

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

API NUMBER: 073 26610

Approval Date: 07/26/2019

Expiration Date: 01/26/2021

Horizontal Hole
Multi Unit

Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 05 Twp: 16N Rge: 9W County: KINGFISHER

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

SECTION LINES: 250 2323

Lease Name: BIEHLER Well No: 1709 8H-29X Well will be 250 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

BRADLEY BOECKMAN
2620 SE 8TH ST
MOOER OK 73160

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

| | Name | Depth | Name | Depth |
|---|------------------------------|-------|------|-------|
| 1 | MISSISSIPPIAN (LESS CHESTER) | 8905 | 6 | |
| 2 | WOODFORD | 9488 | 7 | |
| 3 | | | 8 | |
| 4 | | | 9 | |
| 5 | | | 10 | |

Spacing Orders: 639140

Location Exception Orders:

Increased Density Orders: 699435

699436

Pending CD Numbers: 201903171
201903168
201903167

Special Orders:

Total Depth: 19677

Ground Elevation: 1205

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 500

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: 19-36601

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 29 Twp 17N Rge 9W County KINGFISHER

Spot Location of End Point: NW NE NE NE

Feet From: NORTH 1/4 Section Line: 85

Feet From: EAST 1/4 Section Line: 380

Depth of Deviation: 8233

Radius of Turn: 715

Direction: 10

Total Length: 10321

Measured Total Depth: 19677

True Vertical Depth: 9488

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

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

HYDRAULIC FRACTURING

7/12/2019 - 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 - 699435

7/24/2019 - GB6 - 29-17N-9W
X639140/640131/644146 MSNLC
1 WELL
NEWFIELD EXPLORATION MID-CONTINENT INC.
7/19/2019

INCREASED DENSITY - 699436

7/24/2019 - GB6 - 32-17N-9W
X639140/640131/644146 MSNLC
1 WELL
NEWFIELD EXPLORATION MID-CONTINENT INC.
7/19/2019

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

073 26610 BIEHLER 1709 8H-29X

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 |
|------------------------|---|
| INTERMEDIATE CASING | 7/12/2019 - 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 |
| MEMO | 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 |
| PENDING CD - 201903167 | 7/24/2019 - GB6 - (I.O.) 29 & 32 -17N-9W EST MULTIUNIT HORIZONTAL WELL X639140/640131/644146 MSNLC, WDFD (WDFD IS ADJACENT CSS TO MSNLC) 50% 32-17N-9W 50% 29-17N-9W NO OP. NAMED REC 7/11/2019 (MOORE) |
| PENDING CD 201903168 | 7/24/2019 - GB6 - (I.O.) 29 & 32 - 17N-9W X639140/640131/644146 MSNLC, WDFD (WDFD IS ADJACENT CSS TO MSNLC) COMPL. INT. (32-17N-9W) NCT 0' FNL, NCT 165' FSL, NCT 340' FEL COMPL. INT. (29-17N-9W) NCT 165' FNL, NCT 0' FSL, NCT 340' FEL NO OP. NAMED REEC 7/1/2019 (MOORE) |
| PENDING CD 201903171 | 7/24/2019 - GB6 - (I.O.) 29 & 32 - 17N-9W X165:10-3-28(C)(2)(B) MSNLC (BIEHLER 1709 8H-29X) MAY BE CLOSER THAN 600' FROM THE BIEHLER 1H-29X, TEDERS NO. 1, SPUD 1-29, OTTER CREEK #29-1, CALAVAN 1-32 AND LOUISE 1-32, WELLS IN THE UNIT AND/OR THE PROPOSED 1709 2H-29X, 3H-29X, 4H-29X, 5H-29X, 6H-29X AND 7H-29X. REC 7/1/2019 (MOORE) |
| SPACING - 639140 | 7/25/2019 - GB6 - (640)(HOR) 29 & 32 -17N-9W EXT* MSNLC, WDFD POE TO BHL (MSNLC) NCT 660' FB POE TO BHL (WDFD) NCT 165' FNL OR FSL, NCT 330' FEL OR FWL (COEXIST SP# 85148 MSSSD, MNNG** IN SEC 29; SP# 8892/88519 MSSSD, MNNG** IN SEC 32) *CORRECTED BY NPT# 640131 TO EST FORMATIONS **CORRECTED BY NPT# 644146 TO COEXIST ORDERS FOR MNNG |
| SPACING - 640131 | 7/25/2019 - GB6 - NPT 639140 CLARIFY FORMATIONS TO BE ESTABLISHED NOT EXTENDED |
| SPACING - 644146 | 7/25/2019 - GB6 - NPT 639140/640131 COEXIST SP# 85148 MSSSD, MNNG; COEXIST SP# 88292 MSSSD, MNNG |

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

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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: BIEHLER 1709 8H-29X

Section 5 Township 16 N Range 9 W, I.B.M., County of Kingfisher, State of Oklahoma
Elevation Good Location?

Original Location: 250'FNL - 2323'FEL 1205' GROUND YES
Distance & Direction From Nearest Town: 14.0 miles Northeast of Watonga.

073-26610

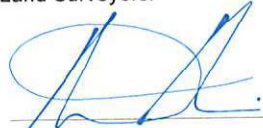
| SURFACE LOCATION | LANDING POINT |
|-----------------------|-----------------------|
| DATUM: NAD27 | DATUM: NAD27 |
| LAT: 35° 53' 52.36"N | LAT: 35° 53' 56.46"N |
| LONG: 98° 10' 46.60"W | LONG: 98° 10' 31.20"W |
| LAT: 35.897879°N | LAT: 35.899016°N |
| LONG: 98.179612°W | LONG: 98.175335°W |
| Y (N): 326883.55 | Y (N): 327295.18 |
| X (E): 1946801.22 | X (E): 1948068.94 |
| DATUM: NAD83 | DATUM: NAD83 |
| LAT: 35° 53' 52.51"N | LAT: 35° 53' 56.60"N |
| LONG: 98° 10' 47.83"W | LONG: 98° 10' 32.43"W |
| LAT: 35.897919°N | LAT: 35.899057°N |
| LONG: 98.179954°W | LONG: 98.175676°W |
| Y (N): 326907.19 | Y (N): 327318.82 |
| X (E): 1915201.34 | X (E): 1916469.08 |

| LAST TAKE POINT | BOTTOM HOLE |
|-----------------------|-----------------------|
| DATUM: NAD27 | DATUM: NAD27 |
| LAT: 35° 55' 37.74"N | LAT: 35° 55' 38.53"N |
| LONG: 98° 10' 31.61"W | LONG: 98° 10' 31.61"W |
| LAT: 35.927149°N | LAT: 35.927368°N |
| LONG: 98.175446°W | LONG: 98.175447°W |
| Y (N): 337535.73 | Y (N): 337615.73 |
| X (E): 1948054.42 | X (E): 1948054.3 |
| DATUM: NAD83 | DATUM: NAD83 |
| LAT: 35° 55' 37.88"N | LAT: 35° 55' 38.67"N |
| LONG: 98° 10' 32.84"W | LONG: 98° 10' 32.84"W |
| LAT: 35.927189°N | LAT: 35.927408°N |
| LONG: 98.175788°W | LONG: 98.175789°W |
| Y (N): 337559.36 | Y (N): 337639.36 |
| X (E): 1916454.41 | X (E): 1916454.29 |

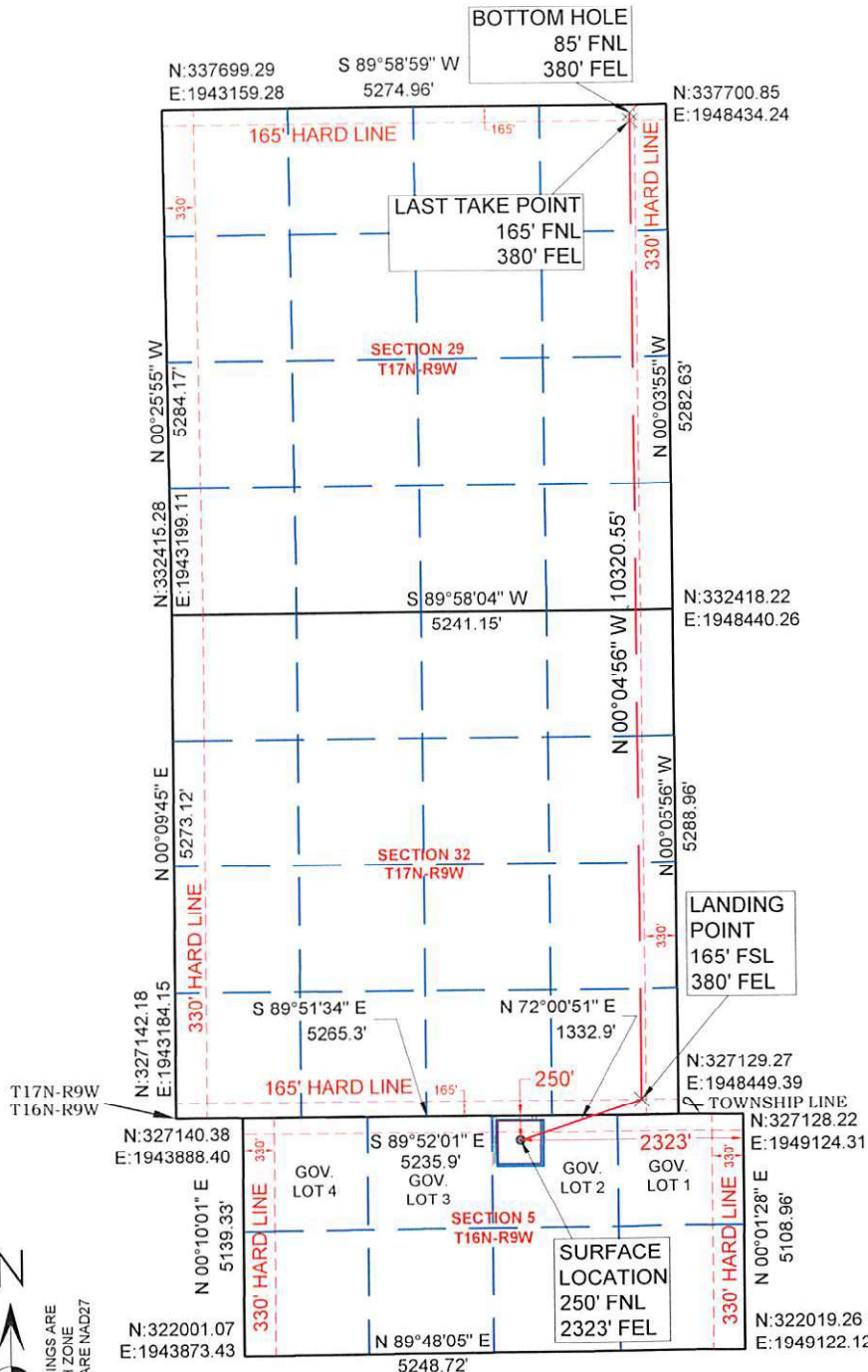
This location has been staked according to the best official survey records available to us. The metrical data shown hereon is for permitting the well location and the section location may or may not be field verified. Please review this plat and notify us immediately of any discrepancy. The metrical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

 7/10/2019

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. 5975 (LS) ~ Aaron L. Morris, RPLS | |
| PROJECT NUMBER: 19185 | SITE VISIT: (Explanation and Date) |
| | STAKING DATE: 06/10/2019 |
| SHEET: 6 OF 9 | DRAWING DATE: 06/13/2019 |