

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

API NUMBER: 073 26503 A

Approval Date: 03/20/2019
Expiration Date: 09/20/2020

Horizontal Hole Oil & Gas
Multi Unit

Amend reason: CHANGE SHL & BHL

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 13 Twp: 16N Rge: 9W County: KINGFISHER
SPOT LOCATION: NE NE NW NE FEET FROM QUARTER: FROM NORTH FROM EAST
SECTION LINES: 265 1580

Lease Name: ALAN 1609 Well No: 5H-13X Well will be 265 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

ROBERT G. BOECKMAN, LLC
5892 E. 790 RD.
KINGFISHER OK 73750

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN (LESS CHESTER)	8723	6	
2 WOODFORD	9849	7	
3		8	
4		9	
5		10	

Spacing Orders: 636113	Location Exception Orders: 687919	Increased Density Orders: 686477
687918	686479	686478
704629	705012	
	704630	

Pending CD Numbers:

Special Orders:

Total Depth: 19168 Ground Elevation: 1176 **Surface Casing: 1500** Depth to base of Treatable Water-Bearing FM: 390

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 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

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 19-37118

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 AP/TE DEPOSIT

Pit Location Formation: TERRACE

HORIZONTAL HOLE 1

Sec 24 Twp 16N Rge 9W County KINGFISHER

Spot Location of End Point: SE SW SW SE

Feet From: SOUTH 1/4 Section Line: 85

Feet From: EAST 1/4 Section Line: 2307

Depth of Deviation: 8347

Radius of Turn: 382

Direction: 185

Total Length: 10221

Measured Total Depth: 19168

True Vertical Depth: 9849

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

Notes:

Category

Description

DEEP SURFACE CASING

2/8/2019 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY FOR ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON CONDUCTOR OR SURFACE CASING

EXCEPTION TO RULE - 686479

11/27/2019 - G56 - (I.O.) 13 & 24-16N-9W
X165:10-3-28(C)(2)(B) MSNLC (ALAN 1609 5H-13X)
MAY BE CLOSER THAN 600' TO EXISTING/PROPOSED WELL
NEWFIELD EXPLOR. MID-CONT. INC.
11-9-2018

EXCEPTION TO RULE - 705012

11/27/2019 - G56 - EXTENSION OF TIME FOR ORDER # 686479

HYDRAULIC FRACTURING

2/8/2019 - 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

INCREASED DENSITY - 686477

11/27/2019 - G56 - 13-16N-9W
X636113 MSNLC
6 WELLS
NEWFIELD EXPLOR. MID-CONT. INC.
11-9-2018

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.

073 26503 ALAN 1609 5H-13X

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 - 686478	11/27/2019 - G56 - 24-16N-9W X636113 MSNLC 6 WELLS NEWFIELD EXPLOR. MID-CONT. INC. 11-9-2018
INTERMEDIATE CASING	2/8/2019 - 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 - 687919	11/27/2019 - G56 - (I.O.) 13 & 24-16N-9W X636113 MSNLC, WDFD COMPL. INT. (13-16N-9W) NCT 165' FNL, NCT 0' FSL, NCT 1320' FEL COMPL. INT. (24-16N-9W) NCT 0' FNL, NCT 165' FSL, NCT 1320' FEL NEWFIELD EXPLOR. MID-CONT. INC. 12-7-2018
LOCATION EXCEPTION - 704630	11/27/2019 - G56 - EXTENSION OF TIME FOR ORDER # 687919
MEMO	11/22/2019 - G71 - PIT 1 & 2 - CLOSED SYSTEM = STEEL PITS PER OPERATOR REQUEST, 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 - 636113	11/27/2019 - G56 - (640)(HOR) 13 & 24-16N-9W VAC 100728 MSSLM 24-16N-9W VAC 244336 MSSLM N2 & SE4 13-16N-9W VAC 244336/487716 MSSLM SW4 13-16N-9W EXT 631057 WDFD EST MSNLC POE TO BHL (MSNLC) NCT 660' FB POE TO BHL (WDFD) NCT 165' FNL & FSL, NCT 330' FEL & FWL
SPACING - 687918	11/27/2019 - G56 - (I.O.) 13 & 24-16N-9W EST MULTIUNIT HORIZONTAL WELL X636113 MSNLC, WDFD (WDFD ADJACENT COMMON SOURCE OF SUPPLY TO MSNLC) 50% 13-16N-9W 50% 24-16N-9W NEWFIELD EXPLOR. MID-CONT. INC. 12-7-2018
SPACING - 704629	11/27/2019 - G56 - EXTENSION OF TIME FOR ORDER # 687918

073-26503A

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

265'FNL-1580'FEL Section 13 Township 16N Range 9W I.M.



GRID OK NORTH US Feet

SCALE: 1" = 1000'



NOTES:

- The information shown herein is for construction purposes ONLY.
- 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°52'10.1"N
 LONG: 98°06'20.0"W
 STATE PLANE COORDINATES: (US Feet)
 ZONE: OK NORTH
 X: 1968721
 Y: 316510

DATUM: NAD-83
 LAT: 35°52'10.2"N
 LONG: 98°06'21.3"W
 STATE PLANE COORDINATES: (US Feet)
 ZONE: OK NORTH
 X: 1937122
 Y: 316534

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

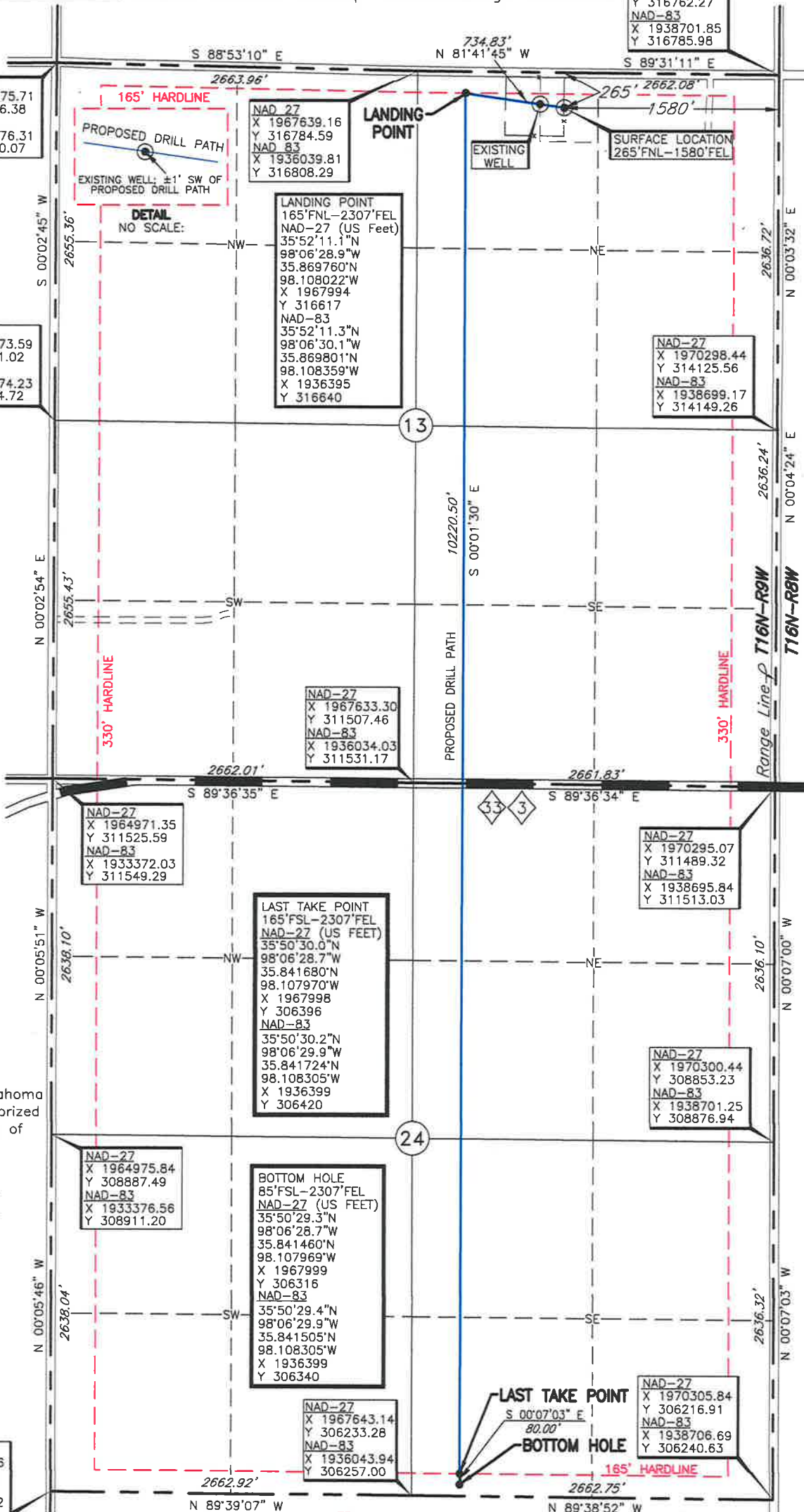
CERTIFICATE:

I, T. WAYNE FISCH an Oklahoma Licensed Land Surveyor and an authorized agent of Topographic Land Surveyors of Oklahoma, do hereby certify to the information shown herein.

T. Wayne Fisch
Oklahoma Lic. No. 1378



NAD-27
 X 1964980.26
 Y 306249.46
 NAD-83
 X 1933381.02
 Y 306273.16



Revision 2 Date of Drawing: November 14, 2019

Project # 128205 Date Staked: July 26, 2019 KH

Operator: NEWFIELD EXPLORATION MID-CON INC.

Lease Name: ALAN 1609

Well No.: 5H-13X

Topography & Vegetation Loc. fell in sloped field on East side of pad fence; ±181' SE of Existing Well

Good Drill Site? Yes Reference Stakes or Alternate Location Stakes Set None

Best Accessibility to Location From North off county road.

Distance & Direction From Hwy Jct or Town From Jct. of US Hwy. 81 N-S and St. Hwy. 33 E-W, go ±9.7 mi. West on St. Hwy. 33, then ±1.0 mi. North to the NE Cor. of Sec. 13-T16N-R9W.

ELEVATION:

1176' Gr. at Stake (NGVD29)
1176' Gr. at Stake (NAVD88)