

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: W2 SE SW SE 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 Location Exception Orders: Increased Density Orders: 700522  
560605 700524

Pending CD Numbers: 201903455 Special Orders:  
201903464  
201903844

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

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

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 19-36817  
H. SEE MEMO

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](http://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](http://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.  
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.

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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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.

API: 017-25509



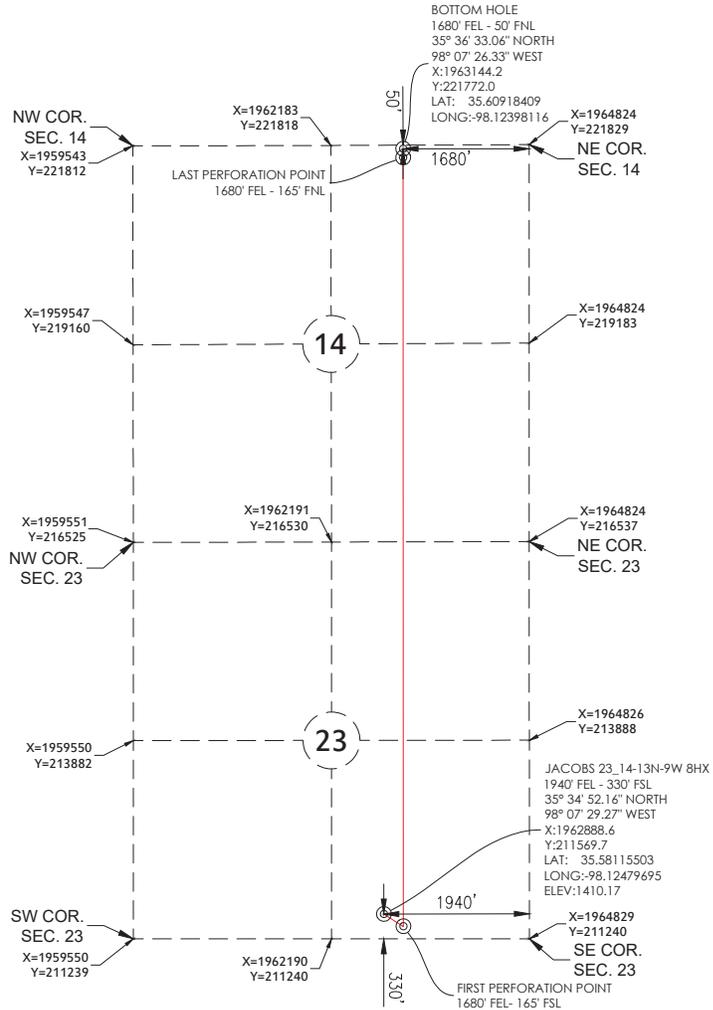
OPERATOR: DEVON ENERGY PRODUCTION COMPANY, L.P.

LEASE NAME: JACOBS 23\_14-13N-9W  
 WELL NO. 8HX  
 GOOD DRILL SITE: YES  
 CANADIAN COUNTY, STATE: OK  
 GROUND ELEVATION: 410.17' GR. AT STAKE  
 SURFACE HOLE FOOTAGE: 1940' FEL - 330' FSL  
 SECTION: 23 TOWNSHIP: T13N RANGE: R9W  
 BOTTOM HOLE: 14-T13N-R9W, I.M.  
 ACCESSIBILITY TO LOCATION: FROM SOUTH LINE  
 TOPOGRAPHY & VEGETATION:  
 LOCATION FELL IN A FIELD

DISTANCE & DIRECTION FROM HWY JCT OR TOWN:  
 FROM THE INTERSECTION OF HWY 270 & 122ND ST IN  
 CALUMET, GO S 1.0 MI. TO DARRINGTON RD NW, THEN GO  
 0.3 MI. W. LEASE RD IS ON THE N SIDE OF RD

PLEASE NOTE THAT THIS LOCATION WAS STAKED ON THE GROUND UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL LAND SURVEYOR, BUT ACCURACY OF THIS EXHIBIT IS NOT GUARANTEED. PLEASE CONTACT CRAFTON TULL PROMPTLY IF ANY INCONSISTENCY IS DETERMINED. GPS DATA IS OBSERVED FROM RTK-GPS. NOTE X AND Y DATA SHOWN HEREON FOR SECTION CORNERS MAY NOT HAVE BEEN SURVEYED ON THE GROUND, AND FURTHER, DOES NOT REPRESENT A TRUE BOUNDARY SURVEY. QUARTER SECTION DISTANCES MAY BE ASSUMED FROM A GOVERNMENT SURVEY PLAT OR ASSUMED AT A PROPORTIONATE DISTANCE FROM OPPOSING SECTION CORNERS, OR OCCUPATION THEREOF, AND MAY NOT HAVE BEEN MEASURED ON THE GROUND, AND FURTHER, DOES NOT REPRESENT A TRUE BOUNDARY SURVEY.

CANADIAN COUNTY, OKLAHOMA  
 1940' FEL - 330' FSL SECTION 23 TOWNSHIP 13N RANGE 9W I.M.



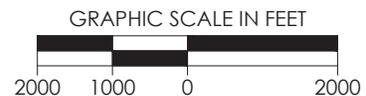
**SURFACE HOLE DATA**  
 STATE PLANE COORDINATES:  
 ZONE: OK-NORTH NAD27  
 X: 1962888.6  
 Y: 211569.7  
 GPS DATUM: NAD27  
 LAT: 35.58115503  
 LONG: -98.12479695

STATE PLANE COORDINATES:  
 ZONE: OK-NORTH NAD83  
 X: 1931290.4  
 Y: 211593.5  
 GPS DATUM: NAD83  
 LAT: 35.58120475  
 LONG: -98.12513004

**BOTTOM HOLE DATA**  
 STATE PLANE COORDINATES:  
 ZONE: OK-NORTH NAD27  
 X: 1963144.2  
 Y: 221772.0  
 GPS DATUM: NAD27  
 LAT: 35.60918409  
 LONG: -98.12398116

STATE PLANE COORDINATES:  
 ZONE: OK-NORTH NAD83  
 X: 1931545.8  
 Y: 221795.9  
 GPS DATUM: NAD83  
 LAT: 35.60923308  
 LONG: -98.12431530

BOTTOM HOLE INFORMATION PROVIDED BY OPERATOR LISTED.



REVISION		"JACOBS 23_14-13N-9W 8HX"		
R1	REMOVE 7HX & MOVE PAD IN 30'	PART OF THE SE/4 OF SECTION 23, T-13-N, R-9-W PROPOSED DRILL SITE CANADIAN COUNTY, OKLAHOMA		
SCALE: 1" = 2000'		PLOT DATE: 06-20-2019		JJ SHEET NO.: 1 OF 6
		DRAWN BY:		