

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

API NUMBER: 073 26478

Approval Date: 03/13/2019

Expiration Date: 09/13/2020

Horizontal Hole
Oil & Gas
Multi Unit

PERMIT TO DRILL

WELL LOCATION: Sec: 18 Twp: 16N Rge: 9W County: KINGFISHER

SPOT LOCATION: FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 290 900

Lease Name: CHISHOLM TRAIL 18_19-16N-9W Well No: 4HX Well will be 290 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

PAMELA J CHAIN, TRUSTEE
13500 PRINCETON LANE
EDMOND OK 73013

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	8495	6	
2	WOODFORD	9827	7	
3			8	
4			9	
5			10	

Spacing Orders: 645633

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201900841
201900840
201900855
201900854

Special Orders:

Total Depth: 19502

Ground Elevation: 1202

Surface Casing: 1999

Depth to base of Treatable Water-Bearing FM: 510

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: CHICKASHA

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

PERMIT NO: 19-36185

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: CHICKASHA

HORIZONTAL HOLE 1

Sec 19 Twp 16N Rge 9W County KINGFISHER

Spot Location of End Point: SW SE SE SW

Feet From: SOUTH 1/4 Section Line: 50

Feet From: WEST 1/4 Section Line: 2188

Depth of Deviation: 8954

Radius of Turn: 477

Direction: 173

Total Length: 9798

Measured Total Depth: 19502

True Vertical Depth: 9827

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

Notes:

Category

Description

DEEP SURFACE CASING

2/11/2019 - 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

2/11/2019 - 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

INTERMEDIATE CASING

2/11/2019 - G71 - DUE TO THE KNOWN POTENTIAL RISK OF ENCOUNTERING AN OVER-PRESSURED ZONE IN THE MORROW SERIES IN THIS AREA, THE TECHNICAL MANAGER RECOMMENDS SETTING AN INTERMEDIATE STRING OF CASING IMMEDIATELY ABOVE THE MORROW SERIES

MEMO

2/11/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

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.

073 26478 CHISHOLM TRAIL 18_19-16N-9W
4HX

Category	Description
PENDING CD - 201900840	3/8/2019 - G56 - (I.O.) 18 & 19-16N-9W ESTABLISH MULTIUNIT HORIZONTAL WELL X645633 MSSP, WDFD (WDFD IS AN ADJACENT COMMON SOURCE OF SUPPLY TO MSSP) 50% 18-16N-9W 50% 19-16N-9W DEVON ENERGY PROD. CO., L.P. REC 2/26/2019 (MINMIER)
PENDING CD - 201900841	3/8/2019 - G56 - (I.O.) 18 & 19-16N-9W X645633 MSSP, WDFD X165_10-3-28(C)(2)(B) MSSP MAY BE CLOSER THAN 600' TO W.J. GOODEN 1, KERR 19-2 WELLS COMPL INT (18-16N-9W) NCT 165' FNL, NCT 0' FSL, NCT 1650' FWL COMPL INT (19-16N-9W) NCT 0' FNL, NCT 165' FSL, NCT 1650' FWL DEVON ENERGY PROD. CO., L.P. REC 2/26/2019 (MINMIER)
PENDING CD - 201900854	3/8/2019 - G56 - 19-16N-9W X645633 MSSP 6 WELLS DEVON ENERGY PROD. CO., L.P. REC 2/26/2019 (P. PORTER)
PENDING CD - 201900855	3/8/2019 - G56 - 18-16N-9W X645633 MSSP 6 WELLS DEVON ENERGY PROD. CO., L.P. REC 2/26/2019 (MINMIER)
SPACING - 645633	3/8/2019 - G56 - (640)(HOR) 18 & 19-16N-9W VAC 96892 MNNG SW4 VAC 245726 MNNG SW4 EXT 637157 MSSP, WDFD, OTHER COMPL INT (MSSP) NCT 660' FB COMPL INT (WDFD) NCT 165' FNL & FSL, NCT 330' FEL & FWL (COEXIST WITH SP # 96892 MNNG N2, SE4 18-16N-9W; # 96892 MSCST, MSSSD 18-16N-9W; # 245726/245964 MNNG NE4, SE4 19-16N-9W; # 232014 MNNG NW4 19-16N-9W; # 168134/169097 MSSSD 19-16N-9W; # 245726/245964 CSTRU NE, S2 19-16N-9W; # 232014 CSTRU NW4 19-16N- 9W)

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.



OPERATOR: DEVON ENERGY PRODUCTION COMPANY, L.P.

LEASE NAME: CHISHOLM TRAIL 18_19-16N-9W

WELL NO. 4HX

GOOD DRILL SITE: YES

KINGFISHER COUNTY, STATE: OK

GROUND ELEVATION: 1202.08' GR. AT STAKE

SURFACE HOLE FOOTAGE: 900' FWL - 290' FNL

SECTION: 18 TOWNSHIP: 16N RANGE: 9W

BOTTOM HOLE: 19-T16N-R9W I.M.

ACCESSIBILITY TO LOCATION: FROM NORTH LINE

TOPOGRAPHY & VEGETATION:
LOCATION FELL IN A FIELD

DISTANCE & DIRECTION FROM HWY JCT OR TOWN:

AT JCT. OF E0790 RD & N2695 RD IN OMEGA.

GO W. ALONG E0790 RD 0.25 MI. PAD IS ON S. 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.



SURFACE HOLE DATA
STATE PLANE COORDINATES:

ZONE: OK-NORTH NAD27

X: 1939687.9

Y: 316445.6

GPS DATUM: NAD27

LAT: 35.86916499

LONG: -98.20355469

STATE PLANE COORDINATES:

ZONE: OK-NORTH NAD83

X: 1908088.0

Y: 316469.3

GPS DATUM: NAD83

LAT: 35.86920653

LONG: -98.20389658

BOTTOM HOLE DATA
STATE PLANE COORDINATES:

ZONE: OK-NORTH NAD27

X: 1940953.6

Y: 306249.1

GPS DATUM: NAD27

LAT: 35.84116022

LONG: -98.19921233

STATE PLANE COORDINATES:

ZONE: OK-NORTH NAD83

X: 1909353.8

Y: 306272.7

GPS DATUM: NAD83

LAT: 35.84120247

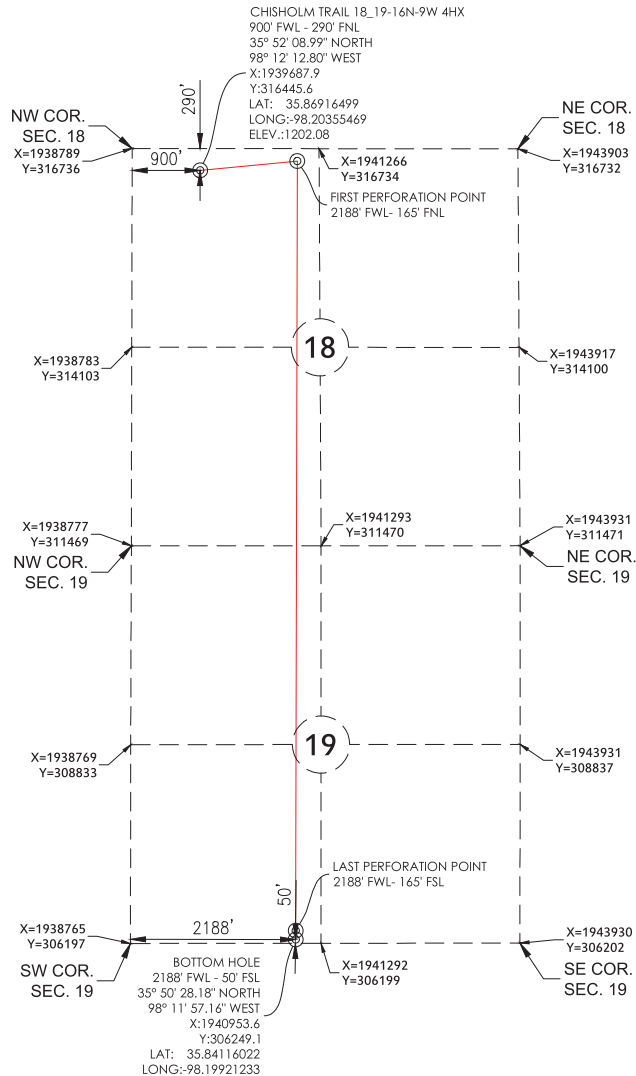
LONG: -98.19955358

BOTTOM HOLE
INFORMATION PROVIDED
BY OPERATOR LISTED.

Date: 2019.01.08 12:15:15-06'00'




KINGFISHER COUNTY, OKLAHOMA
900' FWL - 290' FNL SECTION 18 TOWNSHIP 16N RANGE 9W I.M.



GRAPHIC SCALE IN FEET



REVISION		"CHISHOLM TRAIL 18_19-16N-9W 4HX"		
		PART OF THE NW/4 OF SECTION 18, T-16-N, R-9-W PROPOSED DRILL SITE KINGFISHER COUNTY, OKLAHOMA		
		SCALE: 1" = 2000'		
		PLOT DATE: 01-08-2019	DRAWN BY: JJ	SHEET NO.: 1 OF 6