

OKLAHOMA CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
P.O. BOX 52000
OKLAHOMA CITY, OK 73152-2000
(Rule 165:10-3-1)

API NUMBER: 017 25509

Approval Date: 08/21/2019

Expiration Date: 02/21/2021

Horizontal Hole
Oil & Gas
Multi Unit

PERMIT TO DRILL

WELL LOCATION: Sec: 23 Twp: 13N Rge: 9W County: CANADIAN
SPOT LOCATION: FEET FROM QUARTER: FROM SOUTH FROM EAST
SECTION LINES: 330 1940

Lease Name: JACOBS 23_14-13N-9W Well No: 8HX Well will be 330 feet from nearest unit or lease boundary.

Operator Name: DEVON ENERGY PRODUCTION CO LP

Telephone: 4052353611; 4052353

OTC/OCC Number: 20751 0

DEVON ENERGY PRODUCTION CO LP
333 W SHERIDAN AVE
OKLAHOMA CITY, OK 73102-5015

LARRY AND KATHERINE M. MILLER
14523 W. ELM STREET
CALUMET OK 73014

Formation(s) (Permit Valid for Listed Formations Only):

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	8883	6	
2	WOODFORD	10442	7	
3			8	
4			9	
5			10	

Spacing Orders: 567641
560605

Location Exception Orders:

Increased Density Orders: 700522
700524

Pending CD Numbers: 201903455
201903464
201903844

Special Orders:

Total Depth: 21988

Ground Elevation: 1410

Surface Casing: 1999

Depth to base of Treatable Water-Bearing FM: 210

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: Yes

PIT 1 INFORMATION

Approved Method for disposal of Drilling Fluids:

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: WATER BASED

Chlorides Max: 8000 Average: 5000

Is depth to top of ground water greater than 10ft below base of pit? Y

Within 1 mile of municipal water well? N

Wellhead Protection Area? N

Pit is not located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is NON HSA

Pit Location Formation: DOG CREEK

D. One time land application -- (REQUIRES PERMIT)
H. SEE MEMO

PERMIT NO: 19-36817

This permit does not address the right of entry or settlement of surface damages.

The duration of this permit is SIX MONTHS, except as otherwise provided by Rule 165: 10-3-1.

Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation Division as to when Surface Casing will be run.

PIT 2 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: OIL BASED

Chlorides Max: 300000 Average: 200000

Is depth to top of ground water greater than 10ft below base of pit? Y

Within 1 mile of municipal water well? N

Wellhead Protection Area? N

Pit is not located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is NON HSA

Pit Location Formation: DOG CREEK

HORIZONTAL HOLE 1

Sec 14 Twp 13N Rge 9W County CANADIAN

Spot Location of End Point: NW NE NW NE

Feet From: NORTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 1680

Depth of Deviation: 10100

Radius of Turn: 477

Direction: 1

Total Length: 9728

Measured Total Depth: 20578

True Vertical Depth: 10578

End Point Location from Lease,
Unit, or Property Line: 50

Notes:

Category

Description

DEEP SURFACE CASING

8/15/2019 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING

HYDRAULIC FRACTURING

8/15/2019 - G71 - OCC 165:10-3-10 REQUIRES:

1) PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE;

2) WITH NOTICE ALSO GIVEN 48 HOURS IN ADVANCE OF HYDRAULIC FRACTURING ALL WELLS TO BOTH THE OCC CENTRAL OFFICE AND LOCAL DISTRICT OFFICES, USING THE "FRAC NOTICE FORM" FOUND AT THE FOLLOWING LINK: OCCEWEB.COM/OG/OGFORMS.HTML; AND,

3) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS TO BE REPORTED TO FRACFOCUS WITHIN 60 DAYS AFTER THE CONCLUSION THE HYDRAULIC FRACTURING OPERATIONS, USING THE FOLLOWING LINK: FRACFOCUS.ORG

INCREASED DENSITY - 700522

8/19/2019 - GC2 - 14-13N-9W
X567641 WDFD
9 WELLS
DEVON ENERGY PRODUCTION COMPANY, L.P.
8-8-2019

INCREASED DENSITY - 700524

8/19/2019 - GC2 - 23-13N-9W
X560605 WDFD
9 WELLS
DEVON ENERGY PRODUCTION COMPANY, L.P.
8-8-2019

This permit does not address the right of entry or settlement of surface damages.

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Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation Division as to when Surface Casing will be run.

017 25509 JACOBS 23_14-13N-9W 8HX

Category	Description
MEMO	8/15/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
PENDING CD - 201903455	8/19/2019 - GC2 - (I.O.) 14 & 23-13N-9W EST MULTIUNIT HORIZONTAL WELL X567641 MSSP, WDFD 14-13N-9W X560605 MSSP, WDFD 23-13N-9W (MSSP ASSOCIATED COMMON SOURCE OF SUPPLY TO WDFD) 50% 14-13N-9W 50% 23-13N-9W DEVON ENERGY PRODUCTION COMPANY, L.P. REC 7-23-2019 (P. PORTER)
PENDING CD - 201903464	8/19/2019 - GC2 - (I.O.) 14 & 23-13N-9W X567641 MSSP, WDFD 14-13N-9W X560605 MSSP, WDFD 23-13N-9W COMPL. INT. (23-13N-9W) NCT 165' FSL, NCT 0' FNL, NCT 1,320' FEL COMPL. INT. (14-13N-9W) NCT 0' FSL, NCT 165' FNL, NCT 1,320' FEL DEVON ENERGY PRODUCTION COMPANY, L.P. REC. 7-23-2019 (P. PORTER)
PENDING CD - 201903844	8/19/2019 - GC2 - (I.O.) 14 & 23-13N-9W X165:10-3-28(C)(2)(B) WDFD (JACOBS 23_14-13N-9W 8HX) MAY BE CLOSER THAN 600' TO JACOBS 23_14-13N-9W 7HX & JACOBS 23_14-13N-9W 9HX NO OP. NAMED REC 8-12-2019 (THOMAS)
SPACING - 560605	8/19/2019 - GC2 - (640) 23-13N-9W EXT OTHER EXT 205440 WDFD EST MSSP, OTHERS VAC 279098 MSSLM, MSCST, OTHERS
SPACING - 567641	8/19/2019 - GC2 - (640) 14-13N-9W EXT 562163 MSSP, WDFD, OTHERS VAC 260871 MSCST, MSSLM, OTHERS EXT OTHERS

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