

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

API NUMBER: 051 24502 B

Approval Date: 10/23/2018

Expiration Date: 04/23/2020

Multi Unit Oil & Gas

Amend reason: ADD MISSISSIPPIAN FORMATION

AMEND PERMIT TO DRILL

WELL LOCATION: Section: 05 Township: 9N Range: 7W County: GRADY

SPOT LOCATION: SW NE NE NE FEET FROM QUARTER: FROM NORTH FROM EAST
SECTION LINES: 364 442

Lease Name: BURCHFIELD TRUST Well No: #1H-5-8X Well will be 364 feet from nearest unit or lease boundary.

Operator Name: GAEDEKE OIL & GAS OPERATING LLC Telephone: 2142733330 OTC/OCC Number: 22637 0

GAEDEKE OIL & GAS OPERATING LLC
3710 RAWLINS ST STE 1000
DALLAS, TX 75219-6409

GALEN MORRISON & MALINDA MORRISON
813 HIGHWAY #81
MINCO OK 73059

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

Name	Code	Depth
1 MISSISSIPPIAN	359MSSP	11227
2 WOODFORD	319WDFD	11850

Spacing Orders: 678847 Location Exception Orders: 694733 Increased Density Orders: No Density Orders
678839
694732

Pending CD Numbers: No Pending Special Orders: No Special Orders

Total Depth: 22065 Ground Elevation: 1285 Surface Casing: 1200 Depth to base of Treatable Water-Bearing FM: 380

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: 18-35533
H. SEE MEMO

PIT 1 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: WATER BASED

Chlorides Max: 3500 Average: 1000

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: DOG CREEK

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: DOG CREEK

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: 8	Township: 9N	Range: 7W	Total Length: 10075
County: GRADY			Measured Total Depth: 22065
Spot Location of End Point: SW	SE	SE	SE
Feet From: SOUTH	1/4 Section Line: 85		True Vertical Depth: 11963
Feet From: EAST	1/4 Section Line: 440		End Point Location from Lease, Unit, or Property Line: 85

NOTES:	
Category	Description
COMPLETION INTERVAL	12/4/2018 - G56 - WELL WILL BE COMPLETED AT LESS THAN 165' FNL & FSL FOR THE WOODFORD PER OP.
DEEP SURFACE CASING	11/2/2018 - 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	11/2/2018 - 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
LOCATION EXCEPTION - 694733 (201808390)	7/6/2020 - G56 - (I.O.) 5 & 8-9N-7W X678847 MSSP, WDFD, OTHER 5-9N-7W X678839 MSSP, WDFD 8-9N-7W SHL (5-9N-7W) 364' FNL, 442' FEL COMPL INT (5-9N-7W) NCT 165' FNL, NCT 0' FSL, NCT 330' FEL COMPL INT (8-9N-7W) NCT 0' FNL, NCT 165' FSL, NCT 330' FEL GAEDEKE OIL & GAS OPERATING, LLC 4/16/2019
MEMO	11/2/2018 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS (REQUIRED - BUGGY CREEK), PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
SPACING - 678839	7/6/2020 - G56 - (640)(HOR) 8-9N-7W VAC 98732/107705 CSTR, MSSLM EST MSSP, WDFD COMPL INT (MSSP) NCT 660' FB COMPL INT (WDFD) NCT 165' FNL & FSL, NCT 330' FEL & FWL
SPACING - 678847	7/6/2020 - G56 - (640)(HOR) 5-9N-7W VAC OTHER VAC 98732/107705 CSTR, MSSLM EST MSSP, WDFD, OTHER COMPL INT (MSSP) NCT 660' FB COMPL INT (WDFD) NCT 165' FNL & FSL, NCT 330' FEL & FWL
SPACING - 694732 (201808389)	7/6/2020 - G56 - (I.O.) 5 & 8-9N-7W ESTABLISH MULTIUNIT HORIZONTAL WELL X678847 MSSP, WDFD, OTHER 5-9N-7W X678839 MSSP, WDFD 8-9N-7W (MSSP IS ADJACENT CSS TO WDFD) 50% 5-9N-7W 50% 8-9N-7W GAEDEKE OIL & GAS OPERATING, LLC 4/16/2020

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