API NUMBER: 085 21331 Α **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:

Multi Unit Oil & Gas

Amend reason: OCC CORRECTION - SHL & BHL

AMEND DEDMIT TO DOLL I

AMEND PE	ERMIT TO DRILL
WELL LOCATION: Section: 05 Township: 8S Range: 3E Count	y: LOVE
SPOT LOCATION: SW SE SE SW FEET FROM QUARTER: FROM SOUT	TH FROM WEST
SECTION LINES: 280	2235
Lease Name: THE RANGER Well No: 1-5H8	Well will be 260 feet from nearest unit or lease boundary.
Operator Name: TRAILHEAD EXPLORATION LLC Telephone: 81733	OTC/OCC Number: 24401 0
TRAILHEAD EXPLORATION LLC	DONALD CRAIG WILLIAMS & PAMELA S WILLIAMS
505 MAIN ST STE 340	7401 FM 281
FORT WORTH, TX 76102-5417	
70102 0417	SUNRAY TX 79086
Formation(s) (Permit Valid for Listed Formations Only):	
Name Code Depth	
1 MISSISSIPPIAN 359MSSP 15369	
2 WOODFORD 319WDFD 17733	
3 SYLVAN 203SLVN 17933	
Spacing Orders: No Spacing Location Exception Or	rders: No Exceptions Increased Density Orders: No Density Orders
Pending CD Numbers: 202101267 Working interest of 202101307 Total Depth: 26720 Ground Elevation: 647 Surface Casin	
	Deep surface casing has been approved
Under Federal Jurisdiction: No	Approved Method for disposal of Drilling Fluids:
Fresh Water Supply Well Drilled: No	D. One time land application (REQUIRES PERMIT) PERMIT NO: 21-37697
Surface Water used to Drill: No	H. (Other) SEE MEMO
PIT 1 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
Chlorides Max: 5000 Average: 3000	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 <u>is</u> 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: 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 <u>is</u> located in a Hydrologically Sensitive Area.	

MULTI UNIT HOLE 1

Section: 17 Township: 8S Range: 3E Meridian: IM Total Length: 9045

County: LOVE Measured Total Depth: 26051

Spot Location of End Point: SE SE SE SE True Vertical Depth: 18000

Feet From: SOUTH 1/4 Section Line: 1 End Point Location from
Feet From: EAST 1/4 Section Line: 1 Lease,Unit, or Property Line: 1

NOTES:

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
МЕМО	[8/12/2021 - GC2] - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
PENDING CD - 202101267	[8/9/2021 - GC2] - (1280)(IRR UNIT)(HOR) 8, FRAC SECTIONS 9, 17, & 20, S2 SW4 & LOT 4 SECTION 4, SE4 SE4, E2 SW4 SE4, & E2 W2 SW4 SE4 5-8S-3E EST MSSP, WDFD, SLVN COMPL INT. (MSSP) NCT 660' FWUB/FNUB COMPL INT. (WDFD/SLVN) NCT 165' FNUB, NCT 330' FWUB*** REC. 7-26-2021(DENTON)
	***S/B COMPL INT. (WDFD) NCT 165' FNUB, NCT 330' FWUB AND COMPL INT. (SLVN) NCT 330' FUB; W/B FIXED BY THE ORDER
PENDING CD - 202101307	[8/9/2021 - GC2] - (I.O.) 8, FRAC SECTIONS 9, 17, & 20, S2 SW4 & LOT 4 SECTION 4, SE4 SE4, E2 SW4 SE4, & E2 W2 SW4 SE4 5-8S-3E X202101267 MSSP, WDFD, SLVN COMPL. INT. (8-8S-3E) NCT 0' FNL, NCT 330' FWL COMPL. INT. (17-8S-3E) NCT 0' FSL, NCT 330' FWL REC. 7-26-2021 (DENTON)