

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

API NUMBER: 017 25030

Approval Date: 07/03/2017
Expiration Date: 01/03/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 33 Twp: 14N Rge: 8W County: CANADIAN
SPOT LOCATION: NE SE SE SE FEET FROM QUARTER: FROM SOUTH FROM EAST
SECTION LINES: 480 315

Lease Name: ERMA MAE 33_28-14N-8W Well No: 1HX Well will be 315 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

ELEANOR RENBARGER/STEVE RENBARGER
9706 NORTH AIRPORT ROAD
OKARCHE OK 73762

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

Name	Depth	Name	Depth
1 WOODFORD	10597	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 577788
579040

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201702066
201702069
201702068
201702067

Special Orders:

Total Depth: 20553

Ground Elevation: 1422

Surface Casing: 1999

Depth to base of Treatable Water-Bearing FM: 320

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 located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is AP/TE DEPOSIT

Pit Location Formation: TERRACE

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT)

PERMIT NO: 17-32493

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 located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is AP/TE DEPOSIT

Pit Location Formation: TERRACE

HORIZONTAL HOLE 1

Sec 28 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: 10248

Radius of Turn: 477

Direction: 359

Total Length: 9556

Measured Total Depth: 20553

True Vertical Depth: 10725

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

Notes:

Category

Description

DEEP SURFACE CASING

6/30/2017 - G71 - 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

6/30/2017 - 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

INTERMEDIATE CASING

6/30/2017 - 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

6/30/2017 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 2 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT

PENDING CD - 201702066

7/3/2017 - G75 - 33-14N-8W
X577788 WDFD
1 WELL
DEVON ENERGY PROD. CO., L.P.
REC 6-13-2017 (LORENZ)

PENDING CD - 201702067

7/3/2017 - G75 - 28-14N-8W
X579040 WDFD
1 WELL
DEVON ENERGY PROD. CO., L.P.
REC 6-13-2017 (LORENZ)

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 - 201702068	7/3/2017 - G75 - (I.O.) 33 & 28-14N-8W EST MULTIUNIT HORIZONTAL WELL XOTHERS X577788 WDFD 33-14N-8W X579040 WDFD 28-14N-8W 50% 33-14N-8W 50% 28-14N-8W DEVON ENERGY PROD. CO., L.P. REC 6-13-2017 (LORENZ)
PENDING CD - 201702069	7/3/2017 - G75 - (I.O.) 33 & 28-14N-8W XOTHERS X577788 WDFD 33-14N-8W X579040 WDFD 28-14N-8W COMPL. INT. (33-14N-8W) NCT 165' FSL, NCT 0' FNL, NCT 330' FEL COMPL. INT. (28-14N-8W) NCT 0' FSL, NCT 165' FNL, NCT 330' FEL DEVON ENERGY PROD. CO., L.P. REC 6-13-2017 (LORENZ)
SPACING - 577788	7/3/2017 - G75 - (640) 33-14N-8W EXT 557468 WDFD
SPACING - 579040	7/3/2017 - G75 - (640) 28-14N-8W EST WDFD

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