

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

API NUMBER: 073 26436 A

Approval Date: 02/08/2019
Expiration Date: 08/08/2020

Horizontal Hole
Multi Unit

Oil & Gas

Amend reason: CHANGE LOCATION EXCEPTION CD

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 31 Twp: 16N Rge: 8W

County: KINGFISHER

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

SECTION LINES: 275 370

Lease Name: KENNETH FIU

Well No: 1608 7H-30X

Well will be 275 feet from nearest unit or lease boundary.

Operator NEWFIELD EXPLORATION MID-CON INC
Name:

Telephone: 2812105100; 9188781

OTC/OCC Number: 20944 0

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

JOEL B. & BRIDGET D. BIRDWELL
5880 STATE HWY 33
KINGFISHER OK 73750

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	8267	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 630460
691200

Location Exception Orders: 691201
692593

Increased Density Orders: 688775
688776

Pending CD Numbers:

Special Orders:

Total Depth: 19110

Ground Elevation: 1142

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 50

Deep surface casing has been approved

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 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

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 18 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 30 Twp 16N Rge 8W County KINGFISHER

Spot Location of End Point: NW NE NE NE

Feet From: NORTH 1/4 Section Line: 85

Feet From: EAST 1/4 Section Line: 380

Depth of Deviation: 8055

Radius of Turn: 477

Direction: 359

Total Length: 10306

Measured Total Depth: 19110

True Vertical Depth: 8860

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

Notes:

Category

Description

DEEP SURFACE CASING

12/17/2018 - 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

EXCEPTION TO RULE - 692593 (201807870)

12/5/2019 - G56 - (I.O.) 30 & 31-16N-8W
X165:10-3-28(C)(2)(B) MSSP (KENNETH FED 1608 7H-30X)
MAY BE CLOSER THAN 600' TO PROPOSED WELLS AND/OR, KENNETH 1H-30X, LOUISE 1-30, JINDRA 1-30 WELLS
NO OP NAMED
3/8/2019

HYDRAULIC FRACTURING

12/17/2018 - 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: OCCWEB.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 - 688775 (201807854)

12/5/2019 - G56 - 30-16N-8W
X630460 MSSP
7 WELLS
NEWFIELD EXPLORATION MID-CONTINENT INC.
12/21/2018

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

The duration of this permit is 18 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.

073 26436 KENNETH FIU 1608 7H-30X

INCREASED DENSITY - 688776 (201807855)	12/5/2019 - G56 - 31-16N-8W X630460 MSSP 7 WELLS NEWFIELD EXPLORATION MID-CONTINENT INC. 12/21/2018
INTERMEDIATE CASING	12/17/2018 - 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
LOCATION EXCEPTION - 691201 (201807867)	12/5/2019 - G56 - (I.O.) 30 & 31-16N-8W X630460 MSSP, OTHER COMPL. INT. (31-16N-8W) NCT 165' FSL, NCT 0' FNL, NCT 660' FEL COMPL. INT. (30-16N-8W) NCT 0' FSL, NCT 165' FNL, NCT 660' FEL NEWFIELD EXPLORATION MID-CONTINENT INC. 2/11/2019
MEMO	12/17/2018 - G71 - PIT 1 & 2 - CLOSED SYSTEM = STEEL PITS PER OPERATOR REQUEST, WBM/CUTTINGS & OBM CUTTINGS CAPTURED IN STEEL HALF PITS & TRANSFERRED TO R360 587498 (31-12N-8W), CANADIAN CO; PIT 3 - OBM TO VENDOR
SPACING - 630460	12/5/2019 - G56 - (640)(HOR) 30 & 31-16N-8W VAC 41819 MCSTR VAC 83896 MNNG, MISS E2 NW4, NE4, E2 SE4, SW4 30 & ALL 31-16N-8W EXT 614033 MSSP, OTHER POE TO BHL (MSSP) NCT 660' FB (COEXIST SP. ORDER 83896 MNNG, MISS W2 NW4 & W2 SE4)
SPACING - 691200 (201807866)	12/5/2019 - G56 - (I.O.) 30 & 31-16N-8W EST MULTIUNIT HORIZONTAL WELL X630460 MSSP, OTHER 50% 30-16N-8W 50% 31-16N-8W NEWFIELD EXPLORATION MID-CONTINENT INC. 2/11/2019