

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

API NUMBER: 073 26435

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 ☐ SE

FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 275 390

Lease Name: KENNETH FIU

Well No: 1608 6H-30X

Well will be 275 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

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	8287	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 630460

Location Exception Orders:

Increased Density Orders: 688775

688776

Pending CD Numbers: 201807864
201807867
201807870

Special Orders:

Total Depth: 19550

Ground Elevation: 1142

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 50

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: Yes

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 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 NE NE

Feet From: NORTH 1/4 Section Line: 85

Feet From: EAST 1/4 Section Line: 977

Depth of Deviation: 8437

Radius of Turn: 515

Direction: 355

Total Length: 10304

Measured Total Depth: 19550

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

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

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

073 26435 KENNETH FIU 1608 6H-30X

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.

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 - 201807864	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 - 201807867	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 660' FEL COMPL. INT. 30-16N-8W NCT 0' FSL, NCT 165' FNL, NCT 660' 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 6H-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)

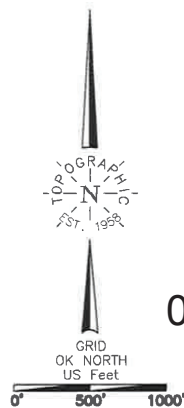
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KINGFISHER County, Oklahoma
275'FSL-390'FEL Section 31 Township 16N Range 8W I.M.
PERMIT PLAT

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



073-26435

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°48'47.0"N
LONG: 98°05'04.5"W
LAT: 35.813056°N
LONG: 98.084580°W
STATE PLANE
COORDINATES: (US Feet)
ZONE: OK NORTH
X: 1974922
Y: 295970

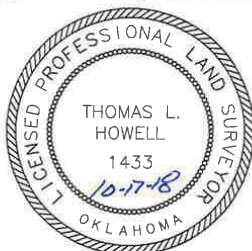
DATUM: NAD-83
LAT: 35°48'47.2"N
LONG: 98°05'05.7"W
LAT: 35.813101°N
LONG: 98.084913°W
STATE PLANE
COORDINATES: (US Feet)
ZONE: OK NORTH
X: 1943323
Y: 295994

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.

Thomas L. Howell
Oklahoma Lic. No. 1433



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

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

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

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

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

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

LANDING POINT
165'FSL-977'FEL
NAD-27 (US Feet)
35°48'45.9"N
98°05'11.6"W
35.812746°N
98.086557°W
X= 1974336
Y= 295858
NAD-83 (US Feet)
35°48'46.1"N
98°05'12.8"W
35.812792°N
98.086891°W
X= 1942737
Y= 295882

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

LAST TAKE POINT
165'FNL-977'FEL
NAD-27 (US Feet)
35°50'27.0"N
98°05'12.2"W
35.840834°N
98.086712°W
X= 1974299
Y= 306082
NAD-83 (US Feet)
35°50'27.2"N
98°05'13.4"W
35.840878°N
98.087046°W
X= 1942700
Y= 306106

BOTTOM HOLE
85'FNL-977'FEL
NAD-27 (US Feet)
35°50'27.8"N
98°05'12.2"W
35.841053°N
98.086713°W
X= 1974299
Y= 306162
NAD-83 (US Feet)
35°50'28.0"N
98°05'13.4"W
35.841098°N
98.087047°W
X= 1942700
Y= 306186

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

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

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

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

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

31

30

Operator: NEWFIELD EXPLORATION

Lease Name: KENNETH FIU 1608

Topography & Vegetation Loc. fell in rolling pasture.

Good Drill Site? Yes

Reference Stakes or Alternate Location
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 ±1.0 miles to the SE Cor. of Sec. 31-T16N-R8W.

Date of Drawing: Oct. 13, 2018

Invoice # 300575A Date Staked: Aug. 21, 2018 TR

Well No.: 6H-30X

ELEVATION:

1142' Gr. at Stake (NGVD29)