PI NUMBER: 045 23549	OKLAHOMA CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION P.O. BOX 52000 OKLAHOMA CITY, OK 73152-2000		Approval Date: 12/18/2014 Expiration Date: 06/18/2015		
rizontal Hole Oil & Gas		e 165:10-3-1)			
	PERI	MIT TO DRILL			
		<u></u>			
WELL LOCATION: Sec: 05 Twp: 19N Rge: 25W	County: ELLIS				
SPOT LOCATION: S2 S2 SW SW	FEET FROM QUARTER: FROM SOUT	H FROM WEST 660			
Lease Name: BRENT IMKE 5-19-25	Well No: 1H	Well v	vill be 285 feet from near	est unit or lease boundary.	
Operator CHESAPEAKE OPERATING LLC Name:	Tel	ephone: 4059358143; 4059358	OTC/OCC Number:	17441 0	
CHESAPEAKE OPERATING LLC					
PO BOX 18496		T. BRENT IMKE	T. BRENT IMKE		
OKLAHOMA CITY, OK 7	3154-0496	ROUTE 2, BOX	71		
	0104 0400	SHATTUCK	OK	73858	
2 3 4 5 Spacing Orders: 82943	Location Exception Orders:	7 8 9 10	Increased Density Orders:		
614132					
Pending CD Numbers: 201408505 201408504			Special Orders:		
Total Depth: 13650 Ground Elevation: 248	3 Surface Casin	g: 1500	Depth to base of Treatable Wat	er-Bearing FM: 590	
Under Federal Jurisdiction: No	Fresh Water Supply	Well Drilled: No	Surface Water	used to Drill: No	
PIT 1 INFORMATION		Approved Method for disposal of	of Drilling Fluids:		
Type of Pit System: ON SITE		A. Evaporation/dewater and ba	ackfilling of reserve pit.		
Type of Mud System: WATER BASED		D. One time land application	- (REQUIRES PERMIT)	PERMIT NO: 14-2916	
Chlorides Max: 25000 Average: 8000 Is depth to top of ground water greater than 10ft below base	H. SEE MEMO			-	
Within 1 mile of municipal water well? N					
Wellhead Protection Area? N					
Pit is located in a Hydrologically Sensitive Area.					
Category of Pit: 1B					
Liner required for Category: 1B					
Pit Location is BED AQUIFER Pit Location Formation: OGALLALA					

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. PIT 2 INFORMATION Type of Pit System: ON SITE Type of Mud System: OIL BASED Chlorides Max: 300000 Average: 160000 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: 3 Liner required for Category: 3

Pit Location is BED AQUIFER Pit Location Formation: OGALLALA

## HORIZONTAL HOLE 1

Sec	05	Twp	19N	Rge	25W	County	ELLIS
Spot	Location	n of En	d Point	:: N2	2 N2	NW	NW
Feet	From:	NOF	RTH	1/4 Se	ction Lir	ie: 20	00
Feet	From:	WE	ST	1/4 Se	ction Lir	ne: 66	50
Depth of Deviation: 8079							
Radius of Turn: 780							
Direction: 360							
Total Length: 4346							
Measured Total Depth: 13650							
True Vertical Depth: 8859							
End Point Location from Lease,							
Unit, or Property Line: 200							
Notes:							

Notes.	
Category	Description
DEEP SURFACE CASING	12/4/2014 - G76 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY FOR ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON CONDUCTOR OR SURFACE CASING
MEMO	12/4/2014 - G76 - PIT 1 & 2 - CONCRETE-LINED PIT PER OPERATOR REQUEST; PIT 2 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT
PENDING CD - 201408504	12/16/2014 - G75 - 5-19N-25W X82943/614132 CLVD 1 WELL NO OP. NAMED REC 12-15-2014 (P. PORTER)
PENDING CD - 201408505	12/16/2014 - G75 - (I.O.) 5-19N-25W X82943/614132 CLVD, OTHER COMPL. INT. NCT 300 FSL, NCT 300 FNL, NCT 560 FWL NO OP. NAMED REC 12-15-2014 (P. PORTER)
SPACING - 614132	12/16/2014 - G75 - 5-19N-25W CLARIFY 82943 FOR DEPTH TO TOP AND BASE OF CLVD
SPACING - 82943	12/16/2014 - G75 - (640) 5-19N-25W EST CLVD, OTHERS