

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

API NUMBER: 137 26987

Approval Date: 01/03/2013
Expiration Date: 07/03/2013

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 21 Twp: 2N Rge: 4W County: STEPHENS
SPOT LOCATION: FEET FROM QUARTER: FROM SOUTH FROM WEST
SECTION LINES: 2440 1320

Lease Name: BRANCH Well No: 5H-16X Well will be 1320 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

DETRA ANN BRANCH AND JARRED D BRANCH
PO BOX 729
LINDSAY OK 73052

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	15052	6	
2 SYCAMORE	15214	7	
3 WOODFORD	15358	8	
4 HUNTON	15608	9	
5		10	

Spacing Orders: 592371 Location Exception Orders: 605990 Increased Density Orders: 605638
602383 605539
605703

Pending CD Numbers: 201206344
201206343
201206342
201206350

Special Orders:

Total Depth: 23157 Ground Elevation: 1164 Surface Casing: 1500 Depth to base of Treatable Water-Bearing FM: 570

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: 13-22279
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 16 Twp 2N Rge 4W County STEPHENS

Spot Location of End Point: N2 N2 N2 NW

Feet From: NORTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 1320

Depth of Deviation: 15141

Radius of Turn: 740

Direction: 180

Total Length: 7546

Measured Total Depth: 23157

True Vertical Depth: 15881

End Point Location from Lease,
Unit, or Property Line: 165

Additional Surface Owner	Address	City, State, Zip
THE POTEET FAMILY REVOCABLE L	P. O. BOX 729	LINDSAY, OK 73052

Notes:

Category	Description
DEEP SURFACE CASING	1/2/2013 - 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
EXCEPTION TO RULE - 605990	1/3/2013 - G30 - (I.O.) 16-2N-4W X165:10-3-28(C)(2)(B) WDFD (BRANCH 5H-16X) <600' FROM EXISTING AND/OR PROPOSED WELL NEWFIELD EXPLOR. MID-CONT., INC. 12-28-2012
INCREASED DENSITY - 605539	1/2/2013 - G30 - 21-2N-4W X602383 WDFD 5 WELLS NEWFIELD EXPLORATION MID-CONTINENT INC. 12/17/12
INCREASED DENSITY - 605638	1/2/2013 - G30 - 16-2N-4W X592371 WDFD 5 WELLS NEWFIELD EXPLORATION MID-CONTINENT INC. 12/18/12
MEMO	1/2/2013 - 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

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137 26987 BRANCH 5H-16X

Category	Description
PENDING CD - 201206342	1/2/2013 - G30 - 16 & 21-2N-4W X592371 SCMR, WDFD, HNTN 16-2N-4W X602383 MSSP, WDFD, HNTN 21-2N-4W EST MULTIUNIT FOR HORIZONTAL WELL PER OCC 165:5-7-6.2 16-2N-4W (66%) 21-2N-4W (34%) REC 12/3/12 (JOHNSON)
PENDING CD - 201206343	1/2/2013 - G30 - 21-2N-4W X602383 MSSP, WDFD, HNTN SHL NCT 1320 FSL, NCT 1320 FWL COMP. INT. NCT 0 FNL, NCT 1320 FSL, NCT 990 FWL NO OP. NAMED REC 12/3/12 (JOHNSON)
PENDING CD - 201206344	1/2/2013 - G30 - 16-2N-4W X592371 SCMR, WDFD, HNTN COMP. INT. NCT 0 FSL, NCT 165 FNL, NCT 990 FWL NO OP. NAMED REC 12/3/12 (JOHNSON)
PENDING CD - 201206350	1/3/2013 - G30 - 21-2N-4W X165:10-3-28(C)(2)(B) MSSP, WDFD, HNTN (BRANCH 5H-16X) <600' FROM EXISTING AND/OR PROPOSED WELL NEWFIELD EXPLORATION MID-CONTINENT, INC. REC 12/3/12 (JOHNSON)
SPACING - 592371	1/2/2013 - G30 - (640) 16-2N-4W EXT 582855 WDFD, HNTN, OTHERS EXT OTHER
SPACING - 602383	1/2/2013 - G30 - (640) 21-2N-4W EXT 595488 MSSP EXT 596943 WDFD, HNTN, OTHERS EXT OTHERS

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