

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

API NUMBER: 017 25045 A

Approval Date: 07/19/2017  
Expiration Date: 01/19/2018

Horizontal Hole Oil & Gas

Amend reason: ADD FORMATION; UPDATE ORDERS

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 03 Twp: 13N Rge: 8W County: CANADIAN  
SPOT LOCATION: SW NW NE NE FEET FROM QUARTER: FROM NORTH FROM EAST  
SECTION LINES: 375 1100

Lease Name: HAMMERHEAD 34\_27-14N-8W Well No: 1HX Well will be 375 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

KENNETH MEYER & MARILYN MEYER  
801 ASHLAND DR.  
EL RENO OK 73036

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	9860	6	
2 WOODFORD	10400	7	
3		8	
4		9	
5		10	

Spacing Orders: 557468  
590196  
667173

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201703212  
201703210  
201703213  
201706716

Special Orders:

Total Depth: 21160

Ground Elevation: 1403

Surface Casing: 1999

Depth to base of Treatable Water-Bearing FM: 290

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: 5000 Average: 3000

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: 17-32548

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 27 Twp 14N Rge 8W County CANADIAN

Spot Location of End Point: NW NE NE NE

Feet From: NORTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 380

Depth of Deviation: 9365

Radius of Turn: 900

Direction: 5

Total Length: 10381

Measured Total Depth: 21160

True Vertical Depth: 10432

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

Notes:

Category

Description

DEEP SURFACE CASING

7/14/2017 - G58 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY FOR ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON CONDUCTOR OR SURFACE CASING

HYDRAULIC FRACTURING

7/14/2017 - 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)

MEMO

7/14/2017 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 2 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT

PENDING CD - 201703210

7/18/2017 - G75 - (640)(HOR) 27-14N-8W  
EXT 658121 MSSP  
POE TO BHL NCT 660' FB  
(COEXIST SP. ORDER # 134577 MCSTR & ORDER # 153608 MSSLM)  
REC 6-6-2017 (DUNN)

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 - 201703212	10/17/2017 - G75 - (I.O.) 34 & 27-14N-8W EST MULTIUNIT HORIZONTAL WELL X590196 WDFD 34-14N-8W X667173 MSSP 34-14N-8W X557468 WDFD 27-14N-8W X201703210 MSSP 27-14N-8W (WDFD ASSOCIATED COMMON SOURCE OF SUPPLY TO MSSP) 50% 34-14N-8W 50% 27-14N-8W DEVON ENERGY PROD. CO., L.P. REC 6-6-2017 (DUNN)
PENDING CD - 201703213	10/17/2017 - G75 - (I.O.) 34 & 27-14N-8W X590196 WDFD 34-14N-8W X667173 MSSP 34-14N-8W X557468 WDFD 27-14N-8W X201703210 MSSP 27-14N-8W COMPL. INT. (34-14N-8W) NCT 165' FSL, NCT 0' FNL, NCT 330' FEL COMPL. INT. (27-14N-8W) NCT 0' FSL, NCT 165' FNL, NCT 330' FEL DEVON ENERGY PROD. CO., L.P. REC 7-11-2017 (THOMAS)
PENDING CD - 201706716	10/17/2017 - G75 - (E.O.) 34-14N-8W X590196 WDFD 1 WELL DEVON ENERGY PROD. CO., L.P. REC 10-17-2017 (THOMAS)
SPACING - 557468	10/17/2017 - G75 - (640) 27-14N-8W EST WDFD
SPACING - 590196	10/17/2017 - G75 - (640) 34-14N-8W VAC 146028 MCSTR, OTHERS VAC 210976 MSSLM EXT OTHERS EST MSSP (MSSP VAC BY 667173), WDFD OTHERS
SPACING - 667173	10/17/2017 - G75 - (640)(HOR) 34-14N-8W VAC 590196 MSSP EXT 658121 MSSP POE TO BHL NCT 660' FB

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.