API NUMBER: 109 22433

Oil & Gas

Horizontal Hole

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

Approval Date: 10/16/2014
Expiration Date: 04/16/2015

PERMIT TO DRILL

WELL LOCATION: Sec: 33 Twp: 14N Rge: 4W County: OKLAHOMA

SPOT LOCATION: SW SE SE FEET FROM QUARTER: FROM SOUTH FROM WEST SECTION LINES: 196 1517

Lease Name: WARSAW Well No: 33-2H Well will be 1517 feet from nearest unit or lease boundary.

 Operator Name:
 GASTAR EXPLORATION INC
 Telephone:
 7137391800; 4057221
 OTC/OCC Number:
 23199
 0

GASTAR EXPLORATION INC 1331 LAMAR STE 650

HOUSTON, TX 77010-3131

JAY L WADE TRUST & JANNA L HEFLEY-WADE TRUST 16605 N MACARTHUR BLVD

EDMOND OK 73012

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

Name Depth Name Depth HUNTON 6720 1 6 2 7 3 8 4 9 10 20212 Spacing Orders: Location Exception Orders: Increased Density Orders:

Pending CD Numbers: Special Orders:

Total Depth: 13600 Ground Elevation: 1100 Surface Casing: 790 Depth to base of Treatable Water-Bearing FM: 740

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

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: SALT PLAINS

H. CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST

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

PERMIT NO: 14-28414

## HORIZONTAL HOLE 1

Sec 10 Twp 13N Rge 4W County OKLAHOMA

Spot Location of End Point: SW SE NE NW
Feet From: SOUTH 1/4 Section Line: 1553
Feet From: WEST 1/4 Section Line: 1984

Depth of Deviation: 6300
Radius of Turn: 509
Direction: 120
Total Length: 6500

Measured Total Depth: 13600

True Vertical Depth: 6742

End Point Location from Lease,
Unit, or Property Line: 1553

Notes:

Category Description

SPACING - 20212 10/16/2014 - G91 - (UNIT) 33-14N-4W & 4-13N-4W, W2, W2 E2 3-13N-4W, W2, W2 E2, SE4 NE4,

SE4 NE4 10-13N-4W

EST WEST EDMOND HUNTON LIME UNIT FOR HUNTON