

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address		² OGRID Number	
Devon Energy Production Company, L.P.		6137	
333 West Sheridan, Oklahoma City, OK 73102		³ Reason for Filing Code/ Effective Date	
		NW / 3/31/16	
⁴ API Number	⁵ Pool Name	⁶ Pool Code	
30-015-42932	Cotton Draw; Bone Spring	13367	
⁷ Property Code	⁸ Property Name	⁹ Well Number	
300635	Cotton Draw Unit	227H	

II. ¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot 1dn	Feet from the	North/South line	Feet from the	East/West line	County
A	11	25S	31E		200	North	660	East	Eddy

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot 1dn	Feet from the	North/South line	Feet from the	East/West line	County
P	11	25S	31E		330	South	670	East	Eddy
¹² Lse Code	¹³ Producing Method Code	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				
F	F	3/31/16							

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
92591	Western Refining Company, L.P. 6500 Trowbridge Drive El Paso, TX 79905	Oil
036785	DCP Midstream P.O. Box 50020 Midland, TX 79710-0020	Gas

IV. Well Completion Data

²¹ Spud Date	²² Ready Date	²³ TD	²⁴ PBTB	²⁵ Perforations	²⁶ DHC, MC
3/7/15	3/31/16	14,863' 10490	14,817.4'	10,550' - 14,807'	
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17-1/2"	13-3/8"	766'	1045 sx CIC; Circ 368 sx		
12-1/4"	9-5/8"	4400'	1640 sx CIC; Circ 120 sx		
8-3/4"	5-1/2"	14861.1'	2370 sx cmt; Circ 0		
	Tubing: 2-7/8"	10,282'			

V. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date	³⁴ Test Length	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
4/6/16	4/6/16	4/6/16	24 hrs	1211 psi	344 psi
³⁷ Choke Size	³⁸ Oil	³⁹ Water	⁴⁰ Gas		⁴¹ Test Method
	1085 bbl	1549 bbl	2125 mcf		
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.			OIL CONSERVATION DIVISION		
Signature: <i>Rebecca Deal</i>			Approved by: <i>Karen Sharp</i>		
Printed name: Rebecca Deal			Title: <i>Bus Ops Spec - Adv</i>		
Title: Regulatory Compliance Analyst			Approval Date: <i>4-26-16</i>		
E-mail Address: rebecca.deal@dmn.com			Pending BLM approvals will subsequently be reviewed and scanned		
Date: 4/19/2016	Phone:				

BLM OIL CONSERVATION

ARTESIA DISTRICT

Form 3160-3
(August 2010)

APR 21 2016

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CONFIDENTIAL

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

RECEIVED
LAND SURVEY 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.

Cotton Draw Unit NM 70928X

8. Well Name and No.
Cotton Draw Unit 227H

9. API Well No.
30-015-42932

10. Field and Pool or Exploratory Area
Cotton Draw; Bone Spring

11. Country or Parish, State
Eddy, NM

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

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

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

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

4. Location of Well (Footage, Sec., T., R., A., or Survey Description)
200' FNL & 660' FEL Unit A, Sec 11, T25S, R31E
330' FSL & 670' FEL Unit P, Sec 11, T25S, R31E

PP: 212' FNL & 618' FEL

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 recomple 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.)

1/9/16-3/31/16: MIRU WL & PT. TIH & ran CBL, found ETOC @ 3250'. Ran csg MITs, test OK.TIH w/pump through frac plug and guns. Perf Bone Spring, 10,550'-14,807', total 603 holes. Frac'd 10,550'-14,807' in 22 stages. Frac totals 3748.5 gals acid, 6,742,000# proppant. ND frac, MIRU PU, NU BOP, DO plugs & CO to PBTD 14,817.4'. CHC, FWB, ND BOP. RIH w/ 322 jts 2-7/8" P-110 tbg, set @ 10,282'. TOP.

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

Rebecca Deal

Title **Regulatory Compliance Analyst**

Signature

Rebecca Deal

Date **4/19/2016**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

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

Pending BLM approvals will subsequently be reviewed and scanned

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and feloniously or fraudulent statements or representations as to any matter within its jurisdiction.

of the United States any false,

(Instructions on page 2)



Well Name: COTTON DRAW UNIT 227H

Sub-Division DELAWARE BASIN WEST		Region BASIN WEST		Field Name PADUCA		County EDDY		State/Province NM					
Surface Legal Location SEC 11 25S R31E		API/UWI 3001542932		Latitude (°) 32° 9' 5.593" N		Longitude (°) 103° 44' 32.049" W		Orig KB Elevation (ft) 3,479.40		Ground Elev MSL (ft) 3,454.40		KB - GL (ft) 25.00	
Wellbores													
Wellbore Name OH		Parent Wellbore OH			SAP Well ID 38055			Vertical Section Direction (°)					
Kick Offs & Key Depths													
Date 3/21/2015				Type Kick Off				Top Depth (ftKB) 9,790.0					
Actual Deviation Survey EXTREME, Proposed? No				Definitive? Yes		Proposed? No		Proposed Deviation Survey					
Deviation Survey													
Date 3/7/2015		Description EXTREME											
MD Tie In (ftKB) 0.00		TVD Tie In (ftKB) 0.00		Inclination Tie In (°) 0.00		Azimuth Tie In (°) 0.00		NSTie In (ft) 0.00		EWtie In (ft) 0.00			
Survey Data													
Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	Survey Tool	Survey Company			
3/17/2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	93.10	0.58	245.54	93.10	0.20	-0.20	-0.43	0.62	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	187.61	0.56	294.92	187.60	0.20	-0.20	-1.28	0.50	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	282.12	0.50	307.63	282.11	-0.25	0.25	-2.03	0.14	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	376.63	0.49	308.43	376.62	-0.75	0.75	-2.67	0.01	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	471.14	0.51	288.07	471.12	-1.13	1.13	-3.39	0.19	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	565.65	0.58	281.31	565.63	-1.35	1.36	-4.26	0.10	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	660.16	0.38	244.38	660.14	-1.31	1.32	-5.01	0.38	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	754.67	0.30	215.21	754.64	-0.97	0.98	-5.43	0.20	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	849.18	0.27	218.93	849.15	-0.60	0.60	-5.72	0.04	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	943.69	0.30	233.64	943.66	-0.27	0.28	-6.06	0.08	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	1,038.20	0.31	235.05	1,038.17	0.02	-0.01	-6.46	0.01	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	1,132.71	0.31	226.45	1,132.68	0.34	-0.33	-6.86	0.05	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	1,227.22	0.32	221.69	1,227.19	0.72	-0.71	-7.22	0.03	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	1,321.73	0.29	215.17	1,321.70	1.11	-1.10	-7.53	0.05	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	1,416.24	0.24	218.86	1,416.21	1.46	-1.45	-7.80	0.06	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	1,510.75	0.26	208.77	1,510.71	1.80	-1.79	-8.02	0.05	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	1,605.26	0.24	206.12	1,605.22	2.17	-2.16	-8.21	0.02	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	1,699.77	0.19	198.25	1,699.73	2.49	-2.48	-8.35	0.06	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	1,794.28	0.16	203.01	1,794.24	2.76	-2.75	-8.45	0.04	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	1,888.79	0.18	90.96	1,888.75	2.89	-2.88	-8.35	0.30	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	1,983.30	0.34	69.38	1,983.26	2.79	-2.78	-7.94	0.20	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	2,077.81	0.45	93.20	2,077.77	2.71	-2.70	-7.31	0.21	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	2,172.32	0.50	95.07	2,172.28	2.77	-2.76	-6.53	0.06	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	2,266.83	0.51	93.36	2,266.78	2.83	-2.82	-5.70	0.02	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	2,361.34	0.50	95.67	2,361.29	2.89	-2.89	-4.87	0.02	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	2,455.85	0.49	86.37	2,455.79	2.91	-2.90	-4.05	0.09	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	2,550.36	0.42	89.90	2,550.30	2.88	-2.88	-3.30	0.08	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	2,644.87	0.35	88.65	2,644.81	2.87	-2.87	-2.67	0.07	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	2,739.38	0.34	105.51	2,739.32	2.94	-2.94	-2.11	0.11	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	2,833.89	0.23	94.38	2,833.83	3.03	-3.03	-1.65	0.13	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	2,928.40	0.24	94.43	2,928.34	3.06	-3.06	-1.26	0.01	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	3,022.91	0.28	120.55	3,022.85	3.19	-3.19	-0.87	0.13	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	3,117.42	0.33	138.58	3,117.35	3.51	-3.51	-0.49	0.11	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	3,211.93	0.43	107.65	3,211.86	3.82	-3.82	0.03	0.24	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	3,306.44	0.77	89.89	3,306.37	3.93	-3.93	1.00	0.41	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	3,400.95	0.93	74.17	3,400.87	3.71	-3.72	2.37	0.30	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	3,495.46	0.86	72.77	3,495.36	3.29	-3.30	3.79	0.08	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	3,589.97	0.90	71.43	3,589.86	2.85	-2.85	5.17	0.05	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	3,684.48	1.20	87.96	3,684.36	2.57	-2.58	6.86	0.45	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	3,778.99	1.74	99.76	3,778.84	2.78	-2.79	9.27	0.65	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	3,873.50	1.63	105.57	3,873.31	3.38	-3.39	11.98	0.21	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	3,968.01	2.01	110.96	3,967.77	4.33	-4.35	14.82	0.44	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	4,062.52	2.41	118.24	4,062.21	5.86	-5.88	18.12	0.52	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	4,157.03	2.72	121.66	4,156.62	7.97	-8.00	21.78	0.37	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	4,251.54	2.45	119.66	4,251.04	10.14	-10.17	25.44	0.30	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	4,272.00	2.39	119.64	4,271.48	10.57	-10.60	26.19	0.29	MWD	LEAM DRILLING SYSTEMS			
3/12/2015	4,440.00	2.60	123.10	4,439.32	14.38	-14.41	32.43	0.15	MWD	LEAM DRILLING SYSTEMS			
3/12/2015	4,534.00	1.70	112.20	4,533.25	16.06	-16.10	35.50	1.05	MWD	LEAM DRILLING SYSTEMS			
3/12/2015	4,629.00	0.60	135.60	4,628.23	16.95	-16.99	37.16	1.24	MWD	LEAM DRILLING SYSTEMS			
3/12/2015	4,724.00	0.60	122.90	4,723.23	17.57	-17.62	37.92	0.14	MWD	LEAM DRILLING SYSTEMS			
3/12/2015	4,818.00	0.70	116.70	4,817.22	18.10	-18.14	38.85	0.13	MWD	LEAM DRILLING SYSTEMS			
3/12/2015	4,913.00	0.80	107.80	4,912.21	18.56	-18.61	40.00	0.16	MWD	LEAM DRILLING SYSTEMS			
3/12/2015	5,008.00	0.70	106.90	5,007.20	18.93	-18.98	41.19	0.11	MWD	LEAM DRILLING SYSTEMS			
3/12/2015	5,102.00	0.90	108.70	5,101.20	19.33	-19.38	42.43	0.21	MWD	LEAM DRILLING SYSTEMS			
3/12/2015	5,196.00	0.40	104.10	5,195.19	19.65	-19.70	43.45	0.53	MWD	LEAM DRILLING SYSTEMS			
3/12/2015	5,291.00	0.30	61.90	5,290.19	19.61	-19.66	43.99	0.28	MWD	LEAM DRILLING SYSTEMS			
3/12/2015	5,386.00	0.20	354.90	5,385.19	19.33	-19.38	44.20	0.30	MWD	LEAM DRILLING SYSTEMS			
3/12/2015	5,480.00	0.30	347.70	5,479.19	18.92	-18.98	44.13	0.11	MWD	LEAM DRILLING SYSTEMS			
3/12/2015	5,575.00	0.40	354.80	5,574.18	18.35	-18.40	44.05	0.11	MWD	LEAM DRILLING SYSTEMS			
3/12/2015	5,669.00	0.40	339.10	5,668.18	17.72	-17.77	43.90	0.12	MWD	LEAM DRILLING SYSTEMS			
3/12/2015	5,859.00	0.40	324.90	5,858.18	16.56	-16.61	43.28	0.05	MWD	LEAM DRILLING SYSTEMS			
3/12/2015	5,953.00	0.60	330.50	5,952.17	15.86	-15.91	42.85	0.22	MWD	LEAM DRILLING SYSTEMS			
3/12/2015	6,047.00	0.70	339.80	6,046.17	14.89	-14.94	42.41	0.15	MWD	LEAM DRILLING SYSTEMS			
3/12/2015	6,142.00	0.90	341.00	6,141.16	13.64	-13.69	41.97	0.21	MWD	LEAM DRILLING SYSTEMS			
3/12/2015	6,237.00	0.40	299.60	6,236.15	12.78	-12.82	41.44	0.69	MWD	LEAM DRILLING SYSTEMS			

Provide signature page for Survey



Well Name: COTTON DRAW UNIT 227H

Sub-Division DELAWARE BASIN WEST		Region BASIN WEST		Field Name PADUCA			County EDDY		State/Province NM				
Surface Legal Location SEC 11 25S R31E		API/UWI 3001542932		Latitude (°) 32° 9' 5.593" N		Longitude (°) 103° 44' 32.049" W		Orig KB Elevation (ft) 3,479.40		Ground Elev MSL (ft) 3,454.40		KB - GL (ft) 25.00	
Survey Data													
Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	Survey Tool	Survey Company			
3/12/2015	6,331.00	0.40	283.60	6,330.15	12.54	-12.59	40.83	0.12	MWD	LEAM DRILLING SYSTEMS			
3/12/2015	6,426.00	0.30	265.50	6,425.15	12.48	-12.53	40.26	0.16	MWD	LEAM DRILLING SYSTEMS			
3/12/2015	6,521.00	0.20	233.80	6,520.15	12.60	-12.64	39.88	0.18	MWD	LEAM DRILLING SYSTEMS			
3/12/2015	6,710.00	0.20	244.20	6,709.15	12.94	-12.98	39.32	0.02	MWD	LEAM DRILLING SYSTEMS			
3/12/2015	6,804.00	0.20	291.10	6,803.15	12.95	-12.99	39.02	0.17	MWD	LEAM DRILLING SYSTEMS			
3/12/2015	6,898.00	0.20	248.10	6,897.15	12.95	-13.00	38.71	0.16	MWD	LEAM DRILLING SYSTEMS			
3/12/2015	6,993.00	0.30	264.20	6,992.14	13.04	-13.08	38.31	0.13	MWD	LEAM DRILLING SYSTEMS			
3/12/2015	7,087.00	0.10	244.00	7,086.14	13.10	-13.14	37.99	0.22	MWD	LEAM DRILLING SYSTEMS			
3/12/2015	7,182.00	0.00	59.40	7,181.14	13.14	-13.18	37.92	0.11	MWD	LEAM DRILLING SYSTEMS			
3/12/2015	7,276.00	0.10	54.50	7,275.14	13.09	-13.13	37.98	0.11	MWD	LEAM DRILLING SYSTEMS			
3/12/2015	7,371.00	0.20	98.10	7,370.14	13.06	-13.11	38.22	0.15	MWD	LEAM DRILLING SYSTEMS			
3/12/2015	7,465.00	0.30	87.20	7,464.14	13.07	-13.12	38.62	0.12	MWD	LEAM DRILLING SYSTEMS			
3/12/2015	7,559.00	0.40	111.10	7,558.14	13.18	-13.23	39.18	0.19	MWD	LEAM DRILLING SYSTEMS			
3/12/2015	7,654.00	0.50	102.70	7,653.14	13.39	-13.44	39.89	0.13	MWD	LEAM DRILLING SYSTEMS			
3/12/2015	7,748.00	0.50	110.20	7,747.13	13.62	-13.67	40.67	0.07	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	7,843.00	0.60	130.10	7,842.13	14.08	-14.13	41.44	0.23	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	7,937.00	0.60	113.80	7,936.12	14.60	-14.65	42.27	0.18	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	8,032.00	0.50	117.10	8,031.12	14.99	-15.04	43.09	0.11	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	8,127.00	0.50	124.70	8,126.12	15.41	-15.46	43.80	0.07	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	8,221.00	0.50	146.10	8,220.11	15.98	-16.04	44.37	0.20	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	8,316.00	0.50	215.50	8,315.11	16.66	-16.72	44.36	0.60	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	8,410.00	0.70	223.80	8,409.11	17.41	-17.47	43.73	0.23	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	8,504.00	0.90	210.30	8,503.10	18.47	-18.52	42.96	0.29	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	8,599.00	0.40	234.50	8,598.09	19.30	-19.35	42.31	0.59	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	8,693.00	0.40	221.90	8,692.09	19.74	-19.79	41.82	0.09	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	8,788.00	0.50	172.10	8,787.09	20.40	-20.45	41.66	0.41	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	8,882.00	1.00	115.20	8,881.08	21.15	-21.20	42.46	0.89	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	8,977.00	0.90	113.80	8,976.06	21.80	-21.86	43.89	0.11	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	9,072.00	0.80	106.90	9,071.05	22.30	-22.35	45.21	0.15	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	9,166.00	0.80	109.20	9,165.05	22.70	-22.76	46.45	0.03	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	9,261.00	1.20	110.20	9,260.03	23.26	-23.32	48.01	0.42	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	9,355.00	0.60	118.90	9,354.02	23.84	-23.90	49.37	0.65	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	9,450.00	0.70	107.60	9,449.01	24.25	-24.31	50.36	0.17	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	9,545.00	0.70	89.10	9,544.01	24.42	-24.48	51.49	0.24	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	9,639.00	0.80	57.70	9,638.00	24.06	-24.12	52.62	0.44	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	9,733.00	0.50	21.50	9,731.99	23.32	-23.39	53.32	0.53	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	9,825.00	3.50	160.30	9,823.94	25.59	-25.66	54.42	4.23	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	9,856.00	9.10	164.60	9,854.74	28.85	-28.91	55.39	18.12	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	9,888.00	14.50	164.70	9,886.05	35.15	-35.22	57.12	16.88	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	9,919.00	18.00	166.50	9,915.81	43.56	-43.63	59.26	11.41	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	9,951.00	20.00	168.30	9,946.07	53.72	-53.79	61.53	6.51	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	9,983.00	22.10	170.00	9,975.93	65.01	-65.08	63.68	6.83	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	10,014.00	24.70	173.00	10,004.38	77.18	-77.26	65.48	9.22	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	10,046.00	27.40	176.30	10,033.13	91.16	-91.24	66.78	9.57	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	10,077.00	29.80	179.30	10,060.34	105.99	-106.07	67.33	9.02	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	10,109.00	31.50	180.00	10,087.87	122.30	-122.38	67.43	5.43	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	10,140.00	32.60	178.40	10,114.15	138.75	-138.83	67.66	4.48	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	10,172.00	35.10	178.60	10,140.72	156.56	-156.64	68.13	7.82	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	10,203.00	38.40	179.70	10,165.56	175.10	-175.19	68.39	10.85	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	10,235.00	41.20	181.10	10,190.14	195.58	-195.67	68.24	9.19	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	10,266.00	44.60	181.80	10,212.84	216.68	-216.76	67.71	11.07	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	10,298.00	47.60	182.70	10,235.03	239.72	-239.79	66.80	9.59	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	10,329.00	50.60	183.50	10,255.33	263.11	-263.19	65.53	9.87	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	10,361.00	53.60	183.90	10,274.98	288.31	-288.38	63.89	9.43	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	10,392.00	57.10	181.80	10,292.60	313.77	-313.85	62.64	12.59	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	10,424.00	60.00	180.60	10,309.30	341.06	-341.14	62.07	9.61	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	10,455.00	63.00	180.00	10,324.09	368.30	-368.38	61.93	9.83	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	10,487.00	65.10	179.30	10,338.09	397.07	-397.15	62.11	6.85	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	10,518.00	68.10	178.80	10,350.40	425.52	-425.59	62.58	9.79	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	10,550.00	71.90	180.40	10,361.35	455.58	-455.65	62.78	12.77	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	10,581.00	74.70	181.60	10,370.25	485.26	-485.34	62.26	9.76	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	10,612.00	76.50	182.50	10,377.96	515.27	-515.34	61.19	6.45	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	10,643.00	78.70	182.30	10,384.62	545.52	-545.59	59.92	7.12	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	10,675.00	81.80	181.60	10,390.04	577.04	-577.11	58.85	9.92	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	10,715.00	84.90	180.60	10,394.67	616.76	-616.83	58.09	8.14	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	10,796.00	87.00	181.80	10,400.39	697.53	-697.60	56.39	2.98	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	10,891.00	88.50	182.80	10,404.12	792.38	-792.45	52.58	1.90	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	10,985.00	88.20	183.40	10,406.83	886.21	-886.27	47.50	0.71	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	11,080.00	88.30	182.00	10,409.73	981.07	-981.12	43.03	1.48	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	11,174.00	89.00	180.90	10,411.94	1,075.01	-1,075.06	40.65	1.39	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	11,268.00	89.20	180.60	10,413.42	1,168.99	-1,169.04	39.42	0.38	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	11,363.00	90.50	179.50	10,413.67	1,263.99	-1,264.04	39.34	1.79	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	11,458.00	90.30	181.60	10,413.00	1,358.98	-1,359.02	38.43	2.22	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	11,552.00	90.00	180.90	10,412.76	1,452.96	-1,453.00	36.38	0.81	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	11,647.00	89.10	180.70	10,413.50	1,547.94	-1,547.99	35.05	0.97	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	11,741.00	89.50	181.60	10,414.65	1,641.92	-1,641.96	33.16	1.05	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	11,836.00	88.90	181.40	10,415.98	1,736.88	-1,736.92	30.68	0.67	MWD	LEAM DRILLING SYSTEMS			
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Well Name: COTTON DRAW UNIT 227H

Sub-Division DELAWARE BASIN WEST		Region BASIN WEST		Field Name PADUCA			County EDDY		State/Province NM				
Surface Legal Location SEC 11 25S R31E		API/UWI 3001542932		Latitude (") 32° 9' 5.593" N		Longitude (") 103° 44' 32.049" W		Orig KB Elevation (ft) 3,479.40		Ground Elev MSL (ft) 3,454.40		KB - GL (ft) 25.00	
Survey Data													
Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	Survey Tool	Survey Company			
3/17/2015	11,930.00	88.30	182.10	10,418.28	1,830.81	-1,830.84	27.81	0.98	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	12,025.00	90.00	182.30	10,419.68	1,925.73	-1,925.76	24.16	1.80	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	12,119.00	90.30	182.10	10,419.44	2,019.66	-2,019.69	20.55	0.38	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	12,213.00	88.50	182.00	10,420.42	2,113.60	-2,113.62	17.19	1.92	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	12,308.00	89.10	181.60	10,422.41	2,208.53	-2,208.55	14.21	0.76	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	12,308.00	89.10	181.60	10,422.41	2,208.53	-2,208.55	14.21	0.76	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	12,403.00	89.00	181.10	10,423.99	2,303.50	-2,303.51	11.97	0.54	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	12,497.00	89.80	179.70	10,424.97	2,397.49	-2,397.50	11.31	1.72	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	12,591.00	89.90	179.30	10,425.22	2,491.48	-2,491.50	12.13	0.44	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	12,686.00	90.00	179.00	10,425.30	2,586.47	-2,586.49	13.54	0.33	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	12,780.00	90.30	178.80	10,425.05	2,680.45	-2,680.47	15.35	0.38	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	12,875.00	89.90	179.50	10,424.89	2,775.44	-2,775.46	16.76	0.85	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	12,969.00	89.60	178.60	10,425.30	2,869.42	-2,869.44	18.32	1.01	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	13,064.00	91.30	180.40	10,424.55	2,964.41	-2,964.43	19.14	2.61	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	13,159.00	90.40	181.30	10,423.14	3,059.38	-3,059.41	17.74	1.34	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	13,253.00	90.00	181.60	10,422.82	3,153.36	-3,153.38	15.36	0.53	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	13,348.00	89.20	182.30	10,423.48	3,248.30	-3,248.32	12.12	1.12	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	13,443.00	88.50	183.50	10,425.39	3,343.16	-3,343.17	7.32	1.46	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	13,537.00	87.80	182.50	10,428.42	3,436.99	-3,436.99	2.40	1.30	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	13,631.00	87.00	181.60	10,432.68	3,530.83	-3,530.84	-0.96	1.28	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	13,726.00	86.90	182.10	10,437.74	3,625.65	-3,625.65	-4.02	0.54	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	13,820.00	87.00	180.60	10,442.74	3,719.49	-3,719.49	-6.23	1.60	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	13,914.00	87.40	179.90	10,447.33	3,813.38	-3,813.38	-6.64	0.86	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	14,008.00	88.20	178.10	10,450.94	3,907.29	-3,907.29	-5.00	2.09	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	14,102.00	88.80	177.00	10,453.40	4,001.17	-4,001.17	-0.98	1.33	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	14,196.00	88.30	177.00	10,455.78	4,095.00	-4,095.01	3.93	0.53	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	14,290.00	87.00	177.60	10,459.63	4,188.81	-4,188.82	8.36	1.52	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	14,384.00	88.50	181.10	10,463.33	4,282.71	-4,282.73	9.42	4.05	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	14,478.00	88.30	183.50	10,465.95	4,376.60	-4,376.61	5.65	2.56	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	14,571.00	87.70	181.30	10,469.20	4,469.46	-4,469.46	1.76	2.45	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	14,665.00	86.60	181.30	10,473.87	4,563.32	-4,563.32	-0.37	1.17	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	14,759.00	85.10	181.60	10,480.67	4,657.04	-4,657.04	-2.74	1.63	MWD	LEAM DRILLING SYSTEMS			
3/17/2015	14,863.00	85.10	181.60	10,489.56	4,760.63	-4,760.62	-5.64	0.00	BIT	LEAM DRILLING SYSTEMS			

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