

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

API NUMBER: 073 26272

Approval Date: 09/24/2018

Expiration Date: 03/24/2020

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 20 Twp: 15N Rge: 9W

County: KINGFISHER

SPOT LOCATION: ☐ SW ☐ NE ☐ SW ☐ SW

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 725 810

Lease Name: STROUD FED

Well No: 1509 6H-29

Well will be 725 feet from nearest unit or lease boundary.

Operator Name: NEWFIELD EXPLORATION MID-CON INC

Telephone: 2816742521; 9188781

OTC/OCC Number: 20944 0

NEWFIELD EXPLORATION MID-CON INC
24 WATERWAY AVE STE 900
THE WOODLANDS, TX 77380-2764

TERRI S. VOGT
P.O. BOX 73762
OKARCH OK 73762

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN (LESS CHESTER)	9967	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 649977

Location Exception Orders:

Increased Density Orders: 682679

Pending CD Numbers: 201805201
201805205

Special Orders:

Total Depth: 15495

Ground Elevation: 1239

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 460

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: FLOWERPOT

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 18-35343

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: FLOWERPOT

HORIZONTAL HOLE 1

Sec 29 Twp 15N Rge 9W County KINGFISHER

Spot Location of End Point: SE SE SW SW

Feet From: SOUTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 1284

Depth of Deviation: 9220

Radius of Turn: 800

Direction: 175

Total Length: 5018

Measured Total Depth: 15495

True Vertical Depth: 10250

End Point Location from Lease,

Unit, or Property Line: 0

Additional Surface Owner	Address	City, State, Zip
MICHAEL J. VOGT	P.O. BOX 598	OKARCH, OK 73762

Notes:

Category

Description

DEEP SURFACE CASING

9/11/2018 - 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

9/11/2018 - 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 - 682679

9/21/2018 - G57 - 29-15N-9W
X649977 MSNLC
7 WELLS
NEWFIELD EXPLORATION MID-CONTINENT, INC.
8-7-2018

INTERMEDIATE CASING

9/11/2018 - 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 26272 STROUD FED 1509 6H-29

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
MEMO	9/11/2018 - 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 - 201805201	9/21/2018 - G57 - (I.O.) 29-15N-9W X649977 MSNLC COMPL. INT. NCT 165' FNL, NCT 165' FSL, NCT 990' FWL NO OP. NAMED REC 8-13-2018 (DUNN)
PENDING CD - 201805205	9/21/2018 - G57 - (I.O.) 29-15N-9W X165:10-3-28(C)(2)(B) MSNLC (STROUD FED 6H-29) MAY BE CLOSER THAN 600' FROM THE GOMEZ 1-29, NORENE 1-29, STROUD 1H-29, ALMA 29-B, DRAGGING OTTER 1-29, BUD 29-A & PROPOSED HORIZONTAL WELLS NEWFIELD EXPLORATION MID-CONTINENT, INC. REC 8-13-2018 (DUNN)
SPACING - 649977	9/21/2018 - G57 - (640)(HOR) 29-15N-9W EST MSNLC, OTHER COMPL. INT. (MSNLC) NLT 660' FB (COEXIST SP. ORDER # 168822 MNNG, MSSSD)

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.

API:073 26272

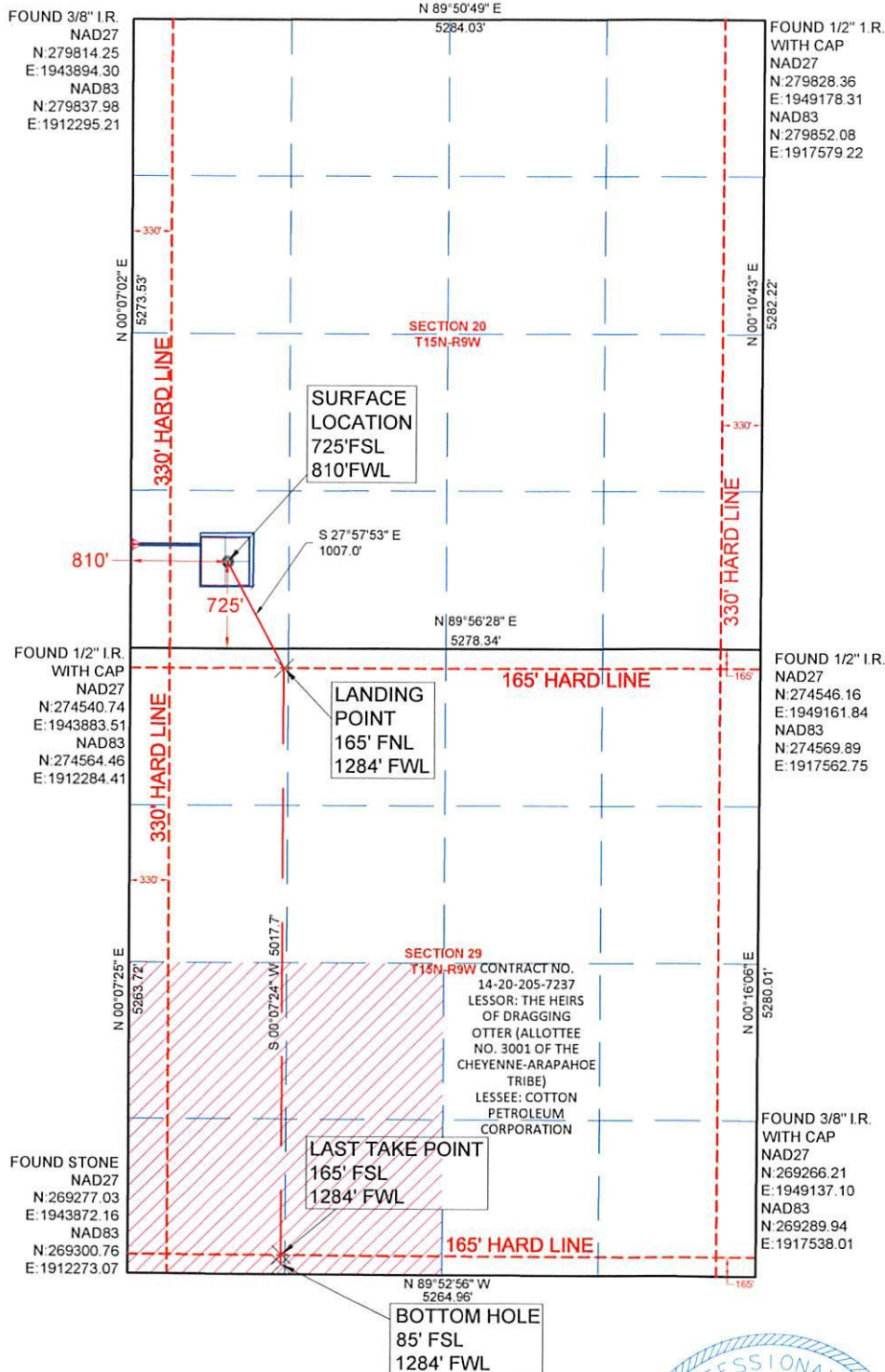
Lease Name: STROUD FED 1509 6H-29

Section 20 Township 15 N Range 9 W, I.B.M., County of Kingfisher, State of Oklahoma

Elevation Good Location?

Original Location: 725'FSL - 810'FWL 1239' GROUND YES

Distance & Direction From Nearest Town: 11.9 miles West of Okarche.



SURFACE LOCATION

DATUM: NAD27

LAT: 35° 45' 21.83"N

LONG: 98° 11' 11.00"W

LAT: 35.756065°N

LONG: 98.186389°W

STATE PLANE

COORDINATES: (US

SURVEY FEET)

ZONE: NORTH ZONE

Y (N): 275266.52

X (E): 1944694.99

DATUM: NAD83

LAT: 35° 45' 21.99"N

LONG: 98° 11' 12.22"W

LAT: 35.756109°N

LONG: 98.186727°W

STATE PLANE

COORDINATES: (US

SURVEY FEET)

ZONE: NORTH ZONE

Y (N): 275290.24

X (E): 1913095.84

DATA DERIVED FROM

G.P.S. WITH O.P.U.S.

DATA.

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.



Aaron L. Morris 08/08/2018

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

SURVEY BY: M & M Land Surveying, Inc. ~ C.A. No. 3093 (LS)	
DRAWING BY: Bennett-Morris And Associates Land Surveying, P.C.	
© COPYRIGHT 2016 C.A. No. 5975 (LS) ~ Aaron L. Morris, RPLS	
PROJECT NUMBER: 18318	SITE VISIT: (Explanation and Date)
SHEET: 6 OF 12	STAKING DATE: 07/24/2017
	DRAWING DATE: 08/03/2018