API NUMBER: 073 25638

Horizontal Hole Oil & Gas

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

Approval Date: 05/11/2017
Expiration Date: 11/11/2017

PERMIT TO DRILL

WELL LOCATION: Sec: 13 Twp: 18N Rge: 8W County: KINGFISHER

SPOT LOCATION: SE SW SE SE FEET FROM QUARTER: FROM **SOUTH** FROM **EAST**
SECTION LINES: **284** **770**

Lease Name: BAGWELL 1808 **Well No: 24-1H** **Well will be 284 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

HENRY AND MIKE ANDREWS
1006 WEST FAY
KINGFISHER OK 73750

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

	Name	Depth		Name	Depth
1	MISSISSIPPI LIME	7630	6		
2			7		
3			8		
4			9		
5			10		

Spacing Orders: 627272 Location Exception Orders: 660298 Increased Density Orders:

Pending CD Numbers: Special Orders:

Total Depth: 13365 Ground Elevation: 1103 **Surface Casing: 510** Depth to base of Treatable Water-Bearing FM: 270

Under Federal Jurisdiction: No Fresh Water Supply Well Drilled: No Surface Water used to Drill: No

PIT 1 INFORMATION

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 AP/TE DEPOSIT
Pit Location Formation: TERRACE

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 17-32543
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 24 Twp 18N Rge 8W County KINGFISHER

Spot Location of End Point: SW SE SE SE

Feet From: SOUTH 1/4 Section Line: 165

Feet From: EAST 1/4 Section Line: 440

Depth of Deviation: 7147

Radius of Turn: 817

Direction: 179

Total Length: 4934

Measured Total Depth: 13365

True Vertical Depth: 7782

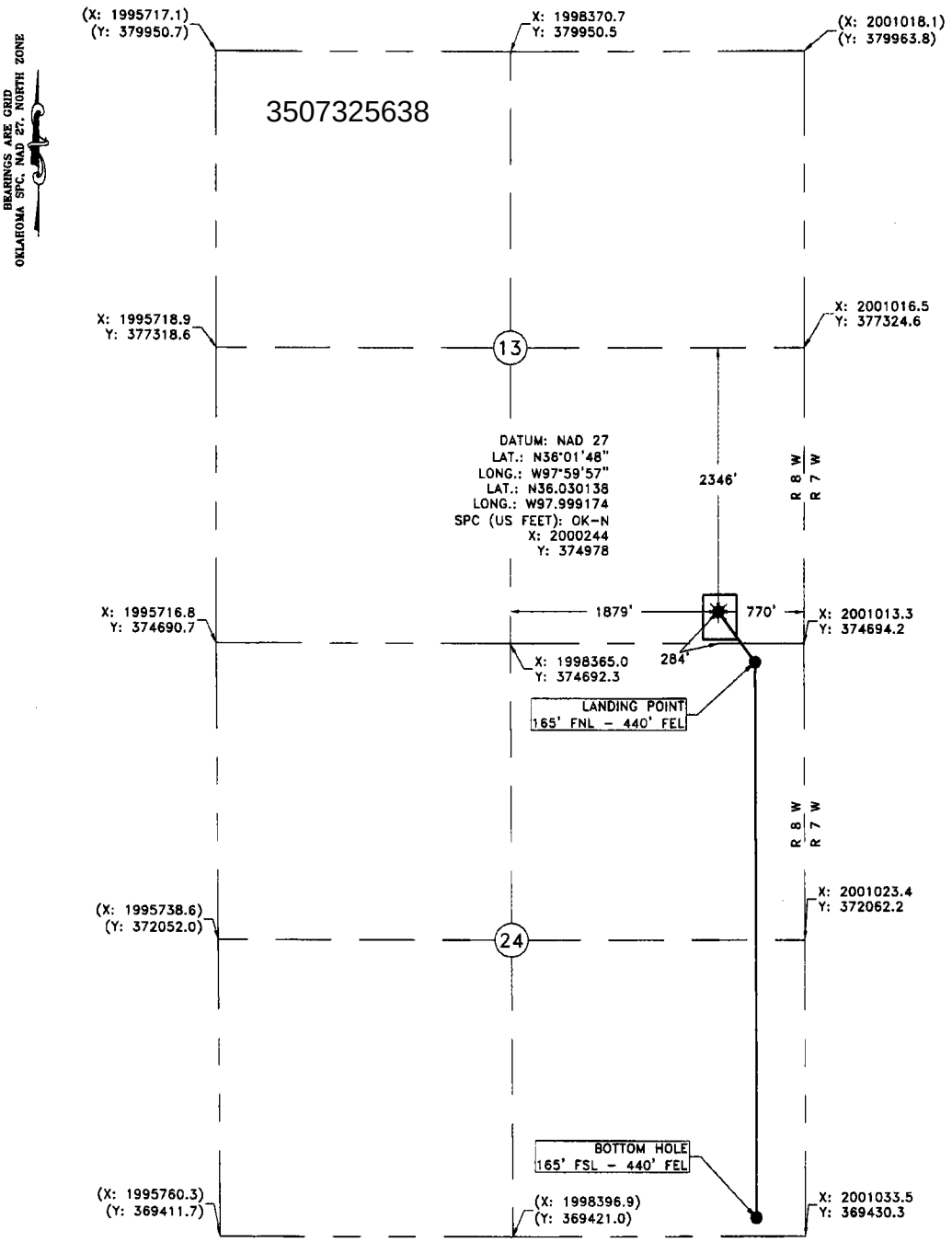
End Point Location from Lease,
Unit, or Property Line: 165

Notes:

Category	Description
HYDRAULIC FRACTURING	5/9/2017 - G71 - OCC 165:10-3-10 REQUIRES: 1) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS BE REPORTED TO FRACFOCUS USING THE FOLLOWING LINK HTTP://FRACFOCUS.ORG/ WITH NOTICE GIVEN 48 HOURS IN ADVANCE OF FRACTURING TO THE LOCAL OCC DISTRICT OFFICE; AND, 2) PRIOR TO COMMENCEMENT OF FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE ALSO GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE
LOCATION EXCEPTION - 660298	5/11/2017 - G60 - (I.O.) 24-18N-8W X627272 MSSLM SHL NCT 0' FNL, NCT 330' FEL, NCT 330' FWL POE TO BHL NCT 165' FNL, NCT 165' FSL, NCT 330' FEL OR FWL GASTAR EXPLORATION INC. 1/27/17
SPACING - 627272	5/11/2017 - G60 - (640)(HOR) 24-18N-8W EST 619219 MSSLM, OTHERS COMPL. INT. NCT 660' FB (COEXIST WITH SP. ORDER 565482 MSSLM)

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.

SECTIONS 13 & 24, T 18 N – R 8 W, I.M., KINGFISHER COUNTY, OKLAHOMA



Operator: GASTAR EXPLORATION, INC Date Staked: 05/04/17
Lease Name: BAGWELL 1808 24 Well No.: 1H Elevation: 1103'
Topography and Vegetation: PASTURE
Good Drill Site? YES Reference or Alt. Location Stakes Set: NONE
Best Accessibility to Location: FROM COUNTY ROAD
Distance and Direction from Hwy. Jct. or town: FROM DOVER HEAD WEST ON CO. RD. E0715 FOR 2.8 MILES, TURN NORTH ON CO. RD. N2830 FOR 3.5 MILES, TURN WEST ON E0680 FOR 2.2 MILES, TURN NORTH INTO LOCATION.

LEGEND
SURFACE LOCATION
EXISTING WELL WATER WELL/ABAND. WELL
PROPOSED DRILL PATH
EXISTING PIPELINE
ELECTRIC LINE
OVERHEAD POWER
FENCE

5-8-2017
FRED ANTHONY SELENSKY DATE
OKLAHOMA L.P.L.S. NO. 1860

NOTE:
This is a plat of a proposed well location and does not represent a true boundary survey. The information shown hereon shall not be relied upon for the location or establishment of land boundary lines. All of the positions shown hereon have not been verified as being actual Section, Quarter or Property corners. Positions shown in (Parentheses) are based upon local occupation and improvements or calculated per proportional measurement and/or G.L.O. record distances. Review this plat and notify Gateway Services Group, LLC immediately of any possible discrepancy.

LICENSED PROFESSIONAL LAND SURVEYOR
FRED ANTHONY SELENSKY
5-8-2017
1860
OKLAHOMA

Gateway
Gateway Services Group, LLC
P.O. BOX 980
MEEKER, OK 74855
OFF. (405) 273-0854
FAX (405) 273-0580
C.A. NO. 4091 (LS)
EXP. DATE 6-30-2018

EXHIBIT "A" PRELIMINARY
GASTAR EXPLORATION, INC
BAGWELL 1808 24-1H
284' FSL – 770' FEL
SECTIONS 13 & 24, T 18 N – R 8 W, I.M.,
KINGFISHER COUNTY, OKLAHOMA

DRAWN BY: CLC	DATE: 05/01/17	CHK'D: SDW
GATEWAY NO.: 17-0213-002 R1		SCALE: 1"=1000'
PAD#:		WELL#:

REV.	DWN.	DESCRIPTION	DATE
1	CLC	MOVED PAD AND SHL	05/09/17