

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

Form C-104
Revised August 1, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Devon Energy Production Company, L.P. 333 West Sheridan, Oklahoma City, OK 73102		² OGRID Number 6137
		³ Reason for Filing Code/ Effective Date NW / 6/7/16
⁴ API Number 30-015-43270	⁵ Pool Name Paduca; Bone Spring	⁶ Pool Code 96641
⁷ Property Code 300635	⁸ Property Name Cotton Draw Unit	⁹ Well Number 239H

II. ¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	13	25S	31E		200'	North	660'	West	Eddy

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	12	25S	31E		292'	North	646'	West	Eddy
¹² Lse Code F	¹³ Producing Method Code F	¹⁴ Gas Connection Date 6/7/16	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
020445	Plains Marketing P.O. Box 4648 Houston, TX 77210	Oil
036785	DCP Midstream P.O. Box 50020 Midland, TX 79710-0020	Gas
051618	Enterprise Field Services, LLC P.O. Box 4324 Houston, TX 77210-4324	Gas
NM OIL CONSERVATION ARTESIA DISTRICT JUL 1 2016		

IV. Well Completion Data

RECEIVED

TD 9-2-15

²¹ Spud Date 8/16/15	²² Ready Date 6/7/16	²³ TD 15,261' / 10354	²⁴ PBTD 0	²⁵ Perforations 10617 - 15132	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set		³⁰ Sacks Cement	
17-1/2"	13-3/8"	790'		805 sx CIC; Circ 76	
12-1/4"	9-5/8"	4325'		1325 sx CIC; Circ 80	
8-3/4"	5-1/2"	15,261'		2595 sx CIC; Circ 0	
	Tubing: 2-7/8"	9885'			

V. Well Test Data

³¹ Date New Oil 6/12/16	³² Gas Delivery Date 6/12/16	³³ Test Date 6/12/16	³⁴ Test Length 24 hrs	³⁵ Tbg. Pressure 1817 psi	³⁶ Csg. Pressure 1446 psi
³⁷ Choke Size	³⁸ Oil 615 bbl	³⁹ Water 1351 bbl	⁴⁰ Gas 1093 mcf		⁴¹ Test Method
⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Linda Good</i> Printed name: Linda Good Title: Regulatory Specialist E-mail Address: Linda.Good@dvn.com Date: 6/27/2016			OIL CONSERVATION DIVISION Approved by: <i>Karen Sharp</i> Title: <i>Bus Ops Spec-Adv</i> Approval Date: <i>7-12-16</i> Pending BLM approvals will subsequently be reviewed and scanned		

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CONFIDENTIAL

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.

5. Lease Serial No. **BHL: NMNM0503**

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE – Other instructions on page 2.

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 239H

2. Name of Operator
Devon Energy Production Company, L.P.

9. API Well No.
30-015-43270

3a. Address
333 West Sheridan, Oklahoma City, OK 73102

3b. Phone No. (include area code)
405-228-4248

10. Field and Pool or Exploratory Area
Paduca; Bone Spring

4. Location of Well (Footage, Sec., T.R.M., or Survey Description)
200" FNL & 660" FWL Unit D, Sec 13, T25S, R31E
292" FNL & 646" FWL Unit D, Sec 12, T25S, R31E

PP: 94" FNL & 867" FWL

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	
☒ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity	
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other Completion Report	
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon		
	☐ 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 recompleat 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/BLA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat 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.)

12/31/15-6/7/16: DO DV Tool; Clean WB; MIRU WL & PT. TIH & ran GR/CCL/CBL, found ETOC @ 2500'. TIH w/pump through frac plug and guns. Perf Bone Spring 10,617'-15,132'. Frac totals 2929 gals acid, 5,794,000# proppant.
ND frac, MIRU PU, NU BOP, DO plugs & CO to FC @ 15,173'. CHC, FWB, ND BOP. RIH w/312 jts 2-7/8" P-110 tbg, set @ 9885'. TOP.

NM OIL CONSERVATION
ARTESIA DISTRICT

JUL 1 2016

RECEIVED

14. I hereby certify that the foregoing is true and correct.
Name (Printed-Typed)
Linda Good

Title **Regulatory Specialist**

Signature

Linda Good

Date **6/27/2016**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Office

Pending BLM approvals will subsequently be reviewed and scanned

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.

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 make any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

or agency of the United States any false,



Well Name: COTTON DRAW UNIT 239H

Sub-Division DELAWARE BASIN WEST		Region BASIN WEST		County PADUCA		State/Province NM							
Surface Legal Location SEC13 T25S R31E		API/LWI 3001543270		Latitude (°) 32° 8' 12.782" N		Longitude (°) 103° 44' 14.99" W		Orig KB Elevation (ft) 3,429.40		Ground Elev MSL (ft) 3,404.40		KB - GL (ft) 25.00	
Wellbores													
Wellbore Name OH				Parent Wellbore OH				SAP Well ID 38724				Vertical Section Direction (°) 359.69	
Kick Offs & Key Depths													
Date 8/26/2015				Type CURVE				Top Depth (ft) 9,835.0					
Actual Deviation Survey				Definitive? Yes				Proposed? No				Proposed Deviation Survey	
MWD SURVEYS, Proposed? No													
Deviation Survey													
Date 8/17/2015				Description MWD SURVEYS									
MD Tie In (ft)		TVD Tie In (ft)		Inclination Tie In (°)		Azimuth Tie In (°)		NSTie In (ft)		EWtie In (ft)			
Survey Data													
Date	MD (ft)	Incl (°)	Azm (°)	TVD (ft)	VS (ft)	N/S (ft)	E/W (ft)	OLS (1/100ft)	Survey Tool	Survey Company			
8/17/2015	174.00	0.30	348.34	174.00	0.45	0.45	-0.09	0.17	MWD	EXTREME			
8/17/2015	229.00	0.31	343.34	229.00	0.73	0.73	-0.16	0.05	MWD	EXTREME			
8/17/2015	318.00	0.31	307.34	318.00	1.11	1.11	-0.42	0.22	MWD	EXTREME			
8/17/2015	420.00	0.70	331.14	419.99	1.82	1.82	-0.94	0.43	MWD	EXTREME			
8/17/2015	514.00	1.01	254.04	513.99	2.11	2.09	-2.02	1.16	MWD	EXTREME			
8/17/2015	679.00	0.88	245.67	678.96	1.20	1.17	-4.57	0.11	MWD	EXTREME			
8/17/2015	849.00	1.01	276.83	848.94	0.85	0.81	-7.25	0.31	MWD	EXTREME			
8/17/2015	942.00	0.79	251.43	941.93	0.75	0.71	-8.67	0.48	MWD	EXTREME			
8/17/2015	1,037.00	1.01	261.36	1,036.92	0.43	0.37	-10.12	0.28	MWD	EXTREME			
8/17/2015	1,132.00	0.88	266.32	1,131.90	0.26	0.20	-11.67	0.16	MWD	EXTREME			
8/17/2015	1,227.00	1.01	264.35	1,226.89	0.14	0.07	-13.24	0.14	MWD	EXTREME			
8/17/2015	1,321.00	0.70	247.82	1,320.88	-0.15	-0.23	-14.59	0.42	MWD	EXTREME			
8/17/2015	1,416.00	0.88	244.22	1,415.87	-0.68	-0.76	-15.79	0.20	MWD	EXTREME			
8/17/2015	1,510.00	0.70	258.63	1,509.86	-1.10	-1.19	-17.00	0.28	MWD	EXTREME			
8/17/2015	1,605.00	1.10	246.64	1,604.85	-1.57	-1.67	-18.40	0.46	MWD	EXTREME			
8/17/2015	1,694.00	1.01	251.75	1,693.84	-2.01	-2.12	-19.97	0.33	MWD	EXTREME			
8/17/2015	1,784.00	1.01	239.34	1,783.82	-2.52	-2.64	-21.43	0.44	MWD	EXTREME			
8/17/2015	1,873.00	0.88	253.36	1,872.81	-3.11	-3.23	-22.76	0.30	MWD	EXTREME			
8/17/2015	1,962.00	1.19	238.95	1,961.80	-3.77	-3.91	-24.21	0.45	MWD	EXTREME			
8/17/2015	2,052.00	1.32	240.53	2,051.78	-4.76	-4.90	-25.91	0.15	MWD	EXTREME			
8/17/2015	2,141.00	1.32	238.02	2,140.75	-5.79	-5.94	-27.67	0.06	MWD	EXTREME			
8/17/2015	2,230.00	1.10	234.42	2,229.73	-6.83	-6.98	-29.24	0.26	MWD	EXTREME			
8/17/2015	2,409.00	1.41	238.73	2,408.69	-8.95	-9.13	-32.52	0.18	MWD	EXTREME			
8/17/2015	2,499.00	1.41	225.63	2,498.66	-10.29	-10.48	-34.26	0.36	MWD	EXTREME			
8/17/2015	2,588.00	1.71	228.62	2,587.63	-11.93	-12.12	-36.04	0.35	MWD	EXTREME			
8/17/2015	2,677.00	1.89	227.52	2,676.58	-13.78	-13.99	-38.11	0.21	MWD	EXTREME			
8/17/2015	2,767.00	1.49	218.34	2,766.55	-15.69	-15.91	-39.93	0.54	MWD	EXTREME			
8/17/2015	2,945.00	1.58	213.24	2,944.48	-19.55	-19.78	-42.71	0.09	MWD	EXTREME			
8/17/2015	3,124.00	1.58	222.73	3,123.41	-23.41	-23.65	-45.74	0.15	MWD	EXTREME			
8/17/2015	3,302.00	1.58	206.34	3,301.35	-27.39	-27.66	-48.50	0.25	MWD	EXTREME			
8/17/2015	3,481.00	1.89	190.26	3,480.27	-32.50	-32.77	-50.12	0.32	MWD	EXTREME			
8/17/2015	3,659.00	1.89	182.65	3,658.17	-38.32	-38.59	-50.78	0.14	MWD	EXTREME			
8/17/2015	3,837.00	2.20	176.85	3,836.06	-44.66	-44.94	-50.72	0.21	MWD	EXTREME			
8/17/2015	4,016.00	3.12	173.42	4,014.86	-52.93	-53.21	-49.98	0.52	MWD	EXTREME			
8/17/2015	4,105.00	2.99	167.62	4,103.73	-57.61	-57.88	-49.20	0.38	MWD	EXTREME			
8/17/2015	4,199.00	3.30	170.74	4,197.59	-62.68	-62.94	-48.24	0.38	MWD	EXTREME			
8/17/2015	4,399.00	3.08	165.51	4,397.28	-73.58	-73.83	-45.97	0.18	MWD	PATHFINDER			
8/17/2015	4,489.00	2.90	128.82	4,487.17	-77.36	-77.60	-43.59	2.10	MWD	PATHFINDER			
8/17/2015	4,578.00	3.08	118.95	4,576.05	-79.95	-80.16	-39.74	0.61	MWD	PATHFINDER			
8/17/2015	4,668.00	3.68	84.59	4,665.90	-80.87	-81.06	-34.74	2.31	MWD	PATHFINDER			
8/17/2015	4,757.00	3.96	80.77	4,754.70	-80.14	-80.30	-28.86	0.42	MWD	PATHFINDER			
8/17/2015	4,846.00	4.22	82.67	4,843.48	-79.26	-79.39	-22.58	0.33	MWD	PATHFINDER			
8/17/2015	4,936.00	4.57	72.47	4,933.21	-77.80	-77.89	-15.88	0.95	MWD	PATHFINDER			
8/17/2015	5,025.00	4.57	69.08	5,021.93	-75.50	-75.55	-9.18	0.30	MWD	PATHFINDER			
8/17/2015	5,114.00	5.63	49.20	5,110.58	-71.42	-71.43	-2.57	2.30	MWD	PATHFINDER			
8/17/2015	5,204.00	5.89	46.16	5,200.13	-65.37	-65.35	4.11	0.45	MWD	PATHFINDER			
8/17/2015	5,293.00	5.89	43.62	5,288.66	-58.94	-58.88	10.55	0.29	MWD	PATHFINDER			
8/17/2015	5,382.00	5.54	42.08	5,377.22	-52.47	-52.39	16.58	0.43	MWD	PATHFINDER			
8/17/2015	5,472.00	7.21	41.85	5,466.66	-45.08	-44.95	23.26	1.86	MWD	PATHFINDER			
8/17/2015	5,561.00	7.30	40.93	5,554.94	-36.69	-36.52	30.69	0.17	MWD	PATHFINDER			
8/17/2015	5,651.00	7.30	41.04	5,644.21	-28.10	-27.89	38.19	0.02	MWD	PATHFINDER			
8/17/2015	5,740.00	7.30	40.25	5,732.48	-19.55	-19.31	45.56	0.11	MWD	PATHFINDER			
8/17/2015	5,830.00	7.56	40.87	5,821.74	-10.75	-10.47	53.13	0.30	MWD	PATHFINDER			
8/17/2015	5,919.00	7.47	41.10	5,909.97	-2.01	-1.68	60.76	0.11	MWD	PATHFINDER			
8/17/2015	6,008.00	7.12	41.06	5,998.25	6.47	6.84	68.19	0.39	MWD	PATHFINDER			
8/17/2015	6,098.00	6.95	40.23	6,087.57	14.79	15.20	75.37	0.22	MWD	PATHFINDER			
8/17/2015	6,187.00	6.95	40.68	6,175.92	22.95	23.40	82.35	0.06	MWD	PATHFINDER			
8/17/2015	6,277.00	6.58	39.60	6,265.28	31.07	31.56	89.24	0.33	MWD	PATHFINDER			
8/17/2015	6,366.00	6.33	37.74	6,353.71	38.91	39.43	95.54	0.46	MWD	PATHFINDER			
8/17/2015	6,456.00	7.65	47.42	6,443.04	48.85	47.40	102.99	1.96	MWD	PATHFINDER			
8/17/2015	6,545.00	8.00	50.17	6,531.22	54.77	55.38	112.11	0.58	MWD	PATHFINDER			
8/17/2015	6,634.00	8.90	49.34	6,619.35	62.72	63.38	121.56	0.13	MWD	PATHFINDER			
8/17/2015	6,723.00	7.56	48.36	6,707.53	70.60	71.31	130.64	0.52	MWD	PATHFINDER			
8/17/2015	6,813.00	7.47	48.45	6,796.76	78.36	79.12	139.44	0.10	MWD	PATHFINDER			
8/17/2015	6,902.00	7.03	48.87	6,885.04	85.74	86.54	147.87	0.50	MWD	PATHFINDER			
8/17/2015	6,991.00	6.51	48.76	6,973.42	92.60	93.45	155.77	0.58	MWD	PATHFINDER			

Provide signature page for survey

Well Name: COTTON DRAW UNIT 239H

Sub-Division		Region		Field Name		County		State/Province		
DELAWARE BASIN WEST		BASIN WEST		PADUCA		EDDY		NM		
Surface Legal Location		API#WWT		Latitude (°)		Longitude (°)		Orig KB Elevation (ft)		
SEC13 T25S R31E		3001543270		32° 8' 12.782" N		103° 44' 14.99" W		3,429.40		
Ground Elev MSL (ft)		KB - GL (ft)								
3,404.40		25.00								
Survey Data										
Date	MD (ft)	Ind (°)	Azm (°)	TVD (ft)	VS (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	Survey Tool	Survey Company
8/17/2015	7,081.00	6.24	49.13	7,062.87	99.13	100.01	163.30	0.30	MWD	PATHFINDER
8/17/2015	7,170.00	5.80	47.71	7,151.38	105.28	106.20	170.29	0.52	MWD	PATHFINDER
8/17/2015	7,259.00	5.36	47.27	7,239.95	111.09	112.05	176.67	0.50	MWD	PATHFINDER
8/17/2015	7,348.00	4.04	58.25	7,328.66	115.53	116.52	182.39	1.79	MWD	PATHFINDER
8/17/2015	7,438.00	3.08	91.29	7,418.49	117.12	118.13	187.50	2.47	MWD	PATHFINDER
8/17/2015	7,527.00	2.90	100.44	7,507.37	116.63	117.67	192.11	0.57	MWD	PATHFINDER
8/17/2015	7,616.00	2.37	117.43	7,596.28	115.36	116.42	195.95	1.05	MWD	PATHFINDER
8/17/2015	7,706.00	2.29	124.97	7,686.20	113.45	114.53	199.08	0.35	MWD	PATHFINDER
8/17/2015	7,795.00	2.20	122.63	7,775.13	111.49	112.59	201.97	0.14	MWD	PATHFINDER
8/17/2015	7,885.00	2.20	118.84	7,865.07	109.71	110.82	204.94	0.16	MWD	PATHFINDER
8/17/2015	7,974.00	1.93	117.58	7,954.01	108.18	109.31	207.77	0.31	MWD	PATHFINDER
8/17/2015	8,063.00	2.02	115.80	8,042.96	106.79	107.93	210.51	0.12	MWD	PATHFINDER
8/17/2015	8,153.00	1.67	114.14	8,132.91	105.55	106.70	213.13	0.39	MWD	PATHFINDER
8/17/2015	8,242.00	1.32	111.73	8,221.88	104.63	105.79	215.27	0.40	MWD	PATHFINDER
8/17/2015	8,332.00	1.06	101.19	8,311.86	104.07	105.25	217.05	0.38	MWD	PATHFINDER
8/17/2015	8,421.00	0.97	82.15	8,400.85	104.01	105.19	218.60	0.39	MWD	PATHFINDER
8/17/2015	8,509.00	0.70	44.36	8,578.83	104.98	106.17	220.85	0.34	MWD	PATHFINDER
8/17/2015	8,689.00	0.35	342.40	8,668.82	105.63	106.83	221.16	0.69	MWD	PATHFINDER
8/17/2015	8,778.00	0.62	54.20	8,757.82	106.17	107.37	221.46	0.68	MWD	PATHFINDER
8/17/2015	8,867.00	0.97	40.05	8,846.81	107.02	108.23	222.34	0.45	MWD	PATHFINDER
8/17/2015	8,956.00	1.49	22.25	8,935.79	108.67	109.88	223.26	0.72	MWD	PATHFINDER
8/17/2015	9,135.00	1.76	354.02	9,114.72	113.55	114.76	223.86	0.47	MWD	PATHFINDER
8/17/2015	9,224.00	2.02	353.00	9,203.68	116.47	117.68	223.52	0.29	MWD	PATHFINDER
8/17/2015	9,314.00	0.97	349.01	9,293.64	118.79	120.00	223.19	1.17	MWD	PATHFINDER
8/17/2015	9,493.00	0.44	328.41	9,472.63	120.67	122.08	222.54	0.32	MWD	PATHFINDER
8/17/2015	9,582.00	0.44	325.19	9,561.63	121.44	122.65	222.16	0.03	MWD	PATHFINDER
8/17/2015	9,671.00	0.09	280.88	9,650.63	121.74	122.94	221.90	0.43	MWD	PATHFINDER
8/17/2015	9,761.00	1.06	5.65	9,740.62	122.58	123.78	221.91	1.17	MWD	PATHFINDER
8/17/2015	9,785.00	1.23	0.28	9,764.62	123.06	124.26	221.93	0.84	MWD	PATHFINDER
8/17/2015	9,875.00	4.48	354.83	9,854.49	127.53	128.73	221.62	3.62	MWD	PATHFINDER
8/17/2015	9,919.00	10.38	354.63	9,898.10	133.19	134.39	221.10	13.41	MWD	PATHFINDER
8/17/2015	9,964.00	13.89	356.21	9,942.09	142.63	143.82	220.36	7.83	MWD	PATHFINDER
8/17/2015	10,008.00	15.92	354.85	9,984.61	153.91	155.10	219.47	4.68	MWD	PATHFINDER
8/17/2015	10,053.00	17.41	351.29	10,027.72	166.72	167.90	217.89	4.01	MWD	PATHFINDER
8/17/2015	10,098.00	21.90	350.45	10,070.09	181.67	182.84	215.46	10.00	MWD	PATHFINDER
8/17/2015	10,143.00	26.73	351.51	10,111.08	199.98	201.14	212.59	10.78	MWD	PATHFINDER
8/17/2015	10,187.00	32.36	351.99	10,149.35	221.47	222.60	209.49	12.81	MWD	PATHFINDER
8/17/2015	10,232.00	37.81	351.72	10,186.16	247.08	248.20	205.82	12.12	MWD	PATHFINDER
8/17/2015	10,277.00	40.54	351.67	10,221.04	275.23	276.32	201.72	6.07	MWD	PATHFINDER
8/17/2015	10,321.00	43.35	350.75	10,253.76	304.31	305.38	197.22	6.54	MWD	PATHFINDER
8/17/2015	10,366.00	47.75	350.16	10,285.27	336.01	337.05	191.88	9.82	MWD	PATHFINDER
8/17/2015	10,411.00	51.53	350.28	10,314.40	369.83	370.84	185.06	8.40	MWD	PATHFINDER
8/17/2015	10,500.00	62.78	353.67	10,362.60	443.80	444.76	175.78	13.04	MWD	PATHFINDER
8/17/2015	10,533.00	67.53	355.97	10,376.47	473.63	474.58	173.09	15.72	MWD	PATHFINDER
8/17/2015	10,545.00	68.68	356.02	10,380.94	484.74	485.68	172.31	9.59	MWD	PATHFINDER
8/17/2015	10,589.00	73.60	356.59	10,395.16	526.29	527.22	169.63	11.25	MWD	PATHFINDER
8/17/2015	10,634.00	77.03	357.38	10,406.57	569.77	570.68	167.35	7.81	MWD	PATHFINDER
8/17/2015	10,668.00	80.81	357.06	10,413.10	603.10	604.00	165.73	11.16	MWD	PATHFINDER
8/17/2015	10,767.00	86.35	357.86	10,424.17	701.36	702.25	161.37	5.65	MWD	PATHFINDER
8/17/2015	10,856.00	89.43	357.13	10,427.44	790.23	791.09	157.49	3.56	MWD	PATHFINDER
8/17/2015	10,945.00	91.54	355.92	10,426.69	879.08	879.92	152.09	2.73	MWD	PATHFINDER
8/17/2015	11,035.00	92.59	357.84	10,423.45	968.91	969.72	147.27	2.53	MWD	PATHFINDER
8/17/2015	11,124.00	91.89	358.82	10,419.97	1,057.82	1,058.62	144.76	1.26	MWD	PATHFINDER
8/17/2015	11,213.00	89.96	359.21	10,418.53	1,146.80	1,147.59	143.23	2.21	MWD	PATHFINDER
8/17/2015	11,303.00	90.92	0.66	10,417.84	1,236.79	1,237.58	143.13	1.93	MWD	PATHFINDER
8/17/2015	11,392.00	89.69	1.57	10,417.37	1,325.76	1,326.56	144.86	1.72	MWD	PATHFINDER
8/17/2015	11,482.00	87.67	359.71	10,419.44	1,415.72	1,416.53	145.87	3.05	MWD	PATHFINDER
8/17/2015	11,571.00	87.58	358.24	10,423.13	1,504.63	1,505.43	144.28	1.65	MWD	PATHFINDER
8/17/2015	11,661.00	88.46	356.03	10,426.24	1,594.48	1,595.26	139.78	2.64	MWD	PATHFINDER
8/17/2015	11,750.00	93.03	355.22	10,425.06	1,683.22	1,683.97	132.99	5.21	MWD	PATHFINDER
8/17/2015	11,840.00	93.21	355.41	10,420.18	1,772.83	1,773.53	125.65	0.29	MWD	PATHFINDER
8/17/2015	11,929.00	92.86	354.68	10,415.47	1,861.41	1,862.08	117.98	0.91	MWD	PATHFINDER
8/17/2015	12,018.00	92.95	354.76	10,410.91	1,950.96	1,951.58	109.71	0.13	MWD	PATHFINDER
8/17/2015	12,108.00	93.39	355.11	10,405.99	2,039.52	2,040.10	101.86	0.63	MWD	PATHFINDER
8/17/2015	12,197.00	91.28	356.45	10,402.38	2,128.23	2,128.77	95.32	2.81	MWD	PATHFINDER
8/17/2015	12,286.00	91.19	356.85	10,400.44	2,217.08	2,217.60	90.12	0.46	MWD	PATHFINDER
8/17/2015	12,376.00	91.45	356.94	10,398.37	2,306.95	2,307.45	85.24	0.31	MWD	PATHFINDER
8/17/2015	12,465.00	91.36	356.90	10,396.19	2,395.82	2,396.29	80.46	0.11	MWD	PATHFINDER
8/17/2015	12,554.00	91.36	358.09	10,394.08	2,484.73	2,485.18	76.58	1.34	MWD	PATHFINDER
8/17/2015	12,643.00	90.84	358.51	10,392.37	2,573.68	2,574.12	73.94	0.75	MWD	PATHFINDER
8/17/2015	12,733.00	90.75	358.13	10,391.12	2,663.65	2,664.07	71.30	0.43	MWD	PATHFINDER
8/17/2015	12,822.00	91.10	358.29	10,389.68	2,752.51	2,753.02	68.52	0.43	MWD	PATHFINDER
8/17/2015	12,911.00	90.92	359.11	10,388.11	2,841.58	2,841.98	66.50	0.94	MWD	PATHFINDER
8/17/2015	13,000.00	91.19	0.17	10,386.47	2,930.56	2,930.96	65.94	1.23	MWD	PATHFINDER
8/17/2015	13,090.00	92.07	0.41	10,383.91	3,020.52	3,020.93	66.39	1.01	MWD	PATHFINDER
8/17/2015	13,179.00	92.68	359.99	10,380.23	3,109.44	3,109.85	66.71	0.83	MWD	PATHFINDER
8/17/2015	13,268.00	91.89	359.52	10,376.68	3,198.37	3,198.78	66.32	1.03	MWD	PATHFINDER

Well Name: COTTON DRAW UNIT 239H

Sub-Division DELAWARE BASIN WEST	Region BASIN WEST	Field Name PADUCA	County EDDY	State/Province NM
Surface Legal Location SEC13 T25S R31E	ASPLAW 3001543270	Latitude (°) 32° 8' 12.782" N	Longitude (°) 103° 44' 14.99" W	Orig KB Elevation (ft) 3,429.40
				Ground Elev MSL (ft) 3,404.40
				KB - GL (ft) 25.00

Survey Data

Date	MD (ftKB)	Ind (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	Survey Tool	Survey Company
8/17/2015	13,358.00	91.80	358.97	10,373.78	3,288.32	3,288.72	65.14	0.62	MWD	PATHFINDER
8/17/2015	13,447.00	92.07	358.61	10,370.77	3,377.26	3,377.65	63.26	0.51	MWD	PATHFINDER
8/17/2015	13,537.00	91.63	357.35	10,367.87	3,467.17	3,467.54	60.09	1.48	MWD	PATHFINDER
8/17/2015	13,626.00	91.45	359.29	10,365.48	3,556.11	3,556.47	57.49	2.19	MWD	PATHFINDER
8/17/2015	13,716.00	90.75	358.28	10,363.75	3,646.08	3,646.43	55.57	1.37	MWD	PATHFINDER
8/17/2015	13,805.00	91.28	358.27	10,362.17	3,735.04	3,735.38	52.90	0.60	MWD	PATHFINDER
8/17/2015	13,894.00	90.92	356.51	10,360.46	3,823.94	3,824.26	48.84	2.02	MWD	PATHFINDER
8/17/2015	13,984.00	90.92	356.75	10,359.02	3,913.80	3,914.10	43.55	0.27	MWD	PATHFINDER
8/17/2015	14,073.00	90.40	356.89	10,357.99	4,002.69	4,002.95	38.62	0.61	MWD	PATHFINDER
8/17/2015	14,162.00	90.04	356.57	10,357.65	4,091.57	4,091.81	33.54	0.54	MWD	PATHFINDER
8/17/2015	14,252.00	89.78	356.95	10,357.79	4,181.45	4,181.66	28.45	0.51	MWD	PATHFINDER
8/17/2015	14,341.00	89.60	356.91	10,358.27	4,270.34	4,270.53	23.69	0.21	MWD	PATHFINDER
8/17/2015	14,431.00	89.96	355.40	10,358.62	4,360.17	4,360.33	17.65	1.72	MWD	PATHFINDER
8/17/2015	14,520.00	89.43	353.56	10,359.09	4,448.80	4,448.91	9.09	2.15	MWD	PATHFINDER
8/17/2015	14,609.00	88.72	354.54	10,360.53	4,537.35	4,537.42	-0.13	1.36	MWD	PATHFINDER
8/17/2015	14,698.00	89.34	355.18	10,362.04	4,626.02	4,626.05	-8.11	1.00	MWD	PATHFINDER
8/17/2015	14,787.00	90.84	356.07	10,361.90	4,714.80	4,714.78	-14.89	1.96	MWD	PATHFINDER
8/17/2015	14,877.00	91.28	356.70	10,360.23	4,804.63	4,804.59	-20.57	0.85	MWD	PATHFINDER
8/17/2015	14,966.00	90.84	356.90	10,358.59	4,893.50	4,893.43	-25.53	0.54	MWD	PATHFINDER
8/17/2015	15,055.00	90.31	357.38	10,357.69	4,982.41	4,982.32	-29.98	0.80	MWD	PATHFINDER
8/17/2015	15,145.00	91.45	357.95	10,356.31	5,072.34	5,072.23	-33.64	1.42	MWD	PATHFINDER
8/17/2015	15,201.00	91.36	357.98	10,354.94	5,128.30	5,128.18	-35.63	0.17	MWD	PATHFINDER
8/17/2015	15,261.00	91.36	357.98	10,353.51	5,188.25	5,188.12	-37.74	0.00	BIT	PATHFINDER