	0.42
9,592.00	88.10	178.90	8,210.56	-1,398.28	22.33	1,398.25	0.99	0.31	-0.94
9,688.00	88.50	181.20	8,213.41	-1,494.23	22.25	1,494.20	2.43	0.42	2.40

LEAM Drilling Systems LLC

Survey Report

Company:	Devon Energy	**Local Co-ordinate Reference:**	Well 179H
Project:	Eddy County, NM (NAD-83)	**TVD Reference:**	3401.4' GL + 23.5' KB @ 3424.90usft
Site:	Cotton Draw Unit	**MD Reference:**	3401.4' GL + 23.5' KB @ 3424.90usft
Well:	179H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 5000.1 Multi User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,784.00	89.40	182.00	8,215.17	-1,590.17	19.57	1,590.15	1.25	0.94	0.83
9,879.00	88.20	180.80	8,217.16	-1,685.12	17.25	1,685.10	1.79	-1.26	-1.26
9,975.00	88.30	179.20	8,220.09	-1,781.07	17.25	1,781.05	1.67	0.10	-1.67
10,071.00	88.90	179.80	8,222.44	-1,877.04	18.08	1,877.02	0.88	0.63	0.63
10,166.00	89.30	179.20	8,223.93	-1,972.02	18.91	1,972.00	0.76	0.42	-0.63
10,262.00	89.20	179.80	8,225.19	-2,068.01	19.75	2,067.99	0.63	-0.10	0.63
10,357.00	89.10	179.90	8,226.60	-2,163.00	20.00	2,162.97	0.15	-0.11	0.11
10,453.00	89.00	178.70	8,228.19	-2,258.98	21.17	2,258.95	1.25	-0.10	-1.25
10,549.00	88.90	177.30	8,229.95	-2,354.90	24.52	2,354.87	1.46	-0.10	-1.46
10,644.00	88.30	175.50	8,232.27	-2,449.68	30.48	2,449.64	2.00	-0.63	-1.89
10,740.00	89.80	179.40	8,233.86	-2,545.55	34.75	2,545.51	4.35	1.56	4.06
10,835.00	88.50	179.60	8,235.27	-2,640.54	35.58	2,640.49	1.38	-1.37	0.21
10,931.00	88.80	180.10	8,237.53	-2,736.51	35.83	2,736.46	0.61	0.31	0.52
11,026.00	89.20	180.60	8,239.19	-2,831.49	35.25	2,831.45	0.67	0.42	0.53
11,122.00	89.00	181.50	8,240.70	-2,927.46	33.49	2,927.42	0.96	-0.21	0.94
11,217.00	88.80	181.00	8,242.52	-3,022.42	31.42	3,022.38	0.57	-0.21	-0.53
11,313.00	88.20	181.90	8,245.03	-3,118.36	28.99	3,118.32	1.13	-0.63	0.94
11,409.00	88.40	181.50	8,247.88	-3,214.27	26.15	3,214.24	0.47	0.21	-0.42
11,504.00	89.20	182.70	8,249.87	-3,309.19	22.67	3,309.16	1.52	0.84	1.26
11,600.00	90.40	184.50	8,250.21	-3,404.99	16.64	3,404.97	2.25	1.25	1.88
11,695.00	90.40	183.30	8,249.54	-3,499.77	10.18	3,499.75	1.26	0.00	-1.26
11,791.00	89.00	178.50	8,250.05	-3,595.72	8.67	3,595.71	5.21	-1.46	-5.00
11,886.00	89.30	178.50	8,251.46	-3,690.68	11.16	3,690.66	0.32	0.32	0.00
11,982.00	89.90	179.20	8,252.13	-3,786.66	13.08	3,786.64	0.96	0.63	0.73
12,077.00	88.90	179.80	8,253.12	-3,881.65	13.91	3,881.63	1.23	-1.05	0.63
12,173.00	89.30	180.50	8,254.63	-3,977.63	13.66	3,977.61	0.84	0.42	0.73
12,268.00	89.30	180.80	8,255.79	-4,072.62	12.58	4,072.60	0.32	0.00	0.32
12,364.00	90.10	181.20	8,256.29	-4,168.60	10.91	4,168.59	0.93	0.83	0.42
12,460.00	88.50	178.30	8,257.47	-4,264.58	11.33	4,264.56	3.45	-1.67	-3.02
12,555.00	90.00	180.10	8,258.71	-4,359.56	12.65	4,359.54	2.47	1.58	1.89
12,651.00	91.60	180.80	8,257.37	-4,455.54	11.90	4,455.52	1.82	1.67	0.73
12,747.00	90.50	179.90	8,255.61	-4,551.52	11.31	4,551.50	1.48	-1.15	-0.94
12,827.62	90.84	180.07	8,254.67	-4,632.14	11.33	4,632.12	0.47	0.42	0.21
330' HL Crossing: 12827.62' MD / 8254.67' TVD									
12,842.00	90.90	180.10	8,254.45	-4,646.51	11.31	4,646.50	0.47	0.42	0.21
12,947.00	90.90	180.10	8,252.80	-4,751.50	11.13	4,751.48	0.00	0.00	0.00
Projection									