

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

API NUMBER: 047 25086

Approval Date: 02/10/2017
Expiration Date: 08/10/2017

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 20 Twp: 20N Rge: 8W County: GARFIELD
SPOT LOCATION: SW SE SE SE FEET FROM QUARTER: FROM SOUTH FROM EAST
SECTION LINES: 228 503

Lease Name: GUNGOLL 20 Well No: 1H Well will be 228 feet from nearest unit or lease boundary.
Operator Name: GASTAR EXPLORATION INC Telephone: 7137391800 OTC/OCC Number: 23199 0

GASTAR EXPLORATION INC
1331 LAMAR STE 650
HOUSTON, TX 77010-3131

ELMIRA J GUNGOLL
PO BOX 98
DRUMMOND OK 73735

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	7350	6	
2 WOODFORD	7955	7	
3		8	
4		9	
5		10	

Spacing Orders: 623113

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201605686

Special Orders:

Total Depth: 12844

Ground Elevation: 1244

Surface Casing: 660

Depth to base of Treatable Water-Bearing FM: 420

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: No

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 AP/TE DEPOSIT

Pit Location Formation: TERRACE

Approved Method for disposal of Drilling Fluids:

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

PERMIT NO: 17-32137

H. CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST

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.

HORIZONTAL HOLE 1

Sec 20 Twp 20N Rge 8W County GARFIELD

Spot Location of End Point: N2 N2 NE NE

Feet From: NORTH 1/4 Section Line: 165

Feet From: EAST 1/4 Section Line: 660

Depth of Deviation: 6987

Radius of Turn: 573

Direction: 359

Total Length: 4957

Measured Total Depth: 12844

True Vertical Depth: 7955

End Point Location from Lease,
Unit, or Property Line: 165

Notes:

Category

Description

HYDRAULIC FRACTURING

2/8/2017 - G71 - OCC 165:10-3-10 REQUIRES: 1) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS BE REPORTED TO FRACFOCUS USING THE FOLLOWING LINK [HTTP://FRACFOCUS.ORG/](http://fracfocus.org/) WITH NOTICE GIVEN 48 HOURS IN ADVANCE OF FRACTURING TO THE LOCAL OCC DISTRICT OFFICE; AND, 2) PRIOR TO COMMENCEMENT OF FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE ALSO GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE

PENDING CD - 201605686

2/10/2017 - G60 - (I.O.) 20-20N-8W
X623113 MSSP, WDFD
SHL NCT 0' FSL, NCT 0' FNL, NCT 0' FEL, NCT 0' FWL
COMPL. INT. NCT 165' FSL, NCT 165' FNL, NCT 660' FEL, NCT 660' FWL
NO OP. NAMED
REC. 1/17/17 (M. PORTER)

SPACING - 623113

2/10/2017 - G60 - (640) 20-20N-8W
EST MSSP, WDFD, OTHERS
COMPL. INT. (MSSP) NCT 660' FB
COMPL. INT. (WDFD) NCT 165' FNL/FSL, NCT 330' FEL/FWL
(SUPERCEDE SP. ORDER # 130844 CSTRU, MNNG, MSSLM AND ORDER # 562444 WDFD)

SECTION 20, T 20 N - R 8 W, I.M.,
GARFIELD COUNTY, OKLAHOMA

X: 1974525.1
Y: 437833.7

X: 1979798.7
Y: 437841.8

BEARINGS ARE GRID
OKLAHOMA SPC, NAD 27, NORTH ZONE

(X: 1977161.9)
(Y: 437837.7)

BOTTOM HOLE
165' FNL - 660' FEL

(X: 1974526.2)
(Y: 435188.4)

(X: 1979815.3)
(Y: 435197.9)

20

DATUM: NAD 27
228'FSL - 503'FEL
LAT.: N36°11'20"
LONG.: W98°04'12"
LAT.: N36.188909
LONG.: W98.070053
SPC (US FEET): OK-N
X: 1979328
Y: 432781

LANDING POINT
165' FSL - 660' FEL

X: 1974527.3
Y: 432543.2

(X: 1977179.6)
(Y: 432548.6)

X: 1979832.0
Y: 432554.0

2149'


2416'



503'


228'

Operator: GASTAR EXPLORATION, INC Date Staked: 01/30/17
Lease Name: GUNGOLL 20 Well No.: 1H Elevation: 1244'
Topography and Vegetation: PASTURE
Good Drill Site? YES Reference or Alt. Location Stakes Set: NONE
Best Accessibility to Location: FROM LEASE ROAD
Distance and Direction from Hwy. Jct. or town: FROM DRUMMOND HEAD SOUTH ON HIGHWAY 132 FOR 7.5 MILES, TURN WEST ON W BISON RD. FOR 2.1 MILES, TURN NORTH INTO LOCATION.

LEGEND

SURFACE LOCATION 

EXISTING WELL  BOTTOM HOLE/LANDING POINT 


PROPOSED DRILL PATH 

EXISTING PIPELINE -N-N-N-N-N-N-N-N-

ELECTRIC LINE -E-E-E-E-E-E-E-E-

OVERHEAD POWER -CHP-CHP-CHP-CHP-CHP-CHP-

FENCE -X-X-X-X-X-X-X-X-


FRED ANTHONY SELENSKY DATE 2-3-2017
OKLAHOMA L.P.L.S. NO.: 1860



NOTE:
This is a plat of a proposed well location and does not represent a true boundary survey. The information shown hereon shall not be relied upon for the location or establishment of land boundary lines. All of the positions shown hereon have not been verified as being actual Section, Quarter or Property corners. Positions shown in (Parentheses) are based upon local occupation and improvements or calculated per proportional measurement and/or G.L.O. record distances. Review this plat and notify Gateway Services Group, LLC immediately of any possible discrepancy.

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

GASTAR EXPLORATION, INC
GUNGOLL 20-1H
228' FSL - 503' FEL
SECTION 20, T 20 N - R 8 W, I.M.,
GARFIELD COUNTY, OKLAHOMA

DRAWN BY: CLC	DATE: 02/02/17	CHK'D: RLG	
GATEWAY NO.: 17-0049-002		SCALE: 1"=1000'	
PAD#:	WELL#:		
REV.	DWN.	DESCRIPTION	DATE