API NUMBER: 073 26646 OKLAHOMA CORPORATION COMMISSION **OIL & GAS CONSERVATION DIVISION** P.O. BOX 52000 **OKLAHOMA CITY, OK 73152-2000** (Rule 165:10-3-1)

Approval Date: 12/11/2019 06/11/2021 Expiration Date:

20944 0

Horizontal Hole Multi Unit

Oil & Gas

PERMIT TO DRILL

Telephone: 2812105100; 9188781

WELL LOCATION:	Sec: 20	Twp: 16N	Rge: 8W	County	: KING	SFISHER		
SPOT LOCATION:	SE SW	SW	SE	FEET FROM QUARTER:	FROM	SOUTH F	ROM	EAST
				SECTION LINES:		250		2075
Lease Name: [OAN FED 1608			We	ell No:	2H-17X		
Operator	NEWFIELD E	EXPLORATIO	N MID-CO	N INC		Telephor	ie.	28121051

NEWFIELD EXPLORATION MID-CON INC

4 WATERWAY AVE STE 100

THE WOODLANDS. TX 77380-2764 SHELLI YOST SCHROEDER AND JEREMY SCHROEDER 2726 OVERCREST LANE

OTC/OCC Number:

Well will be 250 feet from nearest unit or lease boundary.

SAPULPA OK 74006

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

	Name	Depth		Name	D	epth
1	MISSISSIPPIAN	8628	6			
2			7			
3			8			
4			9			
5			10			
Spacing Orders:	635442 690952	Location Exception Orders:	690953 695482		Increased Density Orders:	689313 689870

Pending CD Numbers: Special Orders:

Depth to base of Treatable Water-Bearing FM: 130 Total Depth: 19253 Ground Elevation: 1108 Surface Casing: 1500

Deep surface casing has been approved

Under Federal Jurisdiction: Yes 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?

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

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 19-37102 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 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 17 Twp 16N Rge 8W County KINGFISHER

Spot Location of End Point: NW NW NE NE
Feet From: NORTH 1/4 Section Line: 85
Feet From: EAST 1/4 Section Line: 1023

Depth of Deviation: 8175
Radius of Turn: 542
Direction: 360

Total Length: 10226

Measured Total Depth: 19253

True Vertical Depth: 8628

End Point Location from Lease,
Unit, or Property Line: 85

 Additional Surface Owner
 Address
 City, State, Zip

 SHANE AND CAROLEE MARIE YOST
 22632 N. 2770 ROAD
 KINGFISHER, OK 73750

 SHAUNA YOST
 1912 EASTERN AVENUE
 STILLWATER, OK 74074

Notes:

Category Description

DEEP SURFACE CASING 12/3/2019 - 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 - 695482 (201808814) 12/10/2019 - GC2 - (I.O.) 17 & 20-16N-8W

X165:10-3-28(C)(2)(B) MSSP (DAN FED 1608 2H-17X)

MAY BE CLOSER THAN 600' TO DAN FED 1608 3H-17X, DAN FED 1608 4H-17X, DAN FIU 1608 5H -17X, DAN FIU 1608 6H-17X, DAN FED 1608 7H-17X, DAN FED 1608 8H-17X, GRACE 1-17, GRACE

2-17, ZETA 20-1, MAX YOST 1, DAN 1H-17X

NO OP. NAMED 5-2-2019

HYDRAULIC FRACTURING 12/3/2019 - 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

This permit does not address the right of entry or settlement of surface damages. The duration of this permit is 18 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 26646 DAN FED 1608 2H-17X

INCREASED DENSITY - 689313 (201808795) 12/10/2019 - GC2 - 17-16N-8W

X635442 MSSP

7 WELLS

NEWFIELD EXPLORATION MID-CONTINENT INC

1-17-2019

INCREASED DENSITY - 689870 (201808796) 12/10/2019 - GC2 - 20-16N-8W

X635442 MSSP

7 WELLS

NEWFIELD EXPLORATION MID-CONTINENT INC

1-16-2019

INTERMEDIATE CASING 12/3/2019 - 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 - 690953

(201808801)

12/10/2019 - GC2 - (I.O.) 17 & 20-16N-8W

X635442 MSSP 17 & 20-16N-8W

COMPL. INT. (20-16N-8W) NCT 165' FSL, NCT 0' FNL, NCT 660' FEL COMPL. INT. (17-16N-8W) NCT 0' FSL, NCT 165' FNL, NCT 660' FEL

NEWFIELD EXPLORATION MID-CONTINENT INC

2-5-2019

12/3/2019 - G71 - PIT 1 & 2 - CLOSED SYSTEM = STEEL PITS (REQUIRED - KINGFISHER MEMO

CREEK), WBM/CUTTINGS & OBM CUTTINGS CAPTURED IN STEEL HALF PITS. WBM/CUTTINGS

WILL BE SOIL FARMED, OBM CUTTINGS TRANSFERRED TO R360 587498 (31-12N-8W),

CANADIAN CO, PIT 2 - OBM TO VENDOR

12/10/2019 - GC2 - (640)(HOR) 17 & 20-16N-8W SPACING - 635442

VAC 83896 MISS, MNNG W2 & SE4 17-16N-8W & N2, W2 SW4, & W2 SE4 20-16N-8W

VAC 187915 CSTR NW4 20-16N-8W VAC 201953 CSTR E2 NE4 20-16N-8W VAC 202804 CSTR SE4 17-16N-8W **VAC OTHERS**

VAC 210501 CSTR S2 & NW4 17-16N-8W

EXT 614033 MSSP. OTHER COMPL. INT. (MSSP) NCT 660' FB

(COEXIST PRODUCING NON-HORIZONTAL SPACING UNITS)

SPACING - 690952 (201808800) 12/10/2019 - GC2 - (I.O.) 17 & 20-16N-8W

> EST MULTIUNIT HÖRIZONTAL WELL X635442 MSSP 17 & 20-16N-8W

50% 17-16N-8W 50% 20-16N-8W

NEWFIELD EXPLORATION MID-CONTINENT INC

2-5-2019

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 API:073-26646 KINGFISHER _____ County, Oklahoma Township <u>16N</u> Range <u>8W</u> I.M. 250'FSL-2075'FEL 20 Section N 89'37'05" E N 89'36'53" E EXISTING WELL BOTTOM HOLE 2615.56 -8-N-5 2615.56 NAD-27 X 1977860.87 Y 316812.35 NAD-83 X 1946261.71 Y 316836.08 NAD-27 X 1980476.37 Y 316829.78 NAD-83 X 1948877.25 Y 316853.51 NAD-27 X 1975245.37 Y 316794.77 NAD-83 X 1943646.16 Y 316818.49 HARDLINE N 00'18'30" W LAST TAKE POINT-BOTTOM HOLE BOTTOM HOLE 85'FNL-1023'FEL NAD-27 (US FEET) 35'52'12.4"N 98'04'09.6"W 35.870120'N 98.069346"W X 1979454 Y 316738 NAD-83 SEFECTOR 6"N GRID OK NORTH US Feet N 00'14'13" 00'18'30" SCALE: 1" = 1000' 500' NAU-83 35'52'12.6"N 98'04'10.9"W 35.870164'N 98.069681'W X 1947855 Y 316762 NOTES: The information shown herein is for construction purposes NAD-27 X 1975256.27 Y 314159.73 EXISTING WELL NAD-83 X 1943657.09 Y 314183.45 bearings shown are NAD-27, Oklahoma (17)North. Landing Point, Last Take Point, Bottom Hole, and Drill Path information provided by client listed, not surveyed. LAST TAKE POINT 165'FNL-1023'FEL NAD-27 (US FEET) 35'52'11.6'N 98'04'09.6'W 98.069345'W X 1979454 Y 316658 NAD-63 35'52'11.8'N NAD-27 X 1980490.57 Ŷ 314191.56 NAD-83 X 1948891.49 Y 314215.29 SURFACE LOCATION DATUM: NAD-27 35°50'31.3"N LAT: 8'43" 00'28'01" 35°52'11.8"N 98°04'10.8"W 35.869944°N LONG: 98'04'21.6"W LAT: 35.842030°N 00.1 98.069679'W X 1947855 Y 316682 LONG: 98.072670°W STATE PLANE COORDINATES: (US Feet) NAD-27 X 1975277.78 Y 311520.14 NAD-83 X 1943678.64 Y 311543.86 NAD-27 X 1977890.70 Y 311536.70 NAD-83 X 1946291.61 Y 311560.43 NAD-27 X 1980504.94 Y 311553.31 NAD-83 X 1948905.89 Y 311577.05 ZONE: OK NORTH X: 1978461 306514 DATUM: NAD-85 1 AT- 35'50'31.5"N 89 33 2614 29 LONG: 98'04'22.8"W LAT: 35.842075°N 98.073004'W LONG:_ STATE PLANE 00'19'52" COORDINATES: (US Feet) OK NORTH ZONE: 1946862 2633.57 306538 00.51 This information was gathered with a GPS receiver with ±1 foot Horiz./Vert. accuracy. NAD-27 X 1975275.70 Y 308886.58 NAD-27 X 1980521.21 Y 308911.99 NAD-83 X 1943676.60 Y 308910.30 NAD-83 X 1948922.20 Y 308935.72 **CERTIFICATE:** (20)I, Thomas L. Howell an Oklahoma Licensed Land Surveyor and an authorized LANDING POINT
165 FSL - 1023 FEL
NAD-27 (US FEET)
35 50 30.5 N
98 04 08.8 W
98.069121 W
X 1979513
Y 306432
NAD-83
35 50 30.7 N
98.069454 W
X 194914
Y 306456 agent of Topographic Land Surveyors of Oklahoma, do hereby certify to the information shown herein. Oklahoma Lic. No. 1433 DOFESSIONAL 00,00,02, 2388 00.21,04 2641 NAD-27 X 1980537.39 Y 306270.65 NAD-83 X 1948938.43 Y 306294.38 SURV THOMAS L. HOWELL NAD-27 X 1975275.76 Y 306254.06 NAD-27 X 1977906.60 Y 306262.49 PROPOSED PAD 556 1433 EXISTING WELL S 85'34'32" E 1055.15" NAD-83 X 1946307.5 Y 306286.22 074.69 LAHOMA EXISTING WE LANDING SURFACE LOCATION 250'FSL-2075'FEL POINT Date of Drawing: _ 27, 2019 Project # 128211 Date Staked: Sep. 17. 2019 Operator: NEWFIELD EXPLORATION MID-CON INC Lease Name: DAN FED 1608 **ELEVATION:** Well No.:_ 2H-17X 1108' Gr. at Stake (NGVD29) Location fell in grass pasture. Topography & Vegetation 1109' Gr. at Stake (NAVD88) Reference Stakes or Alternate Location Good Drill Site? Stakes Set None From South off county road. Best Accessibility to Location Distance & Direction From Kingfisher, Oklahoma go ±8.5 miles West, then ±1.0 mile South to from Hwy Jct or Town the Southwest corner of Section 20, T16N-R8W