API NUMBER: 073 26505 С

Oil & Gas

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

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

Horizontal Hole Multi Unit

Amend reason: UPDATE BHL

AMEND PERMIT TO DRILL

WELL LOCATION:	Sec:	13	Twp:	16N	Rge:	9W	County	: KING	FISHER		
SPOT LOCATION:	NE	NE	NV	N	NE		FEET FROM QUARTER:	FROM	NORTH	FROM	EAST
							SECTION LINES:		265		1560
Lease Name: A	LAN 160	9					We	ell No:	6H-13X		

NEWFIELD EXPLORATION MID-CON INC Operator Telephone: 2812105100; 9188781

OTC/OCC Number: 20944 0

Well will be 265 feet from nearest unit or lease boundary.

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)	8709	6		
2	WOODFORD	9834	7		
3			8		
4			9		
5			10		
Spacing Orders:	636113	Location Exception Orders:	687810 686479 704632		Increased Density Orders:
	687920				
	704631				
			705012		

Pending CD Numbers: 201905778 Special Orders:

201905779

Total Depth: 19082 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

Approved Method for disposal of Drilling Fluids: 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 AP/TE DEPOSIT Pit Location Formation: TERRACE

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

H. SEE MEMO

E. Haul to Commercial pit facility: Sec. 31 Twn. 12N Rng. 8W Cnty. 17 Order No: 587498

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: SW SW SE SE
Feet From: SOUTH 1/4 Section Line: 85
Feet From: EAST 1/4 Section Line: 1252

Depth of Deviation: 8263
Radius of Turn: 715
Direction: 177

Total Length: 10218

Measured Total Depth: 19082
True Vertical Depth: 9834
End Point Location from Lease,
Unit, or Property Line: 85

Notes:

Category Description

DEEP SURFACE CASING 3/19/2019 - 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 1/17/2020 - G56 - (I.O.) 13 & 24-16N-9W

X165:10-3-28(C)(2)(B) MSNLC (ALAN 1609 6H-13X)

MAY BE CLOSER THAN 600' TO EXISTING/PROPOSED WELL

NEWFIELD EXPLOR. MID-CONT. INC.

11-9-2018

EXCEPTION TO RULE - 705012 1/17/2020 - G56 - EXTENSION OF TIME FOR ORDER # 686479

HYDRAULIC FRACTURING 3/19/2019 - 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

INTERMEDIATE CASING

3/19/2019 - 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

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 26505 ALAN 1609 6H-13X

LOCATION EXCEPTION - 687810 1/17/2020 - G56 - (I.O.) 13 & 24-16N-9W

X636113 MSNLC, WDFD

COMPL. INT. (13-16N-9W) NCT 165' FNL, NCT 0' FSL, NCT 990' FEL COMPL. INT. (24-16N-9W) NCT 0' FNL, NCT 165' FSL, NCT 990' FEL

NEWFIELD EXPLOR. MID-CONT. INC.

12-6-2018

LOCATION EXCEPTION - 704632 1/17/2020 - G56 - EXTENSION OF TIME FOR ORDER # 687810

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

PENDING CD - 201905778 1/17/2020 - G56 - 13-16N-9W

X636113 MSNLC 6 WELLS

NO OP NAMED REC 12/30/2019 (MOORE)

PENDING CD - 201905779 1/17/2020 - G56 - 24-16N-9W

X636113 MSNLC 6 WELLS NO OP NAMED

REC 12/30/2019 (MOORE)

SPACING - 636113 1/17/2020 - 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 - 687920 1/17/2020 - G56 - (I.O.) 13 & 24-16N-9W

EST MULTIUNIT HORÍZONTAL WELL

X636113 MSNLC, WDFD

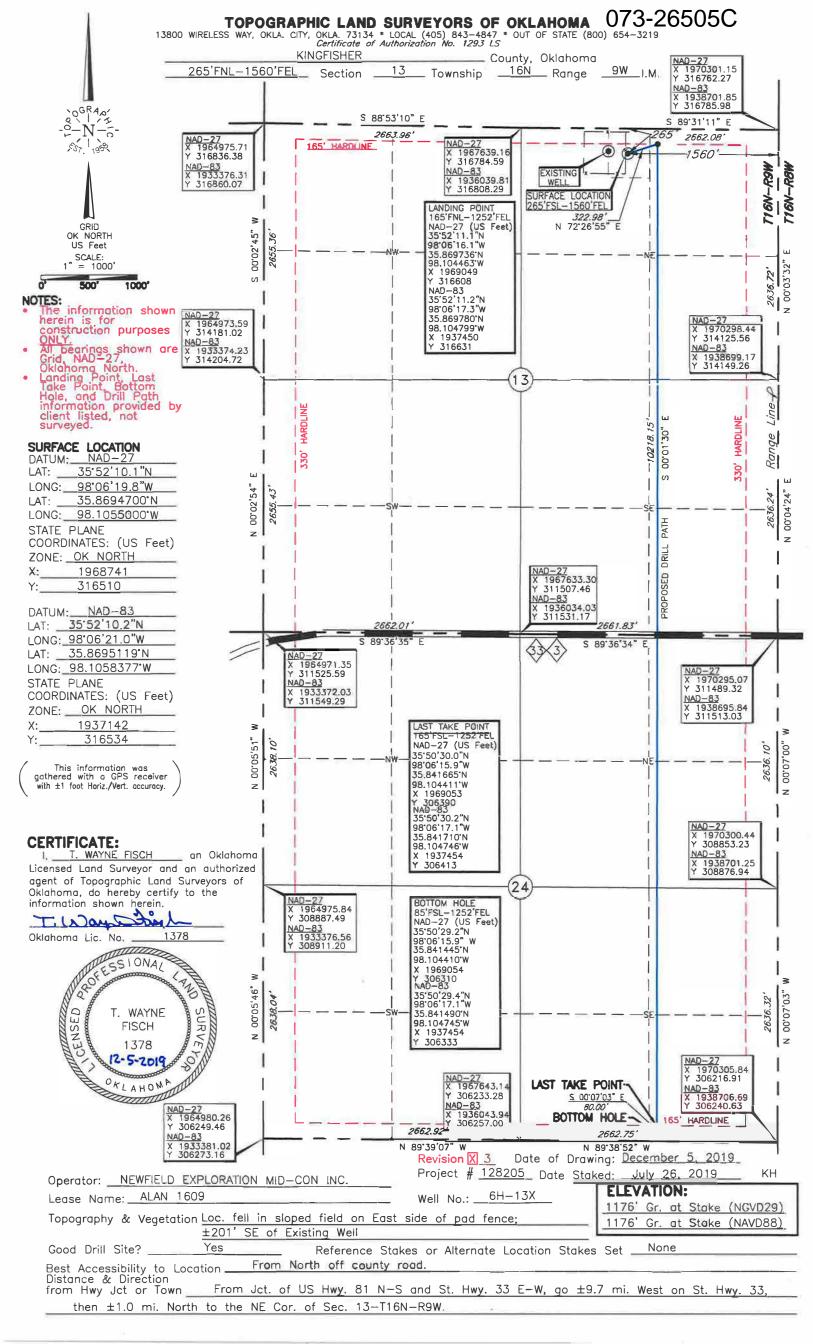
(WDFD ADJACENT COMMON SOURCE OF SUPPLY TO MSNLC)

50% 13-16N-9W 50% 24-16N-9W

NEWFIELD EXPLOR. MID-CONT. INC.

12-7-2018

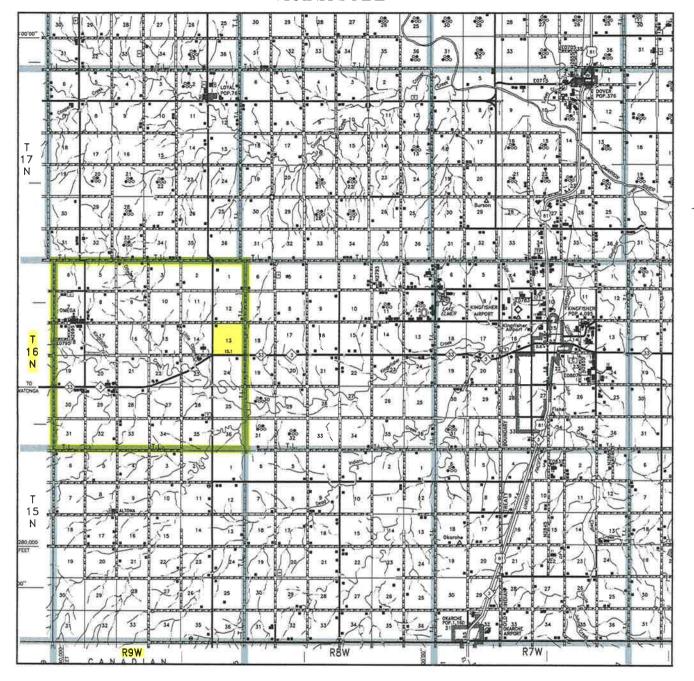
SPACING - 704631 1/17/2020 - G56 - EXTENSION OF TIME FOR ORDER # 687920



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



Scale: 1" = 3 Miles

OGRAD

1959

Sec. 13 Twp. 16N Rng. 9W I.M.

County KINGFISHER State OK

Operator NEWFIELD EXPLORATION MID—CON INC.



NEWFIELD EXPLORATION MID-CON INC

ALAN 5H, 6H, & 7H PAD

LOCATION DESCRIPTION:

SECTION 13, T16N - R9W

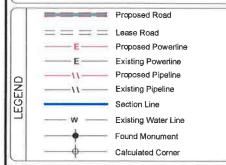
KINGFISHER COUNTY, OKLAHOMA

SPECIAL NOTES:

PROPOSED FINAL CONTOURS PLAT

Original Document Size: 8.5"x14"

All Coordinates are in NAD 83 OK NORTH Zone unless otherwise noted.



Scale: 1"=100'

COGO:

Revision: 3

KH 12-5-2019

Drawn By:

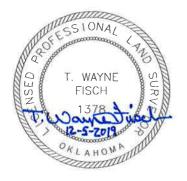
AC 07-25-2019

Surveyed: 07-19-2019



13800 WIRELESS WAY • OKLAHOMA CITY, OKLAHOMA 73134 TELEPHONE: (405) 843-4847 OR (800) 654-3219 • FAX (405) 843-0975 CERTIFICATE OF AUTHORIZATION NO. 1293 LS WWW.TOPOGRAPHIC.COM

FILE NAME: ALAN 1609 5H PAD_REV3



Topographic Survey Certification

I, T. Wayne Fisch, certify that this project was completed under my direct and responsible charge from an actual survey made under my supervision and that this ground survey was performed at the 95 percent confidence level to meet Federal Geographic Data Committee Standards; that this survey was performed to meet the Specifications for Topographic and Planimetric Mapping contained in the Oklahoma Minimum Standards for the Practice of Land Surveying as adopted by the Oklahoma State Board of Licensure for Professional Engineers and Land Surveyors. The original data was obtained on 7/19/2019; the survey was completed on 7/19/2019; the contours shown as even feet may not meet the stated standard; all coordinates are based on Oklahoma North Zone, NAD-83, adjusted to an OPUS solution(s), and all elevations are based on NAVD-88 Datum

CONTROL SURVEY CERTIFICATION

I, T. Wayne Fisch, certify that this horizontal/vertical control survey was completed under my direct and responsible charge from an actual survey made under my supervision and meets the Oklahoma Minimum Standards for the Practice of Land Surveying as adopted by the Oklahoma State Board of Licensure for Professional Engineers and Land Surveyors.

Control Notes:

- All horizontal coordinate values are shown in U.S. Survey feet and all vertical elevation values are shown in feet.
- All control points are based on initial control. Control Point(s) was (were) used as the basis of horizontal and vertical control. Control Point(s) to be used as the basis of bearing.
- All bearings are based on State Plane Coordinates, Oklahoma North Zone, NAD-83, established by OPUS solution(s). Distances shown are grid distances, All field measurements and angles applied to control points were made with a Trimble R10, GNSS Observer. Horizontal accuracy is 0.25 m+1ppm RMS. Vertical accuracy is 0.5m+1ppm RMS.
- All elevations of control points are based on initial elevation of OPUS solutions in NAVD-88. All elevations are determined by a Trimble R10, GNSS Observer. Horizontal accuracy is 0.25 m+1ppm RMS. Vertical accuracy is 0.5m+1ppm RMS.
- All control points were set and observed on 7/19/2019 and adjusted to final coordinates on 7/19/2019.

