

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

HOBBS OCD

MAY 01 2017

RECEIVED

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

5. Lease Serial No. NMLC061869		6. If Indian, Allottee or Tribe Name	
7. If Unit or CA Agreement, Name and No.		8. Lease Name and Well No. ARABIAN 30-19 FED COM 3H (316114)	
9. API Well No. 30-025-43774		10. Field and Pool, or Exploratory WC-025 G-08 S253235G / LWR BONE E (97903)	
11. Sec., T. R. M. or Blk. and Survey or Area SEC 30 / T25S / R32E / NMP		12. County or Parish LEA	
13. State NM		14. Distance in miles and direction from nearest town or post office*	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 190 feet	16. No. of acres in lease 2398.96	17. Spacing Unit dedicated to this well 240	
18. Distance from proposed location* to nearest well, drilling, completed, 50 feet applied for, on this lease, ft. 50 feet	19. Proposed Depth 10441 feet / 17758 feet	20. BLM/BIA Bond No. on file FED: CO1104	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3362 feet	22. Approximate date work will start* 10/20/2017	23. Estimated duration 45 days	

24. Attachments

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

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

25. Signature (Electronic Submission)	Name (Printed/Typed) Linda Good / Ph: (405)552-6558	Date 10/24/2016
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Title
Regulatory Compliance Professional

Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) Ty Allen / Ph: (575)234-5978	Date 04/25/2017
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Title
Wildlife Biologist
Office
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
05/01/17



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: Linda Good

Signed on: 10/24/2016

Title: Regulatory Compliance Professional

Street Address: 333 West Sheridan Avenue

City: Oklahoma City

State: OK

Zip: 73102

Phone: (405)552-6558

Email address: Linda.Good@dnv.com

Field Representative

Representative Name: Ray Vaz

Street Address: 6488 Seven Rivers Hwy

City: Artesia

State: NM

Zip: 88210

Phone: (575)748-1810

Email address: ray.vaz@dnv.com



APD ID: 10400006919	Submission Date: 10/24/2016
Operator Name: DEVON ENERGY PRODUCTION COMPANY LP	
Well Name: ARABIAN 30-19 FED COM	Well Number: 3H
Well Type: OIL WELL	Well Work Type: Drill

Section 1 - General

APD ID: 10400006919	Tie to previous NOS?	Submission Date: 10/24/2016
BLM Office: HOBBS	User: Linda Good	Title: Regulatory Compliance Professional
Federal/Indian APD: FED	Is the first lease penetrated for production Federal or Indian? FED	
Lease number: NMLC061869	Lease Acres: 2398.96	
Surface access agreement in place?	Allotted?	Reservation:
Agreement in place? NO	Federal or Indian agreement:	
Agreement number:		
Agreement name:		
Keep application confidential? YES		
Permitting Agent? NO	APD Operator: DEVON ENERGY PRODUCTION COMPANY LP	
Operator letter of designation:		
Keep application confidential? YES		

Operator Info

Operator Organization Name: DEVON ENERGY PRODUCTION COMPANY LP
Operator Address: 333 West Sheridan Avenue
Operator PO Box: Zip: 73102
Operator City: Oklahoma City **State:** OK
Operator Phone: (405)552-6571
Operator Internet Address: aletha.dewbre@dvn.com

Section 2 - Well Information

Well in Master Development Plan? NO	Mater Development Plan name:	
Well in Master SUPO? NO	Master SUPO name:	
Well in Master Drilling Plan? NO	Master Drilling Plan name:	
Well Name: ARABIAN 30-19 FED COM	Well Number: 3H	Well API Number:
Field/Pool or Exploratory? Field and Pool	Field Name: WC-025 G-08 S253235G	Pool Name: LWR BONE SPRING

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: ARABIAN 30-19 FED COM

Well Number: 3H

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:
ARABIAN 30-19 FED COM

Number: 3H & 4H

Well Class: HORIZONTAL

Number of Legs:

Well Work Type: Drill

Well Type: OIL WELL

Describe Well Type:

Well sub-Type: EXPLORATORY (WILDCAT)

Describe sub-type:

Distance to town:

Distance to nearest well: 50 FT

Distance to lease line: 190 FT

Reservoir well spacing assigned acres Measurement: 240 Acres

Well plat: Arabian 30-19 Fed Com 3H_C-102_signed_10-19-2016.pdf

Well work start Date: 10/20/2017

Duration: 45 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Vertical Datum: NAVD88

Survey number: 400660XYZ

STATE: NEW MEXICO

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

Latitude: 32.1018471

Longitude: -103.710211

SHL

Elevation: 3362

MD: 0

TVD: 0

Leg #: 1

Lease Type: FEDERAL

Lease #: NMLC062300

NS-Foot: 2450

NS Indicator: FNL

EW-Foot: 1345

EW Indicator: FEL

Twsp: 25S

Range: 32E

Section: 30

Aliquot: SWNE

Lot:

Tract:

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: ARABIAN 30-19 FED COM

Well Number: 3H

	STATE: NEW MEXICO	Meridian: NEW MEXICO PRINCIPAL	County: LEA
	Latitude: 32.1018471	Longitude: -103.710211	
KOP	Elevation: -6618	MD: 10000	TVD: 9980
Leg #: 1	Lease Type: FEDERAL	Lease #: NMLC062300	
	NS-Foot: 2477	NS Indicator: FNL	
	EW-Foot: 1714	EW Indicator: FEL	
	Twsp: 25S	Range: 32E	Section: 30
	Aliquot: SWNE	Lot:	Tract:
	STATE: NEW MEXICO	Meridian: NEW MEXICO PRINCIPAL	County: LEA
	Latitude: 32.1018471	Longitude: -103.710211	
PPP	Elevation: -7079	MD: 10581	TVD: 10441
Leg #: 1	Lease Type: FEDERAL	Lease #: NMLC062300	
	NS-Foot: 2180	NS Indicator: FNL	
	EW-Foot: 1726	EW Indicator: FEL	
	Twsp: 25S	Range: 32E	Section: 30
	Aliquot: SWNE	Lot:	Tract:
	STATE: NEW MEXICO	Meridian: NEW MEXICO PRINCIPAL	County: LEA
	Latitude: 32.1222806	Longitude: -103.7122956	
EXIT	Elevation: -7079	MD: 17758	TVD: 10441
Leg #: 1	Lease Type: FEDERAL	Lease #: NMLC061869	
	NS-Foot: 290	NS Indicator: FNL	
	EW-Foot: 1980	EW Indicator: FEL	
	Twsp: 25S	Range: 32E	Section: 19
	Aliquot: NWNE	Lot:	Tract:
	STATE: NEW MEXICO	Meridian: NEW MEXICO PRINCIPAL	County: LEA
	Latitude: 32.1222806	Longitude: -103.7122956	
BHL	Elevation: -7079	MD: 17758	TVD: 10441
Leg #: 1	Lease Type: FEDERAL	Lease #: NMLC061869	
	NS-Foot: 290	NS Indicator: FNL	
	EW-Foot: 1980	EW Indicator: FEL	

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: ARABIAN 30-19 FED COM

Well Number: 3H

Twsp: 25S

Range: 32E

Section: 19

Aliquot: NWNE

Lot:

Tract:

APD ID: 10400006919

Submission Date: 10/24/2016

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: ARABIAN 30-19 FED COM

Well Number: 3H

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - Geologic Formations

ID: Surface formation

Name: UNKNOWN

Lithology(ies):

ALLUVIUM

Elevation: 3362

True Vertical Depth: 0

Measured Depth: 0

Mineral Resource(s):

NONE

Is this a producing formation? N

ID: Formation 1

Name: RUSTLER

Lithology(ies):

DOLOMITE

Elevation: 2390

True Vertical Depth: 972

Measured Depth: 972

Mineral Resource(s):

NONE

Is this a producing formation? N

ID: Formation 2

Name: SALADO

Lithology(ies):

SALT

Elevation: 2065

True Vertical Depth: 1297

Measured Depth: 1297

Mineral Resource(s):

NONE

Is this a producing formation? N

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: ARABIAN 30-19 FED COM

Well Number: 3H

ID: Formation 3

Name: BASE OF SALT

Lithology(ies):

ANHYDRITE

Elevation: -865

True Vertical Depth: 4227

Measured Depth: 4227

Mineral Resource(s):

NONE

Is this a producing formation? N

ID: Formation 4

Name: DELAWARE

Lithology(ies):

SANDSTONE

Elevation: -1120

True Vertical Depth: 4482

Measured Depth: 4482

Mineral Resource(s):

NATURAL GAS

OIL

Is this a producing formation? N

ID: Formation 5

Name: BELL CANYON

Lithology(ies):

SANDSTONE

Elevation: -1150

True Vertical Depth: 4512

Measured Depth: 4512

Mineral Resource(s):

NATURAL GAS

OIL

Is this a producing formation? N

ID: Formation 6

Name: CHERRY CANYON

Lithology(ies):

SANDSTONE

Elevation: -2055

True Vertical Depth: 5417

Measured Depth: 5417

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: ARABIAN 30-19 FED COM

Well Number: 3H

Mineral Resource(s):

NATURAL GAS

OIL

Is this a producing formation? N

ID: Formation 7

Name: BRUSHY CANYON

Lithology(ies):

SANDSTONE

Elevation: -3430

True Vertical Depth: 6792

Measured Depth: 6792

Mineral Resource(s):

NATURAL GAS

OIL

Is this a producing formation? N

ID: Formation 8

Name: BONE SPRING

Lithology(ies):

LIMESTONE

Elevation: -4993

True Vertical Depth: 8355

Measured Depth: 8355

Mineral Resource(s):

NATURAL GAS

OIL

Is this a producing formation? N

ID: Formation 9

Name: BONE SPRING 1ST

Lithology(ies):

SANDSTONE

Elevation: -6067

True Vertical Depth: 9429

Measured Depth: 9429

Mineral Resource(s):

NATURAL GAS

OIL

Is this a producing formation? N

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: ARABIAN 30-19 FED COM

Well Number: 3H

ID: Formation 10

Name: BONE SPRING 2ND

Lithology(ies):

LIMESTONE

Elevation: -6315

True Vertical Depth: 9677

Measured Depth: 9677

Mineral Resource(s):

NATURAL GAS

OIL

Is this a producing formation? N

ID: Formation 11

Name: BONE SPRING 2ND

Lithology(ies):

SANDSTONE

Elevation: -6680

True Vertical Depth: 10042

Measured Depth: 10042

Mineral Resource(s):

NATURAL GAS

OIL

Is this a producing formation? Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 3M

Rating Depth: 10441

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

Choke Diagram Attachment:

Arabian 30-19 Fed Com 3H_3M BOPE_Ck_10-19-2016.pdf

BOP Diagram Attachment:

Arabian 30-19 Fed Com 3H_3M BOPE_Ck_10-19-2016.pdf

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: ARABIAN 30-19 FED COM

Well Number: 3H

Pressure Rating (PSI): 3M

Rating Depth: 4225

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

Choke Diagram Attachment:

Arabian 30-19 Fed Com 3H_3M BOPE_Ck_10-19-2016.pdf

BOP Diagram Attachment:

Arabian 30-19 Fed Com 3H_3M BOPE_Ck_10-19-2016.pdf

Section 3 - Casing

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: ARABIAN 30-19 FED COM

Well Number: 3H

String Type: INTERMEDIATE

Other String Type:

Hole Size: 12.25

Top setting depth MD: 0

Top setting depth TVD: 0

Top setting depth MSL:

Bottom setting depth MD: 4225

Bottom setting depth TVD: 4225

Bottom setting depth MSL:

Calculated casing length MD: 4225

Casing Size: 9.625

Other Size

Grade: J-55

Other Grade:

Weight: 40

Joint Type: LTC

Other Joint Type:

Condition: NEW

Inspection Document:

Standard: API

Spec Document:

Tapered String?: N

Tapered String Spec:

Safety Factors

Collapse Design Safety Factor: 1.19

Burst Design Safety Factor: 1.42

Joint Tensile Design Safety Factor type: BUOYANT

Joint Tensile Design Safety Factor: 3.98

Body Tensile Design Safety Factor type: BUOYANT

Body Tensile Design Safety Factor: 3.98

Casing Design Assumptions and Worksheet(s):

Intermediate Casing Assumptions_10-19-2016.pdf

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: ARABIAN 30-19 FED COM

Well Number: 3H

String Type: SURFACE

Other String Type:

Hole Size: 17.5

Top setting depth MD: 0

Top setting depth TVD: 0

Top setting depth MSL:

Bottom setting depth MD: 1000

Bottom setting depth TVD: 1000

Bottom setting depth MSL:

Calculated casing length MD: 1000

Casing Size: 13.375

Other Size

Grade: J-55

Other Grade:

Weight: 48

Joint Type: STC

Other Joint Type:

Condition: NEW

Inspection Document:

Standard: API

Spec Document:

Tapered String?: N

Tapered String Spec:

Safety Factors

Collapse Design Safety Factor: 1.74

Burst Design Safety Factor: 2.45

Joint Tensile Design Safety Factor type: BUOYANT

Joint Tensile Design Safety Factor: 4.13

Body Tensile Design Safety Factor type: BUOYANT

Body Tensile Design Safety Factor: 4.13

Casing Design Assumptions and Worksheet(s):

Surface Casing Assumptions_10-19-2016.pdf

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: ARABIAN 30-19 FED COM

Well Number: 3H

String Type: PRODUCTION

Other String Type:

Hole Size: 8.75

Top setting depth MD: 0

Top setting depth TVD: 0

Top setting depth MSL:

Bottom setting depth MD: 17758

Bottom setting depth TVD: 10441

Bottom setting depth MSL:

Calculated casing length MD: 17758

Casing Size: 5.5

Other Size

Grade: P-110

Other Grade:

Weight: 17

Joint Type: OTHER

Other Joint Type: BTC

Condition: NEW

Inspection Document:

Standard: API

Spec Document:

Tapered String?: N

Tapered String Spec:

Safety Factors

Collapse Design Safety Factor: 2.18

Burst Design Safety Factor: 2.7

Joint Tensile Design Safety Factor type: BUOYANT

Joint Tensile Design Safety Factor: 3.21

Body Tensile Design Safety Factor type: BUOYANT

Body Tensile Design Safety Factor: 3.21

Casing Design Assumptions and Worksheet(s):

Production Casing Assumptions_10-19-2016.pdf

Section 4 - Cement

Casing String Type: SURFACE

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: ARABIAN 30-19 FED COM

Well Number: 3H

Stage Tool Depth:

Lead

Top MD of Segment: 0

Bottom MD Segment: 1000

Cement Type: C

Additives: 1% Calcium Chloride

Quantity (sks): 778

Yield (cu.ff./sk): 1.34

Density: 14.8

Volume (cu.ft.): 1042

Percent Excess: 50

Casing String Type: INTERMEDIATE

Stage Tool Depth:

Lead

Top MD of Segment: 0

Bottom MD Segment: 3225

Cement Type: C

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

Quantity (sks): 710

Yield (cu.ff./sk): 1.85

Density: 12.9

Volume (cu.ft.): 1300

Percent Excess: 30

Tail

Top MD of Segment: 3225

Bottom MD Segment: 4225

Cement Type: H

Additives: 0.125 lbs/sks Poly-R-Flake

Quantity (sks): 320

Yield (cu.ff./sk): 1.33

Density: 14.8

Volume (cu.ft.): 426

Percent Excess: 30

Casing String Type: PRODUCTION

Stage Tool Depth:

Lead

Top MD of Segment: 4000

Bottom MD Segment: 10350

Cement Type: Tuned

Additives: N/A

Quantity (sks): 614

Yield (cu.ff./sk): 3.27

Density: 9

Volume (cu.ft.): 2005

Percent Excess: 25

Tail

Top MD of Segment: 10350

Bottom MD Segment: 17758

Cement Type: H

Additives: Poz (Fly Ash) + 0.5% bwoc
HALAD-344 + 0.4% bwoc CFR-3 +
0.2% BWOC HR-601 + 2% bwoc
Bentonite

Quantity (sks): 1950

Yield (cu.ff./sk): 1.2

Density: 14.5

Volume (cu.ft.): 2339

Percent Excess: 25

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: ARABIAN 30-19 FED COM

Well Number: 3H

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

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

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

Circulating Medium Table

Top Depth: 0	Bottom Depth: 1000
Mud Type: WATER-BASED MUD	
Min Weight (lbs./gal.): 8.5	Max Weight (lbs./gal.): 9
Density (lbs/cu.ft.):	Gel Strength (lbs/100 sq.ft.):
PH:	Viscosity (CP): 2
Filtration (cc):	Salinity (ppm):
Additional Characteristics:	
Top Depth: 4225	Bottom Depth: 17758
Mud Type: WATER-BASED MUD	
Min Weight (lbs./gal.): 8.5	Max Weight (lbs./gal.): 9.3
Density (lbs/cu.ft.):	Gel Strength (lbs/100 sq.ft.):
PH:	Viscosity (CP): 12
Filtration (cc):	Salinity (ppm):
Additional Characteristics:	

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: ARABIAN 30-19 FED COM

Well Number: 3H

Top Depth: 1000

Bottom Depth: 4225

Mud Type: SALT SATURATED

Min Weight (lbs./gal.): 10

Max Weight (lbs./gal.): 11

Density (lbs/cu.ft.):

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

PH:

Viscosity (CP): 2

Filtration (cc):

Salinity (ppm):

Additional Characteristics:

Section 6 - Test, Logging, Coring

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

Will run GR from TD to Delaware (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,MWD,MUDLOG

Coring operation description for the well:

N/A

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 4725

Anticipated Surface Pressure: 2427.98

Anticipated Bottom Hole Temperature(F): 165

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:

Arabian 30-19 Fed Com 3H_H2S Plan_10-19-2016.pdf

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: ARABIAN 30-19 FED COM

Well Number: 3H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Arabian 30-19 Fed Com 3H_Dir Plan_10-19-2016.pdf

Other proposed operations facets description:

Multi-bowl Verbiage
Multi-bowl Wellhead
Closed Loop Design Plan
Production Cement Contingency

Other proposed operations facets attachment:

Arabian 30-19 Fed Com 3H_MB Verb 3M_10-19-2016.pdf
Arabian 30-19 Fed Com 3H_MB Wellhd_10-19-2016.pdf
Arabian 30-19 Fed Com 3H_Clsd Loop_10-19-2016.pdf
Arabian 30-19 Fed Com 3H_ProdCmtContg_11-17-2016.pdf

Other Variance attachment:

Arabian 30-19 Fed Com 3H_Co-flex_10-19-2016.pdf

APD ID: 10400006919

Submission Date: 10/24/2016

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: ARABIAN 30-19 FED COM

Well Number: 3H

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

Arabian 30-19 Fed Com 3H_Ex AccessRd_10-19-2016.pdf

Existing Road Purpose: ACCESS,FLUID TRANSPORT

Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? YES

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

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

Arabian 30-19 Fed Com 3H_Access Rd_10-19-2016.pdf

New road type: COLLECTOR,RESOURCE

Length: 41

Feet

Width (ft.): 16

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? YES

New road access plan attachment:

Arabian 30-19 Fed Com 3H_Access Rd_10-20-2016.pdf

Access road engineering design? NO

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: ARABIAN 30-19 FED COM

Well Number: 3H

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: 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:

Arabian 30-19 Fed Com 3H_1Mile Map_10-20-2016.pdf

Existing Wells description:

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

Submit or defer a Proposed Production Facilities plan? DEFER

Estimated Production Facilities description: All flowlines will be buried going to the CDU 29-30 BS CTB.

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: ARABIAN 30-19 FED COM

Well Number: 3H

Section 5 - Location and Types of Water Supply

Water Source Table

Water source use type: STIMULATION

Water source type: RECYCLED

Describe type:

Source latitude:

Source longitude:

Source datum:

Water source permit type: OTHER

Source land ownership: FEDERAL

Water source transport method: PIPELINE,TRUCKING

Source transportation land ownership: FEDERAL

Water source volume (barrels): 202500

Source volume (acre-feet): 26.100851

Source volume (gal): 8505000

Water source and transportation map:

Arabian 30-19 Fed Com 3H_WtrXfrMaprev_11-17-2016.pdf

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

New water well? NO

New Water Well Info

Well latitude:

Well Longitude:

Well datum:

Well target aquifer:

Est. depth to top of aquifer(ft):

Est thickness of aquifer:

Aquifer comments:

Aquifer documentation:

Well depth (ft):

Well casing type:

Well casing outside diameter (in.):

Well casing inside diameter (in.):

New water well casing?

Used casing source:

Drilling method:

Drill material:

Grout material:

Grout depth:

Casing length (ft.):

Casing top depth (ft.):

Well Production type:

Completion Method:

Water well additional information:

State appropriation permit:

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: ARABIAN 30-19 FED COM

Well Number: 3H

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:

Arabian 30-19 Fed Com 3H_Caliche Pit_12-20-2016.pdf

Section 7 - Methods for Handling Waste

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: N/A

Safe containmant attachment:

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

Disposal type description:

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

Waste type: COMPLETIONS/STIMULATION

Waste content description: Flow back water during completion operations.

Amount of waste: 3000 barrels

Waste disposal frequency : One Time Only

Safe containment description: 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: FLOWBACK

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

Amount of waste: 1500 barrels

Waste disposal frequency : Daily

Safe containment description: N.A

Safe containmant attachment:

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: ARABIAN 30-19 FED COM

Well Number: 3H

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

Disposal type description:

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

Waste type: DRILLING

Waste content description: Water Based Cuttings

Amount of waste: 1810 barrels

Waste disposal frequency : Daily

Safe containment description: N/A

Safe containmant attachment:

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

Disposal type description:

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

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit?

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

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

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

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? NO

Description of cuttings location

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

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

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

WCuttings area liner

Cuttings area liner specifications and installation description

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: ARABIAN 30-19 FED COM

Well Number: 3H

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: NO

Ancillary Facilities attachment:

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

Arabian 30-19 Fed Com 3H_Rig Layout_10-20-2016.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: NEW

Recontouring attachment:

Arabian 30-19 Fed Com 3H_Reclamation_10-20-2016.pdf

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

Drainage/Erosion control reclamation: 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): 1.888

Wellpad short term disturbance (acres): 4.157

Access road long term disturbance (acres): 0.015

Access road short term disturbance (acres): 0.015

Pipeline long term disturbance (acres): 1.9493871

Pipeline short term disturbance (acres): 3.2489784

Other long term disturbance (acres): 0

Other short term disturbance (acres): 0

Total long term disturbance: 3.852387

Total short term disturbance: 7.4209785

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.

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: ARABIAN 30-19 FED COM

Well Number: 3H

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
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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

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: ARABIAN 30-19 FED COM

Well Number: 3H

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:

Disturbance type: EXISTING ACCESS ROAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: ARABIAN 30-19 FED COM

Well Number: 3H

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: ARABIAN 30-19 FED COM

Well Number: 3H

Disturbance type: PIPELINE

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Section 12 - Other Information

Right of Way needed? NO

Use APD as ROW?

ROW Type(s):

ROW Applications

SUPO Additional Information: CTB Survey Flowline Survey Electric Survey

Use a previously conducted onsite? NO

Previous Onsite information:

Other SUPO Attachment

Arabian 30-19 Fed Com 3H_CTB_10-20-2016.pdf

Arabian 30-19 Fed Com 3H_Flowline_10-20-2016.pdf

Arabian 30-19 Fed Com 3H_Electric_10-20-2016.PDF

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:

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:

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:

Assigned injection well API number?

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection attachment:

Underground Injection Control (UIC) Permit?

UIC Permit attachment:

Injection well name:

Injection well API number:

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:



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

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: