

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

API NUMBER: 073 26604

Approval Date: 07/25/2019

Expiration Date: 01/25/2021

Horizontal Hole  
Multi Unit

Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 30 Twp: 17N Rge: 9W County: KINGFISHER

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

SECTION LINES: 290 1058

Lease Name: CHANNEL Well No: 1709 2H-30X Well will be 290 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

LESLIE EARL GLAZIER AND ONA GAY GLAZIER  
5692 E 720 RD  
LOYAL OK 73756

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

|   | Name                         | Depth | Name | Depth |
|---|------------------------------|-------|------|-------|
| 1 | MISSISSIPPIAN (LESS CHESTER) | 8912  | 6    |       |
| 2 | WOODFORD                     | 9505  | 7    |       |
| 3 |                              |       | 8    |       |
| 4 |                              |       | 9    |       |
| 5 |                              |       | 10   |       |

Spacing Orders: 659118  
694248  
647819

Location Exception Orders: 694250  
694252

Increased Density Orders: 691369  
691370

Pending CD Numbers:

Special Orders:

Total Depth: 19641

Ground Elevation: 1253

**Surface Casing: 1500**

Depth to base of Treatable Water-Bearing FM: 220

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: 8000 Average: 5000

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: 19-36532

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: SE SE SW SW

Feet From: SOUTH 1/4 Section Line: 85

Feet From: WEST 1/4 Section Line: 1077

Depth of Deviation: 8407

Radius of Turn: 598

Direction: 179

Total Length: 10295

Measured Total Depth: 19641

True Vertical Depth: 9505

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

### Notes:

#### Category

#### Description

DEEP SURFACE CASING

7/24/2019 - 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

7/25/2019 - 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 EXPLOR. MID-CONTINENT INC.  
4/8/2019

HYDRAULIC FRACTURING

7/24/2019 - 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)

INCREASED DENSITY - 691369

7/25/2019 - G56 - 30-17N-9W  
X659118 MSNLC  
6 WELLS  
NEWFIELD EXPLOR. MID-CONTINENT INC.  
2/13/2019

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

073 26604 CHANNEL 1709 2H-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   |
|-----------------------------|---|
| INCREASED DENSITY - 691370  | 7/25/2019 - G56 - 31-17N-9W<br>X647819 MSNLC<br>6 WELLS<br>NEWFIELD EXPLOR. MID-CONTINENT INC.<br>2/13/2019   |
| LOCATION EXCEPTION - 694250 | 7/25/2019 - G56 - (I.O.) 30 & 31-17N-9W<br>X659118 MSNLC, WDFD 30-17N-9W<br>X647819 MSNLC, WDFD 31-17N-9W<br>COMPL INT (30-17N-9W) NCT 0' FSL, NCT 165' FNL, NCT 660' FWL<br>COMPL INT (31-17N-9W) NCT 0' FNL, NCT 165' FSL, NCT 660' FWL NEWFIELD EXPLOR. MID-CONTINENT INC.<br>4/8/2019       |
| MEMO                        | 7/24/2019 - 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                         |
| SPACING - 647819            | 7/25/2019 - G56 - (640)(HOR) 31-17N-9W<br>EST OTHER<br>EXT 639140/640131/644146 MSNLC<br>EXT 639140/640131 WDFD<br>COMPL INT (MSNLC) NLT 660' FB<br>COMPL INT (WDFD) NLT 165' FNL/FSL, NLT 330' FEL/FWL<br>(COEXIST WITH SP # 96050 MNNG, MSSSD)  |
| SPACING - 659118            | 7/25/2019 - G56 - (640)(HOR) 30-17N-9W<br>EST OTHER<br>EXT 643256/645603/645331 MSNLC, WDFD<br>COMPL INT (MSNLC) NCT 660' FB<br>COMPL INT (WDFD) NCT 165' FNL & FSL, NCT 330' FEL & FWL (COEXIST WITH SP # 89104 MNNG, MSSSD, # 518552 WDFD)  |
| SPACING - 694248            | 7/25/2019 - G56 - (I.O.) 30 & 31-17N-9W<br>ESTABLISH MULTIUNIT HORIZONTAL WELL<br>X659118 MSNLC, WDFD 30-17N-9W<br>X647819 MSNLC, WDFD 31-17N-9W<br>(WDFD IS AN ADJACENT COMMON SOURCE OF SUPPLY TO MSNLC)<br>50% 30-17N-9W<br>50% 31-17N-9W<br>NEWFIELD EXPLOR. MID-CONTINENT INC.<br>4/8/2019 |

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.**

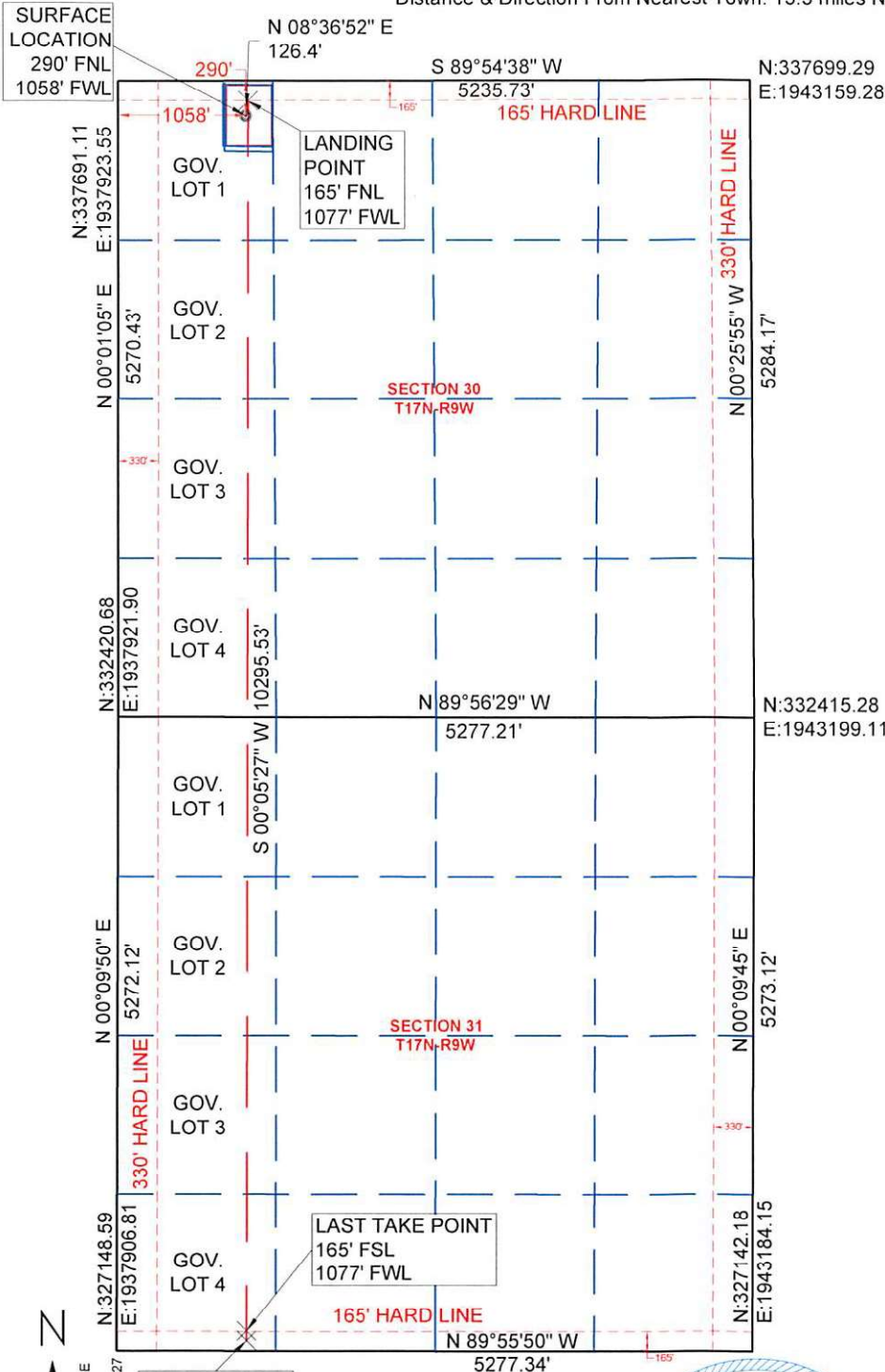
Lease Name: **CHANNEL 1709 2H-30X**

Section 30 Township 17 N Range 9 W, I.B.M., County of Kingfisher, State of Oklahoma

Elevation Good Location?

Original Location: 290' FNL - 1058' FWL 1253' GROUND YES

Distance & Direction From Nearest Town: 13.3 miles Northeast of Watonga.



| <b>SURFACE LOCATION</b> | <b>LANDING POINT</b>  |
|-------------------------|-----------------------|
| DATUM: NAD27            | DATUM: NAD27          |
| LAT: 35° 55' 36.24"N    | LAT: 35° 55' 37.48"N  |
| LONG: 98° 12' 21.92"W   | LONG: 98° 12' 21.69"W |
| LAT: 35.926735°N        | LAT: 35.927078°N      |
| LONG: 98.206089°W       | LONG: 98.206026°W     |
| Y (N): 337402.87        | Y (N): 337527.81      |
| X (E): 1938981.48       | X (E): 1939000.4      |
| DATUM: NAD83            | DATUM: NAD83          |
| LAT: 35° 55' 36.39"N    | LAT: 35° 55' 37.62"N  |
| LONG: 98° 12' 23.16"W   | LONG: 98° 12' 22.93"W |
| LAT: 35.926774°N        | LAT: 35.927118°N      |
| LONG: 98.206432°W       | LONG: 98.206369°W     |
| Y (N): 337426.47        | Y (N): 337551.41      |
| X (E): 1907381.3        | X (E): 1907400.22     |

| <b>LAST TAKE POINT</b> | <b>BOTTOM HOLE</b>    |
|------------------------|-----------------------|
| DATUM: NAD27           | DATUM: NAD27          |
| LAT: 35° 53' 56.45"N   | LAT: 35° 53' 55.66"N  |
| LONG: 98° 12' 21.63"W  | LONG: 98° 12' 21.63"W |
| LAT: 35.899014°N       | LAT: 35.898794°N      |
| LONG: 98.206008°W      | LONG: 98.206008°W     |
| Y (N): 327312.28       | Y (N): 327232.28      |
| X (E): 1938984.03      | X (E): 1938983.9      |
| DATUM: NAD83           | DATUM: NAD83          |
| LAT: 35° 53' 56.60"N   | LAT: 35° 53' 55.80"N  |
| LONG: 98° 12' 22.86"W  | LONG: 98° 12' 22.86"W |
| LAT: 35.899054°N       | LAT: 35.898835°N      |
| LONG: 98.206351°W      | LONG: 98.206351°W     |
| Y (N): 327335.9        | Y (N): 327255.9       |
| X (E): 1907384.01      | X (E): 1907383.88     |

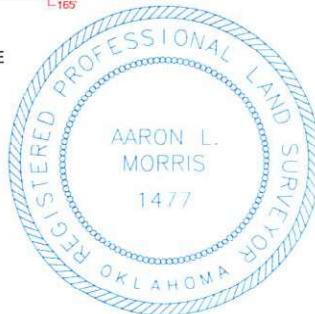
This location has been staked according to the best official survey records available to us. The metrical data shown hereon is for permitting the well location and the section location may or may not be field verified. Please review this plat and notify us immediately of any discrepancy. The metrical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

*[Signature]* 7/15/2019

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



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: 19211  | SITE VISIT: (Explanation and Date) |
|  | STAKING DATE: 06/24/2019           |
| SHEET: 6 OF 9  | DRAWING DATE: 07/08/2019           |