API NUMBER: 083 24377

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: 02/20/2015

Expiration Date: 08/20/2015

PERMIT TO DRILL

WELL LOCATION: Sec: 31 Twp: 15N Rge: 4W County: LOGAN

SPOT LOCATION: NW NE NW SW FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 2496 937

Lease Name: BLAIR FARMS Well No: 31-1H Well will be 937 feet from nearest unit or lease boundary.

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

GASTAR EXPLORATION INC

1331 LAMAR STE 650

HOUSTON, TX 77010-3131

BLAIR FARMS LTD PARTNERSHIP

24451 N MACARTHUR

EDMOND OK 73025

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

Name Depth Name Depth HUNTON 6933 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: 14750 Ground Elevation: 1117 Surface Casing: 820 Depth to base of Treatable Water-Bearing FM: 770

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 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: 15-29591

HORIZONTAL HOLE 1

Sec 30 Twp 15N Rge 4W County **LOGAN**

Spot Location of End Point: NE ΝE NW NE Feet From: SOUTH 2390 1/4 Section Line: Feet From: WEST 1000 1/4 Section Line:

Depth of Deviation: 6000 Radius of Turn: 700

Direction: 18 Total Length: 7650

Measured Total Depth: 14750 True Vertical Depth: 6933 End Point Location from Lease, Unit, or Property Line: 250

Notes:

Category Description

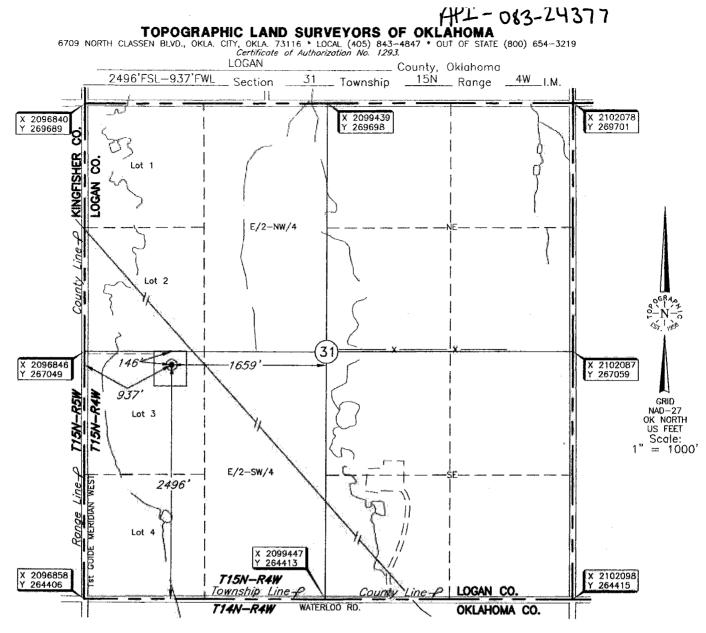
SPACING - 20212 2/20/2015 - G76 - (UNIT) 30-15N-4W LESS NE4 NE4

EST WEST EDMOND HUNTON LIME UNIT FOR HNTN

FACILITY

UNDERGROUND NATURAL GAS STORAGE 2/20/2015 - G76 - 30-15N-4W UNDERGROUND NATURAL GAS STORAGE IN BRVL PER ORDER #

46736; OPERATOR MUST COMPLY WITH OCC 165:10-3-5



NOTE:
The information shown herein is for construction purposes <u>ONLY.</u>

Operator: GASTAR EXPLORATION USA, INC. Lease Name: BLAIR FARMS	Well No.: <u>31-1H</u>	ELEVATION: 1117' Gr. at Stake
Topography & Vegetation <u>Location fell in</u> Good Drill Site? <u>Yes</u>	Reference Stakes or Alternate Location	
Best Accessibility to Location From cou Distance & Direction from Hwy Jct or Town From Jct. St. H County line, go ±5 miles West on Water	Hwy 74 & Waterloo Road, at Logan/Okl	
DATUM: NAD = 27 LAT: 35'43'58.0"N LONG: 97'40'14.0"W LAT: 35.732780284'N LONG: 97.670547715'W STATE PLANE COORDINATES (US FEET): ZONE: OK NORTH X: 2097784 Y: 266904	Date of Drawing: Fed. 9, 2 240169 Date Staked: Feb. 6, 2015 IFICATE: Thomas L. Howell an Oklahoma L. yor and an authorized agent of Topograyors of Oklahoma, do hereby certify to nation shown herein. Thomas L. Howell an Oklahoma L. yor and an authorized agent of Topograyors of Oklahoma, do hereby certify to nation shown herein.	icensed Land S THOMAS L. US