API NUMBER: 073 26433

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

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

Horizontal Hole Oil & Gas
Multi Unit

PERMIT TO DRILL

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

SPOT LOCATION: SW SE SE SW FEET FROM QUARTER: FROM **SOUTH** FROM **WEST**
SECTION LINES: **249** **2183**

Lease Name: KENNETH FIU **Well No: 1608 4H-30X** **Well will be 249 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
24 WATERWAY AVE STE 900
THE WOODLANDS, TX 77380-2764

KAREN SUE YOST, TRUSTEE
7847 E 840 RD
KINGFISHER OK 73750

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

	Name	Depth		Name	Depth
1	MISSISSIPPIAN	8371	6		
2			7		
3			8		
4			9		
5			10		

Spacing Orders: 630460 Location Exception Orders: Increased Density Orders: 688775
688776

Pending CD Numbers: 201807860
201807870
201807863

Special Orders:

Total Depth: 19450 Ground Elevation: 1177 **Surface Casing: 1500** Depth to base of Treatable Water-Bearing FM: 60

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

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? 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

Approved Method for disposal of Drilling Fluids:

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 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: NE NW NW NE

Feet From: NORTH 1/4 Section Line: 85

Feet From: EAST 1/4 Section Line: 2171

Depth of Deviation: 8402

Radius of Turn: 477

Direction: 5

Total Length: 10299

Measured Total Depth: 19450

True Vertical Depth: 8960

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
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: 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 - 688775	1/25/2019 - G58 - 30-16N-8W X630460 MSSP 7 WELLS NEWFIELD EXPLORATION MID-CONTINENT INC. 12/21/2018
INCREASED DENSITY - 688776	1/25/2019 - G58 - 31-16N-8W X630460 MSSP 7 WELLS NEWFIELD EXPLORATION MID-CONTINENT INC. 12/21/2018

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Category	Description
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
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
PENDING CD - 201807860	1/25/2019 - G58 - (I.O.) 30 & 31-16N-8W EST MULTIUNIT HORIZONTAL WELL X630460 MSSP, OTHER 50% 30-16N-8W 50% 31-16N-8W NO OP. NAMED REC 10/24/2018 (M. PORTER)
PENDING CD - 201807863	1/25/2019 - G58 - (I.O.) 30 & 31-16N-8W X630460 MSSP, OTHER COMPL. INT. 31-16N-8W NCT 165' FSL, NCT 0' FNL, NCT 1980' FEL COMPL. INT. 30-16N-8W NCT 0' FSL, NCT 165' FNL, NCT 1980' FEL NO OP. NAMED REC 10/24/2018 (M. PORTER)
PENDING CD - 201807870	1/25/2019 - G58 - (I.O.) 30 & 31-16N-8W X165:10-3-28(C)(2)(B) MSSP (KENNETH FED 1608 4H-30X) MAY BE CLOSER THAN 600' TO PROPOSED WELL MAY BE CLOSER THAN 600' TO THE KENNETH 1H-30X WELL MAY BE CLOSER THAN 600' TO THE LOUISE 1-30 WELL MAY BE CLOSER THAN 600' TO THE JINDRA 1-30 WELL REC 10/24/2018 (M. PORTER)
SPACING - 630460	1/25/2019 - G58 - (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)

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.

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

13800 WIRELESS WAY, OKLA. CITY, OKLA. 73134 * LOCAL (405) 843-4847 * OUT OF STATE (800) 654-3219
Certificate of Authorization No. 1293 LS

KINGFISHER County, Oklahoma

249'FSL-2183'FWL Section 31 Township 16N Range 8W I.M.

PERMIT PLAT

073-26433

GRID
OK NORTH
US Feet
0' 500' 1000'

NOTES:

- The information shown herein is for construction purposes ONLY.
- Section 31 is not within a flood zone.
- All bearings shown are Grid, NAD-27, Oklahoma North.
- Landing Point, Last Take Point, Bottom Hole, and Drill Path information provided by client listed, not surveyed.

SURFACE LOCATION

DATUM: NAD-27
LAT: 35°48'46.6"N
LONG: 98°05'34.1"W
LAT: 35.812954°N
LONG: 98.092812°W
STATE PLANE COORDINATES: (US Feet)
ZONE: OK NORTH
X: 1972481
Y: 295935

DATUM: NAD-83
LAT: 35°48'46.8"N
LONG: 98°05'35.3"W
LAT: 35.812999°N
LONG: 98.093147°W
STATE PLANE COORDINATES: (US Feet)
ZONE: OK NORTH
X: 1940882
Y: 295959

This information was gathered with a GPS receiver with ±1 foot Horiz./Vert. accuracy.

CERTIFICATE:

I, Thomas L. Howell an Oklahoma Licensed Land Surveyor and an authorized agent of Topographic Land Surveyors of Oklahoma, do hereby certify to the information shown herein

Oklahoma Lic. No. 1433

LICENSED PROFESSIONAL LAND SURVEYOR
THOMAS L. HOWELL
1433
10-5-18
OKLAHOMA

NAD-27 X 1975275.65 Y 306254.12 NAD-83 X 1943676.59 Y 306277.85

N 00°08'23" W 80.00' N 89°34'24" E

N 89°34'06" E 2326.34' 165' HARDLINE 2643.66'

NAD-27 X 1970305.79 Y 306216.92 NAD-83 X 1938706.64 Y 306240.63

NAD-27 X 1972632.06 Y 306234.44 NAD-83 X 1941032.96 Y 306258.16

BOTTOM HOLE LAST TAKE POINT

LOT 5 LOT 6 E/2-NW/4

S 00°04'24" W 2634.85' N 00°08'23" W 2639.39'

LOT 7 LOT 8 E/2-SW/4-NW/4 NE

BOTTOM HOLE
85'FNL-2171'FEL
NAD-27 (US Feet)
35°50'27.7"N
98°05'26.7"W
35.841026°N
98.090741°W
X= 1973105
Y= 306153
NAD-83 (US Feet)
35°50'27.9"N
98°05'27.9"W
35.841071°N
98.091076°W
X= 1941506
Y= 306177

NAD-27 X 1970302.42 Y 303582.07 NAD-83 X 1938703.35 Y 303605.64

NAD-27 X 1975282.09 Y 303614.74 NAD-83 X 1943683.06 Y 303638.46

30

T16N-R9W Range Line T16N-R8W

E/2-SW/4

LOT 3

LAST TAKE POINT
165'FNL-2171'FEL
NAD-27 (US Feet)
35°50'26.9"N
98°05'26.7"W
35.840806°N
98.090740°W
X= 1973105
Y= 306073
NAD-83 (US Feet)
35°50'27.1"N
98°05'27.9"W
35.840851°N
98.091075°W
X= 1941506
Y= 306097

S 00°04'16" W 2635.15' SE N 00°08'23" W 2639.38'

330' HARDLINE LOT 4 N 00°12'23" W 10219.20' 330' HARDLINE

N 89°40'27" E 2349.44' N 89°40'22" E 2640.02'

NAD-27 X 1970299.15 Y 300946.93 NAD-83 X 1938700.07 Y 300970.64

NAD-27 X 1972648.55 Y 300960.29 NAD-83 X 1941049.51 Y 300984.01

NAD-27 X 1975288.53 Y 300975.36 NAD-83 X 1943689.54 Y 300999.09

LOT 1

S 00°00'34" W 2636.72' E/2-NW/4 NE N 00°17'04" W 2640.41'

NAD-27 X 1970298.71 Y 298310.20 NAD-83 X 1938699.67 Y 298333.92

LOT 2

LANDING POINT
165'FSL-2171'FEL
NAD-27 (US Feet)
35°48'45.8"N
98°05'26.1"W
35.812732°N
98.090584°W
X= 1973142
Y= 295854
NAD-83 (US Feet)
35°48'46.0"N
98°05'27.3"W
35.812778°N
98.090918°W
X= 1941543
Y= 295878

NAD-27 X 1975301.64 Y 298334.99 NAD-83 X 1943702.69 Y 298358.72

31

LOT 3

S 00°00'35" W 2630.83' 2386' E/2-SW/4 SE N 00°15'37" W 2638.70'

SURFACE LOCATION
249'FSL-2183'FWL

NAD-27 X 1975313.63 Y 295696.32 NAD-83 X 1943714.72 Y 295720.05

LOT 4

205'

LANDING POINT

NAD-27 X 1970298.26 Y 295679.37 NAD-83 X 1938699.26 Y 295703.09

2183'

165' HARDLINE 2389.33' 249' 2626.07' T16N-R8W Township Line

N 89°48'39" E S 82°59'20" E 665.69' N 89°48'08" E T15N-R8W

NAD-27 X 1972687.58 Y 295687.26 NAD-83 X 1941088.62 Y 295710.98

Date of Drawing: Oct. 4, 2018
Invoice # 300576B Date Staked: Aug. 21, 2018 TR

Operator: NEWFIELD EXPLORATION
Lease Name: KENNETH FIU 1608 Well No.: 4H-30X

ELEVATION:
1177' Gr. at Stake (NGVD29)

Topography & Vegetation Loc. fell on hilltop in a partially plowed grass field.
Reference Stakes or Alternate Location
Good Drill Site? Yes Stakes Set None
Best Accessibility to Location From South off county road.
Distance & Direction
from Hwy Jct or Town From the junction of US Hwy. 81 and St. Hwy. 33 in Kingfisher, OK, go West ±7.5 miles, then South ±3 miles, then West ±1.5 miles to the S/4 Cor. of Sec. 31-T16N-R8W.