API NUMBER: 073 26261

Oil & Gas

Horizontal Hole

Lease Name: HELEN

3

5

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

Approval Date: 09/21/2018 03/21/2020 **Expiration Date**

250 feet from nearest unit or lease boundary.

PERMIT TO DRILL

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

FEET FROM QUARTER: SPOT LOCATION: lsw SOUTH WEST sw SE SE SECTION LINES:

250 2010

1708 3H-30X Telephone: 2816742521; 9188781 OTC/OCC Number: 20944 0

Well No:

NEWFIELD EXPLORATION MID-CON INC Operator Name:

NEWFIELD EXPLORATION MID-CON INC

24 WATERWAY AVE STE 900

THE WOODLANDS. TX 77380-2764 DON GRUNTMEIR

Well will be

13621 E. 860 RD

D. One time land application -- (REQUIRES PERMIT)

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

KINGFISHER OK 73762

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

Name Depth Name Depth MISSISSIPPIAN 1 8413 6 2 WOODFORD 8983 7

8 4 9 10

646834 Spacing Orders: Location Exception Orders: Increased Density Orders:

Pending CD Numbers: 201805407 Special Orders:

Total Depth: 19039 Ground Flevation: 1140 Surface Casing: 1500 Depth to base of Treatable Water-Bearing FM: 270

Under Federal Jurisdiction: 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?

is located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C Pit Location is BED AQUIFER Pit Location Formation: CEDAR HILLS

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.

PERMIT NO: 18-35347

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?

is located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C Pit Location is BED AQUIFER Pit Location Formation: CEDAR HILLS

HORIZONTAL HOLE 1

Sec. 31 Twp 17N Rge 8W County **KINGFISHER**

Spot Location of End Point: SW SE SE SW Feet From: SOUTH 1/4 Section Line: 85 WEST Feet From: 1/4 Section Line: 2200

Depth of Deviation: 8143 Radius of Turn: 382 Direction: 179

Total Length: 10295

Measured Total Depth: 19039 True Vertical Depth: 8983 End Point Location from Lease. Unit, or Property Line: 85

Notes:

Category Description

9/12/2018 - G71 - APPROVED: NOTIFY OCC FIELD INSPECTOR IMMEDIATELY OF ANY LOSS OF **DEEP SURFACE CASING**

CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR

SURFACE CASING

HYDRAULIC FRACTURING 9/12/2018 - 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:

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

9/19/2018 - G57 - DUE TO THE KNOWN POTENTIAL RISK OF ENCOUNTERING AN OVER-INTERMEDIATE CASING

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 9/12/2018 - 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

Category Description

PENDING CD - 201805407 9/19/2018 - G57 - 30-17N-8W

X646834 MSSP 5 WELLS NO OP. NAMED

REC 8-7-2018 (P. PORTER)

PENDING CD - 201805408 9/19/2018 - G57 - 31-17N-8W

X646834 MSSP 5 WELLS NO OP. NAMED

REC 8-7-2018 (P. PORTER)

PENDING CD - 201805411 9/19/2018 - G57 - (I.O.) 30 & 31-17N-8W

EST MULTIUNIT HORIZONTAL WELL

X646834 MSSP, WDFD

(WDFD IS AN ADJACENT COMMON SOURCE OF SUPPLY TO THE MSSP)

50% 30-17N-8W 50% 31-17N-8W

NEWFIELD EXPLORATION MID-CONTINENT INC.

REC 8-7-2018 (P. PORTER)

PENDING CD - 201805412 9/19/2018 - G57 - (I.O.) 30 & 31-17N-8W

X646834 MSSP, WDFD

SHL SW4 31*

COMPL. INT. (31-17N-8W) NCT 165' FSL, NCT 0' FNL, NCT 1980' FWL COMPL. INT. (30-17N-8W) NCT 0' FSL, NCT 165' FNL, NCT 1980' FWL

NO OP. NAMÈD

REC 8-7-2018 (P. PORTER)

**S/B SHL 250' FSL, 2010' FWL 19-17N-8W & DIRECTION OF LATERAL FROM N-S; WILL BE

CORRECTED AT THE HEARING FOR THE FINAL ORDER PER OPERATOR

PENDING CD - 201805419 9/19/2018 - G57 - (I.O.) 30 & 31-17N-8W

X165:10-3-28(C)(2)(B) MSSP, WDFD (HELEN 1708 3H-30X) MAY BE CLOSER THAN 600' TO THE

HELEN 1H-30X & PROPOSED HORIZONTAL WELLS NEWFIELD EXPLORATION MID-CONTINENT INC.

REC 8-7-2018 (P. PORTER)

SPACING - 646834 9/19/2018 - G57 - (640)(HOR) 30 & 31-17N-8W

EXT 639736 MSSP EXT 644685 WDFD

POE TO BHL (MSSP) NLT 660' FB

POE TO BHL (WDFD) NLT 165' FNL & FSL, NLT 330' FEL & FWL (COEXIST W/ SP. ORDER

143434/168065 MNNG, ORDER 143505/168065 MSSLM 30-17N-8W)

(COEXIST W/ SP. ORDER 143434 MNNG S2 & NW4, ORDER 143434/213918 MNNG NE4, ORDER 143505 S2 & NW4 MSSLM, ORDER 143505/213918 NE4, 209749 CRLMN NW4, ORDER 212530

CRLMN SW4, ORDER 213918 CRLM NE4, ORDER 504686 CRLM SE4 31-17N-8W)

