

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 C

Approval Date: 03/20/2019

Expiration Date: 09/20/2020

Horizontal Hole Oil & Gas  
Multi Unit

Amend reason: UPDATE 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 NEWFIELD EXPLORATION MID-CON INC  
Name:

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  
687918  
704629

Location Exception Orders: 687919  
686479  
705012  
704630

Increased Density Orders:

Pending CD Numbers: 201905778  
201905779

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**

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 AP/TE DEPOSIT

Pit Location Formation: TERRACE

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: 2124

Depth of Deviation: 8347

Radius of Turn: 715

Direction: 184

Total Length: 10220

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

1/17/2020 - 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

1/17/2020 - 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:  
[OCCWEB.COM/OG/OGFORMS.HTML](http://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](http://FRACFOCUS.ORG)

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

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

073 26503 ALAN 1609 5H-13X

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.

LOCATION EXCEPTION - 687919	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 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	1/17/2020 - 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
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 - 687918	1/17/2020 - 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	1/17/2020 - G56 - EXTENSION OF TIME FOR ORDER # 687918

# TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

073-26503C

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  
LAT: 35.869470°N  
LONG: 98.105567°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  
LAT: 35.869512°N  
LONG: 98.105905°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 on 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

NAD-27  
X 1967643.14  
Y 306233.28  
NAD-83  
X 1936043.94  
Y 306257.00

NAD-27  
X 1970305.84  
Y 306216.91  
NAD-83  
X 1938706.69  
Y 306240.63

BOTTOM HOLE  
85'FSL-2124'FEL  
NAD-27 (US FEET)  
35°50'29.2"N  
98°06'26.5"W  
35.841457°N  
98.107352°W  
X 1968182  
Y 306315  
NAD-83  
35°50'29.4"N  
98°06'27.7"W  
35.841502°N  
98.107687°W  
X 1936582  
Y 306339

LAST TAKE POINT  
165'FSL-2124'FEL  
NAD-27 (US FEET)  
35°50'30.0"N  
98°06'26.5"W  
35.841677°N  
98.107353°W  
X 1968181  
Y 306395  
NAD-83  
35°50'30.2"N  
98°06'27.7"W  
35.841722°N  
98.107688°W  
X 1936582  
Y 306419

NAD-27  
X 1964975.84  
Y 308887.49  
NAD-83  
X 1933376.56  
Y 308911.20

NAD-27  
X 1970295.07  
Y 311489.32  
NAD-83  
X 1938695.84  
Y 311513.03

NAD-27  
X 1967633.30  
Y 311507.46  
NAD-83  
X 1936034.03  
Y 311531.17

NAD-27  
X 1964973.59  
Y 314181.02  
NAD-83  
X 1933374.23  
Y 314204.72

NAD-27  
X 1967639.16  
Y 316784.59  
NAD-83  
X 1936039.81  
Y 316808.29

NAD-27  
X 1970301.15  
Y 316762.27  
NAD-83  
X 1938701.85  
Y 316785.98

NAD-27  
X 1964975.71  
Y 316836.38  
NAD-83  
X 1933376.31  
Y 316860.07

LANDING POINT  
165'FNL-2124'FEL  
NAD-27 (US Feet)  
35°52'11.1"N  
98°06'26.7"W  
35.869754°N  
98.107406°W  
X 1968177  
Y 316615  
NAD-83  
35°52'11.3"N  
98°06'27.9"W  
35.869798°N  
98.107742°W  
X 1936578  
Y 316639

NAD-27  
X 1970298.44  
Y 314125.56  
NAD-83  
X 1938699.17  
Y 314149.26

NAD-27  
X 1967639.16  
Y 316784.59  
NAD-83  
X 1936039.81  
Y 316808.29

165' HARDLINE  
PROPOSED DRILL PATH  
EXISTING WELL: ±9' SW OF PROPOSED DRILL PATH  
DETAIL  
NO SCALE:

LANDING POINT

EXISTING WELL

SURFACE LOCATION  
265'FNL-1580'FEL

LAST TAKE POINT  
165'FSL-2124'FEL  
NAD-27 (US FEET)  
35°50'30.0"N  
98°06'26.5"W  
35.841677°N  
98.107353°W  
X 1968181  
Y 306395  
NAD-83  
35°50'30.2"N  
98°06'27.7"W  
35.841722°N  
98.107688°W  
X 1936582  
Y 306419

BOTTOM HOLE  
85'FSL-2124'FEL  
NAD-27 (US FEET)  
35°50'29.2"N  
98°06'26.5"W  
35.841457°N  
98.107352°W  
X 1968182  
Y 306315  
NAD-83  
35°50'29.4"N  
98°06'27.7"W  
35.841502°N  
98.107687°W  
X 1936582  
Y 306339

NAD-27  
X 1964975.84  
Y 308887.49  
NAD-83  
X 1933376.56  
Y 308911.20

NAD-27  
X 1970295.07  
Y 311489.32  
NAD-83  
X 1938695.84  
Y 311513.03

NAD-27  
X 1967633.30  
Y 311507.46  
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NAD-27  
X 1964973.59  
Y 314181.02  
NAD-83  
X 1933374.23  
Y 314204.72

NAD-27  
X 1967639.16  
Y 316784.59  
NAD-83  
X 1936039.81  
Y 316808.29

NAD-27  
X 1970301.15  
Y 316762.27  
NAD-83  
X 1938701.85  
Y 316785.98

NAD-27  
X 1964975.71  
Y 316836.38  
NAD-83  
X 1933376.31  
Y 316860.07

LANDING POINT  
165'FNL-2124'FEL  
NAD-27 (US Feet)  
35°52'11.1"N  
98°06'26.7"W  
35.869754°N  
98.107406°W  
X 1968177  
Y 316615  
NAD-83  
35°52'11.3"N  
98°06'27.9"W  
35.869798°N  
98.107742°W  
X 1936578  
Y 316639

NAD-27  
X 1970298.44  
Y 314125.56  
NAD-83  
X 1938699.17  
Y 314149.26

NAD-27  
X 1967639.16  
Y 316784.59  
NAD-83  
X 1936039.81  
Y 316808.29

165' HARDLINE  
PROPOSED DRILL PATH  
EXISTING WELL: ±9' SW OF PROPOSED DRILL PATH  
DETAIL  
NO SCALE:

LANDING POINT

EXISTING WELL

SURFACE LOCATION  
265'FNL-1580'FEL

LAST TAKE POINT  
165'FSL-2124'FEL  
NAD-27 (US FEET)  
35°50'30.0"N  
98°06'26.5"W  
35.841677°N  
98.107353°W  
X 1968181  
Y 306395  
NAD-83  
35°50'30.2"N  
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98.107688°W  
X 1936582  
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85'FSL-2124'FEL  
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35°50'29.2"N  
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35.841457°N  
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X 1968182  
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NAD-83  
35°50'29.4"N  
98°06'27.7"W  
35.841502°N  
98.107687°W  
X 1936582  
Y 306339

NAD-27  
X 1964975.84  
Y 308887.49  
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35°52'11.1"N  
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LANDING POINT

EXISTING WELL

SURFACE LOCATION  
265'FNL-1580'FEL

LAST TAKE POINT  
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NAD-83  
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NAD-27  
X 1970295.07  
Y 311489.32  
NAD-83  
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NAD-27  
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X 1970298.44  
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X 1938699.17  
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NAD-83  
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Y 316808.29

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PROPOSED DRILL PATH  
EXISTING WELL: ±9' SW OF PROPOSED DRILL PATH  
DETAIL  
NO SCALE:

LANDING POINT

EXISTING WELL

SURFACE LOCATION  
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Y 306395  
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X 1968182  
Y 306315  
NAD-83  
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35.841502°N  
98.107687°W  
X 1936582  
Y 306339

NAD-27  
X 1964975.84  
Y 308887.49  
NAD-83  
X 1933376.56  
Y 308911.20

NAD-27  
X 1970295.07  
Y 311489.32  
NAD-83  
X 1938695.84  
Y 311513.03

NAD-27  
X 1967633.30  
Y 311507.46  
NAD-83  
X 1936034.03  
Y 311531.17

NAD-27  
X 1964973.59  
Y 314181.02  
NAD-83  
X 1933374.23  
Y 314204.72

NAD-27  
X 1967639.16  
Y 316784.59  
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X 1936039.81  
Y 316808.29

NAD-27  
X 1970301.15  
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X 1938701.85  
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NAD-27  
X 1964975.71  
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X 1933376.31  
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Y 316615  
NAD-83  
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35.869798°N  
98.107742°W  
X 1936578  
Y 316639

NAD-27  
X 1970298.44  
Y 314125.56  
NAD-83  
X 1938699.17  
Y 314149.26

NAD-27  
X 1967639.16  
Y 316784.59  
NAD-83  
X 1936039.81  
Y 316808.29

165' HARDLINE  
PROPOSED DRILL PATH  
EXISTING WELL: ±9' SW OF PROPOSED DRILL PATH  
DETAIL  
NO SCALE:

LANDING POINT

EXISTING WELL

SURFACE LOCATION  
265'FNL-1580'FEL

LAST TAKE POINT  
165'FSL-2124'FEL  
NAD-27 (US FEET)  
35°50'30.0"N  
98°06'26.5"W  
35.841677°N  
98.107353°W  
X 1968181  
Y 306395  
NAD-83  
35°50'30.2"N  
98°06'27.7"W  
35.841722°N  
98.107688°W  
X 1936582  
Y 306419

BOTTOM HOLE  
85'FSL-2124'FEL  
NAD-27 (US FEET)  
35°50'29.2"N  
98°06'26.5"W  
35.841457°N  
98.107352°W  
X 1968182  
Y 306315  
NAD-83  
35°50'29.4"N  
98°06'27.7"W  
35.841502°N  
98.107687°W  
X 1936582  
Y 306339

NAD-27  
X 1964975.84  
Y 308887.49  
NAD-83  
X 1933376.56  
Y 308911.20

NAD-27  
X 1970295.07  
Y 311489.32  
NAD-83  
X 1938695.84  
Y 311513.03

NAD-27  
X 1967633.30  
Y 311507.46  
NAD-83  
X 1936034.03  
Y 311531.17

NAD-27  
X 1964973.59  
Y 314181.02  
NAD-83  
X 1933374.23  
Y 314204.72

NAD-27  
X 1967639.16  
Y 316784.59  
NAD-83  
X 1936039.81  
Y 316808.29

NAD-27  
X 1970301.15  
Y 316762.27  
NAD-83  
X 1938701.85  
Y 316785.98

NAD-27  
X 1964975.71  
Y 316836.38  
NAD-83  
X 1933376.31  
Y 316860.07

LANDING POINT  
165'FNL-2124'FEL  
NAD-27 (US Feet)  
35°52'11.1"N  
98°06'26.7"W  
35.869754°N  
98.107406°W  
X 1968177  
Y 316615  
NAD-83  
35°52'11.3"N  
98°06'27.9"W  
35.869798°N  
98.107742°W  
X 1936578  
Y 316639

NAD-27  
X 1970298.44  
Y 314125.56  
NAD-83  
X 1938699.17  
Y 314149.26

NAD-27  
X 1967639.16  
Y 316784.59  
NAD-83  
X 1936039.81  
Y 316808.29

165' HARDLINE  
PROPOSED DRILL PATH  
EXISTING WELL: ±9' SW OF PROPOSED DRILL PATH  
DETAIL  
NO SCALE:

LANDING POINT

EXISTING WELL

SURFACE LOCATION  
265'FNL-1580'FEL

LAST TAKE POINT  
165'FSL-2124'FEL  
NAD-27 (US FEET)  
35°50'30.0"N  
98°06'26.5"W  
35.841677°N  
98.107353°W



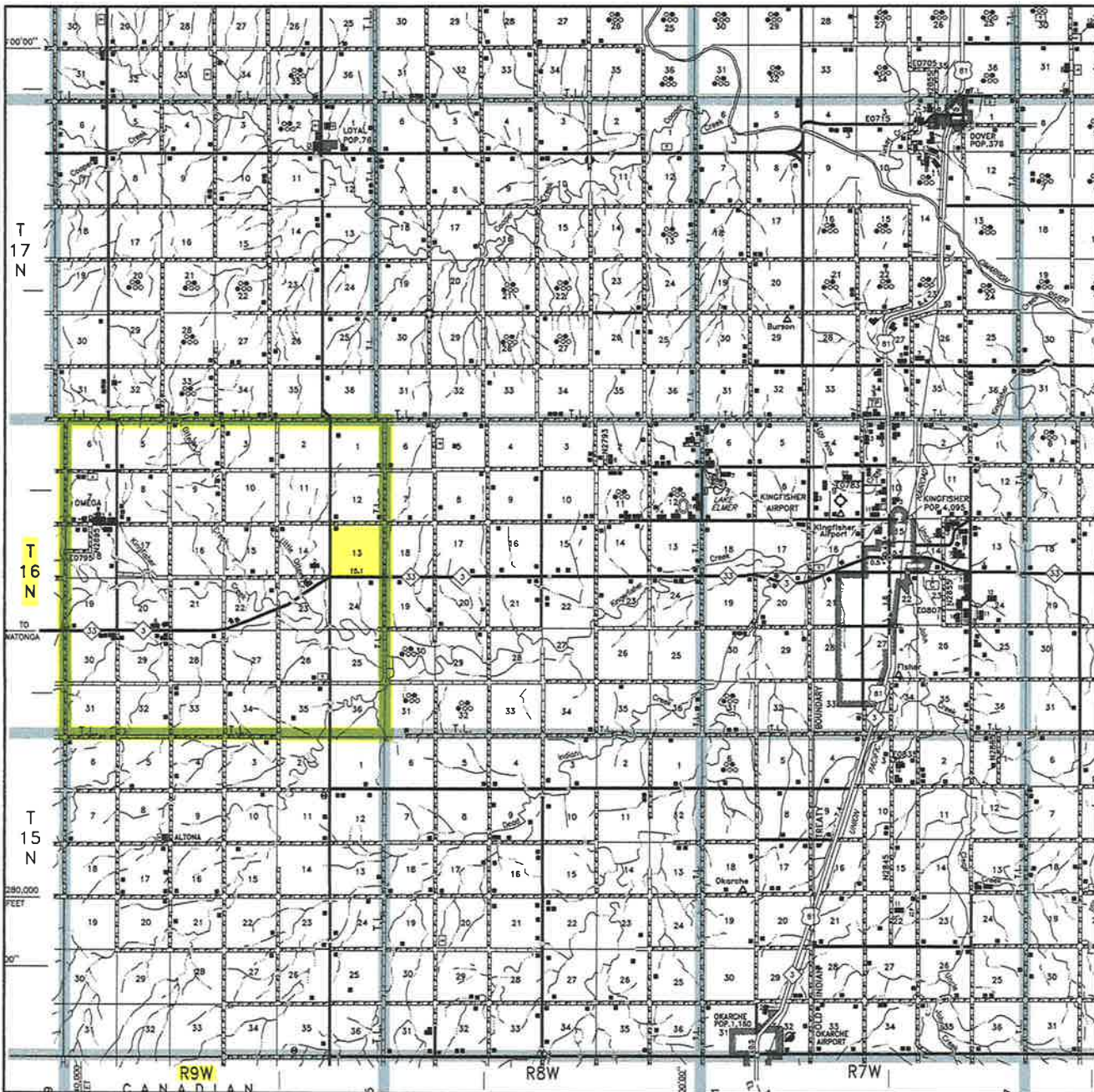
# TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

*Surveying and Mapping for the Energy Industry*

13800 Wireless Way Oklahoma City, OK 73134 [www.topographic.com](http://www.topographic.com)

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

## VICINITY MAP



Scale: 1" = 3 Miles

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

County KINGFISHER State OK

Operator NEWFIELD EXPLORATION MID-CON INC.



**TOPOGRAPHIC**  
LOYALTY INNOVATION LEGACY

**LAND SURVEYORS OF OKLAHOMA**



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.

LEGEND

- Proposed Road  
Lease Road  
Proposed Powerline  
Existing Powerline  
Proposed Pipeline  
Existing Pipeline  
Section Line  
Existing Water Line  
Found Monument  
Calculated Corner

Scale: 1"=100' Surveyed: 07-19-2019

COGO:

Revision: 3 KH 12-5-2019

Drawn By: AC 07-25-2019



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

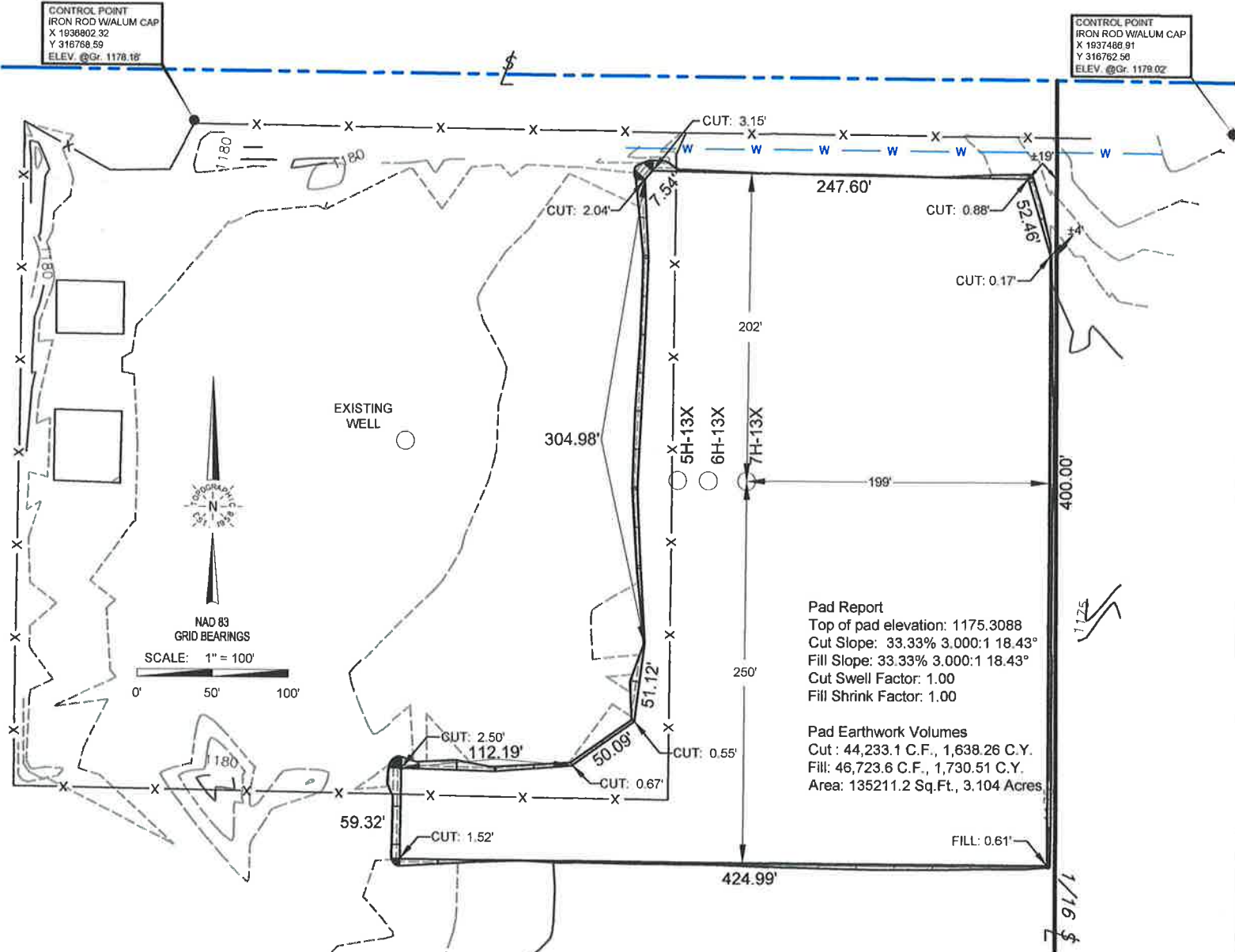
I, T. Wayne Fisch, certify that this project was completed under my direct and responsible charge from an actual survey made under my supervision and that this ground survey was performed at the 95 percent confidence level to meet Federal Geographic Data Committee Standards; that this survey was performed 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.



ALAN 5H-13X

COORDINATES:

NAD 83 OK NORTH ZONE:  
X = 1937122 Y = 316534  
LAT.: 35°52'10.2"N LONG.: 98°06'21.3"W  
LAT.: 35.8695121°N LONG.: 98.1059050°W

SURVEY LINE PERPENDICULARS:  
265' FNL & 1580' FEL

ALAN 6H-13X

COORDINATES:

NAD 83 OK NORTH ZONE:  
X = 1937142 Y = 316534  
LAT.: 35°52'10.2"N LONG.: 98°06'21.0"W  
LAT.: 35.8695119°N LONG.: 98.1058377°W

SURVEY LINE PERPENDICULARS:  
265' FNL & 1560' FEL

ALAN 7H-13X

COORDINATES:

NAD 83 OK NORTH ZONE:  
X = 1937167 Y = 316534  
LAT.: 35°52'10.2"N LONG.: 98°06'20.7"W  
LAT.: 35.8695114°N LONG.: 98.1057536°W

SURVEY LINE PERPENDICULARS:  
265' FNL & 1535' FEL

Pad Report  
Top of pad elevation: 1175.3088  
Cut Slope: 33.33% 3.000:1 18.43°  
Fill Slope: 33.33% 3.000:1 18.43°  
Cut Swell Factor: 1.00  
Fill Shrink Factor: 1.00

Pad Earthwork Volumes  
Cut : 44,233.1 C.F., 1,638.26 C.Y.  
Fill: 46,723.6 C.F., 1,730.51 C.Y.  
Area: 135211.2 Sq.Ft., 3.104 Acres