

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

API NUMBER: 073 26646 A

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

Horizontal Hole Oil & Gas
Multi Unit

Amend reason: BHL CHANGE

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 20 Twp: 16N Rge: 8W County: KINGFISHER
SPOT LOCATION: ☐ SE ☐ SW ☐ SW ☐ SE FEET FROM QUARTER: FROM SOUTH FROM EAST
SECTION LINES: 250 2075

Lease Name: DAN FED 1608 Well No: 2H-17X Well will be 250 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
4 WATERWAY AVE STE 100
THE WOODLANDS, TX 77380-2764

SHELLI YOST SCHROEDER AND JEREMY SCHROEDER
2726 OVERCREST LANE
SAPULPA OK 74006

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	8628	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 635442 Location Exception Orders: 690953 Increased Density Orders: 689313
690952 695482 689870

Pending CD Numbers:

Special Orders:

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

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

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 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

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

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.

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 NE NW NE

Feet From: NORTH 1/4 Section Line: 85

Feet From: EAST 1/4 Section Line: 1880

Depth of Deviation: 8175

Radius of Turn: 542

Direction: 360

Total Length: 10223

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:
OCCWEB.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.

073 26646 DAN FED 1608 2H-17X

The duration of this permit is 18 MONTHS, except as otherwise provided by Rule 165: 10-3-1.

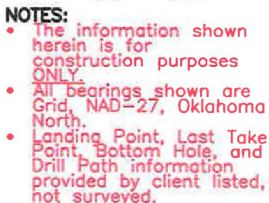
Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation Division as to when Surface Casing will be run.

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
MEMO	12/3/2019 - G71 - PIT 1 & 2 - CLOSED SYSTEM = STEEL PITS (REQUIRED - KINGFISHER 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
SPACING - 635442	12/10/2019 - GC2 - (640)(HOR) 17 & 20-16N-8W 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 HORIZONTAL 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

County, Oklahoma

250' FSL-2075' FEL Section 20 Township 16N Range 8W I.M.



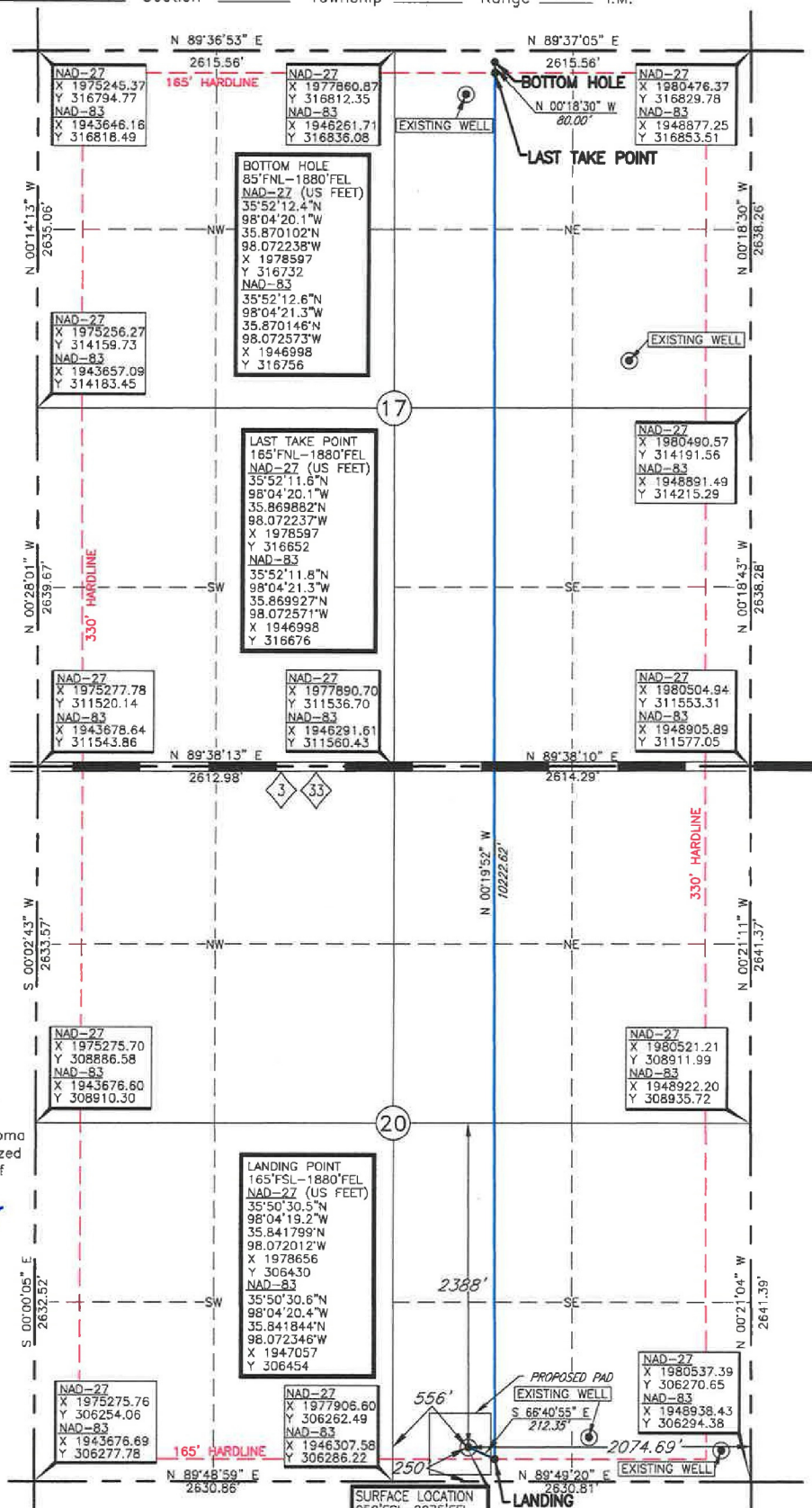
DATUM: NAD-27
LAT: 35°50'31.3"N
LONG: 98°04'21.6"W
LAT: 35.842030°N
LONG: 98.072670°W
STATE PLANE
COORDINATES: (US Feet)
ZONE: OK NORTH
X: 1978461
Y: 306514

DATUM: NAD-83
LAT: 35°50'31.5"N
LONG: 98°04'22.8"W
LAT: 35.842075°N
LONG: 98.073004°W
STATE PLANE
COORDINATES: (US Feet)
ZONE: OK NORTH
X: 1946862
Y: 306538

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

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



Revision ☒ 1 Date of Drawing: Dec. 16, 2019

Project # 128211 Date Staked: Sep. 17, 2019 LC/KH

Operator: NEWFIELD EXPLORATION MID-CON INC

Lease Name: DAN FED 1608

Well No.: 2H-17X

Topography & Vegetation Location fell in grass pasture.

Good Drill Site? Yes

Reference Stakes or Alternate Location

Best Accessibility to Location From South off county road.

Distance & Direction _____
from Hwy Jct or Town _____ From Kingfisher, Oklahoma go ± 8.5 miles West, then ± 1.0 mile South to
the Southwest corner of Section 20, T16N-R8W.

ELEVATION:

1108' Gr. at Stake (NGVD29)
1109' Gr. at Stake (NAVD88)

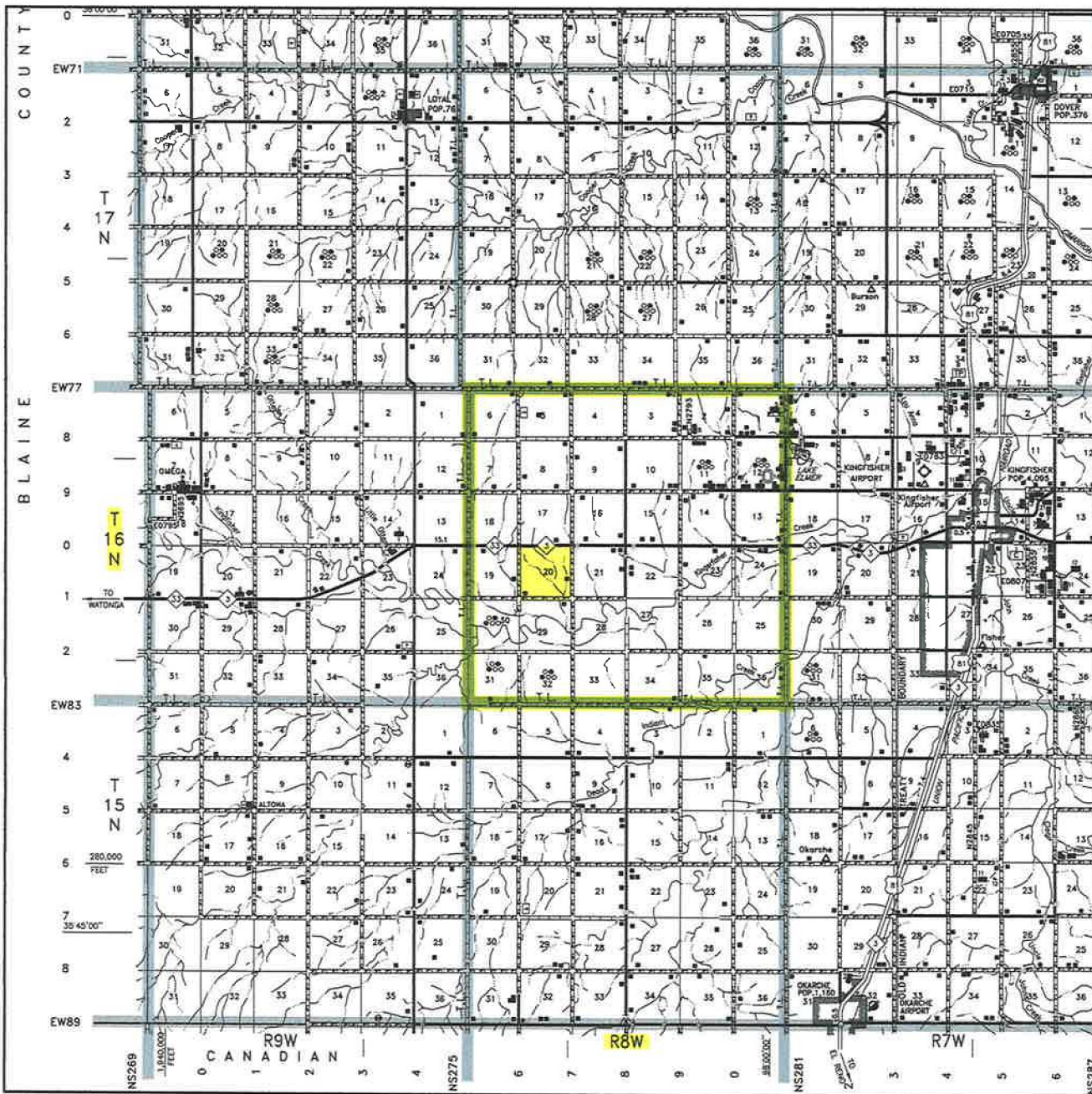
TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

Surveying and Mapping for the Energy Industry

13800 Wireless Way, Oklahoma City, OK 73134 www.topographic.com

Telephone Numbers: Local (405) 843-4847 Toll Free (800) 654-3219

VICINITY MAP



NOTES:

- The information shown herein is for construction purposes ONLY.

Scale: 1" = 3 Miles

Sec. 20 Twp. 16N Rng. 8W I.M.

County KINGFISHER State OK

Operator NEWFIELD EXPLORATION MID-CON INC



LAND SURVEYORS OF OKLAHOMA