

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

API NUMBER: 073 26528

Approval Date: 03/28/2019

Expiration Date: 09/28/2020

Horizontal Hole
Multi Unit

Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 33 Twp: 17N Rge: 8W County: KINGFISHER

SPOT LOCATION: ☐ SW ☐ SW ☐ SE ☐ SE FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 235 1230

Lease Name: KEN FED 1608

Well No: 6H-4XR

Well will be 235 feet from nearest unit or lease boundary.

Operator Name: NEWFIELD EXPLORATION MID-CON INC

Telephone: 2812105100; 9188781

OTC/OCC Number: 20944 0

NEWFIELD EXPLORATION MID-CON INC
4 WATERWAY SQUARE PL STE 100
THE WOODLANDS, TX 77380-2764

JR BARTON & LULA M. BARTON
PO BOX 586
KINGFISHER OK 73750

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN (LESS CHESTER)	8319	6	
2 WOODFORD	8869	7	
3		8	
4		9	
5		10	

Spacing Orders: 652345
690831

Location Exception Orders: 690832

Increased Density Orders: 688850
688851

Pending CD Numbers: 201807007

Special Orders:

Total Depth: 18567

Ground Elevation: 1207

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 220

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: No

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

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

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 18-35803

E. Haul to Commercial pit facility: Sec. 31 Twn. 12N Rng. 8W Cnty. 17 Order No: 587498

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 09 Twp 16N Rge 8W County KINGFISHER

Spot Location of End Point: SW SE SE SE

Feet From: SOUTH 1/4 Section Line: 85

Feet From: EAST 1/4 Section Line: 440

Depth of Deviation: 8093

Radius of Turn: 384

Direction: 170

Total Length: 9871

Measured Total Depth: 18567

True Vertical Depth: 8869

End Point Location from Lease,
Unit, or Property Line: 85

Notes:

Category

Description

DEEP SURFACE CASING

3/26/2019 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING

HYDRAULIC FRACTURING

3/26/2019 - 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 - 688850

3/28/2019 - G58 - 4-16N-8W
X652345 MSNLC
5 WELLS
NEWFIELD EXPLORATION MID-CONTINENT INC.
12/26/2018

INCREASED DENSITY - 688851

3/28/2019 - G58 - 9-16N-8W
X652345 MSNLC
5 WELLS
NEWFIELD EXPLORATION MID-CONTINENT INC.
12/26/2018

This permit does not address the right of entry or settlement of surface damages.

073 26528 KEN FED 1608 6H-4XR

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Category	Description
INTERMEDIATE CASING	3/26/2019 - 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
LOCATION EXCEPTION - 690832	3/28/2019 - G58 - (I.O.) 4 & 9-16N-8W X165:10-3-28(C)(2)(B) MAY BE CLOSER THAN 600' TO WROBBEL 1, MELVIN HILL 1, KEN 1H-4X, PEDIGO M 1-9 AND/OR PROPOSED WELLS NEWFIELD EXPLORATION MID-CON INC. 2/4/2019
MEMO	3/26/2019 - G71 - PIT 1 & 2 - CLOSED SYSTEM = STEEL PITS PER OPERATOR REQUEST, WBM/CUTTINGS & OBM CUTTINGS CAPTURED IN STEEL HALF PITS, WBM CUTTINGS WILL BE SOIL FARMED, WBM & OBM CUTTINGS TRANSFERRED TO R360 587498 (31-12N-8W), CANADIAN CO, PIT 2 - OBM TO VENDOR
PENDING CD - 201807007	3/28/2019 - G58 - (I.O.) 4 & 9-16N-8W X652345 MSNLC, WDFD COMPL. INT. (4-16N-8W) NCT 0' FSL, NCT 165' FNL, NCT 330 FEL COMPL. INT. (9-16N-8W) NCT 165' FSL NCT 0' FNL, NCT 330 FEL NO OP NAMED REC 9/25/2018 (MILLER)
SPACING - 652345	3/28/2019 - G58 - (640)(HOR) 4 & 9-16N-8W VAC OTHERS VAC 100728 MSSLM 9-16N-8W VAC 79202 MNNG, MSSLM S2, W2 NW4, W2 NE4 4-16N-8W VAC 212246 MNNG, MCSTR, OTHERS 9-16N-8W VAC 235801 MSSLM S2, NE4, W2 NW4 9-16N-8W VAC 260869 MSSNC, OTHERS SW4 4-16N-8W EST OTHERS EXT 644685 MSNLC, WDFD POE TO BHL (MSNLC) NCT 660' FB POE TO BHL (WDFD) NCT 165' FNL & FSL, NCT 330' FEL & FWL (COEXIST SP. ORDER # 79202 MNNG, MSSLM E2 NE4, E2 NW4 4-16N-8W & ORDER # 235801 MSSLM E2 NW4 9-16N-8W)
SPACING - 690831	3/28/2019 - G58 - (I.O.) 4 & 9-16N-8W ESTABLISH MULTIUNIT HORIZONTAL WELL X652345 MSNLC, WDFD (WDFD ADJACENT COMMON SOURCE OF SUPPLY TO MSNLC) 50% 4-16N-8W 50% 9-16N-8W NEWFIELD EXPLORATION MID-CONTINENT INC. 2/4/2019

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