

API NUMBER: 011 24355

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

Approval Date: 03/22/2023

Expiration Date: 09/22/2024

Multi Unit

Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Section: 15 Township: 19N Range: 12W County: BLAINE

SPOT LOCATION: ☐ NW ☐ SE ☐ SW ☐ NW FEET FROM QUARTER: FROM SOUTH FROM WEST
SECTION LINES: 597 687

Lease Name: BOSS 1522 Well No: 1MHX Well will be 597 feet from nearest unit or lease boundary.

Operator Name: LONGFELLOW ENERGY LP Telephone: 9725909900 OTC/OCC Number: 22113 0

LONGFELLOW ENERGY LP

DALLAS, TX 75225-6335

TIMOTHY CRAVENS

2018 GREENSTONE TRAIL

CARROLTON TX 75010-4017

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

	Name	Code	Depth
1	MISSISSIPPIAN (LESS CHESTER)	359MSNLC	7863
2	MISSISSIPPIAN	359MSSP	8600

Spacing Orders: 674149
731137
732282

Location Exception Orders: 732321

Increased Density Orders: No Density

Pending CD Numbers: 202301124

Working interest owners' notified: ***

Special Orders: No Special

Total Depth: 16871

Ground Elevation: 1430

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 40

Deep surface casing has been approved

Under Federal Jurisdiction: No
Fresh Water Supply Well Drilled: No
Surface Water used to Drill: Yes

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT)

PERMIT NO: 23-38931

H. (Other)

SEE MEMO

PIT 1 INFORMATION

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: FLOWERPOT

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

This permit does not address the right of entry or settlement of surface damages. The duration of this permit is 18 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.

MULTI UNIT HOLE 1

Section: 22	Township: 19N	Range: 12W	Meridian: IM	Total Length: 7548
County: BLAINE				Measured Total Depth: 16871
Spot Location of End Point: SE	SW	SW	SW	True Vertical Depth: 8863
Feet From: SOUTH	1/4 Section Line: 65			End Point Location from
Feet From: WEST	1/4 Section Line: 370			Lease, Unit, or Property Line: 65

NOTES:

Category	Description
DEEP SURFACE CASING	[3/15/2023 - GC2] - APPROVED; (1) NOTIFY OCC FIELD INSPECTOR IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING. (2) SUBSEQUENT WELLS ON SAME PAD WILL NOT BE ALLOWED DEEP SURFACE CASING IN THE EVENT OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING.
HYDRAULIC FRACTURING	[3/15/2023 - GC2] - OCC 165:10-3-10 REQUIRES: 1) NOTICE SHALL BE GIVEN AT LEAST 5 BUSINESS DAYS PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS ON A HORIZONTAL WELL TO OPERATORS PRODUCING WELLS WITHIN 1 MILE OF THE COMPLETION INTERVAL OF THE SUBJECT WELL. THE NOTICE TO SUCH OPERATORS SHALL CONTAIN THE INFORMATION IN FORM 6000NOO. IF THE HYDRAULIC FRACTURING OPERATIONS SCHEDULE CHANGES AFTER NOTICE HAS BEEN PROVIDED, RESULTING IN A DELAY OF OPERATIONS OF MORE THAN 5 DAYS FROM THE INITIAL NOTICE, NEW NOTICE IS REQUIRED TO BE GIVEN; 2) NOTICE WILL BE GIVEN TO THE OCC CENTRAL OFFICE AND LOCAL DISTRICT OFFICES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF FRACTURING OPERATIONS. FORM 6000NHF SHALL BE FOUND HERE: HTTPS://OKLAHOMA.GOV/OCC/DIVISIONS/OIL-GAS/OGCD-FORMS ; AND, 3) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS IS TO BE REPORTED TO FRACFOCUS WITHIN 60 DAYS AFTER THE CONCLUSION OF HYDRAULIC FRACTURING OPERATIONS, FOUND AT FRACFOCUS.ORG
INTERMEDIATE CASING	[3/15/2023 - GC2] - 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 - 732321	[3/21/2023 - GC2] - (I.O.) S2 15 & 22-19N-12W X731137 MSSP 15-19N-12W X674149 MSNLC 22-19N-12W COMPL. INT. (S2 15-19N-12W) NCT 2640' FSL, NCT 0' FSL, NCT 370' FWL COMPL. INT. (22-19N-12W) NCT 0' FNL, NCT 165' FSL, NCT 370' FWL LONGFELLOW ENERGY, LP 2/22/2023
MEMO	[3/15/2023 - GC2] - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
PENDING CD - 2023-001124	[3/22/2023 - GC2] - (E.O.) 15-19N-12W X731137 MSSP 1 WELL NO OP NAMED HEARING 3/28/2023
SPACING - 674149	[3/21/2023 - GC2] - (640)(HOR) 22-19N-12W EST MSNLC, OTHER COMPL. INT. (MSNLC, OTHER) NLT 660' FB (COEXIST SPACING ORDER # 35526 CRUNC; ORDER # 106317 MISS & MNNG)
SPACING - 731137	[3/21/2023 - GC2] - (640)(HOR) 15-19N-12W EXT 688725 MSSP, OTHER COMPL. INT. (MSSP) NCT 660' FB (COEXIST SPACING ORDER # 35526 CRUNC; ORDER # 106317 MISS & MNNG)
SPACING - 732282	[3/21/2023 - GC2] - (I.O.) S2 15 & 22-19N-12W EST MULTIUNIT HORIZONTAL WELL X731137 MSSP 15-19N-12W X674149 MSNLC 22-19N-12W 30% S2 15-19N-12W 70% 22-19N-12W LONGFELLOW ENERGY, LP 2/21/2023

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