

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

API NUMBER: 073 25478

Approval Date: 12/29/2016

Expiration Date: 06/29/2017

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 33 Twp: 18N Rge: 7W

County: KINGFISHER

SPOT LOCATION:

FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 148 2146

Lease Name: PICKLE

Well No: 33-1H

Well will be 148 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

MARILYN M PICKLE, TRUSTEE  
16426 EAST 680 ROAD  
DOVER OK 73734

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

Name	Depth	Name	Depth
1 MISS'AN (EX CHESTER)	7445	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 659205

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201605681

Special Orders:

Total Depth: 12387

Ground Elevation: 1056

**Surface Casing: 540**

Depth to base of Treatable Water-Bearing FM: 240

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? Y

Wellhead Protection Area? Y

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

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

PERMIT NO: 16-31737

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 33 Twp 18N Rge 7W County KINGFISHER

Spot Location of End Point: SW SE SE SW

Feet From: SOUTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 2200

Depth of Deviation: 6960

Radius of Turn: 402

Direction: 179

Total Length: 4795

Measured Total Depth: 12387

True Vertical Depth: 7445

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

## Notes:

### Category

### Description

HYDRAULIC FRACTURING

12/23/2016 - 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 - 201605681

12/23/2016 - G60 - (I.O.) 33-18N-7W  
X659205 MSNLC  
SHL NCT 0' FSL, NCT 660' FEL, NCT 660' FWL \*\*  
COMPL. INT. NCT 165' FSL, NCT 165' FNL, NCT 660' FEL  
NO OP. NAMED  
REC. 12/23/16 (P. PORTER)

\*\*SHL WILL BE CORRECTED AT HEARING FOR FINAL ORDER LOCATION EXCEPTION PER OPERATOR

PUBLIC WATER SUPPLY WELLS

12/23/2016 - G71 - KINGFISHER - 5 PWS/WPA, 2 - NW/4 33-18N-7W, 2 - SW/4 33-18N-7N, & 1 - NW/4 4-17N-7W

SPACING - 659205

12/23/2016 - G60 - (640)(HOR) 33-18N-7W  
EXT MSNLC  
COMPL. INT. NCT 660' FB  
(COEXIST WITH SP. ORDER 70345/74825 MSSSD)

SURFACE CASING

12/23/2016 - G71 - MIN. 300' PER ORDERS 23720/41036/42410

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073 25478 PICKLE 33-1H