

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

API NUMBER: 011 24167

Approval Date: 01/29/2019
Expiration Date: 07/29/2020

Horizontal Hole Oil & Gas
Multi Unit

PERMIT TO DRILL

WELL LOCATION: Sec: 12 Twp: 15N Rge: 10W County: BLAINE
SPOT LOCATION: NE SW SE SW FEET FROM QUARTER: FROM SOUTH FROM WEST
SECTION LINES: 340 1750

Lease Name: MINNIE HAHA 12_1-15N-10W Well No: 4HX Well will be 340 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

ROBERT & KIM MCGRUDER, CO-TRUSTEES
P.O. BOX 704
MILTON FL 32572

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

| Name | Depth | Name | Depth |
|-----------------|-------|------|-------|
| 1 MISSISSIPPIAN | 9200 | 6 | |
| 2 WOODFORD | 10600 | 7 | |
| 3 | | 8 | |
| 4 | | 9 | |
| 5 | | 10 | |

Spacing Orders: 587191 Location Exception Orders: Increased Density Orders: 689878
594508 689879
586086

Pending CD Numbers: 201809640
201809641

Special Orders:

Total Depth: 20216 Ground Elevation: 1275 Surface Casing: 1999 Depth to base of Treatable Water-Bearing FM: 60

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: FLOWERPOT

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 18-35994
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: FLOWERPOT

HORIZONTAL HOLE 1

Sec 01 Twp 15N Rge 10W County BLAINE

Spot Location of End Point: NW NE NW NE

Feet From: NORTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 1700

Depth of Deviation: 9004

Radius of Turn: 573

Direction: 10

Total Length: 10312

Measured Total Depth: 20216

True Vertical Depth: 10600

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

Notes:

Category

Description

DEEP SURFACE CASING

12/21/2018 - 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

12/21/2018 - 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

INCREASED DENSITY - 689878

1/29/2019 - G75 - 12-15N-10W
X594508 MSSP
3 WELLS
NO OP. NAMED
1-16-2019

INCREASED DENSITY - 689879

1/29/2019 - G75 - 1-15N-10W
X587191 MSSP
3 WELLS
NO OP. NAMED
1-16-2019

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 |
|------------------------|---|
| INTERMEDIATE CASING | 12/21/2018 - 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 | 12/21/2018 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 2 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT |
| PENDING CD - 201809640 | 1/29/2019 - G75 - (I.O.) 12 & 1-15N-10W EST MULTIUNIT HORIZONTAL WELL X594508 MSSP, WDFD 12-15N-10W X587191 MSSP 1-15N-10W X586086 WDFD 1-15N-10W (WDFD ADJACENT COMMON SOURCE OF SUPPLY TO MSSP) 50% 12-15N-10W 50% 1-15N-10W DEVON ENERGY PROD. CO., L.P. REC 12-10-2018 (M. PORTER) |
| PENDING CD - 201809641 | 1/29/2019 - G75 - (I.O.) 12 & 1-15N-10W X594508 MSSP, WDFD 12-15N-10W X587191 MSSP 1-15N-10W X586086 WDFD 1-15N-10W COMPL. INT. (12-15N-10W) NCT 165' FSL, NCT 0' FNL, NCT 1320' FEL COMPL. INT. (1-15N-10W) NCT 0' FSL, NCT 165' FNL, NCT 1320' FEL DEVON ENERGY PROD. CO., L.P. REC 12-10-2018 (M. PORTER) |
| SPACING - 586086 | 1/29/2019 - G75 - (640) 1-15N-10W EST WDFD |
| SPACING - 587191 | 1/29/2019 - G75 - (640) 1-15N-10W VAC 176175 MNNG, MSSSD VAC 400763 CSTR EST MSSP |
| SPACING - 594508 | 1/29/2019 - G75 - (640) 12-15N-10W VAC 169866 CSTR VAC 176175 MNNG, MSSSD EST OTHERS EXT 587191 MSSP EXT 588547 WDFD |

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.



300 Pointe Parkway Blvd.
Yukon, OK 73099
405.787.6270 t 405.787.6276 f
www.craftontull.com

Crafton Tull
SURVEYING CA973(PE/LS) Exp. 6/30/20

OPERATOR: DEVON ENERGY PRODUCTION COMPANY, L.P.

LEASE NAME: MINNIE HAHA 12_1-15N-10W

WELL NO.: 4HX

GOOD DRILL SITE: YES

BLAINE COUNTY, STATE: OK

GROUND ELEVATION: 1275.45' GR. AT STAKE

SURFACE HOLE FOOTAGE: 1750' FWL - 340' FSL

SECTION: 12 TOWNSHIP: 15N RANGE: R10W

BOTTOM HOLE: 1-T15N-R10W.I.M.

ACCESSIBILITY TO LOCATION: FROM SOUTH LINE

TOPOGRAPHY & VEGETATION:

LOCATION: FELL IN A FIELD

DISTANCE & DIRECTION FROM HWY JCT OR TOWN:
AT THE JCT. OF HWY 8 & HWY E, E. 11 MI. TO N 2680 RD.
S. 4 MI. TO E 0850 RD. E. 1600 FEET. PAD IS ON N. SIDE OR ROAD.

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.

API 011-24167



GRID NORTH (NAD 27)
OKLAHOMA - NORTH ZONE

SURFACE HOLE DATA
STATE PLANE COORDINATES:
ZONE: OK-NORTH NAD27
X: 1935137.8
Y: 285479.9
GPS DATUM: NAD27
LAT: 35.78406839
LONG: -98.21867587

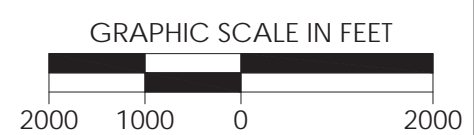
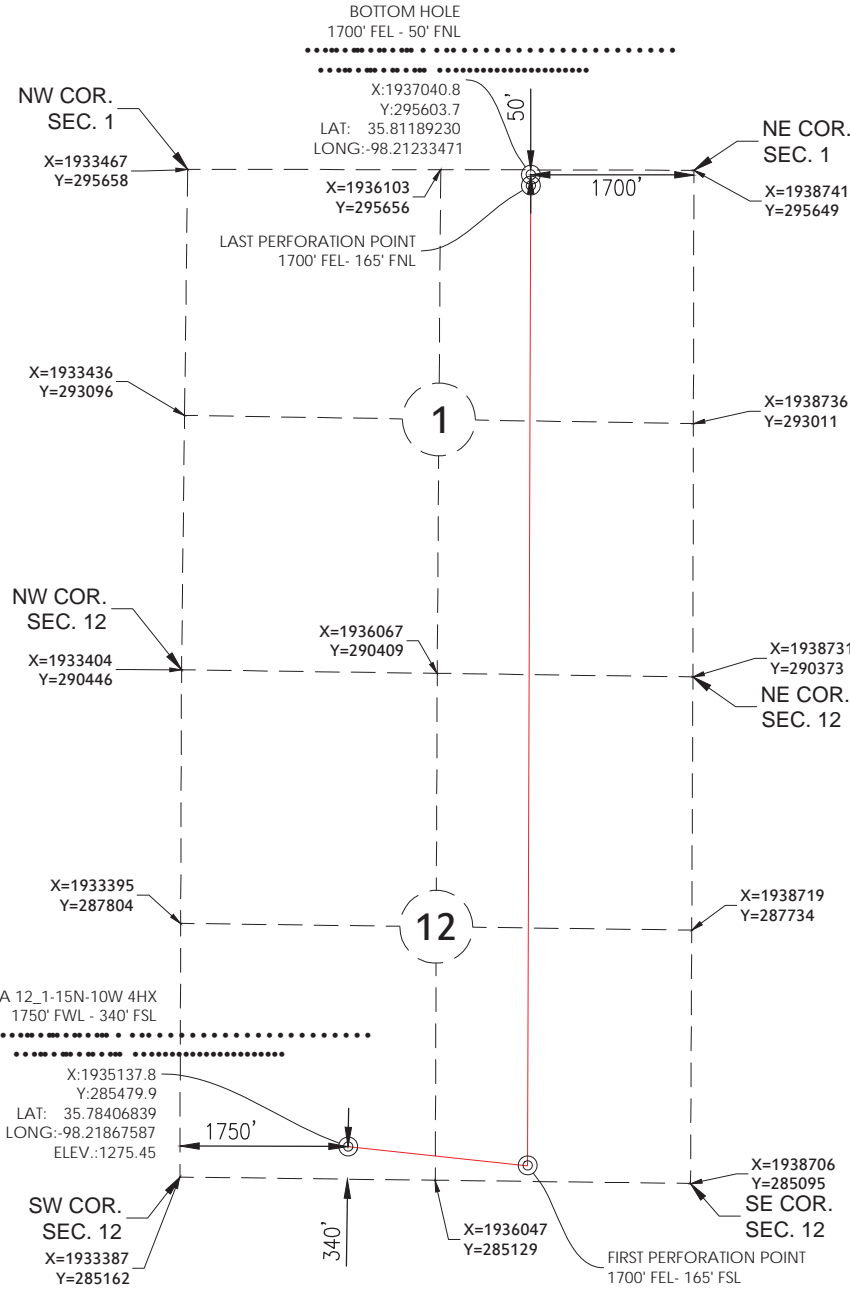
STATE PLANE COORDINATES:
ZONE: OK-NORTH NAD83
X: 1903538.3
Y: 285503.6
GPS DATUM: NAD83
LAT: 35.78411216
LONG: -98.21901644

BOTTOM HOLE DATA
STATE PLANE COORDINATES:
ZONE: OK-NORTH NAD27
X: 1937040.8
Y: 295603.7
GPS DATUM: NAD27
LAT: 35.81189230
LONG: -98.21233471

STATE PLANE COORDINATES:
ZONE: OK-NORTH NAD83
X: 1905441.3
Y: 295627.4
GPS DATUM: NAD83
LAT: 35.81193529
LONG: -98.21267561

BOTTOM HOLE INFORMATION PROVIDED BY OPERATOR LISTED.

Date: 2018.11.30 11:00:05-06'00"



| | | | |
|----------|--|-----------------------|--------------------------------|
| REVISION | "MINNIE HAHA 12_1-15N-10W 4HX" | | |
| | PART OF THE SW/4 OF SECTION 12, T-15-N, R-10-W PROPOSED DRILL SITE BLAINE COUNTY, OKLAHOMA | | |
| | SCALE: 1" = 2000' | PLOT DATE: 11-30-2018 | DRAWN BY: JJ SHEET NO.: 1 OF 6 |