

API NUMBER: 085 21324

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

Approval Date: 04/21/2021
Expiration Date: 10/21/2022

Multi Unit Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Section: 06 Township: 8S Range: 3E County: LOVE

SPOT LOCATION: ☐ NE ☐ NW ☐ SW ☐ SW FEET FROM QUARTER: FROM SOUTH FROM WEST
SECTION LINES: 993 407

Lease Name: THE JUDGE Well No: 1-8H7X18 Well will be 407 feet from nearest unit or lease boundary.
Operator Name: TRAILHEAD EXPLORATION LLC Telephone: 8173306172 OTC/OCC Number: 24401 0

TRAILHEAD EXPLORATION LLC
505 MAIN ST STE 340
FORT WORTH, TX 76102-5417

MASC LLC
9515 LOVES VALLEY ROAD
MARIETTA OK 73448

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

	Name	Code	Depth
1	MISSISSIPPIAN	359MSSP	15675
2	WOODFORD	319WDFD	17975
3	SYLVAN	203SLVN	18175

Spacing Orders: 716038
716037
716353

Location Exception Orders: No Exceptions

Increased Density Orders: No Density Orders

Pending CD Numbers: 202100355
202100356

Working interest owners' notified: ***

Special Orders: No Special Orders

Total Depth: 26750 Ground Elevation: 703

Surface Casing: 3600

Depth to base of Treatable Water-Bearing FM: 670

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: 21-37687
H. (Other) CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST

PIT 1 INFORMATION

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 located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is: ALLUVIAL

Pit Location Formation: ALLUVIUM

MULTI UNIT HOLE 1

Section: 18 Township: 8S Range: 3E Meridian: IM Total Length: 8600
County: LOVE Measured Total Depth: 26750
Spot Location of End Point: SE SW SW NW True Vertical Depth: 20000
Feet From: NORTH 1/4 Section Line: 2500
Feet From: WEST 1/4 Section Line: 500
End Point Location from Lease, Unit, or Property Line: 500

NOTES:

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.

Category	Description
DEEP SURFACE CASING	<p>[4/16/2021 - GC2] - APPROVED; (1) NOTIFYING OCC FIELD INSPECTOR IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING (2) 2-STAGE CEMENTING TOOL TO BE SET AT 330'*** BELOW BTW</p> <p>***OKAY PER BOB MCCOY AND VIRGINIA HULLINGER</p>
HYDRAULIC FRACTURING	<p>[4/16/2021 - GC2] - OCC 165:10-3-10 REQUIRES:</p> <p>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;</p> <p>2) NOTICE WILL BE GIVEN TO THE OCC CENTRAL OFFICE AND LOCAL DISTRICT OFFICES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS. FORM 6000NHF SHALL BE USED AND IS FOUND AT THIS LINK: OCCEWEB.COM/OG/OGFORMS.HTML; AND,</p> <p>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</p>
PENDING CD - 202100355	<p>[4/20/2021 - GC2] - (I.O.) 6, 7, & 18-8S-3E EST MULTIUNIT HORIZONTAL WELL X716038 MSSP, WDFD, SLVN 6-8S-3E X716037 MSSP, WDFD, SLVN 7-8S-3E X716353 MSSP, WDFD, 18-8S-3E (SLVN AND MSSP ADJACENT COMMON SOURCE OF SUPPLIES TO WDFD) 9% 6-8S-3E 61% 7-8S-3E 30% 18-8S-3E NO OP. NAMED REC. 4-5-2021 (THOMAS)</p>
PENDING CD - 202100356	<p>[4/20/2021 - GC2] - (I.O.) 6, 7, & 18-8S-3E X716038 MSSP, WDFD, SLVN 6-8S-3E X716037 MSSP, WDFD, SLVN 7-8S-3E X716353 MSSP, WDFD, 18-8S-3E COMPL. INT. (6-8S-3E) NCT 2640' FNL, NCT 0' FSL, NCT 330' FWL COMPL. INT. (7-8S-3E) NCT 0' FNL, NCT 0' FSL, NCT 330' FWL COMPL. INT. (18-8S-3E) NCT 0' FNL, NCT 2640' FSL, NCT 330' FWL NO OP. NAMED REC. 4-5-2021 (THOMAS)</p>
SPACING - 716037	<p>[4/20/2021 - GC2] - (640)(HOR) 7-8S-3E VAC 230504 MSCST, WDFDP, OSGDP EXT 711600 MSSP, WDFD EST SLVN COMPL. INT. (MSSP) NCT 660' FB COMPL. INT. (WDFD) NCT 165' FNL/FSL, NCT 330' FEL/FWL COMPL. INT. (SLVN) NCT 330' FB</p>
SPACING - 716038	<p>[4/20/2021 - GC2] - (640)(HOR) 6-8S-3E VAC 230504 MSCST, WDFDP, OSGDP EXT 711600 MSSP, WDFD EST SLVN COMPL. INT. (MSSP) NCT 660' FB COMPL. INT. (WDFD) NCT 165' FNL/FSL, NCT 330' FEL/FWL COMPL. INT. (SLVN) NCT 330' FB</p>
SPACING - 716353	<p>[4/20/2021 - GC2] - (640)(HOR) 18-8S-3E VAC 230504 MSCST, WDFDP, OSGDP EXT 711600 MSSP, WDFD COMPL. INT. (MSSP) NCT 660' FB COMPL. INT. (WDFD) NCT 165' FNL/FSL, NCT 330' FEL/FWL</p>