

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

API NUMBER: 073 26600

Approval Date: 07/17/2019

Expiration Date: 01/17/2021

Horizontal Hole
Multi Unit

Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 19 Twp: 17N Rge: 9W

County: KINGFISHER

SPOT LOCATION: ☐ SW ☐ NW ☐ SE ☐ SE

FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 690 1127

Lease Name: CHANNEL

Well No: 1709 6H-30X

Well will be 690 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

THOMAS MOORE
4617 MENTONE WAY
RALEIGH NC 27612

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN (LESS CHESTER)	8865	6	
2 WOODFORD	9458	7	
3		8	
4		9	
5		10	

Spacing Orders: 659118
647819
694896

Location Exception Orders: 694252
694808

Increased Density Orders: 691369
691370

Pending CD Numbers:

Special Orders:

Total Depth: 19603

Ground Elevation: 1223

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 230

Under Federal Jurisdiction: No

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 not located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is NON HSA

Pit Location Formation: CHICKASHA

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 19-36531

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 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 not located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is NON HSA

Pit Location Formation: CHICKASHA

HORIZONTAL HOLE 1

Sec 31 Twp 17N Rge 9W County KINGFISHER

Spot Location of End Point: SW SE SW SE

Feet From: SOUTH 1/4 Section Line: 85

Feet From: EAST 1/4 Section Line: 1654

Depth of Deviation: 8407

Radius of Turn: 567

Direction: 183

Total Length: 10306

Measured Total Depth: 19603

True Vertical Depth: 9458

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

Additional Surface Owner	Address	City, State, Zip
TIMOTHY MOORE	411 EAST FRANKLIN STREET, SUITE 600	RICHMOND, VA 23219
ANN JACKSON	3110 N. PECAN ROAD	PONCA CITY, OK 74604
MARK MOORE	1435 S. JOSEPHINE STREET	DENVER, CO 80210
KENNETH K KELLUM JR & CHERYL	11240 EBY RD	OVERLAND, KS 66210

Notes:

Category

Description

DEEP SURFACE CASING

7/12/2019 - 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 - 694252

7/17/2019 - G56 - (I.O.) 30 & 31-17N-9W
X165:10-3-28(C)(2)(B) MSNLC MAY BE CLOSER THAN 600' TO CHANNEL 1H-30X, FRED A 2-30, EILEEN 1-30, WHITNEY 1-30, ERMA 1-31, RENNER 31-1, CHANNEL 1-31, RENNER 2-31 AND/OR PROPOSED WELLS
NEWFIELD EXPLORATION MID-CONTINENT INC.
4/8/2019

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

073 26600 CHANNEL 1709 6H-30X

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
HYDRAULIC FRACTURING	<p>7/12/2019 - G71 - OCC 165:10-3-10 REQUIRES:</p> <p>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;</p> <p>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,</p> <p>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</p>
INCREASED DENSITY - 691369	<p>7/17/2019 - G56 - 30-17N-9W X659118 MSNLC 6 WELLS NEWFIELD EXPLORATION MID-CONTINENT INC. 2/13/2019</p>
INCREASED DENSITY - 691370	<p>7/17/2019 - G56 - 31-17N-9W X647819 MSNLC 6 WELLS NEWFIELD EXPLORATION MID-CONTINENT INC. 2/13/2019</p>
LOCATION EXCEPTION - 694808	<p>7/17/2019 - G56 - (I.O.) 30 & 31-17N-9W X659118 MSNLC, WDFD 30-17N-9W X647819 MSNLC, WDFD 31-17N-9W COMPL. INT. (31-17N-9W) NCT 0' FNL, NCT 165' FSL, NCT 660' FEL COMPL. INT. (30-17N-9W) NCT 0' FSL, NCT 165' FNL, NCT 660' FEL NEWFIELD EXPLORATION MID-CONTINENT INC. 4/17/2019</p>
MEMO	<p>7/12/2019 - G71 - PIT 1 & 2 - CLOSED SYSTEM = STEEL PITS PER OPERATOR REQUEST, WBM/CUTTINGS & OBM CUTTINGS CAPTURED IN STEEL HALF PITS, WBM & WBM CUTTINGS WILL BE SOIL FARMED, OBM CUTTINGS TRANSFERRED TO R360 587498 (31-12N-8W), CANADIAN CO, PIT 2 - OBM TO VENDOR</p>
SPACING - 647819	<p>7/17/2019 - G56 - (640)(HOR) 31-17N-9W EST OTHER EXT 639140/640131/644146 MSNLC EXT 639140/640131 WDFD COMPL. INT. (MSNLC) NLT 660' FB COMPL. INT. (WDFD) NLT 165' FNL/FSL, NLT 330' FEL/FWL (COEXIST WITH SP # 96050 MNNG, MSSSD)</p>
SPACING - 659118	<p>7/17/2019 - G56 - (640)(HOR) 30-17N-9W EST OTHER EXT 643256/645603/645331 MSNLC, WDFD COMPL. INT. (MSNLC) NCT 660' FB COMPL. INT. (WDFD) NCT 165' FNL & FSL, NCT 330' FEL & FWL (COEXIST WITH SP # 89104 MNNG, MSSSD, # 518552 WDFD)</p>
SPACING - 694896	<p>7/17/2019 - G56 - (I.O.) 30 & 31-17N-9W EST MULTIUNIT HORIZONTAL WELL X659118 MSNLC, WDFD 30-17N-9W X647819 MSNLC, WDFD 31-17N-9W (WDFD IS AN ADJACENT COMMON SOURCE OF SUPPLY TO MSNLC) 50% 31-17N-9W 50% 30-17N-9W NEWFIELD EXPLORATION MID-CONTINENT INC. 4/18/2019</p>

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.

073-26600

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.

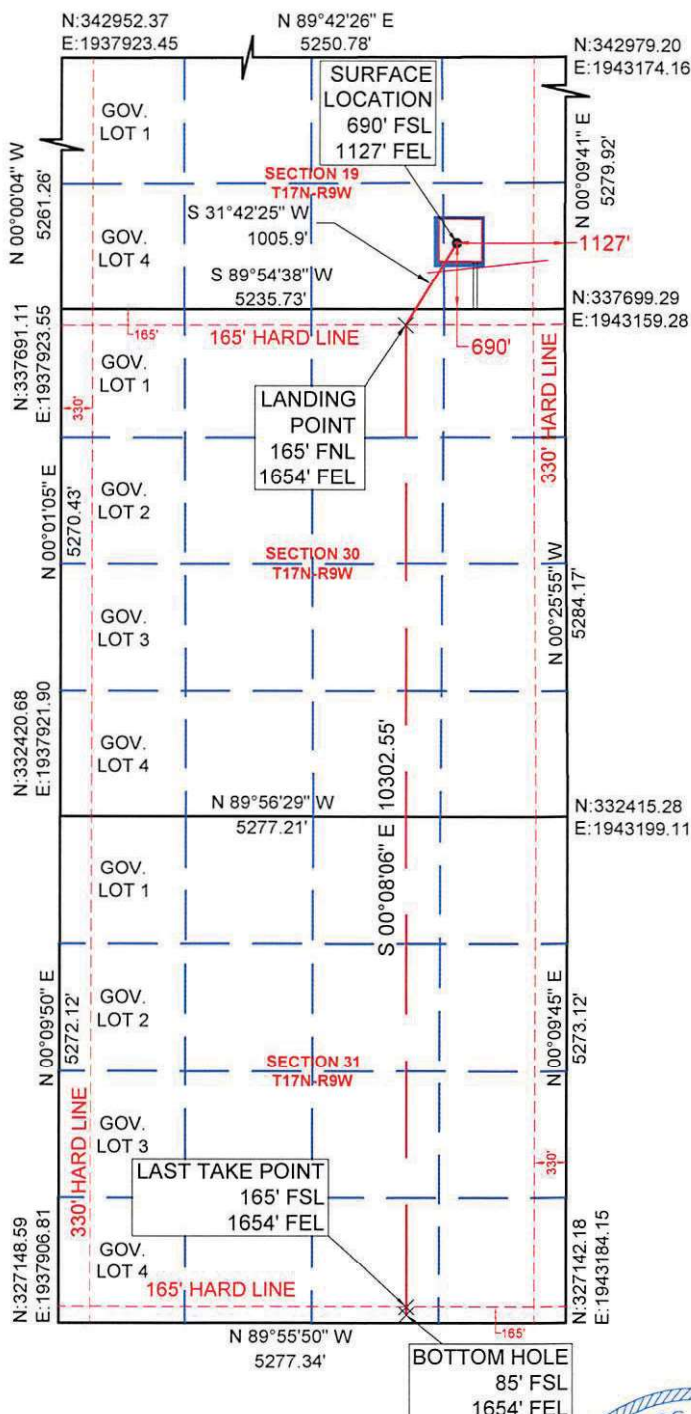
Lease Name: CHANNEL 1709 6H-30X

Section 19 Township 17 N Range 9 W, I.B.M., County of Kingfisher, State of Oklahoma

Elevation Good Location?

Original Location: 690' FSL - 1127' FEL 1223' GROUND YES

Distance & Direction From Nearest Town: 14.0 miles Northeast of Watonga.

**SURFACE LOCATION**

DATUM: NAD27

LAT: 35° 55' 46.04"N

LONG: 98° 11' 44.82"W

LAT: 35.929457°N

LONG: 98.195785°W

Y (N): 338387.35

X (E): 1942034.38

DATUM: NAD83

LAT: 35° 55' 46.19"N

LONG: 98° 11' 46.06"W

LAT: 35.929496°N

LONG: 98.196127°W

Y (N): 338410.96

X (E): 1910434.25

LANDING POINT

DATUM: NAD27

LAT: 35° 55' 37.57"N

LONG: 98° 11' 51.23"W

LAT: 35.927103°N

LONG: 98.197564°W

Y (N): 337531.72

X (E): 1941505.73

DATUM: NAD83

LAT: 35° 55' 37.71"N

LONG: 98° 11' 52.47"W

LAT: 35.927143°N

LONG: 98.197907°W

Y (N): 337555.33

X (E): 1909905.6

LAST TAKE POINT

DATUM: NAD27

LAT: 35° 53' 56.47"N

LONG: 98° 11' 50.69"W

LAT: 35.899020°N

LONG: 98.197413°W

Y (N): 327309.18

X (E): 1941529.67

DATUM: NAD83

LAT: 35° 53' 56.62"N

LONG: 98° 11' 51.92"W

LAT: 35.899061°N

LONG: 98.197755°W

Y (N): 327332.81

X (E): 1909929.69

BOTTOM HOLE

DATUM: NAD27

LAT: 35° 53' 55.68"N

LONG: 98° 11' 50.68"W

LAT: 35.898800°N

LONG: 98.197412°W

Y (N): 327229.18

X (E): 1941529.86

DATUM: NAD83

LAT: 35° 53' 55.83"N

LONG: 98° 11' 51.92"W

LAT: 35.898841°N

LONG: 98.197754°W

Y (N): 327252.81

X (E): 1909929.88

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. The metrical data shown hereon is for permitting the well location and the section location may or may not be field verified.

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.

6/21/2019

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



SCALE 1" = 2000'
 2000'

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 2019	C.A. No. 5795 (LS) ~ Aaron L. Morris, RPLS
PROJECT NUMBER:	SITE VISIT: (Explanation and Date)
19190	STAKING DATE: 06/12/2019
SHEET: 6 OF 9	DRAWING DATE: 06/13/2019