API NUMBER: 109 22430 Α **OKLAHOMA CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION** P.O. BOX 52000 **OKLAHOMA CITY, OK 73152-2000** (Rule 165:10-3-1)

Approval Date: 09/04/2014 03/04/2015 Expiration Date:

Horizontal Hole Oil & Gas

Amend reason: SHL FOOTAGE CORRECTION

## AMEND PERMIT TO DRILL

WELL LOCATION:	Sec:	21	Twp:	14N	Rge:	4W	County	: OKL	AHOMA			
SPOT LOCATION:	SW	SW	SE		NW		FEET FROM QUARTER:	FROM	SOUTH	FROM	WEST	
							SECTION LINES:		309		1484	

Lease Name: DEER DRAW Well No: 21-5H Well will be 309 feet from nearest unit or lease boundary.

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

GASTAR EXPLORATION INC 1331 LAMAR STE 650

HOUSTON. 77010-3131 TX

TLW PROPERTIES LLC

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

H. CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST

PO BOX 54525

HOUSTON OK 77010

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

	Name	Depth	Name	Depth
1	HUNTON	6950 6		
2		7		
3		8		
4		9		
5		10		
Spacing Orders:	20212	Location Exception Orders:		Increased Density Orders:

Pending CD Numbers: Special Orders:

Total Depth: 7000 Ground Elevation: 1094 Depth to base of Treatable Water-Bearing FM: 770 Surface Casing: 830

Fresh Water Supply Well Drilled: No Under Federal Jurisdiction: 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?

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

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.

PERMIT NO: 14-28235

## HORIZONTAL HOLE 1

Sec 16 Twp 14N Rge 4W County OKLAHOMA

Spot Location of End Point: SE SW SE NW
Feet From: SOUTH 1/4 Section Line: 243
Feet From: WEST 1/4 Section Line: 1722

Depth of Deviation: 6200
Radius of Turn: 750
Direction: 177
Total Length: 6100

Measured Total Depth: 13400

True Vertical Depth: 6950

End Point Location from Lease,
Unit, or Property Line: 243

Notes:

Category Description

SPACING - 20212 9/4/2014 - G72 - 16 & NW & E2 21-14N-4W

EST WEST EDMOND HUNTON LIME UNIT FOR HNTN