API NUMBER: 073 26466 **OKLAHOMA CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION** P.O. BOX 52000 **OKLAHOMA CITY, OK 73152-2000** (Rule 165:10-3-1)

Approval Date: 03/05/2019 09/05/2020 Expiration Date:

Horizontal Hole Multi Unit

Oil & Gas

PERMIT TO DRILL

FROM

WELL LOCATION:	Sec:	16	Twp:	15N	Rge:	8W	County:	KING	SFISHER
SPOT LOCATION:	NE	SW	NI	E	NW		FEET FROM QUARTER:	FROM	NORTH

WEST SECTION LINES:

1810 690

Lease Name: FREDERICK Well No: 1508 2H-4X Well will be 690 feet from nearest unit or lease boundary.

NEWFIELD EXPLORATION MID-CON INC Operator

Telephone: 2812105100; 9188781

OTC/OCC Number: 20944 0

NEWFIELD EXPLORATION MID-CON INC

24 WATERWAY AVE ST 900

THE WOODLANDS. TX 77380-2764 FREDERICK & MARTHA BREDEL

26612 N 2780 RD

KINGFISHER OK 73750

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

	Name	Depth	I	Name	Dep	oth
1	MISSISSIPPIAN	8913	6			
2			7			
3			8			
4			9			
5			10			
Spacing Orders:	634773 687537	Location Exception Orders:	687538 686475		Increased Density Orders:	
						686476

Pending CD Numbers: Special Orders:

Total Depth: 19662 Ground Elevation: 1146 Surface Casing: 1500 Depth to base of Treatable Water-Bearing FM: 300

Under Federal Jurisdiction: No Fresh Water Supply Well Drilled: No Surface Water used to Drill: No

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?

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

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 19-36154

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

H SEE MEMO

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 04 Twp 15N Rge 8W County KINGFISHER

Spot Location of End Point: NE NW NE NW
Feet From: NORTH 1/4 Section Line: 85
Feet From: WEST 1/4 Section Line: 1714

Depth of Deviation: 8594 Radius of Turn: 489 Direction: 359

Total Length: 10299

Measured Total Depth: 19662
True Vertical Depth: 9482
End Point Location from Lease,
Unit, or Property Line: 85

Notes:

Category Description

DEEP SURFACE CASING 1/31/2019 - 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

EXCEPTION TO RULE - 686475 3/4/2019 - G56 - (I.O.) 4 & 9-15N-8W

X165:10-3-28(C)(2)(B) MSSP MAY BE CLOSER THAN 600' TO FRANKS 1, FREDERICK 1H-4X,

BREDEL 1-9 AND/OR PROPOSED WELLS

NEWFIELD EXPLOR. MID-CON.

11/9/2018

HYDRAULIC FRACTURING 1/31/2019 - 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 - 686476 3/4/2019 - G56 - 9-15N-8W

X634773 MSSP 7 WELLS

NEWFIELD EXPLOR. MID-CON. INC.

11/9/2018

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.

073 26466 FREDERICK 1508 2H-4X

Category Description

INCREASED DENSITY - 688335 3/4/2019 - G56 - 4-15N-8W

X634773 MSSP

7 WELLS

NEWFIELD EXPLOR. MID-CON. INC.

12/14/2018

INTERMEDIATE CASING 1/31/2019 - 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 - 687538 3/4/2019 - G56 - (I.O.) 4 & 9-15N-8W

X634773 MSSP

COMPL INT (9-15N-8W) NCT 0' FNL, NCT 165' FSL, NCT 1320' FWL COMPL INT (4-15N-8W) NCT 0' FSL, NCT 165' FNL, NCT 1320' FWL

NEWFIELD EXPLOR. MID-CON. INC.

12/3/2018

MEMO 1/31/2019 - G71 - PIT 1 & 2 - CLOSED SYSTEM = STEEL PITS (REQUIRED - DEAD INDIAN

CREEK), 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

SPACING - 634773 3/4/2019 - G56 - (640)(HOR) 4 & 9-15N-8W

EXT 608292 MSSP COMPL INT NLT 660' FB

(COEXIST WITH SP # 324671 CSTRU, MNNG, MSSLM 9-15N-8W; SP # 231191 CSTRU, MNNG,

MSSLM 4-15N-8W)

SPACING - 687537 3/4/2019 - G56 - (I.O.) 4 & 9-15N-8W

ESTABLISH MULTIUNIT HORIZONTAL WELL

X634773 MSSP 50% 4-15N-8W 50% 9-15N-8W

NEWFIELD EXPLOR. MID-CON. INC.

12/3/2018

