

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

API NUMBER: 073 26505

Approval Date: 03/20/2019

Expiration Date: 09/20/2020

Horizontal Hole
Oil & Gas
Multi Unit

PERMIT TO DRILL

WELL LOCATION: Sec: 13 Twp: 16N Rge: 9W County: KINGFISHER

SPOT LOCATION: ☐ NW ☐ NE ☐ NW ☐ NE FEET FROM QUARTER: FROM NORTH FROM EAST

SECTION LINES: 215 1820

Lease Name: ALAN 1609 Well No: 6H-13X Well will be 215 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 SQUARE PL 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)	9258	6	
2	WOODFORD	9834	7	
3			8	
4			9	
5			10	

Spacing Orders: 636113
687920

Location Exception Orders: 687810
686479

Increased Density Orders: 686477
686478

Pending CD Numbers:

Special Orders:

Total Depth: 20000

Ground Elevation: 1178

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 400

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

H. SEE MEMO

Is depth to top of ground water greater than 10ft below base of pit? Y

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

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

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

The duration of this permit is SIX 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: SW SW SE SE

Feet From: SOUTH 1/4 Section Line: 85

Feet From: EAST 1/4 Section Line: 1123

Depth of Deviation: 8947

Radius of Turn: 477

Direction: 175

Total Length: 10304

Measured Total Depth: 20000

True Vertical Depth: 9999

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

3/19/2019 - G75 - (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

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

INCREASED DENSITY - 686477

3/19/2019 - G75 - 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.

073 26505 ALAN 1609 6H-13X

The duration of this permit is SIX 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.

Category	Description
INCREASED DENSITY - 686478	3/19/2019 - G75 - 24-16N-9W X636113 MSNLC 6 WELLS NEWFIELD EXPLOR. MID-CONT. INC. 11-9-2018
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
LOCATION EXCEPTION - 687810	3/19/2019 - G75 - (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
MEMO	3/19/2019 - G71 - PIT 1 & 2 - CLOSED SYSTEM = STEEL PITS PER OPERATOR REQUEST; WBM, WBM & OBM CUTTINGS CAPTURED IN STEEL HALF PITS & TRANSFERRED TO R360 (ORDER #587498); PIT 2 - OBM TO VENDOR
SPACING - 636113	3/19/2019 - G75 - (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	3/19/2019 - G75 - (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

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

The duration of this permit is SIX 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.

PERMIT PLAT

M & M Land Surveying, Inc.
Phone (580) 226-0446
520 E Street N.W.
Ardmore, OK 73401

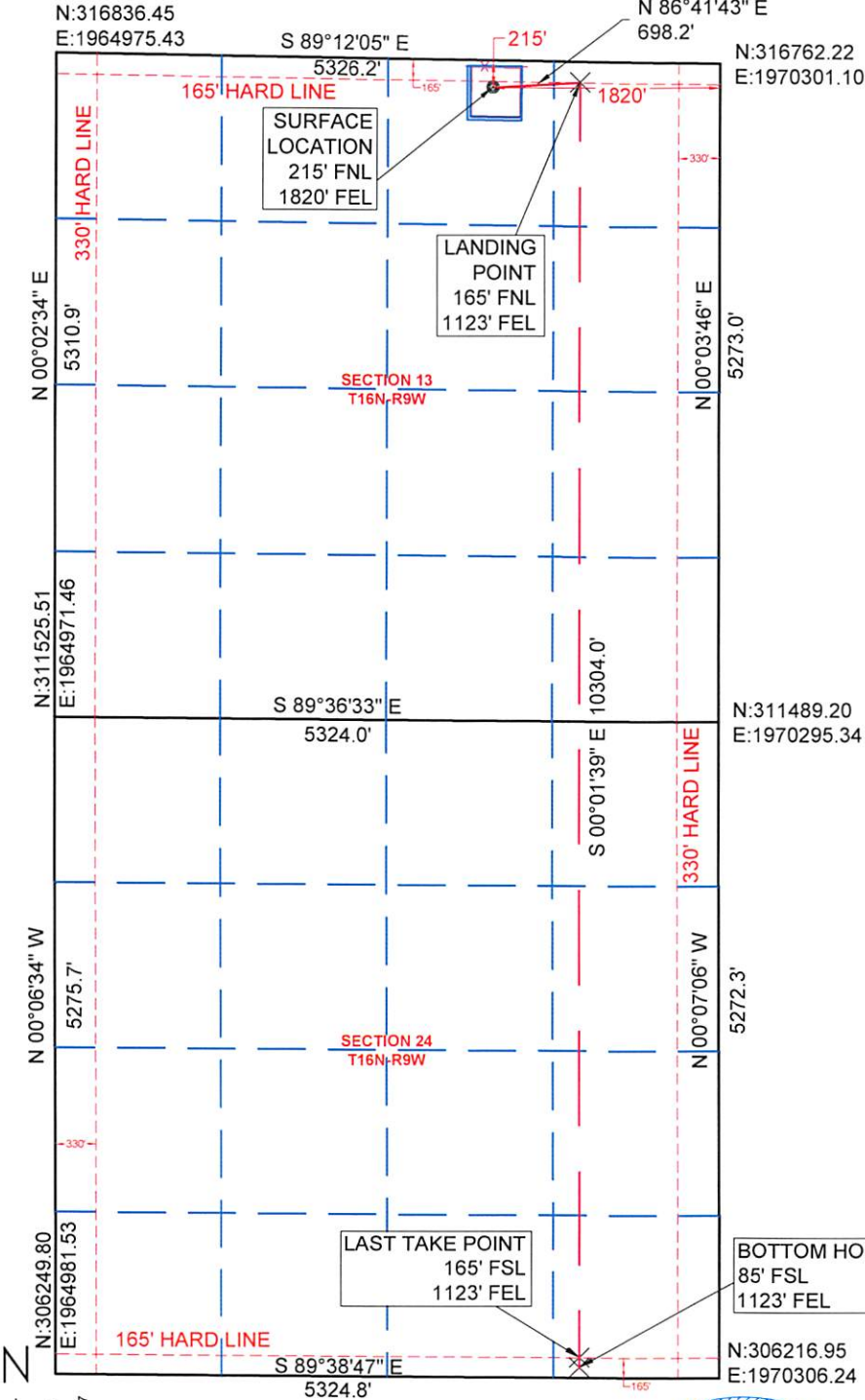
Company Name: NEWFIELD EXPLORATION MID-CONTINENT INC.

Lease Name: ALAN 1609 6H-13X

Section 13 Township 16 N Range 9 W , I.B.M, County of Kingfisher, State of Oklahoma
Elevation Good Location?

Original Location: 215'FNL - 1820'FEL 1178' GROUND YES

Distance & Direction From Nearest Town: 9.8 miles West of Kingfisher



SURFACE LOCATION	LANDING POINT
DATUM: NAD27	DATUM: NAD27
LAT: 35° 52' 10.70"N	LAT: 35° 52' 11.11"N
LONG: 98° 06' 22.96"W	LONG: 98° 06' 14.49"W
LAT: 35.869640°N	LAT: 35.869753°N
LONG: 98.106377°W	LONG: 98.104025°W
Y (N): 316572.57	Y (N): 316612.85
X (E): 1968481.11	X (E): 1969178.14
DATUM: NAD83	DATUM: NAD83
LAT: 35° 52' 10.86"N	LAT: 35° 52' 11.26"N
LONG: 98° 06' 24.18"W	LONG: 98° 06' 15.71"W
LAT: 35.869682°N	LAT: 35.869795°N
LONG: 98.106715°W	LONG: 98.104363°W
Y (N): 316596.27	Y (N): 316636.55
X (E): 1936881.78	X (E): 1937578.82

LAST TAKE POINT	BOTTOM HOLE
DATUM: NAD27	DATUM: NAD27
LAT: 35° 50' 30.00"N	LAT: 35° 50' 29.20"N
LONG: 98° 06' 14.30"W	LONG: 98° 06' 14.30"W
LAT: 35.841665°N	LAT: 35.841446°N
LONG: 98.103972°W	LONG: 98.103972°W
Y (N): 306388.86	Y (N): 306308.86
X (E): 1969182.88	X (E): 1969182.92
DATUM: NAD83	DATUM: NAD83
LAT: 35° 50' 30.15"N	LAT: 35° 50' 29.36"N
LONG: 98° 06' 15.51"W	LONG: 98° 06' 15.51"W
LAT: 35.841708°N	LAT: 35.841488°N
LONG: 98.104309°W	LONG: 98.104309°W
Y (N): 306412.57	Y (N): 306332.57
X (E): 1937583.71	X (E): 1937583.75

This location has been staked according to the best official survey records available to us. The metrical data shown hereon is for permitting the well location and the section location may or may not be field verified. Please review this plat and notify us immediately of any discrepancy.

CERTIFICATE:

I Aaron Morris a Registered Land Surveyor in the State Of Oklahoma, do hereby certify that the above described Well Location was surveyed and staked on the ground as shown and that said plat meets or exceeds the Oklahoma Minimum Technical Standards for the practice of land surveying as adopted by the Oklahoma State Board of Licensure for Professional Engineers and Land Surveyors.

[Signature]

12/12/2018

Aaron L. Morris R.P.L.S. No.1477
Bennett-Morris & Associates Land
Surveying P.C. ~ C.A. No. 5795 (LS)
Phone (580) 226-5108
Fax (888) 662-7778
1010 Northwest Boulevard
Ardmore, OK 73401



COORDINATES ARE AS SHOWN ARE
DERIVED FROM OPUS SOLUTION.
PROJECTION: OKLAHOMA NORTH
ZONE, LAMBERT CONFORMAL
HORIZONTAL: NAD27
VERTICAL: NAVD88
GEOID MODEL: GEOID 99
UNITS: US SURVEY FEET



SURVEY BY: M & M Land Surveying, Inc. ~ C.A. No. 3093 (LS)	
DRAWING BY: Bennett-Morris And Associates Land Surveying, P.C.	
© COPYRIGHT 2018 C.A. No. 5795 (LS) ~ Aaron L. Morris, RPLS	
PROJECT NUMBER: 18566	SITE VISIT: (Explanation and Date)
SHEET: 6 OF 9	STAKING DATE: 11/15/2018
	DRAWING DATE: 12/03/2018