API NUMBER: 073 25330

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: 07/05/2016

Expiration Date: 01/05/2017

PERMIT TO DRILL

WELL LOCATION:	Sec:	07	Twp:	18N	Rge:	7W	County:	KING	FISHER		
SPOT LOCATION:	SW	sw	S	W	SE		FEET FROM QUARTER:	FROM	SOUTH	FROM	WEST
							SECTION LINES:		223		170

Well will be 170 feet from nearest unit or lease boundary.

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

Well No: 7-1H

GASTAR EXPLORATION INC 1331 LAMAR STE 650

Lease Name: TOMAHAWK

HOUSTON, TX 77010-3131

WALTERSCHEIDT IRREVOCABLE TRUST 1210 COLEMAN TRAIL

KINGFISHER OK 73750

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

	Name	Depth	Name	Depth
1	OSWEGO	6639 6		
2		7		
3		8		
4		9		
5		10	0	
Spacing Orders:	653944	Location Exception Orders:		Increased Density Orders:

Pending CD Numbers: 201600498 Special Orders:

Total Depth: 11415 Ground Elevation: 1118 Surface Casing: 500 Depth to base of Treatable Water-Bearing FM: 300

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 AP/TE DEPOSIT
Pit Location Formation: TERRACE

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 16-31210

H. CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST

HORIZONTAL HOLE 1

Sec 07 Twp 18N Rge 7W County KINGFISHER

Spot Location of End Point: NW NW NW NE
Feet From: NORTH 1/4 Section Line: 165
Feet From: WEST 1/4 Section Line: 60

Depth of Deviation: 6140
Radius of Turn: 622
Direction: 359
Total Length: 4298

Measured Total Depth: 11415

True Vertical Depth: 6733

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

Notes:

Category Description

HYDRAULIC FRACTURING 7/1/2016 - 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.

PENDING CD - 201600498 7/1/2016 - G60 - (I.O.) 7-18N-7W

X653944 OSWG

SHL NCT 0' FSL, NCT 0' FEL, NCT 0' FWL

COMPL. INT. NCT 330' FSL, NCT 330' FNL, NCT 660' FEL

NO OP. NAMED

REC. 5-4-16 (M. PORTER)

SPACING - 653944 7/1/2016 - G60 - (640)(HOR) 7-18N-7W

EST OSWG, OTHER POE TO BHL NCT 660' FB

(COEXIST WITH SP. ORDER 49980 OSWG)