API NUMBER: 073 26391

Oil & Gas

Horizontal Hole

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

Approval Date: 12/14/2018 06/14/2020 **Expiration Date**

73750

PERMIT TO DRILL

County: KINGFISHER WELL LOCATION: Sec: 16N Rge: 9W 13 Twp:

FEET FROM QUARTER: SPOT LOCATION: NORTH EAST NW NE llnw NE SECTION LINES: 250 1760

Lease Name: SMITH BROTHERS Well No: 1609 5H-1X Well will be 250 feet from nearest unit or lease boundary.

ROBERT BOECKMAN

NEWFIELD EXPLORATION MID-CON INC Operator Telephone: 2816742521; 9188781 OTC/OCC Number: 20944 0 Name:

NEWFIELD EXPLORATION MID-CON INC 24 WATERWAY AVE STE 900

5892 F 792 RD THE WOODLANDS. TX 77380-2764 **KINGFISHER** OK

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

Name Depth Name Depth MISSISSIPPIAN 1 8110 6 2 7 3

8 4 9 5 10

Spacing Orders: Location Exception Orders: 687726 Increased Density Orders: 685873 687602 685872

Pending CD Numbers: Special Orders:

Total Depth: 19450 Ground Elevation: 1177 Surface Casing: 1500 Depth to base of Treatable Water-Bearing FM: 400

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

Approved Method for disposal of Drilling Fluids: 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

632727

Wellhead Protection Area?

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

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

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 01 Twp 16N Rge 9W 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: 440

Depth of Deviation: 8444 Radius of Turn: 604

Direction: 3

Total Length: 10057

Measured Total Depth: 19450
True Vertical Depth: 8854
End Point Location from Lease,
Unit, or Property Line: 85

Notes:

Category Description

DEEP SURFACE CASING 12/3/2018 - 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

HYDRAULIC FRACTURING 12/3/2018 - G71 - 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 - 685872 12/14/2018 - G56 - 1-16N-9W

X632727 MSSP

4 WELLS

NEWFIELD EXPLOR. MID-CONTINENT INC.

10/31/2018

X632727 MSSP

4 WELLS

NEWFIELD EXPLOR. MID-CONTINENT INC.

10/31/2018

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 26391 SMITH BROTHERS 1609 5H-1X

Category Description

INTERMEDIATE CASING 12/3/2018 - 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 - 687726 12/14/2018 - G56 - (I.O.) 1 & 12-16N-9W

X632727 MSSP, OTHER 1 & 12-16N-9W

COMPL INT (12-16N-9W) NCT 0' FNL, NCT 165' FSL, NCT 330' FEL COMPL INT (1-16N-9W) NCT 0' FSL, NCT 165' FNL, NCT 330' FEL

NEWFIELD EXPLOR. MID-CON INC.

12/5/2018

MEMO 12/3/2018 - 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 - 632727 12/14/2018 - G56 - (640)(HOR) 1 & 12-16N-9W

EST OTHER

EXT 614033 MSSP, OTHER COMPL INT NLT 660' FB

(COEXIST WITH NON HOR DRILLING AND SP UNITS)

SPACING - 687602 12/14/2018 - G56 - (I.O.) 1 & 12-16N-9W

ESTABLISH MULTIUNIT HORIZONTAL WELL X632727 MSSP, OTHER 1 & 12-16N-9W

50% 12-16N-9W 50% 1-16N-9W

NEWFIELD EXPLOR. MID-CON INC.

12/4/2018

PERMIT PLAT

M & M Land Surveying, Inc. Phone (580) 226-0446 520 E Street N.W. Ardmore, OK 73401

Company Name: NEWFIELD EXPLORATION MID-CONTINENT INC.

Lease Name: SMITH BROTHERS1609 5H-1X

Original Location:

N 89°36'33" W

5324.01

N:311489.19

E:1970295.25

N:311525.50

© COPYRIGHT 2018 PROJECT NUMBER:

SHEET: 6 OF 9

E:1964971.36

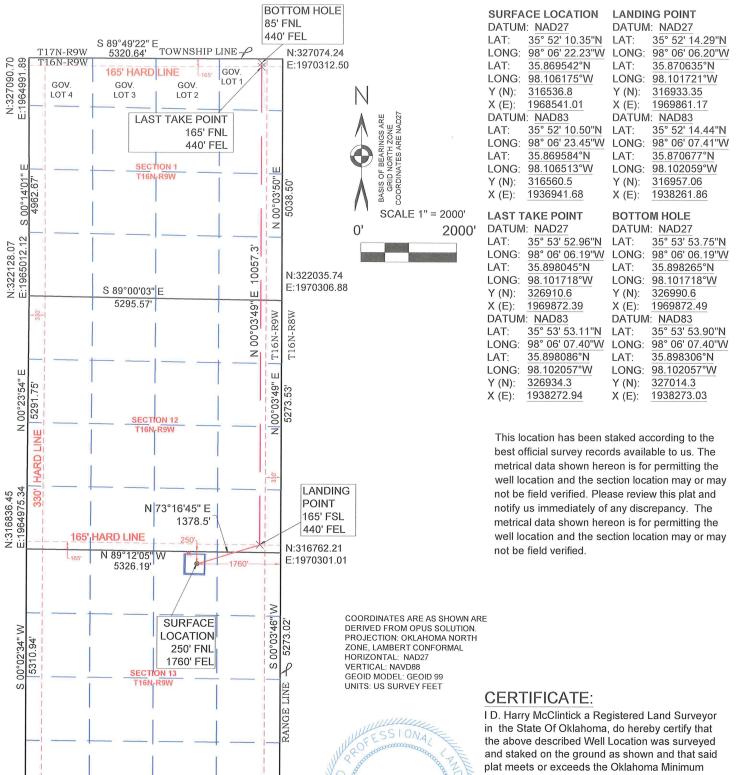
SURVEY BY: M & M Land Surveying, Inc. – C.A. No. 3093 (LS)
DRAWING BY: Bennett-Morris And Associates Land Surveying, P.C.
C.A. No. 5975 (LS) – Aaron L. Morris, RPLI
PROJECT NUMBER: SITE VISIT: (Explanation and Date)

STE VISIT: (Explanation and STAKING DATE: 11/07/2018 DRAWING DATE: 11/26/2018

Section 13 Township 16 N Range 9 W , I.B.M, County of Kingfisher, State of Oklahoma

Elevation Good Location? 1177' **GROUND** YES

250'FNL - 1760'FEL Distance & Direction From Nearest Town: 9.8 miles West of Kingfisher



MCCLINTICK

OKLAHOMA

Technical Standards for the practice of land surveying as adopted by the Oklahoma State Board of Licensure for Professional Engineers and Land Surveyors.

> D. Harry McClintick PLS. No.1367