

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

API NUMBER: 109 22437

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:     FEET FROM QUARTER: FROM SOUTH FROM WEST  
 SECTION LINES: 2459 160

Lease Name: EASTON Well No: 22-4H 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 Location Exception Orders: Increased Density Orders:  
 22247

Pending CD Numbers: Special Orders:

Total Depth: 13450 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 D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 15-29517  
 Type of Mud System: WATER BASED H. CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST  
 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

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 11 Twp 14N Rge 4W County OKLAHOMA

Spot Location of End Point: NE NE SW SW

Feet From: SOUTH 1/4 Section Line: 1150

Feet From: WEST 1/4 Section Line: 1035

Depth of Deviation: 5900

Radius of Turn: 700

Direction: 27

Total Length: 6450

Measured Total Depth: 13450

True Vertical Depth: 6618

End Point Location from Lease,  
Unit, or Property Line: 170

Notes:

Category	Description
SPACING - 20212	1/28/2015 - G91 - (UNIT) W2 & W2 E2 & NE4 NE4 22-14N-4W EST WEST EDMOND HUNTON LIME UNIT FOR HNTN
SPACING - 22247	1/28/2015 - G91 - (UNIT) SW4 SW4 11-14N-4W EXT 20212 WEST EDMOND HUNTON LIME UNIT FOR HNTN