Form 3160-3
(March 2012)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

# APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.: NMNM114992

6. If Indian, Allotee or Tribe Name:

1a. Type of work: ☑ DRILL ☐ REENTER

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

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

8. Lease Name and Well No.: JAYHAWK 7-6 FED 82H (319566)

2. Name of Operator: DEVON ENERGY PRODUCTION COMPANY LP (6137)

9. API Well No.: 30-025-43981

3a. Address: 333 West Sheridan Avenue Oklahoma City Ok

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

10. Field and Pool, or Exploratory: WC-025 G-09 S253336D / UPPER WOL (98094)

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*

At surface: NENW / 330 FNL / 1665 FWL / LAT 32.0497888 / LONG -103.5121624

At proposed prod. zone: LOT 1 / 330 FNL / 1284 FWL / LAT 32.0788247 / LONG -103.5133873

11. Sec., T. R. M. or Blk. and Survey or Area: SEC 18 / T26S / R34E / NMP

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

12. County or Parish: LEA

13. State: NM

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any): 330 feet

16. No. of acres in lease: 1283.96

17. Spacing Unit dedicated to this well: 321.6

HOBBS OCD

SEP 08 2017

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.: 920 feet

19. Proposed Depth: 12794 feet / 22947 feet

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

RECEIVED

21. Elevations (Show whether DF, KDB, RT, GL, etc.): 3362 feet

22. Approximate date work will start*: 02/01/2018

23. Estimated duration: 45 days

## 24. Attachments

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

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

| 25. Signature | Name *(Printed Typed)* | Date |
|---|---|---|
| (Electronic Submission) | Rebecca Deal / Ph: (405)228-8429 | 02/27/2017 |

Title: Regulatory Compliance Professional

| Approved by *(Signature)* | Name *(Printed Typed)* | Date |
|---|---|---|
| (Electronic Submission) | Cody Layton / Ph: (575)234-5959 | 08/31/2017 |

| Title | Office |
|---|---|
| Supervisor Multiple Resources | HOBBS |

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
09/08/17

OCD REQUIRES NSL ORDER

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

# Operator Certification Data Report

09/06/2017

## 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:** 02/27/2017

**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

**Representative Name:** COLE METCALF

**Street Address:** 6488 SEVEN RIVERS HWY

**City:** ARTESIA **State:** NM **Zip:** 88210

**Phone:** (575)748-1872

**Email address:** COLE.METCALF@DVN.COM

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BUREAU OF LAND MANAGEMENT

# Application Data Report

09/06/2017

**APD ID:** 10400011592 **Submission Date:** 02/27/2017

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

**Well Name:** JAYHAWK 7-6 FED **Well Number:** 82H

**Well Type:** OIL WELL **Well Work Type:** Drill

Highlighted data reflects the most recent changes

Show Final Text

## Section 1 - General

**APD ID:** 10400011592 **Tie to previous NOS?** **Submission Date:** 02/27/2017

**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:** NMNM114992 **Lease Acres:** 1283.96

**Surface access agreement in place?** **Allotted?** **Reservation:**

**Agreement in place?** NO **Federal or Indian agreement:**

**Agreement number:**

**Agreement name:**

**Keep application confidential?** NO

**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?** NEW **Mater Development Plan name:** Rattlesnake 1 MDP

**Well in Master SUPO?** NO **Master SUPO name:**

**Well in Master Drilling Plan?** NO **Master Drilling Plan name:**

**Well Name:** JAYHAWK 7-6 FED **Well Number:** 82H **Well API Number:**

**Field/Pool or Exploratory?** Field and Pool **Field Name:** WC-025 G-09 S253336D **Pool Name:** UPPER WOLFCAMP

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

**Well Name:** JAYHAWK 7-6 FED **Well Number:** 82H

**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:** FIGHTING OKRA/JAYHAWK **Number:** 82H, 83H/82H, 83H

**Well Class:** HORIZONTAL **Number of Legs:** 1

**Well Work Type:** Drill

**Well Type:** OIL WELL

**Describe Well Type:**

**Well sub-Type:** INFILL

**Describe sub-type:**

**Distance to town:** **Distance to nearest well:** 920 FT **Distance to lease line:** 330 FT

**Reservoir well spacing assigned acres Measurement:** 321.6 Acres

**Well plat:** Jayhawk 7-6 Fed 82H _C-102 Signed_02-20-2017.pdf

**Well work start Date:** 02/01/2018 **Duration:** 45 DAYS

## Section 3 - Well Location Table

**Survey Type:** RECTANGULAR

**Describe Survey Type:**

**Datum:** NAD83 **Vertical Datum:** NAVD88

**Survey number:** 4811A

| | 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 | 330 | FNL | 1665 | FWL | 26S | 34E | 18 | Aliquot NENW | 32.0497888 | -103.5121624 | LEA | NEW MEXICO | NEW MEXICO | F | NMNM 114992 | 3362 | 0 | 0 |
| KOP Leg #1 | 150 | FNL | 1284 | FWL | 26S | 34E | 18 | Aliquot NWNW | 32.0497888 | -103.5121624 | LEA | NEW MEXICO | NEW MEXICO | F | NMNM 114992 | -8914 | 12292 | 12276 |
| PPP Leg #1 | 330 | FSL | 1284 | FWL | 26S | 34E | 7 | Lot 4 | 32.0497888 | -103.5121624 | LEA | NEW MEXICO | NEW MEXICO | F | NMNM 114990 | -9392 | 13040 | 12754 |

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

**Well Name:** JAYHAWK 7-6 FED **Well Number:** 82H

| | 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 | FNL | 1284 | FWL | 26S | 34E | 6 | Lot 1 | 32.0788247 | -103.5133873 | LEA | NEW MEXICO | NEW MEXICO | F | NMNM 114990 | -9432 | 22947 | 12794 |
| BHL Leg #1 | 330 | FNL | 1284 | FWL | 26S | 34E | 6 | Lot 1 | 32.0788247 | -103.5133873 | LEA | NEW MEXICO | NEW MEXICO | F | NMNM 114990 | -9432 | 22947 | 12794 |

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# Drilling Plan Data Report

09/06/2017

**APD ID:** 10400011592 **Submission Date:** 02/27/2017

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

**Well Name:** JAYHAWK 7-6 FED **Well Number:** 82H

**Well Type:** OIL WELL **Well Work Type:** Drill

Highlighted data reflects the most recent changes

Show Final Text

## Section 1 - Geologic Formations

| Formation ID | Formation Name | Elevation | True Vertical Depth | Measured Depth | Lithologies | Mineral Resources | Producing Formation |
|---|---|---|---|---|---|---|---|
| 17318 | UNKNOWN | 3361 | 0 | 0 | OTHER : SURFACE | NONE | No |
| 17348 | RUSTLER | 2567 | 794 | 794 | ANHYDRITE | NONE | No |
| 17349 | TOP OF SALT | 2212 | 1149 | 1149 | SALT | NONE | No |
| 17350 | BASE OF SALT | -1681 | 5042 | 5042 | SALT | NONE | No |
| 17315 | DELAWARE | -1918 | 5279 | 5279 | SANDSTONE | NATURAL GAS,OIL | No |
| 17376 | BRUSHY CANYON LOWER | -5978 | 9339 | 9339 | SANDSTONE | NATURAL GAS,OIL | No |
| 18614 | BONE SPRING LIME | -6188 | 9549 | 9549 | LIMESTONE | NATURAL GAS,OIL | No |
| 17359 | BONE SPRING 1ST | -7083 | 10444 | 10444 | SANDSTONE | NATURAL GAS,OIL | No |
| 18614 | BONE SPRING LIME | -7313 | 10674 | 10674 | LIMESTONE | NATURAL GAS,OIL | No |
| 17364 | BONE SPRING 2ND | -7678 | 11039 | 11039 | SANDSTONE | NATURAL GAS,OIL | No |
| 17366 | BONE SPRING 3RD | -8138 | 11499 | 11499 | LIMESTONE | NATURAL GAS,OIL | No |
| 17366 | BONE SPRING 3RD | -8758 | 12119 | 12119 | SANDSTONE | NATURAL GAS,OIL | No |
| 17333 | WOLFCAMP | -9188 | 12549 | 12549 | SHALE | NATURAL GAS,OIL | Yes |
| 17333 | WOLFCAMP | -9378 | 12739 | 12739 | SHALE | NATURAL GAS,OIL | Yes |

## Section 2 - Blowout Prevention

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

**Well Name:** JAYHAWK 7-6 FED **Well Number:** 82H

**Pressure Rating (PSI):** 5M **Rating Depth:** 12794

**Equipment:** 5M 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 to Choke Manifold. See attached for specs and hydrostatic test chart.
**Testing Procedure:** A multibowl wellhead may be used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. Devon proposes using a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 3000 (3M) psi. • Wellhead will be installed by wellhead representatives. • If the welding is performed by a third party, the wellhead representative will monitor the temperature to verify that it does not exceed the maximum temperature of the seal. • Wellhead representative will install the test plug for the initial BOP test. • Wellhead company will install a solid steel body pack-off to completely isolate the lower head after cementing intermediate casing. After installation of the pack-off, the pack-off and the lower flange will be tested to 3M, as shown on the attached schematic. Everything above the pack-off will not have been altered whatsoever from the initial nipple up. Therefore the BOP components will not be retested at that time. • If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head will be cut and top out operations will be conducted. • Devon will pressure test all seals above and below the mandrel (but still above the casing) to full working pressure rating. • Devon will test the casing to 0.22 psi/ft or 1500 psi, whichever is greater, as per Onshore Order #2. After running the 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 and will undergo a 250 psi low pressure test followed by a 3,000 psi high pressure test. The 3,000 psi high and 250 psi low test will cover testing requirements a maximum of 30 days, as per Onshore Order #2. If the well is not complete within 30 days of this BOP test, another full BOP test will be conducted, as per Onshore Order #2. After running the 9-5/8' intermediate casing with a mandrel hanger, the 13-5/8" BOP/BOPE system with a minimum rating of 3M will already be installed on the wellhead. 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.

**Choke Diagram Attachment:**

Jayhawk 7-6 Fed 82H _5M BOPE CHK_02-17-2017.pdf

**BOP Diagram Attachment:**

Jayhawk 7-6 Fed 82H _5M BOPE CHK_02-17-2017.pdf

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**Pressure Rating (PSI):** 5M **Rating Depth:** 12794

**Equipment:** 5M 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 to Choke Manifold. See attached for specs and hydrostatic test chart.
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**Choke Diagram Attachment:**

Jayhawk 7-6 Fed 82H _5M BOPE CHK_02-17-2017.pdf

**BOP Diagram Attachment:**

Jayhawk 7-6 Fed 82H _5M BOPE CHK_02-17-2017.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 | 850 | 0 | 850 | -9392 | -10242 | 850 | H-40 | 48 | STC | 1.59 | 3.46 | BUOY | 2.11 | BUOY | 2.11 |
| 2 | INTERMEDIATE | 12.25 | 9.625 | NEW | API | N | 0 | 11600 | 0 | 11600 | -9392 | -20992 | 11600 | P-110 | 40 | OTHER - BTC | 1.25 | 1.59 | BUOY | 2.58 | BUOY | 2.58 |
| 3 | PRODUCTION | 8.75 | 5.5 | NEW | API | N | 0 | 22947 | 0 | 12794 | -9392 | -22186 | 22947 | P-110 | 20 | OTHER - BTC | 1.27 | 1.26 | BUOY | 1.83 | BUOY | 1.83 |

**Casing Attachments**

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

**Well Name:** JAYHAWK 7-6 FED **Well Number:** 82H

**Casing Attachments**

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

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

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

Jayhawk 7-6 Fed 82H _Surf Csg Ass_02-17-2017.pdf

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

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

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

Jayhawk 7-6 Fed 82H _Int Csg Ass_02-17-2017.pdf

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

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

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

Jayhawk 7-6 Fed 82H _Prod Csg Ass_02-17-2017.pdf

## Section 4 - Cement

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

**Well Name:** JAYHAWK 7-6 FED **Well Number:** 82H

| String Type | Lead/Tail | Stage Tool Depth | Top MD | Bottom MD | Quantity(sx) | Yield | Density | Cu Ft | Excess% | Cement type | Additives |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SURFACE | Lead | | 0 | 850 | 665 | 1.34 | 14.8 | 886 | 50 | C | 1% Calcium Chloride |
| INTERMEDIATE | Lead | | 0 | 9600 | 1630 | 2.31 | 11.9 | 3758 | 30 | C | Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sks Poly-E-Flake |
| INTERMEDIATE | Tail | | 9600 | 11600 | 590 | 1.33 | 14.8 | 783 | 30 | C | 0.125 lbs/sks Poly-R-Flake |
| PRODUCTION | Lead | | 11400 | 12500 | 135 | 2.31 | 11.9 | 305 | 25 | C | Enhancer 923 + 10% BWOC Bentonite + 0.05% BWOC SA-1015 + 0.3% BWOC HR-800 + 0.2% BWOC FE-2 + 0.125 lb/sk Pol-E-Flake + 0.5 lb/sk D-Air 5000 |
| PRODUCTION | Tail | | 12500 | 22947 | 2485 | 1.2 | 14.5 | 2980 | 25 | H | 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:** JAYHAWK 7-6 FED **Well Number:** 82H

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 850 | WATER-BASED MUD | 8.4 | 8.5 | | | | 2 | | | |
| 850 | 11600 | OIL-BASED MUD | 8.4 | 9 | | | | 2 | | | |
| 11600 | 22947 | OIL-BASED MUD | 10.5 | 11 | | | | 12 | | | |

## Section 6 - Test, Logging, Coring

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

Will run GRMWD from TD to from KOP. Cement bond logs will be run in vertical to determine top of cement. 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:**

N/A

## Section 7 - Pressure

**Anticipated Bottom Hole Pressure:** 7317 **Anticipated Surface Pressure:** 4502.32

**Anticipated Bottom Hole Temperature(F):** 165

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

**Describe:**

**Contingency Plans geoharzards description:**

**Contingency Plans geohazards attachment:**

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

**Hydrogen sulfide drilling operations plan:**

Jayhawk 7-6 Fed 82H_H2S Plan_02-17-2017.pdf

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

**Well Name:** JAYHAWK 7-6 FED **Well Number:** 82H

## Section 8 - Other Information

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

Jayhawk 7-6 Fed 82H _Directional Plan_02-17-2017.pdf

Jayhawk 7-6 Fed 82H_Drlg Doc_02-22-2017.pdf

**Other proposed operations facets description:**

MULTI-BOWL VERBIAGE
MULTI-BOWL WELLHEAD
CLOSED-LOOP DESIGN PLAN
ANTI-COLLISION PLAN
- DRILLING PLAN UPLOADED

**Other proposed operations facets attachment:**

Jayhawk 7-6 Fed 82H _Clsd Loop_02-17-2017.pdf

Jayhawk 7-6 Fed 82H _MB Verb_02-17-2017.pdf

Jayhawk 7-6 Fed 82H _MB Wellhd_02-17-2017.pdf

Jayhawk 7-6 Fed 82H_AC Report_02-17-2017.pdf

Jayhawk_7_6_Fed_82H_GCP_Form_07-05-2017.pdf

**Other Variance attachment:**

Jayhawk 7-6 Fed 82H _Co-flex_02-17-2017.pdf

**APD ID:** 10400011592 **Submission Date:** 02/27/2017

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

**Well Name:** JAYHAWK 7-6 FED **Well Number:** 82H

**Well Type:** OIL WELL **Well Work Type:** Drill

Highlighted data reflects the most recent changes

Show Final Text

## Section 1 - Existing Roads

**Will existing roads be used?** YES

**Existing Road Map:**

Jayhawk 7-6 Fed 82H _Access Rd_02-17-2017.pdf

**Existing Road Purpose:** ACCESS,FLUID TRANSPORT **Row(s) Exist?** NO

### ROW ID(s)

**ID:**

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

**Existing Road Improvement Description:** Improve road to accommodate Drilling and Completion operations. The Jayhawk wells are part of the Rattlesnake MDP1. The pads and plats that are associated with the Jayhawk wells are titled Rattlesnake because they are part of the MDP. All attached files refer to the Jayhawk wells that sit on and are associated with the Rattlesnake MDP pads and plats.

**Existing Road Improvement Attachment:**

## Section 2 - New or Reconstructed Access Roads

**Will new roads be needed?** YES

**New Road Map:**

Jayhawk 7-6 Fed 82H_New Rd Map_02-22-2017.pdf

**New road type:** COLLECTOR,RESOURCE

**Length:** 123 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:** 30

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

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

**New road access plan attachment:**

Jayhawk 7-6 Fed 82H_New Rd Map_02-22-2017.pdf

**Access road engineering design?** YES

**Access road engineering design attachment:**

Jayhawk 7-6 Fed 82H_New Rd Map_02-22-2017.pdf

**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; Interim reclamation will be postponed in accordance to the stipulations within the MDP document.

**Access other construction information:**

**Access miscellaneous information:**

**Number of access turnouts:** **Access turnout map:**

## Drainage Control

**New road drainage crossing:** OTHER

**Drainage Control comments:** N/A

**Road Drainage Control Structures (DCS) description:** N/A

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

## Access Additional Attachments

**Additional Attachment(s):**

## Section 3 - Location of Existing Wells

**Existing Wells Map?** YES

**Attach Well map:**

JAYHAWK 7-6 FED 82H_1 Mile Radius Map_02-22-2017.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:**

**Production Facilities description:** The Jayhawk wells are part of the Rattlesnake MDP1. The pads and plats that are associated with the Jayhawk wells are titled Rattlesnake because they are part of the MDP. All attached files refer to the Jayhawk wells that sit on and are associated with the Rattlesnake MDP pads and plats. RS MDP1 CTB 18-3 - 8 ATTACHMENTS: Plat, Flowline Corridor, Battery Connect Crude & Gas, CTB Electric, Pad Conn Electric, MDP pad plat,

Electric Line

**Production Facilities map:**

Jayhawk 7-6 Fed 82H_BATT CONN CRUDE_02-22-2017.pdf
Jayhawk 7-6 Fed 82H_ELE_02-22-2017.pdf
Jayhawk 7-6 Fed 82H_CTB ELE_02-22-2017.pdf
Jayhawk 7-6 Fed 82H_FL CORRIDOR_02-22-2017.PDF
Jayhawk 7-6 Fed 82H_GAS-WATER PLAT_02-22-2017.pdf
Jayhawk 7-6 Fed 82H_MDP1_18_3_PAD_EL_02-22-2017.PDF
Jayhawk 7-6 Fed 82H_MDP1_CTB_18_3_PAD_02-22-2017.pdf
Jayhawk 7-6 Fed 82H_MDP1_PAD_18_3_PAD_02-22-2017.pdf

## 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:** FEDERAL

**Water source volume (barrels):** 350000 **Source volume (acre-feet):** 45.112583

**Source volume (gal):** 14700000

**Water source and transportation map:**

Jayhawk 7-6 Fed 82H _Water Map_02-17-2017.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:**

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

**Well Name:** JAYHAWK 7-6 FED **Well Number:** 82H

**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:**

Jayhawk 7-6 Fed 82H_CALICHE MAP_02-22-2017.pdf

## Section 7 - Methods for Handling Waste

**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:**

**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:** PRODUCED WATER

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

**Amount of waste:** 1400 barrels

**Waste disposal frequency :** Daily

**Safe containment description:** N/A

**Safe containmant attachment:**

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

**Disposal type description:**

**Disposal location description:** Produced water will be primarily disposed of at our Rattlesnake 16 SWD. At certain times during the year, some of the water will be recycled and used for drilling/completion operations. This recycle facility is at the same location as the SWD (state).

**Waste type:** DRILLING

**Waste content description:** Water and oil based cuttings

**Amount of waste:** 1600 barrels

**Waste disposal frequency :** Daily

**Safe containment description:** N/A

**Safe containmant attachment:**

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

**Disposal type description:**

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

**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:** OFF-LEASE INJECTION **Disposal location ownership:** STATE

**Disposal type description:**

**Disposal location description:** Produced water during flowback will be disposed of at our Rattlesnake 16 SWD.

## 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

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

**Well Name:** JAYHAWK 7-6 FED **Well Number:** 82H

**Cuttings Area being used?** NO

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

**Description of cuttings location**

**Cuttings area length (ft.)** **Cuttings area width (ft.)**

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

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

**WCuttings area liner**

**Cuttings area liner specifications and installation description**

## Section 8 - Ancillary Facilities

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

**Ancillary Facilities attachment:**

**Comments:**

## Section 9 - Well Site Layout

**Well Site Layout Diagram:**

Jayhawk 7-6 Fed 82H _Well Site Layout_02-17-2017.pdf

**Comments:**

## Section 10 - Plans for Surface Reclamation

**Type of disturbance:** NEW

**Recontouring attachment:**

Jayhawk 7-6 Fed 82H _Interim Recl_02-17-2017.pdf

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

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

**Wellpad long term disturbance (acres):** 8.269 **Wellpad short term disturbance (acres):** 8.269

**Access road long term disturbance (acres):** 0.0847 **Access road short term disturbance (acres):** 0.0847

**Pipeline long term disturbance (acres):** 0 **Pipeline short term disturbance (acres):** 0

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

**Total long term disturbance:** 8.3537 **Total short term disturbance:** 8.3537

**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.

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

**Well Name:** JAYHAWK 7-6 FED **Well Number:** 82H

**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:**

**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 |
|---|---|

**Seed reclamation attachment:**

## Operator Contact/Responsible Official Contact Info

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

**Well Name:** JAYHAWK 7-6 FED **Well Number:** 82H

**First Name:** Cole **Last Name:** Metcalf

**Phone:** (575)748-1872 **Email:** cole.metcalf@dvn.com

**Seedbed prep:**

**Seed BMP:**

**Seed method:**

**Existing invasive species?** NO

**Existing invasive species treatment description:**

**Existing invasive species treatment attachment:**

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

**Weed treatment plan attachment:**

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

**Monitoring plan attachment:**

**Success standards:** N/A

**Pit closure description:** N/A

**Pit closure attachment:**

## Section 11 - Surface Ownership

**Disturbance type:** NEW ACCESS ROAD

**Describe:**

**Surface Owner:** BUREAU OF LAND MANAGEMENT

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:**

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:** **USFS Ranger District:**

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

**Well Name:** JAYHAWK 7-6 FED **Well Number:** 82H

**Disturbance type:** EXISTING ACCESS ROAD

**Describe:**

**Surface Owner:** BUREAU OF LAND MANAGEMENT

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:**

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:** **USFS Ranger District:**

**Disturbance type:** WELL PAD

**Describe:**

**Surface Owner:** BUREAU OF LAND MANAGEMENT

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:**

**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:** JAYHAWK 7-6 FED **Well Number:** 82H

**Disturbance type:** PIPELINE

**Describe:**

**Surface Owner:** BUREAU OF LAND MANAGEMENT

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:**

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:** **USFS Ranger District:**

## Section 12 - Other Information

**Right of Way needed?** YES **Use APD as ROW?** YES

**ROW Type(s):** 288100 ROW – O&G Pipeline,288101 ROW – O&G Facility Sites,288103 ROW – Salt Water Disposal Pipeline/Facility,Other

## ROW Applications

**SUPO Additional Information:** The Jayhawk wells are part of the Rattlesnake MDP1. The pads and plats that are associated with the Jayhawk wells are titled Rattlesnake because they are part of the MDP. All attached files refer to the Jayhawk wells that sit on and are associated with Rattlesnake MDP pads and plats. RS MDP1 CTB 18-3 – 8 ATTACHMENTS: Plat, Flowline Corridor, Battery Connect Crude & Gas, CTB Electric, Pad Conn Electric, MDP pad plat, Electric Line

**Use a previously conducted onsite?** YES

**Previous Onsite information:** PREVIOUS ONSITE CONDUCTED 11/29/2016

## Other SUPO Attachment

Jayhawk 7-6 Fed 82H_BATT CONN CRUDE_02-22-2017.pdf

Jayhawk 7-6 Fed 82H_CTB ELE_02-22-2017.pdf

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

**Well Name:** JAYHAWK 7-6 FED **Well Number:** 82H

Jayhawk 7-6 Fed 82H_FL CORRIDOR_02-22-2017.PDF

Jayhawk 7-6 Fed 82H_ELE_02-22-2017.pdf

Jayhawk 7-6 Fed 82H_GAS-WATER PLAT_02-22-2017.pdf

Jayhawk 7-6 Fed 82H_MDP1_18_3_PAD_EL_02-22-2017.PDF

Jayhawk 7-6 Fed 82H_MDP1_CTB_18_3_PAD_02-22-2017.pdf

Jayhawk 7-6 Fed 82H_MDP1_PAD_18_3_PAD_02-22-2017.pdf

Jayhawk_7_6_Fed_82H_GCP_Form_07-24-2017.pdf

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# PWD Data Report
09/06/2017

## 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:**

**Decribe 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:**

**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:**

**Decribe 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:**

**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:**

**Other PWD type attachment:**

**Have other regulatory requirements been met?**

**Other regulatory requirements attachment:**

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BUREAU OF LAND MANAGEMENT

# Bond Info Data Report

09/06/2017

## 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:**