API NUMBER: 085 21332 В

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

Approval Date: 08/12/2021 02/12/2023 **Expiration Date:**

Amend reason: OCC CORRECTION - CHANGE DRILLING TYPE AND UPDATE ORDERS

AMEND PERMIT TO DRILL

WELL LOCATION:	Section: 05	Township: 8	S Range:	3E	County: LOVE	
SPOT LOCATION:	SW SE SE	SW	FEET FROM QUARTER:	FROM	SOUTH FROM	WEST
			SECTION LINES:		280	2215

THE OUTLAW Well No: 1-5H32X Lease Name: Well will be 280 feet from nearest unit or lease boundary.

TRAILHEAD EXPLORATION LLC Operator Name: Telephone: 8173306172 OTC/OCC Number: 24401 0

TRAILHEAD EXPLORATION LLC

720822

505 MAIN ST STE 340

Spacing Orders:

FORT WORTH. 76102-5417 TX

DONALD CRAIG WILLIAMS & PAMELA S WILLIAMS

7401 FM 281

SUNRAY ΤX 79086

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

	Name	Code	Depth
1	MISSISSIPPIAN	359MSSP	15394
2	WOODFORD	319WDFD	17758
3	SYLVAN	203SLVN	17958

No Density

721045

Special Orders: No Special Pending CD Numbers: No Pending Working interest owners' notified:

Depth to base of Treatable Water-Bearing FM: 670 Total Depth: 26720 Ground Elevation: 647 Surface Casing: 3600

Deep surface casing has been approved

Category of Pit: C

Increased Density Orders:

PERMIT NO: 21-37697

Approved Method for disposal of Drilling Fluids: Under Federal Jurisdiction: No Fresh Water Supply Well Drilled: No D. One time land application -- (REQUIRES PERMIT)

Surface Water used to Drill: No SEE MEMO H. (Other)

Location Exception Orders:

PIT 1 INFORMATION Type of Pit System: CLOSED Closed System Means Steel Pits Liner not required for Category: C

Type of Mud System: OIL BASED Pit Location is: ALLUVIAL Chlorides Max: 300000 Average: 200000 Pit Location Formation: ALLUVIUM

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 located in a Hydrologically Sensitive Area.

PIT 2 INFORMATION Category of Pit: C

Type of Pit System: CLOSED Closed System Means Steel Pits Liner not required for Category: C

Type of Mud System: WATER BASED Pit Location is: ALLUVIAL Pit Location Formation: ALLUVIUM

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 located in a Hydrologically Sensitive Area.

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.

HORIZONTAL HOLE 1

Section: 32 Township: 7S Range: 3E Meridian: IM Total Length: 9240

County: LOVE Measured Total Depth: 26720

True Vertical Depth: 18000

Spot Location of End Point: E2 W2 E2 NW

Feet From: NORTH

1/4 Section Line: 1320

End Point Location from Lease, Unit, or Property Line: 1230

Lease, Unit, or Property Line: 1230

NOTES:					
Category	Description				
DEEP SURFACE CASING	[8/12/2021 - 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 100' BELOW BTW (3) COPY OF CBL NEEDS TO BE SUBMITTED TO TECHNICAL				
HYDRAULIC FRACTURING	[7/13/2021 - 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 HYDRAULIC FRACTURING OPERATIONS. FORM 6000NHF SHALL BE USED AND IS FOUND AT THIS LINK: OCCEWEB.COM/OG/OGFORMS.HTML; 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				
LOCATION EXCEPTION - 721045 (202101306)	[12/17/2021 - GC2] - (I.O.) NW4 & S2 32-7S-3E, N2, SW4 N2 SE4 & W2 W2 SW4 SE4 5, NW4, N2 SW4, W2 NE4, NW4 SE4, LOT 1, LOT 2, & LOT 3 SECTION 4-8S-3E X720822 MSSP, WDFD, SLVN COMPL. INT. (5-8S-3E) NCT 0' FSL, NCT 330' FWL COMPL. INT. (32-7S-3E) NCT 0' FNL, NCT 330' FWL TRAILHEAD EXPLORATION, LLC 10/11/2021				
MEMO	[8/12/2021 - GC2] - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT				
SPACING - 720822	[12/17/2021 - GC2] - (1280)(IRR UNIT)(HOR) NW4 & S2 32-7S-3E, N2, SW4 N2 SE4 & W2 W2 SW4 SE4 5, NW4, N2 SW4, W2 NE4, NW4 SE4, LOT 1, LOT 2, & LOT 3 SECTION 4-8S-3E EST MSSP, WDFD, SLVN COMPL INT. (MSSP) NCT 660' FWUB/FSUB COMPL INT. (WDFD/SLVN) NCT 165' FSUB, NCT 330' FWUB				