

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

API NUMBER: 051 24217

Approval Date: 11/07/2017

Expiration Date: 05/07/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 33 Twp: 10N Rge: 7W

County: GRADY

SPOT LOCATION:

N2

NE

SW

NW

FEET FROM QUARTER: FROM

SOUTH

FROM

WEST

SECTION LINES:

1089

990

Lease Name: BETCHER

Well No: 1H-33

Well will be 990 feet from nearest unit or lease boundary.

Operator Name: GAEDEKE OIL & GAS OPERATING LLC

Telephone: 2142733339

OTC/OCC Number: 22637 0

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

LAWRENCE R. BETCHER, TRUSTEE
6611 NW 11TH STREET
OKLAHOMA CITY OK 73127

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

Name	Depth	Name	Depth
1 WOODFORD	11842	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 658260

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 16586

Ground Elevation: 1307

Surface Casing: 1200

Depth to base of Treatable Water-Bearing FM: 300

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: Yes

PIT 1 INFORMATION

Approved Method for disposal of Drilling Fluids:

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 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

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

PERMIT NO: 17-33332

H. SEE MEMO

This permit does not address the right of entry or settlement of surface damages.

The duration of this permit is SIX 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.

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

HORIZONTAL HOLE 1

Sec 33 Twp 10N Rge 7W County GRADY

Spot Location of End Point: S2 SE SW SW

Feet From: SOUTH 1/4 Section Line: 85

Feet From: WEST 1/4 Section Line: 990

Depth of Deviation: 11314

Radius of Turn: 573

Direction: 180

Total Length: 4372

Measured Total Depth: 16586

True Vertical Depth: 11864

End Point Location from Lease,
Unit, or Property Line: 85

Notes:

Category

Description

COMPLETION INTERVAL

11/6/2017 - G57 - THE COMPLETION INTERVAL FOR THE WOODFORD WILL BE GREATER THAN 165' FNL AND FSL AND WILL BE GREATER THAN 330' FEL AND FWL PER OPERATOR.

DEEP SURFACE CASING

11/2/2017 - 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

11/2/2017 - 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

MEMO

11/2/2017 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

This permit does not address the right of entry or settlement of surface damages.

051 24217 BETCHE 1H-33

The duration of this permit is SIX 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
SPACING - 658260	11/6/2017 - G57 - (640) (HOR) 33-10N-7W VAC OTHER EXT 595082 WDFD EST OTHERS POE TO BHL NCT 165' FNL & FSL, NCT 330' FEL & FWL

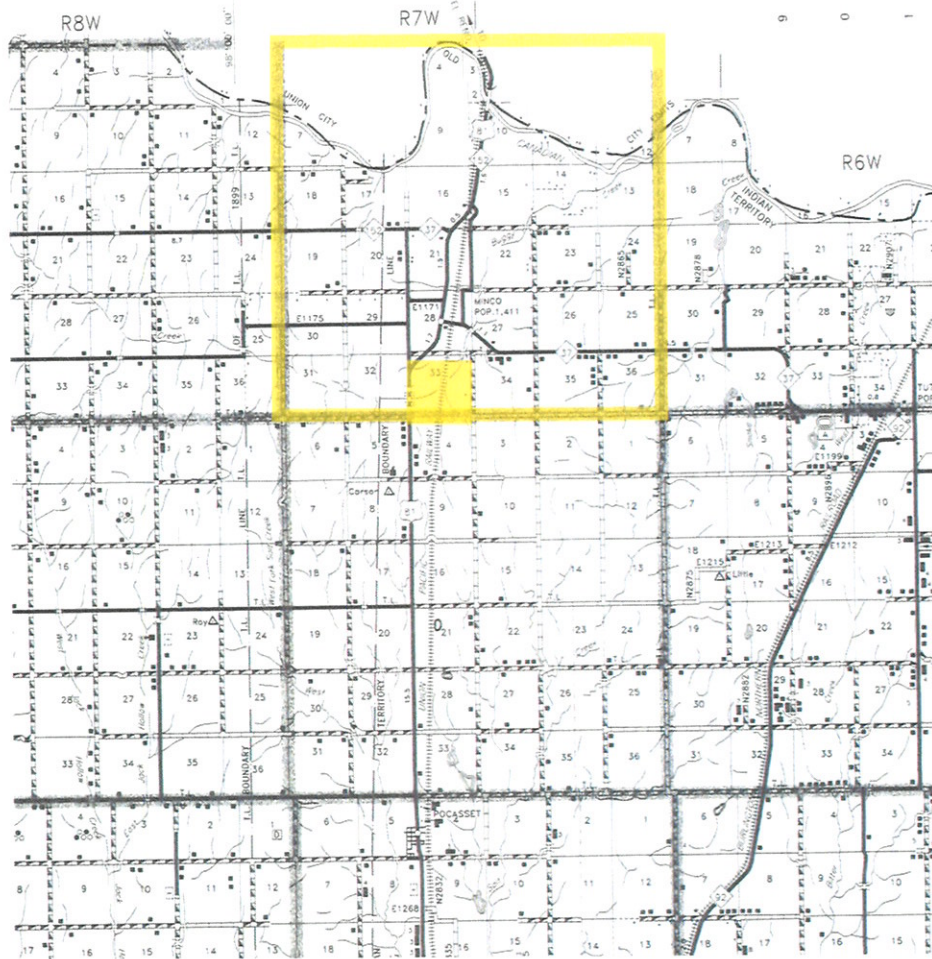
DRAWN BY: CLC		DATE: 09/22/17		CHK'D: RLG	
GATEWAY NO.: 17-0467-001R1			SCALE: 1"=1000'		
PAD#:			WELL#:		
REV.	DWN.	DESCRIPTION			DATE
1	CLC	CHANGED FOOTAGES ON BHL			10/30/17



SECTION 33, T 10 N - R 07 W, I.M.,
GRADY COUNTY, OKLAHOMA

VICINITY MAP

BEARINGS ARE GRID
OKLAHOMA SPC, NAD 27, SOUTH ZONE



SEC. 33 TWP. 10N RNG. 07W SCALE: 1"=3 MILES
COUNTY GRADY STATE OK
OPERATOR GAEDEKE OIL AND GAS OPERATING, LLC

Gateway
Gateway Services Group, LLC

PO. BOX 960
MEEKER, OK 74855
OFF. (405) 273-0954
FAX (405) 273-0580
C.A. NO. 4091 (LS)
EXP. DATE 6-30-2018

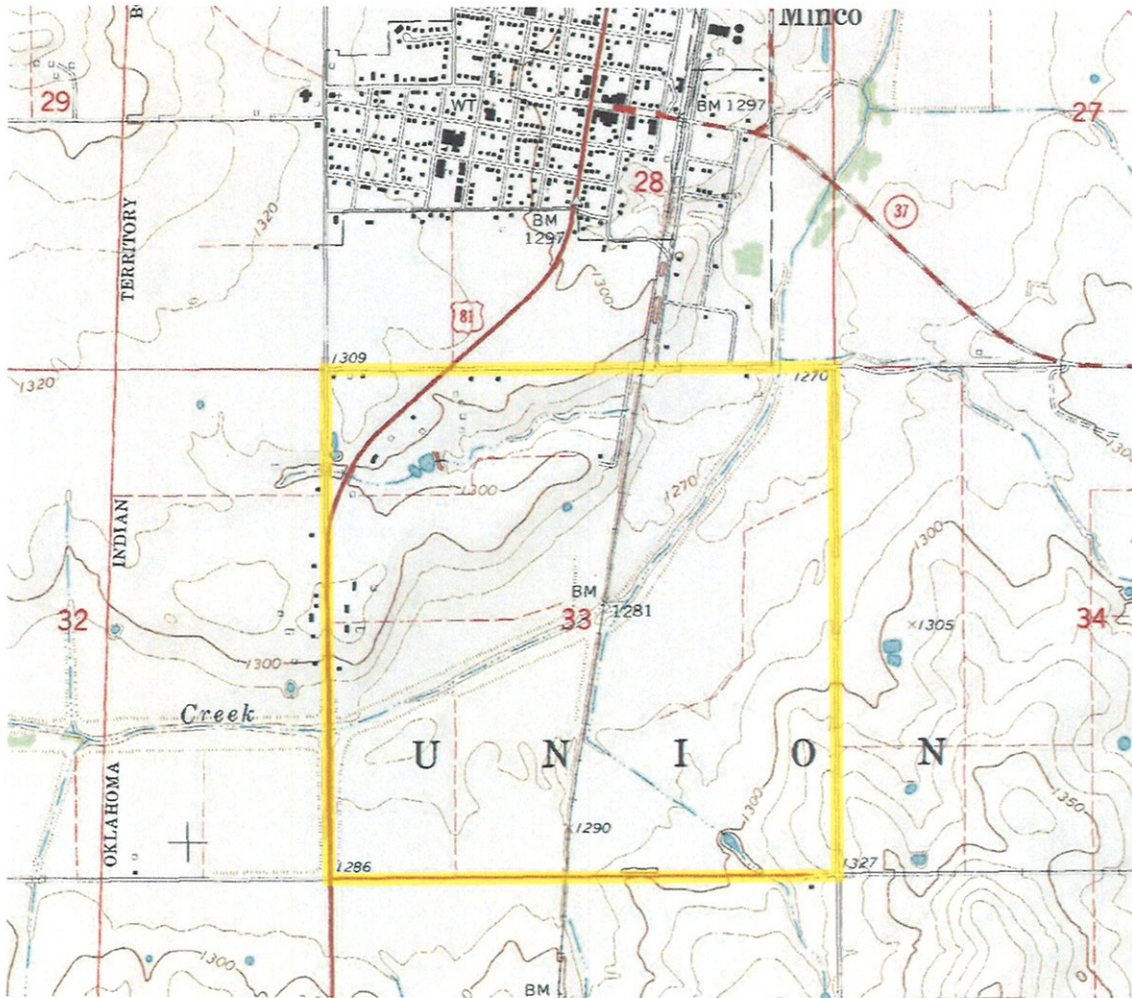
EXHIBIT "A" PRELIMINARY
GAEDEKE OIL AND GAS OPERATING, LLC
BETCHE #1H-33
1537' FNL - 990' FWL
SECTION 33, T 10 N - R 07 W, I.M.,
GRADY COUNTY, OKLAHOMA

DRAWN BY: CLC		DATE: 09/22/17	CHK'D: RLG
GATEWAY NO.: 17-0467-003R1		SCALE: 1"=3 MILES	
PAD#:		WELL#:	
REV.	DWN.	DESCRIPTION	DATE
1	CLC	CHANGED FOOTAGES ON BHL	10/30/17

SECTION 33, T 10 N - R 07 W, I.M.,
GRADY COUNTY, OKLAHOMA

LOCATION & ELEVATION VERIFICATION MAP

BEARINGS ARE GRID
OKLAHOMA SPC, NAD 27, SOUTH ZONE



SEC. 33 TWP. 10N RNG. 07W ABOVE BACKGROUND DATA FROM
COUNTY GRADY STATE OK U.S.G.S. TOPOGRAPHIC MAP
OPERATOR GAEDEKE OIL AND GAS OPERATING, LLC SCALE: 1"=2000'
DESCRIPTION 1537' FNL - 990' FWL-NW/4
LEASE BETCHE #1H-33
ELEVATION 1307.1' AT STAKE CONTOUR INTERVAL 10'
U.S.G.S TOPOGRAPHIC
QUADRANGLE MAP MINCO

Gateway

Gateway Services Group, LLC

P.O. BOX 960
MEEKER, OK 74855
OFF. (405) 273-0954
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EXHIBIT "A" PRELIMINARY

GAEDEKE OIL AND GAS OPERATING, LLC
BETCHE #1H-33
1537' FNL - 990' FWL
SECTION 33, T 10 N - R 07 W, I.M.,
GRADY COUNTY, OKLAHOMA

DRAWN BY: CLC		DATE: 09/22/17	CHK'D: RLG
GATEWAY NO.: 17-0467-004R1		SCALE: 1"=2000'	
PAD#:		WELL#:	
REV.	DWN.	DESCRIPTION	DATE
1	CLC	CHANGED FOOTAGES ON BHL	10/30/17