

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

API NUMBER: 073 26513

Approval Date: 03/25/2019

Expiration Date: 09/25/2020

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 20 Twp: 18N Rge: 8W

County: KINGFISHER

SPOT LOCATION:

FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 620 2302

Lease Name: PHILWW 1808

Well No: 17-1MH

Well will be 620 feet from nearest unit or lease boundary.

Operator Name: GASTAR EXPLORATION LLC

Telephone: 7137391800

OTC/OCC Number: 23199 0

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

JANET WEHREBERG  
10175 N 2760 ROAD  
LOYAL OK 73756

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	7968	6	
2	WOODFORD	8490	7	
3			8	
4			9	
5			10	

Spacing Orders: 691781

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201810080

Special Orders:

Total Depth: 13735

Ground Elevation: 1141

**Surface Casing: 250**

Depth to base of Treatable Water-Bearing FM: 200

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: No

**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 located in a Hydrologically Sensitive Area.

**Category of Pit: C**

**Liner not required for Category: C**

Pit Location is BED AQUIFER

Pit Location Formation: CEDAR HILLS

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

PERMIT NO: 19-36346

H. CLOSED SYSTEM=STEEL PITS (REQUIRED - CIMARRON RIVER)

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 17 Twp 18N Rge 8W County KINGFISHER

Spot Location of End Point: NE NW NW NE

Feet From: NORTH 1/4 Section Line: 150

Feet From: EAST 1/4 Section Line: 2200

Depth of Deviation: 7551

Radius of Turn: 768

Direction: 5

Total Length: 4978

Measured Total Depth: 13735

True Vertical Depth: 8490

End Point Location from Lease,  
Unit, or Property Line: 150

## Notes:

### Category

### Description

HYDRAULIC FRACTURING

3/11/2019 - 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](http://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](http://FRACFOCUS.ORG)

PENDING CD - 201810080

3/25/2019 - G56 - (I.O.) 17-18N-8W  
X691781 MSSP, WDFD  
COMPL INT NCT 150' FSL, NCT 150' FNL, NCT 660' FEL  
NO OP NAMED  
REC 1/8/2019 (M. PORTER)

SPACING - 691781

3/25/2019 - G56 - (640)(HOR) 17-18N-8W  
EXT 653404 MSSP, WDFD, OTHERS  
COMPL INT (MSSP) NCT 660' FB  
COMPL INT (WDFD) NCT 165' FNL OR FSL, NCT 330' FEL OR FWL  
(COEXIST WITH SP # 78191 MNNG, MSSSD; # 196294 CSTR, OTHERS)

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073 26513 PHILWW 1808 17-1MH

