PI NUMBER: 073 25363 prizontal Hole Oil & Gas	OIL & GAS (F OKLAHOI (I	ORPORATION COMMISS CONSERVATION DIVISIO P.O. BOX 52000 MA CITY, OK 73152-2000 Rule 165:10-3-1) ERMIT TO DRILL	N		08/19/2016 02/19/2017
	County: KINGFIS EET FROM QUARTER: FROM N ECTION LINES: 25	ORTH FROM WEST			
Lease Name: GEIS	Well No: 3	1-1H	Well will be	253 feet from nearest u	nit or lease boundary.
Operator GASTAR EXPLORATION INC Name:		Telephone: 7137391800		OTC/OCC Number:	23199 0
GASTAR EXPLORATION INC 1331 LAMAR STE 650 HOUSTON, TX 7	7010-3131	DANNY ROUTE HITCHC	1 BOX 11	OK 7374	44
Formation(s) (Permit Valid for Listed Forma	ations Only): Depth	Name		Depth	
1 MISS'AN (EX CHESTER) 2 3 4 5	7950	6 7 8 9 10			
Spacing Orders: 655245	Location Exception Or	ders:	Ir	ncreased Density Orders:	
Pending CD Numbers: 201603033			s	pecial Orders:	
Total Depth: 13466 Ground Elevation: 1141	Surface Ca	nsing: 580	Depth	to base of Treatable Water-Be	aring FM: 340
Under Federal Jurisdiction: No	Fresh Water St	upply Well Drilled: No		Surface Water used to Drill: No	
PIT 1 INFORMATION		Approved Method for	or disposal of Drillir	ng Fluids:	
Type of Pit System: CLOSED Closed System Means Stee Type of Mud System: WATER BASED Chlorides Max: 5000 Average: 3000 Is depth to top of ground water greater than 10ft below base				REQUIRES PERMIT) PERMIT NO: 16-31499 ITS PER OPERATOR REQUEST	
Within 1 mile of municipal water well? N Wellhead Protection Area? N	οιριι? τ				
Pit is located in a Hydrologically Sensitive Area. Category of Pit: C					
Liner not required for Category: C Pit Location is BED AQUIFER					

HORIZONTAL HOLE 1

Sec 31 Twp 18N Rge 8W Cour	ty KINGFISHER				
Spot Location of End Point: NW NE NE	E NW				
Feet From: SOUTH 1/4 Section Line:	2477				
Feet From: WEST 1/4 Section Line:	2103				
Depth of Deviation: 7633					
Radius of Turn: 700					
Direction: 5					
Total Length: 4733					
Measured Total Depth: 13466					
True Vertical Depth: 8285					
End Point Location from Lease,					
Unit, or Property Line: 165					
Notes:					
Category	Description				
HYDRAULIC FRACTURING	8/19/2016 - 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 - 201603033	8/19/2016 - G64 - (I.O.) 31-18N-8W X655245 MSNLC, OTHERS SHL NCT 0' FSL, NCT 660' FEL & FWL ** COMPL. INT. NCT 165' FSL, NCT 165' FNL, NCT 660' FEL & FWL NO OP. NAMED REC. 8-16-2016 (DUNN)				
	**SHL S/B 253' FNL, 1742' FWL 6-17N-8W; WILL BE CORRECTED AT HEARING FOR FINAL ORDER PER OPERATOR				
SPACING - 655245	8/19/2016 - G64 - (640)(HOR) 31-18N-8W EXT 642895 MSNLC EXT OTHERS POE TO BHL NLT 660' FB (COEXIST SP. ORDER #77564 MSSSD, OTHERS)				