

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

API NUMBER: 109 22436

Approval Date: 01/28/2015  
Expiration Date: 07/28/2015

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 22 Twp: 14N Rge: 4W

County: OKLAHOMA

SPOT LOCATION:  NW  NW  NW  NE

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 2459 185

Lease Name: EASTON

Well No: 22-3H

Well will be 1139 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

S C M J, LLC  
2701 W I-44 SERVICE ROAD  
OKLAHOMA CITY OK 73112

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

	Name	Depth	Name	Depth
1	HUNTON	6448	6	
2			7	
3			8	
4			9	
5			10	

Spacing Orders: 20212  
20688

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 14500

Ground Elevation: 1064

**Surface Casing: 650**

Depth to base of Treatable Water-Bearing FM: 600

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 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: FAIRMONT

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 15-29516  
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 27 Twp 14N Rge 4W County OKLAHOMA

Spot Location of End Point: NE SE NW SE

Feet From: SOUTH 1/4 Section Line: 1940

Feet From: WEST 1/4 Section Line: 1027

Depth of Deviation: 5800

Radius of Turn: 700

Direction: 170

Total Length: 7600

Measured Total Depth: 14500

True Vertical Depth: 6524

End Point Location from Lease,  
Unit, or Property Line: 293

Notes:

Category	Description
SPACING - 20212	1/28/2015 - G91 - (UNIT) W2 & W2 E2 & NE4 NE4 22 & NW4 & W2 NE4 27-14N-4W EST WEST EDMOND HUNTON LIME UNIT FOR HNTN
SPACING - 20688	1/28/2015 - G91 - (UNIT) NW4 SE4 27-14N-4W EXT 20212 WEST EDMOND HUNTON LIME UNIT