

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

API NUMBER: 073 24822

Approval Date: 02/28/2013
Expiration Date: 08/28/2013

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 17 Twp: 15N Rge: 8W County: KINGFISHER
SPOT LOCATION: NE NW NE NE FEET FROM QUARTER: FROM NORTH FROM EAST
SECTION LINES: 285 700

Lease Name: BREDEL Well No: 1H-5X Well will be 285 feet from nearest unit or lease boundary.
Operator Name: NEWFIELD EXPL MIDCONTINENT INC Telephone: 9188781290 OTC/OCC Number: 20944 0

NEWFIELD EXPL MIDCONTINENT INC
1 WILLIAMS CTR STE 1900
TULSA, OK 74172-0162

EVELYN BREDEL
6791 E. 860 RD.
OKARCHE OK 73762

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	8968	6	
2 WOODFORD	9570	7	
3 HUNTON	9630	8	
4		9	
5		10	

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201208510
201208508
201208506
201208507

Special Orders:

Total Depth: 19350 Ground Elevation: 1145 Surface Casing: 1500 Depth to base of Treatable Water-Bearing FM: 280

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

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 13-22764

Chlorides Max: 5000 Average: 3000

H. SEE MEMO

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

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 05 Twp 15N Rge 8W County KINGFISHER

Spot Location of End Point: NE NW NE NE

Feet From: NORTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 700

Depth of Deviation: 8984

Radius of Turn: 740

Direction: 180

Total Length: 9900

Measured Total Depth: 19350

True Vertical Depth: 9724

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

Notes:

Category

Description

DEEP SURFACE CASING

2/28/2013 - G71 - APPROVED CONTINGENT ON NOTIFYING OCC FIELD STAFF IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING

INTERMEDIATE CASING

2/28/2013 - 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

2/28/2013 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, WBM & OBM CUTTINGS CAPTURED IN CONCRETE-LINED PIT, SOLIDIFIED, AND BURIED ON SITE; PIT 2 - OBM TO VENDOR

PENDING CD - 201208506

2/28/2013 - G30 - (640 HOR) 5 & 8-15N-8W
DEL 91355 MISS, MNNG, HNTN
EST MSSP, WDFD, HNTN
(COEXIST WITH PRODUCING NON-HORIZONTAL SPACING UNITS (ANN 1-5 E2 NW4 5, JUNG 1-8 W2 NW4 8, FOBES 1-8 W2 SW4 8) ; SUPERSEDE EXISTING NON-DEVELOPED NON-HORIZONTAL SPACING UNITS)
REC 2/5/13 (NORRIS)

PENDING CD - 201208507

2/28/2013 - G30 - 5 & 8-15N-8W
X201208506 MSSP, WDFD, HNTN
EST MULTIUNIT FOR HORIZONTAL WELL PER OCC 165:5-7-62
5-15N-8W (50%)
8-15N-8W (50%)
NO OP. NAMED
REC 2/5/13 (NORRIS)

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 - 201208508	2/28/2013 - G30 - 5-15N-8W X201208506 MSSP, WDFD, HNTN COMP. INT. NCT 0 FSL, NCT 165 FNL, NCT 660 FEL NO OP. NAMED REC 2/5/13 (NORRIS)
PENDING CD - 201208510	2/28/2013 - G30 - 8-15N-8W X201208506 MSSP, WDFD, HNTN SHL NCT 200 FNL, NCT 660 FEL 17-15N-8W COMP. INT. NCT 165 FSL, NCT 0 FNL, NCT 660 FEL NO OP. NAMED REC 2/5/13 (NORRIS)

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.