PI NUMBER: 073 25809 rizontal 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: Expiration Date:	10/30/2017 04/30/2018
		PERMIT TO DR	ILL			
WELL LOCATION: Sec: 34 Twp: 20N Rge:	7W County: KINGF	FISHER				
SPOT LOCATION: SW SE SW SE	FEET FROM QUARTER: FROM	SOUTH FROM	EAST			
	SECTION LINES:	163	1796			
Lease Name: BROADHEAD 2007	Well No:	34-1LOH	v	/ell will be 16	3 feet from neares	t unit or lease boundary.
Operator GASTAR EXPLORATION INC Name:		Telephone: 713	7391800	ΟΤ	C/OCC Number:	23199 0
GASTAR EXPLORATION INC 1331 LAMAR STE 650			FRED & LOU	IISE BROWN	I FAMILY LLC	
		6713 NW 119TH STREET				
HOUSTON, TX		OKLAHOMA	CITY	OK 73	3162	
1 MISSISSIPPIAN 2 WOODFORD 3 4 5 Spacing Orders: No Spacing	6955 7439 Location Exception C	6 7 8 9 10 Drders:		Increas	sed Density Orders:	
Pending CD Numbers: 201700351				Specia	l Orders:	
201705848				-		
Total Depth: 12670 Ground Elevation:	1108 Surface C	Casing: 600		Depth to ba	se of Treatable Water	Bearing FM: 360
Under Federal Jurisdiction: No	Fresh Water	Supply Well Drilled:	No		Surface Water us	sed to Drill: No
PIT 1 INFORMATION		Аррі	oved Method for dispo	osal of Drilling Flu	ids:	
Type of Pit System: CLOSED Closed System Means Steel Pits Type of Mud System: WATER BASED			D. One time land application (REQUIRES PERMIT) PERMIT NO: 17-3318. H. CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST			
Chlorides Max: 5000 Average: 3000 Is depth to top of ground water greater than 10ft below	base of pit? Y	H. (	2002D 0101EM=0	ILL FIIS FER		
Within 1 mile of municipal water well? N						
Wellhead Protection Area? N						
Pit is located in a Hydrologically Sensitive Area.						
Fit is located in a Hydrologically Sensitive Area.						
Category of Pit: C						
Category of Pit: C						

## GARFIELD Sec 34 Twp 20N Rge 7W County Spot Location of End Point: N2 N2 NI\// NE Feet From: NORTH 1/4 Section Line: 150 Feet From: EAST 1/4 Section Line: 1980 Depth of Deviation: 6667 Radius of Turn: 750 Direction: 358 Total Length: 4825 Measured Total Depth: 12670 True Vertical Depth: 7439 End Point Location from Lease. Unit. or Property Line: 150 Notes: Description Category HYDRAULIC FRACTURING 10/17/2017 - G57 - OCC 165:10-3-10 REQUIRES: 1) PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE: 2) WITH NOTICE ALSO GIVEN 48 HOURS IN ADVANCE OF HYDRAULIC FRACTURING ALL WELLS TO BOTH THE OCC CENTRAL OFFICE AND LOCAL DISTRICT OFFICES, USING THE "FRAC NOTICE FORM" FOUND AT THE FOLLOWING LINK: OCCEWEB.COM/OG/OGFORMS.HTML; AND, 3) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS TO BE REPORTED TO FRACFOCUS WITHIN 60 DAYS AFTER THE CONCLUSION THE HYDRAULIC FRACTURING OPERATIONS, USING THE FOLLOWING LINK: FRACFOCUS.ORG PENDING CD - 201700351 10/18/2017 - G58 - (640) (HOR) 34-20N-7W EXT 649454 MSSP, WDFD, OTHERS COMPL. INT. (WDFD) NCT 165' FNL & FSL, 330' FWL & FEL COMPL. INT. (MSSP) NCT 660' FB (COEXIST SP. ORDER # 56529 MSSSD N2, SE4; ORDER # 56529/191579 MSSSD SW4 & ORDER # 60370/65632 MNNG) REC 10/10/2017 (P. PORTER) PENDING CD - 201705848 10/18/2017 - G58 - (I.O.) 34-20N-7W X201700351 MSSP, WDFD COMPL. INT. NCT 150' FSL, NCT 150' FNL, NCT 660' FWL OR FEL NO OP. NAMED REC 10/10/2017 (P. PORTER) 10/30/2017 - G58 - 163' FSL, 1796' FEL SE4 34-20N-7W PER STAKING PLAT SURFACE LOCATION

HORIZONTAL HOLE 1