

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

API NUMBER: 073 25458

Approval Date: 12/08/2016
Expiration Date: 06/08/2017

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 26 Twp: 15N Rge: 9W County: KINGFISHER
SPOT LOCATION: SE SE SE SE FEET FROM QUARTER: FROM SOUTH FROM EAST
SECTION LINES: 253 246

Lease Name: BRACHIOSAURUS 26_23-15N-9W Well No: 1HX Well will be 246 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 73102-5010

JON AND JUDITH SHAPIRO TRUST
10713 S MAPLE HILL CIRCLE
SANDY UT 84092

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

Name	Depth	Name	Depth
1 MISS'AN (EX CHESTER)	9641	6	
2 WOODFORD	10240	7	
3 HUNTON	10329	8	
4		9	
5		10	

Spacing Orders: 642657

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201605192
201605193
201605194

Special Orders:

Total Depth: 19941 Ground Elevation: 1221 **Surface Casing: 1999** Depth to base of Treatable Water-Bearing FM: 400

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: 4000

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

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 16-31852
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: CHICKASHA

HORIZONTAL HOLE 1

Sec 23 Twp 15N Rge 9W County KINGFISHER

Spot Location of End Point: NW NE NE NE

Feet From: NORTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 350

Depth of Deviation: 9413

Radius of Turn: 478

Direction: 360

Total Length: 9778

Measured Total Depth: 19941

True Vertical Depth: 10329

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

Notes:

Category

Description

COMPLETION INTERVAL

12/8/2016 - G64 - WILL BE GREATER THAN 165' FSL, 330' FEL 26-15N-9W & 165' FNL, 330' FEL 23-15N-9W PER OPERATOR

DEEP SURFACE CASING

11/21/2016 - 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

11/21/2016 - G71 - OCC 165:10-3-10 REQUIRES: 1) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS BE REPORTED TO FRACFOCUS USING THE FOLLOWING LINK [HTTP://FRACFOCUS.ORG/](http://fracfocus.org/) WITH NOTICE GIVEN 48 HOURS IN ADVANCE OF FRACTURING TO THE LOCAL OCC DISTRICT OFFICE; AND, 2) PRIOR TO COMMENCEMENT OF FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE ALSO GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE.

MEMO

11/21/2016 - 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

11/21/2016 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201605192

11/22/2016 - G64 - (640)(HOR) 26-15N-9W
VAC 472385 WDFD
EXT 642657 MSNLC, WDFD, HNTN
(COEXIST 166936 MSSSD, HNTN)
REC. 12-7-2016 (P. PORTER)

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
PENDING CD - 201605193	12/7/2016 - G64 - 23 & 26-15N-9W EST MULTIUNIT HORIZONTAL WELL X642657 MSNLC, WDFD, HNTN 23-15N-9W X201605192 MSNLC, WDFD, HNTN 26-15N-9W (WDFD & HNTN ASSOCIATED COMMON SOURCES OF SUPPLY TO MSNLC) 50% 26-15N-9W 50% 23-15N-9W NO OP. NAMED REC. 12-7-2016 (P. PORTER)
PENDING CD - 201605194	12/7/2016 - G64 - (I.O.) 23 & 26-15N-9W X642657 MSNLC, WDFD, HNTN 23-15N-9W X201605192 MSNLC, WDFD, HNTN 26-15N-9W COMPL. INT. (26-15N-9W) NCT 165' FSL, NCT 0' FNL, NCT 330' FEL COMPL. INT. (23-15N-9W) NCT 0' FSL, NCT 165' FNL, NCT 330' FEL NO OP. NAMED REC. 12-7-2016 (P. PORTER)
SPACING - 642657	11/22/2016 - G64 - (640)(HOR) 23-15N-9W EST MSNLC, HNTN EXT 633506 WDFD POE TO BHL (MSNLC, HNTN) NCT 660' FB POE TO BHL (WDFD) NCT 165' FNL & FSL, NCT 330' FEL & FWL

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