

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

OCD - HOBBS
10/25/2017
RECEIVED

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

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NMNM63994
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. [319790 BOUNDARY RAIDER 6-7 FED 212H]
3b. Phone No. (include area code) (405)552-6571		9. API Well No. 30-025-44146
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface LOT 3 / 550 FNL / 2435 FWL / LAT 32.339223 / LONG -103.7150733 At proposed prod. zone TR N / 290 FSL / 1890 FWL / LAT 32.312519 / LONG -103.7168431		10. Field and Pool, or Exploratory SAND DUNES / BONE SPRING
14. Distance in miles and direction from nearest town or post office*		11. Sec., T. R. M. or Blk. and Survey or Area SEC 6 / T23S / R32E / NMP
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 750 feet	16. No. of acres in lease 980.63	12. County or Parish LEA
17. Spacing Unit dedicated to this well 320	13. State NM	
18. Distance from proposed location* to nearest well, drilling, completed, 1220 feet applied for, on this lease, ft.	19. Proposed Depth 10138 feet / 19823 feet	20. BLM/BIA Bond No. on file FED: CO1104
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3530 feet	22. Approximate date work will start* 10/01/2017	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:

- 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) Chance Bland / Ph: (405)228-8593	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		

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: 10400016422

Submission Date: 07/18/2017

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: BOUNDARY RAIDER 6-7 FED COM

Well Number: 212H

Well Type: OIL WELL

Well Work Type: Drill

Application

Operator letter of designation:

Well plat:

Boudary_Raider_6_7_Fed_Com_212H_C_102_20171004072637.pdf

Drilling Plan

Blowout Prevention

Diagram:

Choke Diagram Attachment :

Boundary_Raider_6_7_Fed_Com_212_Todd_Apache_1_MDP_Reference_6_28_2017_07-17-2017.pdf

BOP Diagram Attachment :

Boundary_Raider_6_7_Fed_Com_212_Todd_Apache_1_MDP_Reference_6_28_2017_07-17-2017.pdf

Diagram:

Choke Diagram Attachment :

Boundary_Raider_6_7_Fed_Com_212_Todd_Apache_1_MDP_Reference_6_28_2017_07-17-2017.pdf

BOP Diagram Attachment :

Boundary_Raider_6_7_Fed_Com_212_Todd_Apache_1_MDP_Reference_6_28_2017_07-17-2017.pdf

Casing Attachments

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: BOUNDARY RAIDER 6-7 FED COM

Well Number: 212H

Casing Attachments

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_212HSurf_Csg_Ass_07-17-2017.pdf

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_212HInt_Csg_Ass_07-17-2017.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_212HProd_Csg_Ass_07-17-2017.pdf

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: BOUNDARY RAIDER 6-7 FED COM

Well Number: 212H

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_212H_H2S_Plan_07-17-2017.pdf

Proposed horizontal/directional/multi-lateral plan submission:

Boundary_Raider_6_7_Fed_Com_212H_Dir_Survey_07-18-2017.pdf

Other Facets:

Boundary_Raider_6_7_Fed_Com_212H_MB_Verb_07-17-2017.pdf

Boundary_Raider_6_7_Fed_Com_212H_MB_Wellhd_07-17-2017.pdf

Boundary_Raider_6_7_Fed_Com_212H_Clsd_Loop_07-17-2017.pdf

Other Variances:

Boundary_Raider_6_7_Fed_Com_212_Todd_Apache_1_MDP_Reference_6_28_2017_07-17-2017.pdf

Boundary_Raider_6_7_Fed_Com_212H_Spudder_Rig_20170913064336.pdf

Boundary_Raider_6_7_Fed_Com_212H_Co_flex_20171003131641.pdf

Surface Use Plan of Operations

Existing Road Map:

Boudary_Raider_6_7_Fed_Com_212H_Ex_Access_07-18-2017.pdf

New Road Map:

Boudary_Raider_6_7_Fed_Com_212H_Access_Rd_1_07-18-2017.pdf

Boudary_Raider_6_7_Fed_Com_212H_Access_Rd_2_07-18-2017.pdf

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: BOUNDARY RAIDER 6-7 FED COM

Well Number: 212H

Attach Well map:

Boudary_Raider_6_7_Fed_Com_212H_1_Mile_Map_07-18-2017.pdf

Water source and transportation map:

Boundary_Raider_6_7_FED_COM_212_H_Water_X_MAP_07-18-2017.pdf

Construction Materials source location attachment:

Boudary_Raider_6_7_Fed_Com_212HCaliche__Map_07-18-2017.pdf

Methods for Handling Waste

Waste type: FLOWBACK

Safe containment attachment:

Waste type: COMPLETIONS/STIMULATION

Safe containment attachment:

Waste type: DRILLING

Safe containment attachment:

Waste type: PRODUCED WATER

Safe containment attachment:

Well Site Layout Diagram:

Boundary_Raider_6_7_Fed_Com_212H_Rig_Layout.doc_07-18-2017.pdf

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: BOUNDARY RAIDER 6-7 FED COM

Well Number: 212H

Other SUPO Attachment:

Boudary_Raider_6_7_Fed_Com_212H_Oil_takeaway_07-18-2017.pdf

Boudary_Raider_6_7_Fed_Com_212HGasWTR_Takeaway_07-18-2017.pdf

Boundary_Raider_6_7_Fed_Com_212_Elec_1_07-18-2017.pdf

Boundary_Raider_6_7_Fed_Com_212_Elec_2_07-18-2017.pdf

Boundary_Raider_6_7_Fed_Com_212_Facilites_07-18-2017.pdf

Boundary_Raider_6_7_Fed_Com_212_Flow_Line_Plat_07-18-2017.pdf

Boudary_Raider_6_7_Fed_Com_212H_Gas_Capture_20171003131733.pdf

Produced Water Disposal

Bonds



APD ID: 10400016422

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: 212H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

Application

Section 1 - General

APD ID: 10400016422

Tie to previous NOS?

Submission Date: 07/18/2017

BLM Office: CARLSBAD

User: Chance Bland

Title: Regulatory Compliance
Professional

Federal/Indian APD: FED

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: 212H

Well API Number:

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: BOUNDARY RAIDER 6-7 FED COM

Well Number: 212H

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: 1220 FT

Distance to lease line: 750 FT

Reservoir well spacing assigned acres Measurement: 320 Acres

Well plat: Boudary_Raider_6_7_Fed_Com_212H_C_102_20171004072637.pdf

Well work start Date: 10/01/2017

Duration: 45 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Vertical Datum: NAVD88

Survey number: 5180C

	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	243 5	FWL	23S	32E	6	Lot 3	32.33922 3	- 103.7150 733	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 63994	353 0	102 00	101 38
KOP Leg #1	200	FNL	199 0	FWL	23S	32E	6	Lot 3	32.33922 3	- 103.7150 733	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 63994	- 622 3	977 7	975 3
PPP Leg #1	330	FNL	189 0	FWL	23S	32E	6	Lot 3	32.33922 3	- 103.7150 733	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 63994	353 0	102 00	101 38

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP**Well Name:** BOUNDARY RAIDER 6-7 FED COM**Well Number:** 212H

	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	330	FSL	1890	FWL	23S	32E	7	Tract N	32.312519	-103.7168431	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 86151	3530	19823	10138
BHL Leg #1	290	FSL	1890	FWL	23S	32E	7	Tract N	32.312519	-103.7168431	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 86151	3530	19823	10138

Drilling Plan

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
1	UNKNOWN	3530	0	0	ALLUVIUM	NONE	No
2	RUSTLER	2689	841	841	SALT	NONE	No
3	BASE OF SALT	-1023	4553	4553	SALT	NONE	No
4	DELAWARE	-1023	4553	4553	SANDSTONE	NATURAL GAS,OIL	No
5	BONE SPRING	-4929	8459	8459	SANDSTONE	NATURAL GAS,OIL	Yes
6	BONE SPRING 2ND	-6633	10163	10163	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: 212H

Boundary_Raider_6_7_Fed_Com_212_Todd_Apache_1_MDP_Reference_6_28_2017_07-17-2017.pdf

BOP Diagram Attachment:

Boundary_Raider_6_7_Fed_Com_212_Todd_Apache_1_MDP_Reference_6_28_2017_07-17-2017.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_212_Todd_Apache_1_MDP_Reference_6_28_2017_07-17-2017.pdf

BOP Diagram Attachment:

Boundary_Raider_6_7_Fed_Com_212_Todd_Apache_1_MDP_Reference_6_28_2017_07-17-2017.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	3530	2714	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	3530	-2470	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	3530	-6833	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: 212H

Casing Attachments

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_212H Surf_Csg_Ass_07-17-2017.pdf

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_212H Int_Csg_Ass_07-17-2017.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_212H Prod_Csg_Ass_07-17-2017.pdf

Section 4 - Cement

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: BOUNDARY RAIDER 6-7 FED COM

Well Number: 212H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	816	640	1.33	14.8	850	50	c	0.125 lbs/sack Poly-F-Flake

INTERMEDIATE	Lead		816	5000	1101	1.85	12.9	2036	30	c	(65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sks Poly-E-Flake
INTERMEDIATE	Tail		5000	6000	306	1.33	14.8	407	30	c	0.125 lbs/sack Poly-F-Flake
PRODUCTION	Lead		5800	1021 2	427	3.27	9	1386	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		1021 2	1980 0	2288	1.2	14.5	2746	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: 212H

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	19800	WATER-BASED MUD	8.5	9.3							
0	816	WATER-BASED MUD	8.5	9				2			
0	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: 5012

Anticipated Surface Pressure: 5012

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_212H_H2S_Plan_07-17-2017.pdf

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: BOUNDARY RAIDER 6-7 FED COM

Well Number: 212H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Boundary_Raider_6_7_Fed_Com_212H_Dir_Survey_07-18-2017.pdf

Other proposed operations facets description:

Multi-Bowl Verbiage
Multi-Bowl Wellhead
Closed Loop Design

Other proposed operations facets attachment:

Boundary_Raider_6_7_Fed_Com_212H_MB_Verb_07-17-2017.pdf
Boundary_Raider_6_7_Fed_Com_212H_MB_Wellhd_07-17-2017.pdf
Boundary_Raider_6_7_Fed_Com_212H_Clsd_Loop_07-17-2017.pdf

Other Variance attachment:

Boundary_Raider_6_7_Fed_Com_212_Todd_Apache_1_MDP_Reference_6_28_2017_07-17-2017.pdf
Boundary_Raider_6_7_Fed_Com_212H_Spudder_Rig_20170913064336.pdf
Boundary_Raider_6_7_Fed_Com_212H_Co_flex_20171003131641.pdf

SUPO

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

Boudary_Raider_6_7_Fed_Com_212H_Ex_Access_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: 212H

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

Boudary_Raider_6_7_Fed_Com_212H_Access_Rd_1_07-18-2017.pdf

Boudary_Raider_6_7_Fed_Com_212H_Access_Rd_2_07-18-2017.pdf

New road type: LOCAL

Length: 4769

Feet

Width (ft.): 30

Max slope (%): 4

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: 212H

Additional Attachment(s):

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

Boudary_Raider_6_7_Fed_Com_212H_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: 212H

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_212_H_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_212HCaliche__Map_07-18-2017.pdf

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: BOUNDARY RAIDER 6-7 FED COM

Well Number: 212H

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: 1985 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: 212H

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: 212H

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_212H_Rig_Layout.doc_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): 1.32

Wellpad short term disturbance (acres): 7.826

Access road long term disturbance (acres): 3.285

Access road short term disturbance (acres): 3.285

Pipeline long term disturbance (acres): 4.228331

Pipeline short term disturbance (acres): 4.228331

Other long term disturbance (acres): 0

Other short term disturbance (acres): 0

Total long term disturbance: 8.833331

Total short term disturbance: 15.339331

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:

Existing Vegetation at the well pad attachment:

Existing Vegetation Community at the road:

Existing Vegetation Community at the road attachment:

Existing Vegetation Community at the pipeline:

Existing Vegetation Community at the pipeline attachment:

Existing Vegetation Community at other disturbances:

Existing Vegetation Community at other disturbances attachment:

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: BOUNDARY RAIDER 6-7 FED COM

Well Number: 212H

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: 212H

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: 212H

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: 212H

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): 281001 ROW - ROADS,288100 ROW – O&G Pipeline,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? NO

Previous Onsite information:

Other SUPO Attachment

Boudary_Raider_6_7_Fed_Com_212H_Oil_takeaway_07-18-2017.pdf

Boudary_Raider_6_7_Fed_Com_212HGasWTR_Takeaway_07-18-2017.pdf

Boundary_Raider_6_7_Fed_Com_212_Elec_1_07-18-2017.pdf

Boundary_Raider_6_7_Fed_Com_212_Elec_2_07-18-2017.pdf

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: BOUNDARY RAIDER 6-7 FED COM

Well Number: 212H

Boundary_Raider_6_7_Fed_Com_212_Facilities_07-18-2017.pdf

Boundary_Raider_6_7_Fed_Com_212_Flow_Line_Plat_07-18-2017.pdf

Boudary_Raider_6_7_Fed_Com_212H_Gas_Capture_20171003131733.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:

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: BOUNDARY RAIDER 6-7 FED COM

Well Number: 212H

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:

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

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: BOUNDARY RAIDER 6-7 FED COM

Well Number: 212H

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: BOUNDARY RAIDER 6-7 FED COM

Well Number: 212H

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: Chance Bland

Signed on: 07/18/2017

Title: Regulatory Compliance Professional

Street Address: 333 West Sheridan Avenue

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: BOUNDARY RAIDER 6-7 FED COM

Well Number: 212H

City: Oklahoma City

State: OK

Zip: 73102

Phone: (405)228-8593

Email address: Chance.Bland@dvn.com

Field Representative

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: 263NB7AG