

OCD - HOBBS  
10/25/2017  
RECEIVED

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0137  
Expires October 31, 2014

5. Lease Serial No.  
NMNM63994

6. If Indian, Allottee or Tribe Name

7. If Unit or CA Agreement, Name and No.  
319790

8. Lease Name and Well No.  
BOUNDARY RAIDER 6-7 FED 213H

9. API Well No.  
30-025-44147

10. Field and Pool, or Exploratory  
SAND DUNES / BONE SPRING 53800

11. Sec., T. R. M. or Blk. and Survey or Area  
SEC 6 / T2S / R32E / NMP

12. County or Parish  
LEA

13. State  
NM

1a. Type of work: ☒ DRILL ☐ REENTER

1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☐ Single Zone ☒ Multiple Zone

2. Name of Operator  
DEVON ENERGY PRODUCTION COMPANY LP [6137]

3a. Address  
333 West Sheridan Avenue Oklahoma City OK

3b. Phone No. (include area code)  
(405)552-6571

4. Location of Well (Report location clearly and in accordance with any State requirements:\*)  
At surface LOT 3 / 550 FNL / 2465 FWL / LAT 32.3392232 / LONG -103.714976  
At proposed prod. zone SWSE / 290 FSL / 2240 FEL / LAT 32.3125393 / LONG -103.7124695

14. Distance in miles and direction from nearest town or post office\*

15. Distance from proposed\*  
location to nearest 550 feet  
property or lease line, ft.  
(Also to nearest drig. unit line, if any)

16. No. of acres in lease  
980.63

17. Spacing Unit dedicated to this well  
320

18. Distance from proposed location\*  
to nearest well, drilling, completed, 1100 feet  
applied for, on this lease, ft.

19. Proposed Depth  
10418 feet / 19907 feet

20. BLM/BIA Bond No. on file  
FED: CO1104

21. Elevations (Show whether DF, KDB, RT, GL, etc.)  
3531 feet

22. Approximate date work will start\*  
10/23/2017

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:

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

25. Signature  
(Electronic Submission)

Name (Printed/Typed)  
Rebecca Deal / Ph: (405)228-8429

Date  
07/18/2017

Title  
Regulatory Compliance Professional

Approved by (Signature)  
(Electronic Submission)

Name (Printed/Typed)  
Cody Layton / Ph: (575)234-5959

Date  
10/25/2017

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  
10/25/2017



**APD ID:** 10400016469

**Submission Date:** 07/18/2017

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

**Well Name:** BOUNDARY RAIDER 6-7 FED COM

**Well Number:** 213H

**Well Type:** OIL WELL

**Well Work Type:** Drill

## Application

**Operator letter of designation:**

**Well plat:**

Boudary\_Raider\_6\_7\_Fed\_Com\_213H\_C\_102\_20171016144505.pdf

## Drilling Plan

**Blowout Prevention**

**Diagram:**

**Choke Diagram Attachment :**

Boundary\_Raider\_6\_7\_Fed\_Com\_213H\_3M\_BOPE\_CK\_20171016144639.pdf

**BOP Diagram Attachment :**

Boundary\_Raider\_6\_7\_Fed\_Com\_213H\_3M\_BOPE\_CK\_20171016144700.pdf

**Diagram:**

**Choke Diagram Attachment :**

Boundary\_Raider\_6\_7\_Fed\_Com\_213H\_3M\_BOPE\_CK\_20171016144724.pdf

**BOP Diagram Attachment :**

Boundary\_Raider\_6\_7\_Fed\_Com\_213H\_3M\_BOPE\_CK\_20171016144758.pdf

**Casing Attachments**

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

**Well Name:** BOUNDARY RAIDER 6-7 FED COM

**Well Number:** 213H

### Casing Attachments

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**Casing ID:** 1      **String Type:** SURFACE

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

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

Boundary\_Raider\_6\_7\_Fed\_Com\_213H\_Surf\_Csg\_Ass\_07-18-2017.pdf

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**Casing ID:** 2      **String Type:** INTERMEDIATE

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

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

Boundary\_Raider\_6\_7\_Fed\_Com\_213H\_Int\_Csg\_Ass\_07-18-2017.pdf

---

**Casing ID:** 3      **String Type:** PRODUCTION

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

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

Boundary\_Raider\_6\_7\_Fed\_Com\_213H\_Prod\_Csg\_Ass\_07-18-2017.pdf

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

**Well Name:** BOUNDARY RAIDER 6-7 FED COM

**Well Number:** 213H

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

**Contingency Plans geohazards attachment:**

**Hydrogen sulfide drilling operations plan:**

Boundary\_Raider\_6\_7\_Fed\_Com\_213H\_H2S\_Paln\_07-18-2017.pdf

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

Boundary\_Raider\_6\_7\_Fed\_Com\_213H\_Dir\_Survey\_20171016142936.pdf

Boundary\_Raider\_7\_6\_Fed\_Com\_213H\_Dir\_Plan\_20171016143055.pdf

**Other Facets:**

Boundary\_Raider\_6\_7\_Fed\_Com\_213H\_MB\_Wellhd\_07-18-2017.pdf

Boundary\_Raider\_6\_7\_Fed\_Com\_213HMB\_Verb\_07-18-2017.pdf

Boundary\_Raider\_6\_7\_Fed\_Com\_213H\_Clsd\_Loop\_07-18-2017.pdf

Boudary\_Raider\_6\_7\_Fed\_Com\_213H\_Gas\_Capture\_Pln\_20171016142715.pdf

**Other Variances:**

Boundary\_Raider\_6\_7\_Fed\_Com\_213\_Todd\_Apache\_1\_MDP\_Reference\_6\_28\_2017\_07-18-2017.pdf

Boundary\_Raider\_6\_7\_Fed\_Com\_213H\_Co\_flex\_20171016143017.pdf

## Surface Use Plan of Operations

**Existing Road Map:**

Boundary\_Raider\_6\_7\_Fed\_Com\_213\_Ex\_Access\_Rd\_07-18-2017.pdf

**New Road Map:**

Boudary\_Raider\_6\_7\_Fed\_Com\_213H\_Access\_Rd\_1\_07-18-2017.pdf

Boudary\_Raider\_6\_7\_Fed\_Com\_213H\_Access\_Rd\_2\_07-18-2017.pdf

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

**Well Name:** BOUNDARY RAIDER 6-7 FED COM

**Well Number:** 213H

**Attach Well map:**

Boudary\_Raider\_6\_7\_Fed\_Com\_213H\_1\_Mile\_Map\_07-18-2017.pdf

**Water source and transportation map:**

Boundary\_Raider\_6\_7\_FED\_COM\_213H\_Water\_X\_MAP\_07-18-2017.pdf

**Construction Materials source location attachment:**

Boudary\_Raider\_6\_7\_Fed\_Com\_213H\_Caliche\_Pit\_07-18-2017.pdf

**Methods for Handling Waste**

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**Waste type:** FLOWBACK

**Safe containment attachment:**

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**Waste type:** COMPLETIONS/STIMULATION

**Safe containment attachment:**

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**Waste type:** DRILLING

**Safe containment attachment:**

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**Waste type:** PRODUCED WATER

**Safe containment attachment:**

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**Well Site Layout Diagram:**

Boundary\_Raider\_6\_7\_Fed\_Com\_213H\_Rig\_Layout\_07-18-2017.pdf

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

**Well Name:** BOUNDARY RAIDER 6-7 FED COM

**Well Number:** 213H

**Other SUPO Attachment:**

Boudary\_Raider\_6\_7\_Fed\_Com\_213H\_Oil\_takeaway\_07-18-2017.pdf

Boudary\_Raider\_6\_7\_Fed\_Com\_213HGasWTR\_Takeaway\_07-18-2017.pdf

Boundary\_Raider\_6\_7\_Fed\_Com\_213\_Elec\_1\_07-18-2017.pdf

Boundary\_Raider\_6\_7\_Fed\_Com\_213\_Elec\_2\_07-18-2017.pdf

Boundary\_Raider\_6\_7\_Fed\_Com\_213\_Facilites\_6\_28\_2017.docx\_07-18-2017.pdf

Boundary\_Raider\_6\_7\_Fed\_Com\_213H\_Flow\_line\_plat\_07-18-2017.pdf

**Produced Water Disposal**

**Bonds**



APD ID: 10400016469

Submission Date: 07/18/2017

Highlighted data  
reflects the most  
recent changes

Operator Name: DEVON ENERGY PRODUCTION COMPANY  
LP

Federal/Indian APD: FED

Well Name: BOUNDARY RAIDER 6-7 FED COM

Well Number: 213H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

## Application

### Section 1 - General

APD ID: 10400016469

Tie to previous NOS?

Submission Date: 07/18/2017

BLM Office: CARLSBAD

User: Rebecca Deal

Title: Regulatory Compliance

Federal/Indian APD: FED

Professional

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

Lease number: NMNM63994

Lease Acres: 980.63

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:

### 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? EXISTING

Mater Development Plan name: Todd-Apache MDP 1

Well in Master SUPO? NO

Master SUPO name:

Well in Master Drilling Plan? NO

Master Drilling Plan name:

Well Name: BOUNDARY RAIDER 6-7 FED COM

Well Number: 213H

Well API Number:

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

**Well Name:** BOUNDARY RAIDER 6-7 FED COM

**Well Number:** 213H

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

**Field Name:** SAND DUNES

**Pool Name:** BONE SPRING

**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:** TODD-Number: 2

APACHE 6-6 PAD

**Well Class:** HORIZONTAL

**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:** 1100 FT

**Distance to lease line:** 550 FT

**Reservoir well spacing assigned acres Measurement:** 320 Acres

**Well plat:** Boudary\_Raider\_6\_7\_Fed\_Com\_213H\_C\_102\_20171016144505.pdf

**Well work start Date:** 10/23/2017

**Duration:** 45 DAYS

### Section 3 - Well Location Table

**Survey Type:** RECTANGULAR

**Describe Survey Type:**

**Datum:** NAD83

**Vertical Datum:** NAVD88

**Survey number:** 5181c

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD
SHL Leg #1	550	FNL	2465	FWL	23S	32E	6	Lot 3	32.3392232	-103.714976	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 63994	3531	10200	10108
KOP Leg #1	200	FNL	2240	FWL	23S	32E	6	Lot 3	32.338966	-103.712289	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 63994	-6271	9877	9802
PPP Leg #1	200	FNL	2240	FWL	23S	32E	6	Aliquot NWNE	32.338966	-103.712289	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 63994	-6577	10200	10108



**Operator Name:** DEVON ENERGY PRODUCTION COMPANY LP**Well Name:** BOUNDARY RAIDER 6-7 FED COM**Well Number:** 213H

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD
EXIT Leg #1	290	FSL	2240	FEL	23S	32E	7	Aliquot SWSE	32.3125393	-103.7124695	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 86151	-6887	19907	10418
BHL Leg #1	290	FSL	2240	FEL	23S	32E	7	Aliquot SWSE	32.3125393	-103.7124695	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 86151	-6887	19907	10418

## Drilling Plan

### Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
1	UNKNOWN	3531	0	0	ALLUVIUM	NONE	No
2	RUSTLER	2624	907	907	SALT	NONE	No
3	BASE OF SALT	-1052	4583	4583	SALT	NONE	No
4	DELAWARE	-1052	4583	4583	SANDSTONE	NATURAL GAS,OIL	No
5	BONE SPRING	-4934	8465	8465	SANDSTONE	NATURAL GAS,OIL	Yes
6	BONE SPRING 2ND	-6703	10234	10234	SANDSTONE	NATURAL GAS,OIL	Yes

### Section 2 - Blowout Prevention

**Pressure Rating (PSI):** 3M**Rating Depth:** 6000

**Equipment:** BOP/BOPE will be installed per Onshore Oil & Gas Order #2 requirements prior to drilling below 13-3/8" surface casing, a 13-5/8" BOP/BOPE system with a minimum rating of 3M will be installed on the wellhead system. BOP/BOPE will be tested by an independent service company per Onshore Oil & Gas Order #2 requirements and MASP (Maximum Anticipated Surface Pressure) calculations. If the system is upgraded, all the components installed will be functional and tested.

**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:**

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

**Well Name:** BOUNDARY RAIDER 6-7 FED COM

**Well Number:** 213H

Boundary\_Raider\_6\_7\_Fed\_Com\_213H\_3M\_BOPE\_CK\_20171016144639.pdf

**BOP Diagram Attachment:**

Boundary\_Raider\_6\_7\_Fed\_Com\_213H\_3M\_BOPE\_CK\_20171016144700.pdf

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

**Rating Depth:** 10363

**Equipment:** BOP/BOPE will be installed per Onshore Oil & Gas Order #2 requirements prior to drilling below 13-3/8" surface casing, a 13-5/8" BOP/BOPE system with a minimum rating of 3M will be installed on the wellhead system. BOP/BOPE will be tested by an independent service company per Onshore Oil & Gas Order #2 requirements and MASP (Maximum Anticipated Surface Pressure) calculations. If the system is upgraded, all the components installed will be functional and tested. The pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These tests will be logged in the daily driller's log. A 2" kill line and 3" choke line will be incorporated into the drilling spool below the ram BOP. In addition to the rams and annular preventer, additional BOP accessories include a kelly cock, floor safety valve, choke lines, and choke manifold rated at 3,000 psi WP.

**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:**

Boundary\_Raider\_6\_7\_Fed\_Com\_213H\_3M\_BOPE\_CK\_20171016144724.pdf

**BOP Diagram Attachment:**

Boundary\_Raider\_6\_7\_Fed\_Com\_213H\_3M\_BOPE\_CK\_20171016144758.pdf

### Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	816	0	816	-6887	-7703	816	H-40	48	OTHER - BTC	1.4	3.15	BUOY	14.27	BUOY	14.27
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	6000	0	6000	-6887	-12887	6000	J-55	40	OTHER - BTC	1.15	1.77	BUOY	4.1	BUOY	4.1
3	PRODUCTION	8.75	5.5	NEW	API	N	0	19800	0	10363	-6887	-17250	19800	P-110	17	OTHER - BTC	1.45	2.7	BUOY	2.48	BUOY	2.48

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

**Well Name:** BOUNDARY RAIDER 6-7 FED COM

**Well Number:** 213H

#### Casing Attachments

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**Casing ID:** 1                      **String Type:** SURFACE

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

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

Boundary\_Raider\_6\_7\_Fed\_Com\_213H\_Surf\_Csg\_Ass\_07-18-2017.pdf

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**Casing ID:** 2                      **String Type:** INTERMEDIATE

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

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

Boundary\_Raider\_6\_7\_Fed\_Com\_213H\_Int\_Csg\_Ass\_07-18-2017.pdf

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**Casing ID:** 3                      **String Type:** PRODUCTION

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

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

Boundary\_Raider\_6\_7\_Fed\_Com\_213H\_Prod\_Csg\_Ass\_07-18-2017.pdf

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#### Section 4 - Cement

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

**Well Name:** BOUNDARY RAIDER 6-7 FED COM

**Well Number:** 213H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	956	640	1.33	14.8	850	50	c	0.125 lbs/sack Poly-F-Flake

INTERMEDIATE	Lead		0	5000	1101	1.85	12.9	2036	30	c	(65:35) Class C Cement
INTERMEDIATE	Tail		5000	6000	306	1.33	14.8	407	30	c	0.125 lbs/sack Poly-F-Flake
PRODUCTION	Lead		5800	1038 2	443	3.27	9	1449	25	tuned	(65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sks Poly-E-Flake
PRODUCTION	Tail		1038 2	1990 7	2290	1.2	14.5	2750	25	h	(50:50) Clas H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC HR-601 + 2% bwoc Bentonite

### 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

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

**Well Name:** BOUNDARY RAIDER 6-7 FED COM

**Well Number:** 213H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
6000	1990 7	WATER-BASED MUD	8.5	9.3							
0	816	WATER-BASED MUD	8.5	9				2			
956	6000	SALT SATURATED	10	11							

## 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:**

CALIPER,CBL,DS,GR,MUDLOG

**Coring operation description for the well:**

na

## Section 7 - Pressure

**Anticipated Bottom Hole Pressure:** 5038

**Anticipated Surface Pressure:** 2746.04

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

**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:**

Boundary\_Raider\_6\_7\_Fed\_Com\_213H\_H2S\_Paln\_07-18-2017.pdf

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

**Well Name:** BOUNDARY RAIDER 6-7 FED COM

**Well Number:** 213H

## Section 8 - Other Information

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

Boundary\_Raider\_6\_7\_Fed\_Com\_213H\_Dir\_Survey\_20171016142936.pdf

Boundary\_Raider\_7\_6\_Fed\_Com\_213H\_Dir\_Plan\_20171016143055.pdf

### Other proposed operations facets description:

Multi-Bowl Verbiage

Multi-Bowl Wellhead

Closed Loop Design

Co-Flex

GCP Form

### Other proposed operations facets attachment:

Boundary\_Raider\_6\_7\_Fed\_Com\_213H\_MB\_Wellhd\_07-18-2017.pdf

Boundary\_Raider\_6\_7\_Fed\_Com\_213HMB\_Verb\_07-18-2017.pdf

Boundary\_Raider\_6\_7\_Fed\_Com\_213H\_Clsd\_Loop\_07-18-2017.pdf

Boudary\_Raider\_6\_7\_Fed\_Com\_213H\_Gas\_Capture\_Pln\_20171016142715.pdf

### Other Variance attachment:

Boundary\_Raider\_6\_7\_Fed\_Com\_213\_Todd\_Apache\_1\_MDP\_Reference\_6\_28\_2017\_07-18-2017.pdf

Boundary\_Raider\_6\_7\_Fed\_Com\_213H\_Co\_flex\_20171016143017.pdf

SUPO

## Section 1 - Existing Roads

**Will existing roads be used?** YES

**Existing Road Map:**

Boundary\_Raider\_6\_7\_Fed\_Com\_213\_Ex\_Access\_Rd\_07-18-2017.pdf

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

**Row(s) Exist?** YES

**ROW ID(s)**

**ID:** NM-131858

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

**Existing Road Improvement Description:** Any upgrades to existing roads prior to drilling will be done where necessary per Todd Apache MDP 1.

**Existing Road Improvement Attachment:**

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

**Well Name:** BOUNDARY RAIDER 6-7 FED COM

**Well Number:** 213H

## Section 2 - New or Reconstructed Access Roads

**Will new roads be needed?** YES

**New Road Map:**

Boudary\_Raider\_6\_7\_Fed\_Com\_213H\_Access\_Rd\_1\_07-18-2017.pdf

Boudary\_Raider\_6\_7\_Fed\_Com\_213H\_Access\_Rd\_2\_07-18-2017.pdf

**New road type:** LOCAL

**Length:** 289.7                      Feet                      **Width (ft.):** 30

**Max slope (%):** 6                      **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?** NO

**New road access plan attachment:**

**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 Interim 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:** BOUNDARY RAIDER 6-7 FED COM

**Well Number:** 213H

**Additional Attachment(s):**

### Section 3 - Location of Existing Wells

**Existing Wells Map?** YES

**Attach Well map:**

Boudary\_Raider\_6\_7\_Fed\_Com\_213H\_1\_Mile\_Map\_07-18-2017.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:** All lines will be buried going to the Todd-Apache 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

**Source transportation land ownership:** STATE

**Water source volume (barrels):** 3214.2856

**Source volume (acre-feet):** 0.41429925

**Source volume (gal):** 135000

**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



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

**Well Name:** BOUNDARY RAIDER 6-7 FED COM

**Well Number:** 213H

**Source transportation land ownership:** STATE

**Water source volume (barrels):** 135000

**Source volume (acre-feet):** 17.400568

**Source volume (gal):** 5670000

**Water source and transportation map:**

Boundary\_Raider\_6\_7\_FED\_COM\_213H\_Water\_X\_MAP\_07-18-2017.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:**

### Section 6 - Construction Materials

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

**Construction Materials source location attachment:**

Boudary\_Raider\_6\_7\_Fed\_Com\_213H\_Caliche\_Pit\_07-18-2017.pdf

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

**Well Name:** BOUNDARY RAIDER 6-7 FED COM

**Well Number:** 213H

## Section 7 - Methods for Handling Waste

**Waste type:** FLOWBACK

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

**Amount of waste:** 3000 barrels

**Waste disposal frequency :** Daily

**Safe containment description:** na

**Safe containmant attachment:**

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

**Disposal type description:**

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

**Waste type:** COMPLETIONS/STIMULATION

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

**Amount of waste:** 3000 barrels

**Waste disposal frequency :** Daily

**Safe containment description:** na

**Safe containmant attachment:**

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

**Disposal type description:**

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

**Waste type:** DRILLING

**Waste content description:** Water based cutting

**Amount of waste:** 2031 barrels

**Waste disposal frequency :** Daily

**Safe containment description:** na

**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.

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

**Well Name:** BOUNDARY RAIDER 6-7 FED COM

**Well Number:** 213H

**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:** na

**Safe containmant attachment:**

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

**Disposal type description:**

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

### 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:** BOUNDARY RAIDER 6-7 FED COM

**Well Number:** 213H

## Section 8 - Ancillary Facilities

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

**Ancillary Facilities attachment:**

**Comments:**

## Section 9 - Well Site Layout

**Well Site Layout Diagram:**

Boundary\_Raider\_6\_7\_Fed\_Com\_213H\_Rig\_Layout\_07-18-2017.pdf

**Comments:**

## Section 10 - Plans for Surface Reclamation

**Type of disturbance:** NEW

**Recontouring attachment:**

**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:** Topsoils and subsoils 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. The disturbed area then shall be reseeded in the first favorable growing season.

**Wellpad long term disturbance (acres):** 2.161

**Wellpad short term disturbance (acres):** 8.27

**Access road long term disturbance (acres):** 0.199

**Access road short term disturbance (acres):** 0.199

**Pipeline long term disturbance (acres):** 13.669421

**Pipeline short term disturbance (acres):** 13.669421

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

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

**Total long term disturbance:** 16.02942

**Total short term disturbance:** 22.138422

**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:**

**Existing Vegetation Community at other disturbances:** Shinnery, yucca, grasses and mesquite.

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

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

**Well Name:** BOUNDARY RAIDER 6-7 FED COM

**Well Number:** 213H

**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:** 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:**

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

**Well Name:** BOUNDARY RAIDER 6-7 FED COM

**Well Number:** 213H

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

**Weed treatment plan attachment:**

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

**Monitoring plan attachment:**

**Success standards:** na

**Pit closure description:** na

**Pit closure attachment:**

## Section 11 - Surface Ownership

**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:**

**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:** BUREAU OF LAND MANAGEMENT

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

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

**Well Name:** BOUNDARY RAIDER 6-7 FED COM

**Well Number:** 213H

**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:** 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:**

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

**Well Name:** BOUNDARY RAIDER 6-7 FED COM

**Well Number:** 213H

**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:**

**USFS Region:**

**USFS Forest/Grassland:**

**USFS Ranger District:**

## Section 12 - Other Information

**Right of Way needed?** YES

**Use APD as ROW?** YES

**ROW Type(s):** Other

## ROW Applications

**SUPO Additional Information:** Flowline Plat- see attached Todd Apache CTB 6-6 See attached Grading Plan & X Section  
See attached Electrical plats

**Use a previously conducted onsite?** YES

**Previous Onsite information:** 3/8/17

## Other SUPO Attachment

Boudary\_Raider\_6\_7\_Fed\_Com\_213H\_Oil\_takeaway\_07-18-2017.pdf

Boudary\_Raider\_6\_7\_Fed\_Com\_213HGasWTR\_Takeaway\_07-18-2017.pdf

Boundary\_Raider\_6\_7\_Fed\_Com\_213\_Elec\_1\_07-18-2017.pdf

Boundary\_Raider\_6\_7\_Fed\_Com\_213\_Elec\_2\_07-18-2017.pdf



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

**Well Name:** BOUNDARY RAIDER 6-7 FED COM

**Well Number:** 213H

Boundary\_Raider\_6\_7\_Fed\_Com\_213\_Facilities\_6\_28\_2017.docx\_07-18-2017.pdf

Boundary\_Raider\_6\_7\_Fed\_Com\_213H\_Flow\_line\_plat\_07-18-2017.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:**

**Leak detection system description:**

**Leak detection system attachment:**

**Lined pit Monitor description:**

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

**Well Name:** BOUNDARY RAIDER 6-7 FED COM

**Well Number:** 213H

**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:**

**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:**

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

**Well Name:** BOUNDARY RAIDER 6-7 FED COM

**Well Number:** 213H

**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

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

**PWD surface owner:**

**PWD disturbance (acres):**

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

**Other PWD type description:**

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

**Well Name:** BOUNDARY RAIDER 6-7 FED COM

**Well Number:** 213H

**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:** 07/18/2017

**Title:** Regulatory Compliance Professional

**Street Address:** 333 West Sheridan Avenue

**City:** Oklahoma City

**State:** OK

**Zip:** 73102

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

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

### Field Representative

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

**Well Name:** BOUNDARY RAIDER 6-7 FED COM

**Well Number:** 213H

**Representative Name:** Ray vaz

**Street Address:** 6488 Seven Rivers Hwy

**City:** Artesia

**State:** NM

**Zip:** 88210

**Phone:** (575)748-1871

**Email address:** ray.vaz@dvn.com

## Payment Info

### Payment

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

**pay.gov Tracking ID:** 263NB7S4