



U.S. Department of the Interior  
BUREAU OF LAND MANAGEMENT

## APD Print Report

03/20/2017

APD ID: 10400005193

Submission Date: 09/01/2016

Highlight  
All Changes

Operator Name: DEVON ENERGY PRODUCTION COMPANY  
LP

Federal/Indian APD: FED

Well Name: THISTLE UNIT

Well Number: 119H

Well Type: OIL WELL

Well Work Type: Drill

### Application

#### Section 1 - General

APD ID: 10400005193

Tie to previous NOS?

Submission Date: 09/01/2016

BLM Office: HOBBS

User: Rebecca Deal

Title: Regulatory Compliance  
Professional

Federal/Indian APD: FED

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

Lease number: NMNM 94186

Lease Acres: 960

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:** THISTLE UNIT

**Well Number:** 119H

**Well Name:** THISTLE UNIT

**Well Number:** 119H

**Well API Number:**

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

**Field Name:** TRIPLE X

**Pool Name:** BONE SPRING

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

**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:** 105H, 108H, 119H, & 121H

**Well Class:** HORIZONTAL

**THISTLE UNIT**  
**Number of Legs:**

**Well Work Type:** Drill

**Well Type:** OIL WELL

**Describe Well Type:**

**Well sub-Type:** INFILL

**Describe sub-type:**

**Distance to town:**

**Distance to nearest well:** 170 FT

**Distance to lease line:** 285 FT

**Reservoir well spacing assigned acres Measurement:** 240 Acres

**Well plat:** THISTLE UNIT 119H\_C-102 Signed\_09-01-2016.pdf

**Well work start Date:** 09/05/2018

**Duration:** 45 DAYS

### Section 3 - Well Location Table

**Survey Type:** RECTANGULAR

**Describe Survey Type:**

**Datum:** NAD83

**Vertical Datum:** NAVD88

**Survey number:** 4726

**STATE:** NEW MEXICO

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

**Latitude:** 32.2966939

**Longitude:** -103.5713478

**SHL**

**Elevation:** 3722

**MD:** 0

**TVD:** 0

**Leg #:** 1

**Lease Type:** FEDERAL

**Lease #:** NMNM94186

**NS-Foot:** 285

**NS Indicator:** FNL

**EW-Foot:** 800

**EW Indicator:** FEL

**Twsp:** 23S

**Range:** 33E

**Section:** 21

**Aliquot:** NENE

**Lot:**

**Tract:**

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

**Well Name:** THISTLE UNIT

**Well Number:** 119H

	<b>STATE:</b> NEW MEXICO	<b>Meridian:</b> NEW MEXICO PRINCIPAL	<b>County:</b> LEA
	<b>Latitude:</b> 32.2966939	<b>Longitude:</b> -103.5713478	
KOP	<b>Elevation:</b> -5839	<b>MD:</b> 9579	<b>TVD:</b> 9561
<b>Leg #: 1</b>	<b>Lease Type:</b> FEDERAL	<b>Lease #:</b> NMNM94186	
	<b>NS-Foot:</b> 200	<b>NS Indicator:</b> FNL	
	<b>EW-Foot:</b> 410	<b>EW Indicator:</b> FEL	
	<b>Twsp:</b> 23S	<b>Range:</b> 33E	<b>Section:</b> 21
	<b>Aliquot:</b> NENE	<b>Lot:</b>	<b>Tract:</b>
	<b>STATE:</b> NEW MEXICO	<b>Meridian:</b> NEW MEXICO PRINCIPAL	<b>County:</b> LEA
	<b>Latitude:</b> 32.2966939	<b>Longitude:</b> -103.5713478	
PPP	<b>Elevation:</b> -6317	<b>MD:</b> 10321	<b>TVD:</b> 10039
<b>Leg #: 1</b>	<b>Lease Type:</b> FEDERAL	<b>Lease #:</b> NMNM94186	
	<b>NS-Foot:</b> 613	<b>NS Indicator:</b> FNL	
	<b>EW-Foot:</b> 410	<b>EW Indicator:</b> FEL	
	<b>Twsp:</b> 23S	<b>Range:</b> 33E	<b>Section:</b> 21
	<b>Aliquot:</b> NENE	<b>Lot:</b>	<b>Tract:</b>
	<b>STATE:</b> NEW MEXICO	<b>Meridian:</b> NEW MEXICO PRINCIPAL	<b>County:</b> LEA
	<b>Latitude:</b> 32.2757244	<b>Longitude:</b> -103.5730888	
EXIT	<b>Elevation:</b> -6425	<b>MD:</b> 17620	<b>TVD:</b> 10147
<b>Leg #: 1</b>	<b>Lease Type:</b> FEDERAL	<b>Lease #:</b> NMNM94186	
	<b>NS-Foot:</b> 2630	<b>NS Indicator:</b> FNL	
	<b>EW-Foot:</b> 1340	<b>EW Indicator:</b> FEL	
	<b>Twsp:</b> 23S	<b>Range:</b> 33E	<b>Section:</b> 28
	<b>Aliquot:</b> SENE	<b>Lot:</b>	<b>Tract:</b>
	<b>STATE:</b> NEW MEXICO	<b>Meridian:</b> NEW MEXICO PRINCIPAL	<b>County:</b> LEA
	<b>Latitude:</b> 32.2757244	<b>Longitude:</b> -103.5730888	
BHL	<b>Elevation:</b> -6425	<b>MD:</b> 17620	<b>TVD:</b> 10147
<b>Leg #: 1</b>	<b>Lease Type:</b> FEDERAL	<b>Lease #:</b> NMNM94186	
	<b>NS-Foot:</b> 2630	<b>NS Indicator:</b> FNL	
	<b>EW-Foot:</b> 1340	<b>EW Indicator:</b> FEL	

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

**Well Name:** THISTLE UNIT

**Well Number:** 119H

**Twsp:** 23S

**Range:** 33E

**Section:** 28

**Aliquot:** SENE

**Lot:**

**Tract:**

## Drilling Plan

### Section 1 - Geologic Formations

**ID:** Surface formation

**Name:** UNKNOWN

**Lithology(ies):**

**Elevation:** 3722

**True Vertical Depth:** 0

**Measured Depth:** 0

**Mineral Resource(s):**

NONE

**Is this a producing formation?** N

**ID:** Formation 1

**Name:** RUSTLER

**Lithology(ies):**

ANHYDRITE

**Elevation:** 2343

**True Vertical Depth:** 1379

**Measured Depth:** 1379

**Mineral Resource(s):**

NONE

**Is this a producing formation?** N

**ID:** Formation 2

**Name:** TOP OF SALT

**Lithology(ies):**

SALT

**Elevation:** 1847

**True Vertical Depth:** 1875

**Measured Depth:** 1875

**Mineral Resource(s):**

NONE

**Is this a producing formation?** N



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

**Well Name:** THISTLE UNIT

**Well Number:** 119H

**ID:** Formation 3

**Name:** BASE OF SALT

**Lithology(ies):**

SALT

**Elevation:** -1230

**True Vertical Depth:** 4952

**Measured Depth:** 4952

**Mineral Resource(s):**

NONE

**Is this a producing formation?** N

**ID:** Formation 4

**Name:** DELAWARE

**Lithology(ies):**

SANDSTONE

**Elevation:** -1494

**True Vertical Depth:** 5216

**Measured Depth:** 5216

**Mineral Resource(s):**

NATURAL GAS

OIL

**Is this a producing formation?** N

**ID:** Formation 5

**Name:** BRUSHY CANYON LOWER

**Lithology(ies):**

SANDSTONE

**Elevation:** -5163

**True Vertical Depth:** 8885

**Measured Depth:** 8885

**Mineral Resource(s):**

NATURAL GAS

OIL

**Is this a producing formation?** N

**ID:** Formation 6

**Name:** BONE SPRING LIME

**Lithology(ies):**

LIMESTONE

**Elevation:** -5396

**True Vertical Depth:** 9118

**Measured Depth:** 9118

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

**Well Name:** THISTLE UNIT

**Well Number:** 119H

**Mineral Resource(s):**

NATURAL GAS

OIL

**Is this a producing formation?** N

**ID:** Formation 7

**Name:** BONE SPRING

**Lithology(ies):**

SILTSTONE

**Elevation:** -5591

**True Vertical Depth:** 9313

**Measured Depth:** 9313

**Mineral Resource(s):**

NATURAL GAS

OIL

**Is this a producing formation?** N

**ID:** Formation 8

**Name:** BONE SPRING

**Lithology(ies):**

SILTSTONE

**Elevation:** -5943

**True Vertical Depth:** 9665

**Measured Depth:** 9665

**Mineral Resource(s):**

NATURAL GAS

OIL

**Is this a producing formation?** N

**ID:** Formation 9

**Name:** BONE SPRING

**Lithology(ies):**

SILTSTONE

**Elevation:** -6289

**True Vertical Depth:** 10011

**Measured Depth:** 10011

**Mineral Resource(s):**

NATURAL GAS

OIL

**Is this a producing formation?** Y

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

**Well Name:** THISTLE UNIT

**Well Number:** 119H

**ID:** Formation 10

**Name:** BONE SPRING 1ST

**Lithology(ies):**

SANDSTONE

**Elevation:** -6520

**True Vertical Depth:** 10242

**Measured Depth:** 10242

**Mineral Resource(s):**

NATURAL GAS

OIL

**Is this a producing formation?** N

## Section 2 - Blowout Prevention

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

**Rating Depth:** 5100

**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.

**Choke Diagram Attachment:**

Thistle Unit 119H\_3M BOPE Double Ram and CLS Schematic\_09-01-2016.pdf

**BOP Diagram Attachment:**

Thistle Unit 119H\_3M BOPE Double Ram and CLS Schematic\_09-01-2016.pdf

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

**Rating Depth:** 10147

**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.

**Choke Diagram Attachment:**

Thistle Unit 119H\_3M BOPE Double Ram and CLS Schematic\_09-01-2016.pdf

**BOP Diagram Attachment:**

Thistle Unit 119H\_3M BOPE Double Ram and CLS Schematic\_09-01-2016.pdf

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

**Well Name:** THISTLE UNIT

**Well Number:** 119H

Thistle Unit 119H\_3M BOPE Double Ram and CLS Schematic\_09-01-2016.pdf

Thistle Unit 119H\_3M BOPE Double Ram and CLS Schematic\_09-01-2016.pdf

### Section 3 - Casing

**String Type:** PRODUCTION

**Other String Type:**

**Hole Size:** 8.75

**Top setting depth MD:** 0

**Top setting depth TVD:** 0

**Top setting depth MSL:** -6425

**Bottom setting depth MD:** 17620

**Bottom setting depth TVD:** 10147

**Bottom setting depth MSL:** -16572

**Calculated casing length MD:** 17620

**Casing Size:** 5.5

**Other Size**

**Grade:** P-110

**Other Grade:**

**Weight:** 17

**Joint Type:** OTHER

**Other Joint Type:** BTC

**Condition:** NEW

**Inspection Document:**

**Standard:** API

**Spec Document:**

**Tapered String?:** N

**Tapered String Spec:**

### Safety Factors

**Collapse Design Safety Factor:** 1.56

**Burst Design Safety Factor:** 1.93

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

**Joint Tensile Design Safety Factor:** 2.09

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

**Body Tensile Design Safety Factor:** 2.09

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

Thistle Unit 119H\_Production Casing Assumptions\_09-01-2016.docx



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

**Well Name:** THISTLE UNIT

**Well Number:** 119H

**String Type:** INTERMEDIATE

**Other String Type:**

**Hole Size:** 12.25

**Top setting depth MD:** 4300

**Top setting depth TVD:** 4300

**Top setting depth MSL:** -10725

**Bottom setting depth MD:** 5100

**Bottom setting depth TVD:** 5100

**Bottom setting depth MSL:** -11525

**Calculated casing length MD:** 800

**Casing Size:** 9.625

**Other Size**

**Grade:** HCK-55

**Other Grade:**

**Weight:** 40

**Joint Type:** OTHER

**Other Joint Type:** BTC

**Condition:** NEW

**Inspection Document:**

**Standard:** API

**Spec Document:**

**Tapered String?:** N

**Tapered String Spec:**

### **Safety Factors**

**Collapse Design Safety Factor:** 1.58

**Burst Design Safety Factor:** 1.47

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

**Joint Tensile Design Safety Factor:** 4.5

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

**Body Tensile Design Safety Factor:** 4.5

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

Thistle Unit 119H\_Intermediate Casing Assumptions\_09-01-2016.docx

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

**Well Name:** THISTLE UNIT

**Well Number:** 119H

**String Type:** INTERMEDIATE

**Other String Type:**

**Hole Size:** 12.25

**Top setting depth MD:** 0

**Top setting depth TVD:** 0

**Top setting depth MSL:** -6425

**Bottom setting depth MD:** 5100

**Bottom setting depth TVD:** 5100

**Bottom setting depth MSL:** -11525

**Calculated casing length MD:** 5100

**Casing Size:** 9.625

**Other Size**

**Grade:** J-55

**Other Grade:**

**Weight:** 40

**Joint Type:** OTHER

**Other Joint Type:** BTC

**Condition:** NEW

**Inspection Document:**

**Standard:** API

**Spec Document:**

**Tapered String?:** N

**Tapered String Spec:**

### Safety Factors

**Collapse Design Safety Factor:** 1.15

**Burst Design Safety Factor:** 1.77

**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):**

Thistle Unit 119H\_Intermediate Casing Assumptions\_09-01-2016.docx

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

**Well Name:** THISTLE UNIT

**Well Number:** 119H

**String Type:** SURFACE

**Other String Type:**

**Hole Size:** 17.5

**Top setting depth MD:** 0

**Top setting depth TVD:** 0

**Top setting depth MSL:** -6425

**Bottom setting depth MD:** 1450

**Bottom setting depth TVD:** 1450

**Bottom setting depth MSL:** -7875

**Calculated casing length MD:** 1450

**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:** 1.18

**Burst Design Safety Factor:** 2.64

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

**Joint Tensile Design Safety Factor:** 8.05

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

**Body Tensile Design Safety Factor:** 8.05

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

Thistle Unit 119H\_Surface Casing Assumptions\_09-01-2016.docx

### **Section 4 - Cement**

**Casing String Type:** INTERMEDIATE

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: THISTLE UNIT

Well Number: 119H

Stage Tool Depth:

Lead

Top MD of Segment: 0	Bottom MD Segment: 0	Cement Type: NA
Additives: NA	Quantity (sks): 0	Yield (cu.ff./sk): 0
Density: 0	Volume (cu.ft.): 0	Percent Excess:

Casing String Type: SURFACE

Stage Tool Depth: 300

Lead

Top MD of Segment: 0	Bottom MD Segment: 300	Cement Type: C
Additives: NA	Quantity (sks): 185	Yield (cu.ff./sk): 1.72
Density: 13.5	Volume (cu.ft.): 312	Percent Excess: 50

Tail

Top MD of Segment: 300	Bottom MD Segment: 1450	Cement Type: C
Additives:	Quantity (sks): 865	Yield (cu.ff./sk): 1.33
Density: 14.8	Volume (cu.ft.): 1146	Percent Excess: 50

Stage Tool Depth: 300

Lead

Top MD of Segment: 0	Bottom MD Segment: 300	Cement Type: C
Additives: NA	Quantity (sks): 235	Yield (cu.ff./sk): 1.33
Density: 14.8	Volume (cu.ft.): 312	Percent Excess: 50

Stage Tool Depth:

Lead

Top MD of Segment: 0	Bottom MD Segment: 1450	Cement Type: C
Additives: 1% Calcium Chloride	Quantity (sks): 1130	Yield (cu.ff./sk): 1.34
Density: 14.8	Volume (cu.ft.): 1510	Percent Excess: 50

Casing String Type: INTERMEDIATE



Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: THISTLE UNIT

Well Number: 119H

**Stage Tool Depth:**

Lead

Top MD of Segment: 0	Bottom MD Segment: 4100	Cement Type: C
Additives: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sks Poly-E-Flake	Quantity (sks): 905	Yield (cu.ff./sk): 1.85
Density: 12.9	Volume (cu.ft.): 1669	Percent Excess: 30

Tail

Top MD of Segment: 4100	Bottom MD Segment: 5100	Cement Type: H
Additives: 0.125 lbs/sks Poly-R-Flake	Quantity (sks): 320	Yield (cu.ff./sk): 1.33
Density: 14.8	Volume (cu.ft.): 426	Percent Excess: 30

Casing String Type: PRODUCTION

**Stage Tool Depth: 5500**

Lead

Top MD of Segment: 4800	Bottom MD Segment: 4900	Cement Type: C
Additives: Enhancer 923 + 10% BWOC Bentonite + 0.05% BWOC SA-1015 + 0.3% BWOC HR-800 + 0.2% BWOC	Quantity (sks): 20	Yield (cu.ff./sk): 3.31
FF-2 + 0.125 lb/sk Pol-E-Flake + 0.5 lb/sk D-Air 5000	Volume (cu.ft.): 66	Percent Excess: 25

Tail

Top MD of Segment: 4900	Bottom MD Segment: 5000	Cement Type: H
Additives: 0.125 lbs/sack Poly-E-Flake	Quantity (sks): 30	Yield (cu.ff./sk): 1.33
Density: 14.8	Volume (cu.ft.): 39	Percent Excess: 25

**Stage Tool Depth: 5500**

Lead

Top MD of Segment: 5000	Bottom MD Segment: 10000	Cement Type: C
Additives: Enhancer 923 + 10% BWOC Bentonite + 0.05% BWOC SA-1015 + 0.3% BWOC HR-800 + 0.2% BWOC	Quantity (sks): 420	Yield (cu.ff./sk): 3.31
FF-2 + 0.125 lb/sk Pol-E-Flake + 0.5 lb/sk D-Air 5000	Volume (cu.ft.): 1336	Percent Excess: 25

Tail

Top MD of Segment: 10000	Bottom MD Segment: 17620	Cement Type: H
Additives: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC HR-601 + 2% bwoc Bentonite	Quantity (sks): 1765	Yield (cu.ff./sk): 1.2
Density: 14.5	Volume (cu.ft.): 2117	Percent Excess: 25

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: THISTLE UNIT

Well Number: 119H

Percent Excess: 25

Stage Tool Depth:

Lead

Top MD of Segment: 4900

Bottom MD Segment: 10000

Cement Type: H

Additives: Poz (Fly Ash) + 0.3% BWOC

Quantity (sks): 580

Yield (cu.ff./sk): 2.31

HR-601 + 10% bwoc Bentonite

Density: 11.9

Volume (cu.ft.): 1389

Percent Excess: 25

Tail

Top MD of Segment: 10000

Bottom MD Segment: 17620

Cement Type: H

Additives: Poz (Fly Ash) + 0.5% bwoc

Quantity (sks): 1765

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.): 2117

Percent Excess: 25

## 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

Top Depth: 0

Bottom Depth: 1450

Mud Type: WATER-BASED MUD

Min Weight (lbs./gal.): 8.5

Max Weight (lbs./gal.): 9

Density (lbs/cu.ft.):

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

PH:

Viscosity (CP): 2

Filtration (cc):

Salinity (ppm):

Additional Characteristics:

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

**Well Name:** THISTLE UNIT

**Well Number:** 119H

**Top Depth:** 0

**Bottom Depth:** 5100

**Mud Type:** SALT SATURATED

**Min Weight (lbs./gal.):** 10

**Max Weight (lbs./gal.):** 11

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

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

**PH:**

**Viscosity (CP):** 2

**Filtration (cc):**

**Salinity (ppm):**

**Additional Characteristics:**

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**Top Depth:** 5100

**Bottom Depth:** 17620

**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:**

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## Section 6 - Test, Logging, Coring

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

Will run GR/CNL from TD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.

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

GR

**Coring operation description for the well:**

N/A

## Section 7 - Pressure

**Anticipated Bottom Hole Pressure:** 4395

**Anticipated Surface Pressure:** 2162.66

**Anticipated Bottom Hole Temperature(F):** 160

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

**Describe:**

**Contingency Plans geohazards description:**

**Contingency Plans geohazards attachment:**



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

**Well Name:** THISTLE UNIT

**Well Number:** 119H

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

**Hydrogen sulfide drilling operations plan:**

Thistle Unit 119H\_H2S Plan\_09-01-2016.pdf

## Section 8 - Other Information

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

Thistle Unit 119H\_Directional Plan\_09-01-2016.pdf

**Other proposed operations facets description:**

Multi Bowl Verbiage

Multi Bowl Wellhead

Closed-Loop Design Plan

**Other proposed operations facets attachment:**

Thistle 119H\_Closed Loop Design Plan\_09-01-2016.pdf

Thistle 119H\_Multi-Bowl Verbiage\_3M\_09-01-2016.pdf

Thistle 119H\_Multi-Bowl Wellhead\_09-01-2016.pdf

Thistle Unit 119H\_Anti Collision\_09-01-2016.pdf

**Other Variance attachment:**

Thistle 119H\_H\_P Co-flex Hose\_09-01-2016.pdf

SUPO

## Section 1 - Existing Roads

**Will existing roads be used?** YES

**Existing Road Map:**

THISTLE UNIT 119H\_Existing Road Map\_09-01-2016.pdf

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

**Row(s) Exist?** NO

**ROW ID(s)**

**ID:**

**Do the existing roads need to be improved?** NO

**Existing Road Improvement Description:**

**Existing Road Improvement Attachment:**



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

**Well Name:** THISTLE UNIT

**Well Number:** 119H

## Section 2 - New or Reconstructed Access Roads

**Will new roads be needed?** NO

## Section 3 - Location of Existing Wells

**Existing Wells Map?** YES

**Attach Well map:**

Thistle Unit 119H one mile map\_09-01-2016.pdf

**Existing Wells description:**

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

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

**Estimated Production Facilities description:** Thistle 21 CTB 1

**Production Facilities description:** Thistle Unit 21 CTB - CTB Plat, Battery Connect, Battery Connect Electric, Flowlines (buried), etc. 8 attachments. Four 4" flowlines & one 4" gas lift line (buried in same trench) from the Thistle Unit 121H, 105H, 119H, 108H to the Thistle 21 CTB 1. Per James Crittenden, CTB previously approved in Thistle Unit 77H, 107H, & 122H APDs. Staked PL between CTB and road. Should only option be one road, will pursue south 53ft. road.

**Production Facilities map:**

Thistle Unit 119H\_Flowline\_11-17-2016.pdf

Thistle Unit 119H\_THISTLE 21 CTB BATT CONN - BS\_11-17-2016.PDF

Thistle Unit 119H\_Thistle Unit 21 CTB Svy\_11-17-2016.pdf

Thistle Unit 119H\_THISTLE 21 CTB BATT CONN - NM R1\_11-17-2016.pdf

Thistle Unit 119H\_THISTLE\_UNIT\_21\_CTB\_1\_BATCON\_BS\_11-17-2016.PDF

Thistle Unit 119H\_THISTLE\_UNIT\_21\_CTB\_1\_BAT\_EL\_SNM\_P\_11-17-2016.PDF

Thistle Unit 119H\_THISTLE\_UNIT\_21\_CTB\_1\_BATCON\_SNM\_P\_11-17-2016.PDF

Thistle Unit 119H\_THISTLE\_UNIT\_21\_CTB\_1\_BAT\_EL\_BS\_11-17-2016.PDF

## Section 5 - Location and Types of Water Supply

### Water Source Table

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

**Well Name:** THISTLE UNIT

**Well Number:** 119H

**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):** 202500

**Source volume (acre-feet):** 26.100851

**Source volume (gal):** 8505000

**Water source and transportation map:**

Thistle Unit 119H\_Water Source Transfer Map\_11-17-2016.pdf

**Water source comments:** The attached Water Transfer Map is a proposal only and the final route and documentation will be provided by a Devon contractor prior to installation. When available Devon will always follow existing disturbance.

**New water well?** NO

**New Water Well Info**

**Well latitude:**

**Well Longitude:**

**Well datum:**

**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:**

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

**Well Name:** THISTLE UNIT

**Well Number:** 119H

## Section 6 - Construction Materials

**Construction Materials description:** Dirt fill and caliche will be used to construct well pad. Caliche will be coming from the Brininstool Caliche Pit in the NENE of Section 20 - T23S-R33E. Caliche Map attached.

**Construction Materials source location attachment:**

Thistle Unit 119H\_Caliche map\_12-14-2016.pdf

## Section 7 - Methods for Handling Waste

**Waste type:** FLOWBACK

**Waste content description:** Average produced BWPD over the flowback period (first 30 days of production).

**Amount of waste:** 2000 barrels

**Waste disposal frequency :** Daily

**Safe containment description:** N/A

**Safe containmant attachment:**

**Waste disposal type:** RECYCLE

**Disposal location ownership:** STATE

**Disposal type description:**

**Disposal location description:** All produced water will be recycled at our Thistle water reuse facility. Any excess water that cannot be recycled will be sent to one of our 3 SWD's (Caballo 9 St 1, Rio Blanco 33 Fed 2, Rio Blanco 4 Fed Com 3) or to OWL (third-party; state tie-in).

**Waste type:** PRODUCED WATER

**Waste content description:** Average produced BWPD over the first year of production.

**Amount of waste:** 500 barrels

**Waste disposal frequency :** Daily

**Safe containment description:** N/A

**Safe containmant attachment:**

**Waste disposal type:** RECYCLE

**Disposal location ownership:** STATE

**Disposal type description:**

**Disposal location description:** All produced water will be recycled at our Thistle water reuse facility. Any excess water that cannot be recycled will be sent to one of our 3 SWD's (Caballo 9 St 1, Rio Blanco 33 Fed 2, Rio Blanco 4 Fed Com 3) or to OWL (third-party; state tie-in).

**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:** N/A

**Safe containmant attachment:**

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

**Well Name:** THISTLE UNIT

**Well Number:** 119H

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

**Disposal type description:**

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

**Waste type:** DRILLING

**Waste content description:** Water Based Cuttings

**Amount of waste:** 1650 barrels

**Waste disposal frequency :** Daily

**Safe containment description:** N/A

**Safe containmant attachment:**

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

**Disposal type description:**

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

### 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**

**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**



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

**Well Name:** THISTLE UNIT

**Well Number:** 119H

## Section 8 - Ancillary Facilities

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

**Ancillary Facilities attachment:**

**Comments:**

## Section 9 - Well Site Layout

**Well Site Layout Diagram:**

Thistle Unit 119H\_Well Layout\_11-17-2016.pdf

**Comments:**

## Section 10 - Plans for Surface Reclamation

**Type of disturbance:** NEW

**Recontouring attachment:**

THISTLE UNIT 119H\_Interim Reclamation Site Diagram\_09-01-2016.pdf

**Drainage/Erosion control construction:** N/A

**Drainage/Erosion control reclamation:** N/A

**Wellpad long term disturbance (acres):** 1.64

**Wellpad short term disturbance (acres):** 4.48

**Access road long term disturbance (acres):** 0.007

**Access road short term disturbance (acres):** 0.007

**Pipeline long term disturbance (acres):** 0.8102686

**Pipeline short term disturbance (acres):** 0.8102686

**Other long term disturbance (acres):** 0

**Other short term disturbance (acres):** 0

**Total long term disturbance:** 2.4572685

**Total short term disturbance:** 5.2972684

**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:** Shinnery, yucca, grasses and mesquite.

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

**Existing Vegetation Community at the road:** Shinnery, yucca, grasses and mesquite.

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

**Existing Vegetation Community at the pipeline:** Shinnery, yucca, grasses and mesquite.

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

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

**Well Name:** THISTLE UNIT

**Well Number:** 119H

**Existing Vegetation Community at other disturbances:** Shinnery, yucca, 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
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**Seed reclamation attachment:**

#### Operator Contact/Responsible Official Contact Info

**First Name:** James

**Last Name:** Crittenden

**Phone:** (575)748-1854

**Email:** james.crittenden@dvn.com

**Seedbed prep:**

**Seed BMP:**

**Seed method:**

**Existing invasive species?** NO

**Existing invasive species treatment description:**

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

**Well Name:** THISTLE UNIT

**Well Number:** 119H

**Existing invasive species treatment attachment:**

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

**Weed treatment plan attachment:**

**Monitoring plan description:** Monitor as needed

**Monitoring plan attachment:**

**Success standards:** N/A

**Pit closure description:** N/A

**Pit closure attachment:**

## Section 11 - Surface Ownership

**Disturbance type:** NEW ACCESS ROAD

**Describe:**

**Surface Owner:** PRIVATE OWNERSHIP

**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:** EXISTING ACCESS ROAD

**Describe:**

**Surface Owner:** PRIVATE OWNERSHIP, STATE GOVERNMENT

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

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

**Well Name:** THISTLE UNIT

**Well Number:** 119H

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:** HOBBS FIELD OFFICE OCD

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:**

**USFS Ranger District:**

**Disturbance type:** WELL PAD

**Describe:**

**Surface Owner:** PRIVATE OWNERSHIP,STATE GOVERNMENT

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:** HOBBS FIELD OFFICE OCD

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:**

**USFS Ranger District:**



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

**Well Name:** THISTLE UNIT

**Well Number:** 119H

**Disturbance type:** PIPELINE

**Describe:**

**Surface Owner:** PRIVATE OWNERSHIP,STATE GOVERNMENT

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:** HOBBS FIELD OFFICE OCD

**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

**SUPO Additional Information:** Thistle Unit 21 CTB - CTB Plat, Battery Connect, Battery Connect Electric, Flowlines (buried), etc. 8 attachments. Four 4" flowlines & one 4" gas lift line (buried in same trench) from the Thistle Unit 121H, 105H, 119H, 108H to the Thistle 21 CTB 1. Per James Crittenden, CTB previously approved in Thistle Unit 77H, 107H, & 122H APDs. Staked PL between CTB and road. Should only option be one road, will pursue south 53ft. road. Caliche Map attached  
**Use a previously conducted onsite?** YES

**Previous Onsite information:** Previous onsite 6/14/16 for Thistle Unit 105H, 108H, 119H, & 121H. Notes supplied by CEHMM.

## Other SUPO Attachment

Thistle Unit 119H\_Flowline\_11-17-2016.pdf

Thistle Unit 119H\_THISTLE 21 CTB BATT CONN - BS\_11-17-2016.PDF

Thistle Unit 119H\_Thistle Unit 21 CTB Svy\_11-17-2016.pdf

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

**Well Name:** THISTLE UNIT

**Well Number:** 119H

Thistle Unit 119H\_THISTLE\_UNIT\_21\_CTB\_1\_BAT\_EL\_BS\_11-17-2016.PDF

Thistle Unit 119H\_THISTLE 21 CTB BATT CONN - NM R1\_11-17-2016.pdf

Thistle Unit 119H\_THISTLE\_UNIT\_21\_CTB\_1\_BAT\_EL\_SNM\_P\_11-17-2016.PDF

Thistle Unit 119H\_THISTLE\_UNIT\_21\_CTB\_1\_BATCON\_BS\_11-17-2016.PDF

Thistle Unit 119H\_THISTLE\_UNIT\_21\_CTB\_1\_BATCON\_SNM\_P\_11-17-2016.PDF

Thistle Unit 119H\_Caliche map\_12-14-2016.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:**

**Lined pit reclamation description:**

**Lined pit reclamation attachment:**

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

**Well Name:** THISTLE UNIT

**Well Number:** 119H

**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:**

**Geologic and hydrologic evidence:**

**State authorization:**

**Unlined Produced Water Pit Estimated percolation:**

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

**Well Name:** THISTLE UNIT

**Well Number:** 119H

**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:**

#### **Section 6 - Other**

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



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

**Well Name:** THISTLE UNIT

**Well Number:** 119H

**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.*

**NAME:** Rebecca Deal

**Signed on:** 09/01/2016

**Title:** Regulatory Compliance Professional

**Street Address:** 333 West Sheridan Avenue

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

**Well Name:** THISTLE UNIT

**Well Number:** 119H

**City:** Oklahoma City

**State:** OK

**Zip:** 73102

**Phone:** (405)228-8429

**Email address:** Rebecca.Deal@dvn.com

### Field Representative

**Representative Name:** James Crittenden

**Street Address:** 6488 Seven Rivers Hwy

**City:** Artesia

**State:** NM

**Zip:** 88210

**Phone:** (575)748-1854

**Email address:** james.crittenden@dvn.com

### Payment Info

#### Payment

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

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