

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NMLC061873B
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator DEVON ENERGY PRODUCTION COMPANY LP (6137)		7. If Unit or CA Agreement, Name and No.
3a. Address 333 West Sheridan Avenue Oklahoma City OK		8. Lease Name and Well No. COTTON DRAW UNIT 497H (300635)
3b. Phone No. (include area code) (405)552-6571		9. API Well No. 30-025-43690
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface NENW / 530 FNL / 1720 FWL / LAT 32.1361179 / LONG -103.7174522 At proposed prod. zone SESW / 290 FSL / 2280 FWL / LAT 32.1238724 / LONG -103.7156688		10. Field and Pool, or Exploratory PADUCA / DELAWARE (49490)
14. Distance in miles and direction from nearest town or post office* 21 miles		11. Sec., T. R. M. or Blk. and Survey or Area SEC 18 / T25S / R32E / NMP
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 290 feet	16. No. of acres in lease 1759.31	17. Spacing Unit dedicated to this well 160
18. Distance from proposed location* to nearest well, drilling, completed, 180 feet applied for, on this lease, ft.	19. Proposed Depth 8155 feet / 12398 feet	20. BLM/BIA Bond No. on file FED: CO1104
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3412 feet	22. Approximate date work will start* 02/01/2017	23. Estimated duration 45 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

- |                                                                                                                                                |                                                                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| 1. Well plat certified by a registered surveyor.                                                                                               | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan.                                                                                                                            | 5. Operator certification                                                                       |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the BLM.             |

25. Signature (Electronic Submission)	Name (Printed/Typed) Linda Good / Ph: (405)552-6558	Date 07/21/2016
Title Regulatory Compliance Professional		
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) Cody Layton / Ph: (575)234-5959	Date 03/06/2017
Title Supervisor Multiple Resources Office CARLSBAD		

Application approval 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.  
Conditions of approval, if any, are attached.

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.

(Continued on page 2)

\*(Instructions on page 2)

APPROVED WITH CONDITIONS

KZ  
03/15/17



APD ID: 10400002233

Submission Date: 07/21/2016

Highlight

All Changes

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Federal/Indian APD: FED

Well Name: COTTON DRAW UNIT

Well Number: 497H

Well Type: OIL WELL

Well Work Type: Drill

## Application

### Section 1 - General

APD ID: 10400002233

Tie to previous NOS?

Submission Date: 07/21/2016

BLM Office: CARLSBAD

User: Linda Good

Title: Regulatory Compliance  
Professional

Federal/Indian APD: FED

Is the first lease penetrated for production Federal or Indian? FED

Lease number: NMLC061873B

Lease Acres: 1759.31

Surface access agreement in place?

Allotted?

Reservation:

Agreement in place? NO

Federal or Indian agreement:

Agreement number:

Agreement name:

Keep application confidential? YES

Permitting Agent? NO

APD Operator: DEVON ENERGY PRODUCTION COMPANY LP

Operator letter of designation:

Keep application confidential? YES

### Operator Info

Operator Organization Name: DEVON ENERGY PRODUCTION COMPANY LP

Operator Address: 333 West Sheridan Avenue

Zip: 73102

Operator PO Box:

Operator City: Oklahoma City

State: OK

Operator Phone: (405)552-6571

Operator Internet Address: aletha.dewbre@dvn.com

### Section 2 - Well Information

Well in Master Development Plan? NO

Master Development Plan name:

Well in Master SUPO? NO

Master SUPO name:

Well in Master Drilling Plan? NO

Master Drilling Plan name:

**Operator Name:** DEVON ENERGY PRODUCTION COMPANY LP

**Well Name:** COTTON DRAW UNIT

**Well Number:** 497H

**Well Name:** COTTON DRAW UNIT

**Well Number:** 497H

**Well API Number:**

**Field/Pool or Exploratory?** Field and Pool

**Field Name:** PADUCA

**Pool Name:** DELAWARE

**Is the proposed well in an area containing other mineral resources?** NATURAL GAS,OIL,POTASH

**Describe other minerals:**

**Is the proposed well in a Helium production area?** N

**Use Existing Well Pad?** NO

**New surface disturbance?**

**Type of Well Pad:** MULTIPLE WELL

**Multiple Well Pad Name:**

**Number:** 284H/497H/448H

**Well Class:** HORIZONTAL

**COTTON DRAW UNIT**

**Number of Legs:** 1

**Well Work Type:** Drill

**Well Type:** OIL WELL

**Describe Well Type:**

**Well sub-Type:** INFILL

**Describe sub-type:**

**Distance to town:** 21 Miles

**Distance to nearest well:** 180 FT

**Distance to lease line:** 290 FT

**Reservoir well spacing assigned acres Measurement:** 160 Acres

**Well plat:** C-102\_CDU 497H\_As Filed\_07-21-2016.pdf

**Well work start Date:** 02/01/2017

**Duration:** 45 DAYS

### Section 3 - Well Location Table

**Survey Type:** RECTANGULAR

**Describe Survey Type:**

**Datum:** NAD83

**Vertical Datum:** NAVD88

**Survey number:** 4662

**STATE:** NEW MEXICO

**Meridian:** NEW MEXICO PRINCIPAL County: LEA

**Latitude:** 32.1361179

**Longitude:** -103.7174522

**SHL**

**Elevation:** 3412

**MD:** 0

**TVD:** 0

**Leg #: 1**

**Lease Type:** FEDERAL

**Lease #:** NMLC061873A

**NS-Foot:** 530

**NS Indicator:** FNL

**EW-Foot:** 1720

**EW Indicator:** FWL

**Twsp:** 25S

**Range:** 32E

**Section:** 18

**Aliquot:** NENW

**Lot:**

**Tract:**



**Operator Name:** DEVON ENERGY PRODUCTION COMPANY LP

**Well Name:** COTTON DRAW UNIT

**Well Number:** 497H

	<b>STATE:</b> NEW MEXICO	<b>Meridian:</b> NEW MEXICO PRINCIPAL	<b>County:</b> LEA
	<b>Latitude:</b> 32.1361179	<b>Longitude:</b> -103.7174522	
KOP	<b>Elevation:</b> -4170	<b>MD:</b> 7620	<b>TVD:</b> 7582
<b>Leg #: 1</b>	<b>Lease Type:</b> FEDERAL	<b>Lease #:</b> NMLC061873A	
	<b>NS-Foot:</b> 530	<b>NS Indicator:</b> FNL	
	<b>EW-Foot:</b> 2280	<b>EW Indicator:</b> FWL	
	<b>Twsp:</b> 25S	<b>Range:</b> 32E	<b>Section:</b> 18
	<b>Aliquot:</b> NENW	<b>Lot:</b>	<b>Tract:</b>
	<b>STATE:</b> NEW MEXICO	<b>Meridian:</b> NEW MEXICO PRINCIPAL	<b>County:</b> LEA
	<b>Latitude:</b> 32.1361179	<b>Longitude:</b> -103.7174522	
PPP	<b>Elevation:</b> -4596	<b>MD:</b> 8100	<b>TVD:</b> 8008
<b>Leg #: 1</b>	<b>Lease Type:</b> FEDERAL	<b>Lease #:</b> NMLC061873A	
	<b>NS-Foot:</b> 719	<b>NS Indicator:</b> FNL	
	<b>EW-Foot:</b> 2280	<b>EW Indicator:</b> FWL	
	<b>Twsp:</b> 25S	<b>Range:</b> 32E	<b>Section:</b> 18
	<b>Aliquot:</b> NENW	<b>Lot:</b>	<b>Tract:</b>
	<b>STATE:</b> NEW MEXICO	<b>Meridian:</b> NEW MEXICO PRINCIPAL	<b>County:</b> LEA
	<b>Latitude:</b> 32.1238724	<b>Longitude:</b> -103.7156688	
EXIT	<b>Elevation:</b> -4743	<b>MD:</b> 12398	<b>TVD:</b> 8155
<b>Leg #: 1</b>	<b>Lease Type:</b> FEDERAL	<b>Lease #:</b> NMLC061873B	
	<b>NS-Foot:</b> 290	<b>NS Indicator:</b> FSL	
	<b>EW-Foot:</b> 2280	<b>EW Indicator:</b> FWL	
	<b>Twsp:</b> 25S	<b>Range:</b> 32E	<b>Section:</b> 18
	<b>Aliquot:</b> SESW	<b>Lot:</b>	<b>Tract:</b>
	<b>STATE:</b> NEW MEXICO	<b>Meridian:</b> NEW MEXICO PRINCIPAL	<b>County:</b> LEA
	<b>Latitude:</b> 32.1238724	<b>Longitude:</b> -103.7156688	
BHL	<b>Elevation:</b> -4743	<b>MD:</b> 12398	<b>TVD:</b> 8155
<b>Leg #: 1</b>	<b>Lease Type:</b> FEDERAL	<b>Lease #:</b> NMLC061873B	
	<b>NS-Foot:</b> 290	<b>NS Indicator:</b> FSL	
	<b>EW-Foot:</b> 2280	<b>EW Indicator:</b> FWL	



**Operator Name:** DEVON ENERGY PRODUCTION COMPANY LP

**Well Name:** COTTON DRAW UNIT

**Well Number:** 497H

**Twsp:** 25S

**Range:** 32E

**Section:** 18

**Aliquot:** SESW

**Lot:**

**Tract:**

## Drilling Plan

### Section 1 - Geologic Formations

**ID:** Surface formation

**Name:** ---

**Lithology(ies):**

OTHER - Quaternary

**Elevation:** 3412.3

**True Vertical Depth:** 0

**Measured Depth:** 0

**Mineral Resource(s):**

NONE

**Is this a producing formation?** N

**ID:** Formation 1

**Name:** RUSTLER

**Lithology(ies):**

DOLOMITE

**Elevation:** 2810.3

**True Vertical Depth:** 602

**Measured Depth:** 602

**Mineral Resource(s):**

NONE

**Is this a producing formation?** N

**ID:** Formation 2

**Name:** SALADO

**Lithology(ies):**

SALT

**Elevation:** 2474.3

**True Vertical Depth:** 938

**Measured Depth:** 938

**Mineral Resource(s):**

NONE

**Is this a producing formation?** N

**Operator Name:** DEVON ENERGY PRODUCTION COMPANY LP

**Well Name:** COTTON DRAW UNIT

**Well Number:** 497H

**ID:** Formation 3

**Name:** BASE OF SALT

**Lithology(ies):**

SALT

**Elevation:** -767.6999999999998

**True Vertical Depth:** 4180

**Measured Depth:** 4180

**Mineral Resource(s):**

NONE

**Is this a producing formation?** N

**ID:** Formation 4

**Name:** DELAWARE

**Lithology(ies):**

SANDSTONE

**Elevation:** -999.6999999999998

**True Vertical Depth:** 4412

**Measured Depth:** 4412

**Mineral Resource(s):**

NATURAL GAS

OIL

**Is this a producing formation?** Y

**ID:** Formation 5

**Name:** LAMAR

**Lithology(ies):**

SANDSTONE

**Elevation:** -999.6999999999998

**True Vertical Depth:** 4412

**Measured Depth:** 4412

**Mineral Resource(s):**

NATURAL GAS

OIL

**Is this a producing formation?** N

**ID:** Formation 6

**Name:** BELL CANYON

**Lithology(ies):**

SANDSTONE

**Elevation:** -1030.6999999999998

**True Vertical Depth:** 4443

**Measured Depth:** 4443

**Operator Name:** DEVON ENERGY PRODUCTION COMPANY LP

**Well Name:** COTTON DRAW UNIT

**Well Number:** 497H

**Mineral Resource(s):**

NATURAL GAS

OIL

**Is this a producing formation?** N

**ID:** Formation 7

**Name:** CHERRY CANYON

**Lithology(ies):**

SANDSTONE

**Elevation:** -1950.6999999999998

**True Vertical Depth:** 5363

**Measured Depth:** 5363

**Mineral Resource(s):**

NATURAL GAS

OIL

**Is this a producing formation?** N

**ID:** Formation 8

**Name:** BRUSHY CANYON

**Lithology(ies):**

SANDSTONE

**Elevation:** -3257.7

**True Vertical Depth:** 6670

**Measured Depth:** 6670

**Mineral Resource(s):**

NATURAL GAS

OIL

**Is this a producing formation?** N

**ID:** Formation 9

**Name:** BRUSHY CANYON LOWER

**Lithology(ies):**

SANDSTONE

**Elevation:** -4673.7

**True Vertical Depth:** 8086

**Measured Depth:** 8086

**Mineral Resource(s):**

NATURAL GAS

OIL

**Is this a producing formation?** Y



**Operator Name:** DEVON ENERGY PRODUCTION COMPANY LP

**Well Name:** COTTON DRAW UNIT

**Well Number:** 497H

## Section 2 - Blowout Prevention

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**Pressure Rating (PSI):** 3M

**Rating Depth:** 4205

**Equipment:** 3M rotating head, mud-gas separator, panic line, and flare will be rigged up prior to drilling out surface casing.

**Requesting Variance?** YES

**Variance request:** A variance is requested for the use of a flexible choke line from the BOP stack to the choke manifold. See attached for specs for hydrostatic test chart.

**Testing Procedure:** A multibowl wellhead may be used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. Devon proposes using a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 3000 (3M) psi. • Wellhead will be installed by wellhead representatives. • If the welding is performed by a third party, the wellhead representative will monitor the temperature to verify that it does not exceed the maximum temperature of the seal. • Wellhead representative will install the test plug for the initial BOP test. • Wellhead company will install a solid steel body pack-off to completely isolate the lower head after cementing intermediate casing. After installation of the pack-off, the pack-off and the lower flange will be tested to 3M, as shown on the attached schematic. Everything above the pack-off will not have been altered whatsoever from the initial nipple up. Therefore the BOP components will not be retested at that time. • If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head will be cut and top out operations will be conducted.

**Choke Diagram Attachment:**

CDU 497H\_3M BOPE Double Ram and CLS Schem -Use\_07-21-2016.pdf

**BOP Diagram Attachment:**

CDU 497H\_3M BOPE Double Ram and CLS Schem -Use\_07-21-2016.pdf

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**Pressure Rating (PSI):** 3M

**Rating Depth:** 8154

**Equipment:** 3M rotating head, mud-gas separator, panic line, and flare will be rigged up prior to drilling out surface casing.

**Requesting Variance?** YES

**Variance request:** A variance is requested for the use of a flexible choke line from the BOP stack to the choke manifold. See attached for specs for hydrostatic test chart.

**Testing Procedure:** A multibowl wellhead may be used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. Devon proposes using a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 3000 (3M) psi.

**Choke Diagram Attachment:**

3M BOPE Double Ram and CLS Schem -Use\_07-21-2016.pdf

**BOP Diagram Attachment:**

3M BOPE Double Ram and CLS Schem -Use\_07-21-2016.pdf

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## Section 3 - Casing

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**Operator Name:** DEVON ENERGY PRODUCTION COMPANY LP

**Well Name:** COTTON DRAW UNIT

**Well Number:** 497H

**String Type:** INTERMEDIATE

**Other String Type:**

**Hole Size:** 12.25

**Top setting depth MD:** 0

**Top setting depth TVD:** 0

**Top setting depth MSL:** 3412

**Bottom setting depth MD:** 4205

**Bottom setting depth TVD:** 4205

**Bottom setting depth MSL:** -793

**Calculated casing length MD:** 4205

**Casing Size:** 9.625

**Other Size**

**Grade:** J-55

**Other Grade:**

**Weight:** 40

**Joint Type:** LTC

**Other Joint Type:**

**Condition:** NEW

**Inspection Document:**

**Standard:** API

**Spec Document:**

**Tapered String?:** N

**Tapered String Spec:**

### **Safety Factors**

**Collapse Design Safety Factor:** 1.19

**Burst Design Safety Factor:** 1.42

**Joint Tensile Design Safety Factor type:** BUOYANT

**Joint Tensile Design Safety Factor:** 3.98

**Body Tensile Design Safety Factor type:** BUOYANT

**Body Tensile Design Safety Factor:** 3.98

**Casing Design Assumptions and Worksheet(s):**

CDU 497H\_Intermediate Casing Assumptions\_07-21-2016\_07-21-2016.pdf

**Operator Name:** DEVON ENERGY PRODUCTION COMPANY LP

**Well Name:** COTTON DRAW UNIT

**Well Number:** 497H

**String Type:** PRODUCTION

**Other String Type:**

**Hole Size:** 8.75

**Top setting depth MD:** 0

**Top setting depth TVD:** 0

**Top setting depth MSL:** 3412

**Bottom setting depth MD:** 12398

**Bottom setting depth TVD:** 8155

**Bottom setting depth MSL:** -4743

**Calculated casing length MD:** 12398

**Casing Size:** 5.5

**Other Size**

**Grade:** P-110

**Other Grade:**

**Weight:** 17

**Joint Type:** BUTT

**Other Joint Type:**

**Condition:** NEW

**Inspection Document:**

**Standard:** API

**Spec Document:**

**Tapered String?:** N

**Tapered String Spec:**

### **Safety Factors**

**Collapse Design Safety Factor:** 2.18

**Burst Design Safety Factor:** 2.7

**Joint Tensile Design Safety Factor type:** BUOYANT

**Joint Tensile Design Safety Factor:** 3.21

**Body Tensile Design Safety Factor type:** BUOYANT

**Body Tensile Design Safety Factor:** 3.21

**Casing Design Assumptions and Worksheet(s):**

CDU 497H\_Production Casing Assumptions\_07-08-2016\_07-21-2016.pdf



**Operator Name:** DEVON ENERGY PRODUCTION COMPANY LP

**Well Name:** COTTON DRAW UNIT

**Well Number:** 497H

**String Type:** SURFACE

**Other String Type:**

**Hole Size:** 17.5

**Top setting depth MD:** 0

**Top setting depth TVD:** 0

**Top setting depth MSL:** 3412

**Bottom setting depth MD:** 630

**Bottom setting depth TVD:** 630

**Bottom setting depth MSL:** 2782

**Calculated casing length MD:** 630

**Casing Size:** 13.375

**Other Size**

**Grade:** H-40

**Other Grade:**

**Weight:** 48

**Joint Type:** STC

**Other Joint Type:**

**Condition:** NEW

**Inspection Document:**

**Standard:** API

**Spec Document:**

**Tapered String?:** N

**Tapered String Spec:**

### **Safety Factors**

**Collapse Design Safety Factor:** 1.74

**Burst Design Safety Factor:** 2.45

**Joint Tensile Design Safety Factor type:** BUOYANT

**Joint Tensile Design Safety Factor:** 4.13

**Body Tensile Design Safety Factor type:** BUOYANT

**Body Tensile Design Safety Factor:** 4.13

**Casing Design Assumptions and Worksheet(s):**

CDU 497H\_Surface Casing Assumptions\_07-21-2016.pdf

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### **Section 4 - Cement**

**Casing String Type:** SURFACE

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: COTTON DRAW UNIT

Well Number: 497H

**Stage Tool Depth:**

Lead

Top MD of Segment: 0

Bottom MD Segment: 630

Cement Type: C

Additives: 1% Calcium Chloride

Quantity (sks): 490

Yield (cu.ff./sk): 1.34

Density: 14.8

Volume (cu.ft.): 657

Percent Excess: 50

**Casing String Type: INTERMEDIATE**

**Stage Tool Depth:**

Lead

Top MD of Segment: 0

Bottom MD Segment: 3205

Cement Type: C

Additives: Poz (Fly Ash): 6% BWOC  
Bentonite + 5% BWOW Sodium  
Chloride + 0.125 lbs/sks Poly-E-Flake

Quantity (sks): 706

Yield (cu.ff./sk): 1.85

Density: 12.9

Volume (cu.ft.): 1305

Percent Excess: 30

Tail

Top MD of Segment: 3205

Bottom MD Segment: 4205

Cement Type: C

Additives: 0.125 lbs/sks Poly-R-Flake

Quantity (sks): 310

Yield (cu.ff./sk): 1.33

Density: 14.8

Volume (cu.ft.): 410

Percent Excess: 30

**Casing String Type: PRODUCTION**

**Stage Tool Depth: 4255**

Lead

Top MD of Segment: 4005

Bottom MD Segment: 4155

Cement Type: C

Additives: Enhancer 923 + 10% BWOC  
Bentonite + 0.05% BWOC SA-1015 +  
0.3% BWOC HR-800 + 0.2% BWOC  
FE-2 + 0.125 lb/sk Pol-E-Flake + 0.5  
lb/sk D-Air 5000

Quantity (sks): 20

Yield (cu.ff./sk): 3.31

Density: 10.9

Volume (cu.ft.): 66

Percent Excess: 25

Tail

Density: 10.9

Bottom MD Segment: 4255

Cement Type: H

Quantity (sks): 30

Yield (cu.ff./sk): 1.33

Top MD of Segment: 4155

Volume (cu.ft.): 39

Percent Excess: 25

Additives: 0.125 lbs/sack Poly-E-Flake

Density: 14.8

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: COTTON DRAW UNIT

Well Number: 497H

Stage Tool Depth: 4255

Lead

Top MD of Segment: 4255

Bottom MD Segment: 8050

Cement Type: C

Additives: Enhancer 923 + 10% BWOC Quantity (sks): 334

Yield (cu.ff./sk): 3.31

Bentonite + 0.05% BWOC SA-1015 +

Volume (cu.ft.): 1103

Percent Excess: 25

0.3% BWOC HR-800 + 0.2% BWOC

FF-2 + 0.125 lb/sk Pol-E-Flake + 0.5

lb/sk D-Air 5000

Density: 10.9

Bottom MD Segment: 12398

Cement Type: H

Quantity (sks): 1053

Yield (cu.ff./sk): 1.2

Top MD of Segment: 8050

Volume (cu.ft.): 1263

Percent Excess: 25

Additives: Poz (Fly Ash) + 0.5% bwoc

HALAD-344 + 0.4% bwoc CFR-3 +

0.2% BWOC HR-601 + 2% bwoc

Bentonite

Density: 14.5

Stage Tool Depth: 4255

Lead

Top MD of Segment: 4005

Bottom MD Segment: 8050

Cement Type: TUNED

Additives: NA

Quantity (sks): 360

Yield (cu.ff./sk): 3.27

Density: 9

Volume (cu.ft.): 1175

Percent Excess: 25

Tail

Top MD of Segment: 8050

Bottom MD Segment: 12398

Cement Type: H

Additives: Poz (Fly Ash) + 0.5% bwoc

Quantity (sks): 1053

Yield (cu.ff./sk): 1.2

HALAD-344 + 0.4% bwoc CFR-3 +

0.2% BWOC HR-601 + 2% bwoc

Bentonite

Density: 14.5

Volume (cu.ft.): 1263

Percent Excess: 25



**Operator Name:** DEVON ENERGY PRODUCTION COMPANY LP

**Well Name:** COTTON DRAW UNIT

**Well Number:** 497H

### Section 5 - Circulating Medium

**Mud System Type:** Closed

**Will an air or gas system be Used?** NO

**Description of the equipment for the circulating system in accordance with Onshore Order #2:**

**Diagram of the equipment for the circulating system in accordance with Onshore Order #2:**

**Describe what will be on location to control well or mitigate other conditions:** Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

**Describe the mud monitoring system utilized:** PVT/Pason/Visual Monitoring

### Circulating Medium Table

<b>Top Depth:</b> 0	<b>Bottom Depth:</b> 630
<b>Mud Type:</b> WATER-BASED MUD	
<b>Min Weight (lbs./gal.):</b> 8.5	<b>Max Weight (lbs./gal.):</b> 9
<b>Density (lbs/cu.ft.):</b>	<b>Gel Strength (lbs/100 sq.ft.):</b>
<b>PH:</b>	<b>Viscosity (CP):</b> 2
<b>Filtration (cc):</b>	<b>Salinity (ppm):</b>
<b>Additional Characteristics:</b>	
<b>Top Depth:</b> 630	<b>Bottom Depth:</b> 4205
<b>Mud Type:</b> INVERT MUD SYSTEM	
<b>Min Weight (lbs./gal.):</b> 10	<b>Max Weight (lbs./gal.):</b> 11
<b>Density (lbs/cu.ft.):</b>	<b>Gel Strength (lbs/100 sq.ft.):</b>
<b>PH:</b>	<b>Viscosity (CP):</b> 2
<b>Filtration (cc):</b>	<b>Salinity (ppm):</b>
<b>Additional Characteristics:</b>	

**Operator Name:** DEVON ENERGY PRODUCTION COMPANY LP

**Well Name:** COTTON DRAW UNIT

**Well Number:** 497H

**Top Depth:** 4205

**Bottom Depth:** 12398

**Mud Type:** WATER-BASED MUD

**Min Weight (lbs./gal.):** 8.5

**Max Weight (lbs./gal.):** 9.3

**Density (lbs/cu.ft.):**

**Gel Strength (lbs/100 sq.ft.):**

**PH:**

**Viscosity (CP):** 12

**Filtration (cc):**

**Salinity (ppm):**

**Additional Characteristics:**

## Section 6 - Test, Logging, Coring

**List of production tests including testing procedures, equipment and safety measures:**

MWD gamma

**List of open and cased hole logs run in the well:**

CALIPER,DS,GR,MWD,MUDLOG

**Coring operation description for the well:**

N/A

## Section 7 - Pressure

**Anticipated Bottom Hole Pressure:** 3670

**Anticipated Surface Pressure:** 2001.96

**Anticipated Bottom Hole Temperature(F):** 140

**Anticipated abnormal pressures, temperatures, or potential geologic hazards?** NO

**Describe:**

**Contingency Plans geohazards description:**

**Contingency Plans geohazards attachment:**

**Hydrogen Sulfide drilling operations plan required?** YES

**Hydrogen sulfide drilling operations plan:**

CDU 497H\_H2S Plan\_07-21-2016.pdf

**Operator Name:** DEVON ENERGY PRODUCTION COMPANY LP

**Well Name:** COTTON DRAW UNIT

**Well Number:** 497H

## Section 8 - Other Information

**Proposed horizontal/directional/multi-lateral plan submission:**

CDU 497H\_Directional Plan\_07-21-2016.pdf

**Other proposed operations facets description:**

Multi-Bowl Wellhead  
Multi-Bowl Verbiage  
Closed Loop Design Plan  
Cement Table

**Other proposed operations facets attachment:**

CDU 497H\_Multi-Bowl Wellhead\_07-21-2016.pdf  
CDU 497H\_Multi-Bowl Verbiage\_3M\_07-21-2016.pdf  
CDU 497H\_Closed Loop Design Plan\_07-21-2016.pdf  
CDU 497H\_Cement Table\_09-01-2016.pdf

**Other Variance attachment:**

CDU 497H\_H\_P Co-flex hose\_07-21-2016.pdf

SUPO

## Section 1 - Existing Roads

**Will existing roads be used?** YES

**Existing Road Map:**

CDU 497H\_Existing Access Rd\_07-21-2016.pdf

**Existing Road Purpose:** ACCESS,FLUID TRANSPORT

**Row(s) Exist?** NO

### ROW ID(s)

**ID:**

**Do the existing roads need to be improved?** YES

**Existing Road Improvement Description:** Improve road to accommodate Drilling and Completion operations.

**Existing Road Improvement Attachment:**



**Operator Name:** DEVON ENERGY PRODUCTION COMPANY LP

**Well Name:** COTTON DRAW UNIT

**Well Number:** 497H

## Section 2 - New or Reconstructed Access Roads

**Will new roads be needed?** YES

**New Road Map:**

CDU\_448H\_284H\_497H\_Access Rd\_07-21-2016.pdf

**New road type:** COLLECTOR,RESOURCE

**Length:** 188

Feet

**Width (ft.):** 25

**Max slope (%):** 2

**Max grade (%):** 4

**Army Corp of Engineers (ACOE) permit required?** NO

**ACOE Permit Number(s):**

**New road travel width:** 14

**New road access erosion control:** Water drainage ditch

**New road access plan or profile prepared?** YES

**New road access plan attachment:**

CDU\_448H\_284H\_497H\_Access Rd\_07-21-2016.pdf

**Access road engineering design?** NO

**Access road engineering design attachment:**

**Access surfacing type:** GRAVEL

**Access topsoil source:** ONSITE

**Access surfacing type description:**

**Access onsite topsoil source depth:** 6

**Offsite topsoil source description:**

**Onsite topsoil removal process:** See attached reclamation diagram

**Access other construction information:**

**Access miscellaneous information:**

**Number of access turnouts:**

**Access turnout map:**

### Drainage Control

**New road drainage crossing:** OTHER

**Drainage Control comments:** NA

**Road Drainage Control Structures (DCS) description:** NA

**Road Drainage Control Structures (DCS) attachment:**

### Access Additional Attachments

**Operator Name:** DEVON ENERGY PRODUCTION COMPANY LP

**Well Name:** COTTON DRAW UNIT

**Well Number:** 497H

**Additional Attachment(s):**

### Section 3 - Location of Existing Wells

**Existing Wells Map?** YES

**Attach Well map:**

CDU 497H\_1 Mile\_07-21-2016.pdf

**Existing Wells description:**

### Section 4 - Location of Existing and/or Proposed Production Facilities

**Submit or defer a Proposed Production Facilities plan?** DEFER

**Estimated Production Facilities description:** Cotton Draw Unit 13-18 DL CTB

### Section 5 - Location and Types of Water Supply

#### Water Source Table

**Water source use type:** STIMULATION

**Water source type:** RECYCLED

**Describe type:**

**Source latitude:**

**Source longitude:**

**Source datum:**

**Water source permit type:** OTHER

**Source land ownership:** FEDERAL

**Water source transport method:** PIPELINE,TRUCKING

**Source transportation land ownership:** FEDERAL

**Water source volume (barrels):** 170000

**Source volume (acre-feet):** 21.911827

**Source volume (gal):** 7140000

**Water source and transportation map:**

CDU 448H, 284H, 497H\_wtr xfer map\_07-21-2016.pdf

**Water source comments:**

**New water well?** NO

#### New Water Well Info

**Well latitude:**

**Well Longitude:**

**Well datum:**

**Operator Name:** DEVON ENERGY PRODUCTION COMPANY LP

**Well Name:** COTTON DRAW UNIT

**Well Number:** 497H

**Well target aquifer:**

**Est. depth to top of aquifer(ft):**

**Est thickness of aquifer:**

**Aquifer comments:**

**Aquifer documentation:**

**Well depth (ft):**

**Well casing type:**

**Well casing outside diameter (in.):**

**Well casing inside diameter (in.):**

**New water well casing?**

**Used casing source:**

**Drilling method:**

**Drill material:**

**Grout material:**

**Grout depth:**

**Casing length (ft.):**

**Casing top depth (ft.):**

**Well Production type:**

**Completion Method:**

**Water well additional information:**

**State appropriation permit:**

**Additional information attachment:**

## **Section 6 - Construction Materials**

**Construction Materials description:** Dirt fill and Caliche will be used to construct well pad.

**Construction Materials source location attachment:**

## **Section 7 - Methods for Handling Waste**

**Waste type:** DRILLING

**Waste content description:** Water Based Cuttings.

**Amount of waste:** 1100 barrels

**Waste disposal frequency :** Daily

**Safe containment description:** All cuttings will be contained within waste vendors haul bins which contain a spill prevention mechanism.

**Safe containmant attachment:**

**Waste disposal type:** HAUL TO COMMERCIAL FACILITY

**Disposal location ownership:** PRIVATE

**Disposal type description:**

**Disposal location description:** All cuttings will disposed of at R360, Sundance, or equivalent.

**Waste type:** FLOWBACK

**Waste content description:** Produced water during flowback operations. This amount is a daily average during flowback (BWPD).

**Amount of waste:** 1500 barrels

**Waste disposal frequency :** Daily

**Operator Name:** DEVON ENERGY PRODUCTION COMPANY LP

**Well Name:** COTTON DRAW UNIT

**Well Number:** 497H

**Safe containment description:** No required field, no asterisk

**Safe containmant attachment:**

**Waste disposal type:** ON-LEASE INJECTION      **Disposal location ownership:** PRIVATE

**Disposal type description:**

**Disposal location description:** One of three company owned SWD facilities in the area: CDU 181, CDU 89, CDU 84.

**Waste type:** COMPLETIONS/STIMULATION

**Waste content description:** Flow back water during completion operations.

**Amount of waste:** 3000      barrels

**Waste disposal frequency :** One Time Only

**Safe containment description:** Not a required field, no asterisk

**Safe containmant attachment:**

**Waste disposal type:** HAUL TO COMMERCIAL      **Disposal location ownership:** COMMERCIAL  
FACILITY

**Disposal type description:**

**Disposal location description:** Various disposal locations in Lea and Eddy counties.

**Waste type:** PRODUCED WATER

**Waste content description:** Produced water during production operations. This amount is a daily average during the first year of production (BWPD).

**Amount of waste:** 1000      barrels

**Waste disposal frequency :** Daily

**Safe containment description:** Not a required field, no asterisk

**Safe containmant attachment:**

**Waste disposal type:** ON-LEASE INJECTION      **Disposal location ownership:** PRIVATE

**Disposal type description:**

**Disposal location description:** One of three company owned SWD facilities in the area: CDU 181, CDU 89, CDU 84.

### Reserve Pit

**Reserve Pit being used?** NO

**Temporary disposal of produced water into reserve pit?**

**Reserve pit length (ft.)**      **Reserve pit width (ft.)**

**Reserve pit depth (ft.)**      **Reserve pit volume (cu. yd.)**

**Is at least 50% of the reserve pit in cut?**

**Reserve pit liner**



**Operator Name:** DEVON ENERGY PRODUCTION COMPANY LP

**Well Name:** COTTON DRAW UNIT

**Well Number:** 497H

**Reserve pit liner specifications and installation description**

### Cuttings Area

**Cuttings Area being used?** NO

**Are you storing cuttings on location?** NO

**Description of cuttings location**

**Cuttings area length (ft.)**

**Cuttings area width (ft.)**

**Cuttings area depth (ft.)**

**Cuttings area volume (cu. yd.)**

**Is at least 50% of the cuttings area in cut?**

**WCuttings area liner**

**Cuttings area liner specifications and installation description**

### Section 8 - Ancillary Facilities

**Are you requesting any Ancillary Facilities?:** NO

**Ancillary Facilities attachment:**

**Comments:**

### Section 9 - Well Site Layout

**Well Site Layout Diagram:**

CDU 497H\_3 Well Pad Rig Location Layout\_07-21-2016.pdf

**Comments:**

### Section 10 - Plans for Surface Reclamation

**Type of disturbance:** NEW

**Recontouring attachment:**

Interim Site Reclamation\_07-21-2016.pdf

**Drainage/Erosion control construction:** All areas disturbed shall be reclaimed as early and as nearly as practicable to their original condition or their final land use and shall be maintained to control dust and minimize erosion to the extent practicable.

**Drainage/Erosion control reclamation:** All areas disturbed shall be reclaimed as early and as nearly as practicable to their original condition or their final land use and shall be maintained to control dust and minimize erosion to the extent practicable.

**Wellpad long term disturbance (acres):** 1.838

**Wellpad short term disturbance (acres):** 4.157

**Access road long term disturbance (acres):** 0.086

**Access road short term disturbance (acres):** 0.086

**Pipeline long term disturbance (acres):** 1.966949

**Pipeline short term disturbance (acres):** 1.966949

**Operator Name:** DEVON ENERGY PRODUCTION COMPANY LP

**Well Name:** COTTON DRAW UNIT

**Well Number:** 497H

**Other long term disturbance (acres):** 0.135

**Other short term disturbance (acres):** 0.135

**Total long term disturbance:** 4.025949

**Total short term disturbance:** 6.3449492

**Reconstruction method:** Operator will use Best Management Practices"BMP" to mechanically recontour to obtain the desired outcome.

**Topsoil redistribution:** Topsoils shall be replaced to their original relative positions and contoured so as to achieve erosion control, long-term stability and preservation of surface water flow patterns.

**Soil treatment:** Topsoils shall be replaced to their original relative positions and contoured so as to achieve erosion control, long-term stability and preservation of surface water flow patterns.

**Existing Vegetation at the well pad:** Grasses and mesquite.

**Existing Vegetation at the well pad attachment:**

**Existing Vegetation Community at the road:** Grasses and mesquite.

**Existing Vegetation Community at the road attachment:**

**Existing Vegetation Community at the pipeline:** Grasses and mesquite.

**Existing Vegetation Community at the pipeline attachment:**

**Existing Vegetation Community at other disturbances:** Grasses and mesquite.

**Existing Vegetation Community at other disturbances attachment:**

**Non native seed used?** NO

**Non native seed description:**

**Seedling transplant description:**

**Will seedlings be transplanted for this project?** NO

**Seedling transplant description attachment:**

**Will seed be harvested for use in site reclamation?** NO

**Seed harvest description:**

**Seed harvest description attachment:**

## Seed Management

### Seed Table

**Seed type:**

**Seed source:**

**Seed name:**

**Source name:**

**Source address:**

**Source phone:**

**Seed cultivar:**

**Seed use location:**

**PLS pounds per acre:**

**Proposed seeding season:**

### Seed Summary

**Total pounds/Acre:**

**Seed Type**

**Pounds/Acre**

**Operator Name:** DEVON ENERGY PRODUCTION COMPANY LP

**Well Name:** COTTON DRAW UNIT

**Well Number:** 497H

**Seed reclamation attachment:**

### **Operator Contact/Responsible Official Contact Info**

**First Name:** Mark

**Last Name:** Smith

**Phone:** (575)746-5559

**Email:** mark.smith@dvn.com

**Seedbed prep:**

**Seed BMP:**

**Seed method:**

**Existing invasive species?** NO

**Existing invasive species treatment description:**

**Existing invasive species treatment attachment:**

**Weed treatment plan description:** Maintain weeds on an as need basis.

**Weed treatment plan attachment:**

**Monitoring plan description:** Monitor as needed.

**Monitoring plan attachment:**

**Success standards:** N/A

**Pit closure description:** No asterisk, not required.

**Pit closure attachment:**

### **Section 11 - Surface Ownership**

**Disturbance type:** NEW ACCESS ROAD

**Describe:**

**Surface Owner:** BUREAU OF LAND MANAGEMENT

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:**

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**Operator Name:** DEVON ENERGY PRODUCTION COMPANY LP

**Well Name:** COTTON DRAW UNIT

**Well Number:** 497H

**USFS Region:**

**USFS Forest/Grassland:**

**USFS Ranger District:**

**Disturbance type:** EXISTING ACCESS ROAD

**Describe:**

**Surface Owner:** BUREAU OF LAND MANAGEMENT

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:**

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:**

**USFS Ranger District:**

**Disturbance type:** WELL PAD

**Describe:**

**Surface Owner:** BUREAU OF LAND MANAGEMENT

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:**



**Operator Name:** DEVON ENERGY PRODUCTION COMPANY LP

**Well Name:** COTTON DRAW UNIT

**Well Number:** 497H

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:**

**USFS Ranger District:**

**Disturbance type:** PIPELINE

**Describe:**

**Surface Owner:** BUREAU OF LAND MANAGEMENT

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:**

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:**

**USFS Ranger District:**

## **Section 12 - Other Information**

**Right of Way needed?** NO

**Use APD as ROW?**

**ROW Type(s):**

### **ROW Applications**

**Operator Name:** DEVON ENERGY PRODUCTION COMPANY LP

**Well Name:** COTTON DRAW UNIT

**Well Number:** 497H

**SUPO Additional Information:** Flowline Survey Electrical Survey

**Use a previously conducted onsite?** NO

**Previous Onsite information:**

### **Other SUPO Attachment**

CDU 497H\_Flowline 6\_IN\_GL\_FL\_CDU\_497H\_TO\_CDU\_13\_18\_DL\_CTB\_P\_07-21-2016.pdf

CDU 497H\_Existing Access Rd\_07-21-2016.pdf

PWD

## **Section 1 - General**

**Would you like to address long-term produced water disposal?** NO

## **Section 2 - Lined Pits**

**Would you like to utilize Lined Pit PWD options?** NO

**Produced Water Disposal (PWD) Location:**

**PWD surface owner:**

**PWD disturbance (acres):**

**Lined pit PWD on or off channel:**

**Lined pit PWD discharge volume (bbl/day):**

**Lined pit specifications:**

**Pit liner description:**

**Pit liner manufacturers information:**

**Precipitated solids disposal:**

**Describe precipitated solids disposal:**

**Precipitated solids disposal permit:**

**Lined pit precipitated solids disposal schedule:**

**Lined pit precipitated solids disposal schedule attachment:**

**Operator Name:** DEVON ENERGY PRODUCTION COMPANY LP

**Well Name:** COTTON DRAW UNIT

**Well Number:** 497H

**Lined pit reclamation description:**

**Lined pit reclamation attachment:**

**Leak detection system description:**

**Leak detection system attachment:**

**Lined pit Monitor description:**

**Lined pit Monitor attachment:**

**Lined pit: do you have a reclamation bond for the pit?**

**Is the reclamation bond a rider under the BLM bond?**

**Lined pit bond number:**

**Lined pit bond amount:**

**Additional bond information attachment:**

### **Section 3 - Unlined Pits**

**Would you like to utilize Unlined Pit PWD options?** NO

**Produced Water Disposal (PWD) Location:**

**PWD surface owner:**

**PWD disturbance (acres):**

**Unlined pit PWD on or off channel:**

**Unlined pit PWD discharge volume (bbl/day):**

**Unlined pit specifications:**

**Precipitated solids disposal:**

**Describe precipitated solids disposal:**

**Precipitated solids disposal permit:**

**Unlined pit precipitated solids disposal schedule:**

**Unlined pit precipitated solids disposal schedule attachment:**

**Unlined pit reclamation description:**

**Unlined pit reclamation attachment:**

**Unlined pit Monitor description:**

**Unlined pit Monitor attachment:**

**Do you propose to put the produced water to beneficial use?**

**Beneficial use user confirmation:**

**Estimated depth of the shallowest aquifer (feet):**

**Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?**

**TDS lab results:**

**Operator Name:** DEVON ENERGY PRODUCTION COMPANY LP

**Well Name:** COTTON DRAW UNIT

**Well Number:** 497H

**Geologic and hydrologic evidence:**

**State authorization:**

**Unlined Produced Water Pit Estimated percolation:**

**Unlined pit: do you have a reclamation bond for the pit?**

**Is the reclamation bond a rider under the BLM bond?**

**Unlined pit bond number:**

**Unlined pit bond amount:**

**Additional bond information attachment:**

## **Section 4 - Injection**

**Would you like to utilize Injection PWD options? NO**

**Produced Water Disposal (PWD) Location:**

**PWD surface owner:**

**PWD disturbance (acres):**

**Injection PWD discharge volume (bbl/day):**

**Injection well mineral owner:**

**Injection well type:**

**Injection well number:**

**Injection well name:**

**Assigned injection well API number?**

**Injection well API number:**

**Injection well new surface disturbance (acres):**

**Minerals protection information:**

**Mineral protection attachment:**

**Underground Injection Control (UIC) Permit?**

**UIC Permit attachment:**

## **Section 5 - Surface Discharge**

**Would you like to utilize Surface Discharge PWD options? NO**

**Produced Water Disposal (PWD) Location:**

**PWD surface owner:**

**PWD disturbance (acres):**

**Surface discharge PWD discharge volume (bbl/day):**

**Surface Discharge NPDES Permit?**

**Surface Discharge NPDES Permit attachment:**

**Surface Discharge site facilities information:**

**Surface discharge site facilities map:**



**Operator Name:** DEVON ENERGY PRODUCTION COMPANY LP

**Well Name:** COTTON DRAW UNIT

**Well Number:** 497H

## Section 6 - Other

**Would you like to utilize Other PWD options?** NO

**Produced Water Disposal (PWD) Location:**

**PWD surface owner:**

**PWD disturbance (acres):**

**Other PWD discharge volume (bbl/day):**

**Other PWD type description:**

**Other PWD type attachment:**

**Have other regulatory requirements been met?**

**Other regulatory requirements attachment:**

## Bond Info

### Bond Information

**Federal/Indian APD:** FED

**BLM Bond number:** CO1104

**BIA Bond number:**

**Do you have a reclamation bond?** NO

**Is the reclamation bond a rider under the BLM bond?**

**Is the reclamation bond BLM or Forest Service?**

**BLM reclamation bond number:**

**Forest Service reclamation bond number:**

**Forest Service reclamation bond attachment:**

**Reclamation bond number:**

**Reclamation bond amount:**

**Reclamation bond rider amount:**

**Additional reclamation bond information attachment:**

## Operator Certification

### Operator Certification

*I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.*

**Operator Name:** DEVON ENERGY PRODUCTION COMPANY LP

**Well Name:** COTTON DRAW UNIT

**Well Number:** 497H

**NAME:** Linda Good

**Signed on:** 07/21/2016

**Title:** Regulatory Compliance Professional

**Street Address:** 333 West Sheridan Avenue

**City:** Oklahoma City

**State:** OK

**Zip:** 73102

**Phone:** (405)552-6558

**Email address:** Linda.Good@dvn.com

### Field Representative

**Representative Name:** Brad Oates

**Street Address:** 6488 Seven Rivers Hwy

**City:** Artesia

**State:** NM

**Zip:** 88210

**Phone:** (575)748-1810

**Email address:** brad.oates@dvn.com

### Payment Info

#### Payment

**APD Fee Payment Method:** PAY.GOV

**pay.gov Tracking ID:** 25SSPS0I