PI NUMBER: 045 23475 rizontal Hole Oil & Gas	OIL & GAS	CORPORATIO S CONSERVATI P.O. BOX 5200 OMA CITY, OK (Rule 165:10-3	ON DIVISION 00 73152-2000	Approval Da Expiration D	
		PERMIT TO DR	ILL		
WELL LOCATION: Sec: 32 Twp: 19N Rge: 2 SPOT LOCATION: SW SW SE SE	26W County: ELLIS FEET FROM QUARTER: FROM SECTION LINES:	SOUTH FROM	EAST		
Lease Name: RIPPSTEIN 32-19-26	Well No:	1H		Well will be 230 feet from r	earest unit or lease boundary.
Operator CHESAPEAKE OPERATING INC Name:		Telephone: 405	9358143; 4059358	OTC/OCC Numb	er: 17441 0
CHESAPEAKE OPERATING INC					
PO BOX 18496	O BOX 18496		JACK WILS		
OKLAHOMA CITY, OK 73154-0496			134 JUNIP		
			BOERNE	TX	78006
3 COTTAGE GROVE 4 CLEVELAND 5 MARMATON Spacing Orders: 100596 105527 50000	8355 8680 8909 Location Exception	8 9 10 Orders: 624439		Increased Density Ord	ers:
599096 Pending CD Numbers:				Special Orders:	
Total Depth: 16500 Ground Elevation: 2	2407 Surface	Casing: 1500		Depth to base of Treatable	Water-Bearing FM: 450
Under Federal Jurisdiction: No	Fresh Water	Supply Well Drilled:	No	Surface W	ater used to Drill: No
PIT 1 INFORMATION		App	oved Method for di	sposal of Drilling Fluids:	
Type of Pit System: ON SITE					
Type of Mud System: WATER BASED Chlorides Max: 25000 Average: 8000			Dne time land appli SEE MEMO	cation (REQUIRES PERMIT)	PERMIT NO: 14-2724
Is depth to top of ground water greater than 10ft below b Within 1 mile of municipal water well? N Wellhead Protection Area? N	pase of pit? Y				
Pit is located in a Hydrologically Sensitive Area. Category of Pit: 1B					
Liner required for Category: 1B					

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 29 Twp 19N Rge 26W County ELLIS Spot Location of End Point: W2 NW NE SE Feet From: SOUTH 1/4 Section Line: 2310 Feet From: EAST 1/4 Section Line: 1000 Depth of Deviation: 10697 Radius of Turn: 780 Direction: 360 Total Length: 4711 Measured Total Depth: 16500 True Vertical Depth: 11477 End Point Location from Lease, Unit, or Property Line: 1000

Notes:	
Category	Description
DEEP SURFACE CASING	5/14/2014 - G71 - APPROVED CONTINGENT ON NOTIFYING OCC FIELD STAFF IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING
LOCATION EXCEPTION - 624439	5/16/2014 - G72 - FRAC 32 & S2 FRAC 29-19N-26W X 100596/105527 DGLS, TNKW, CGGV, CLVD; X 599096 MRMN; COMP INT. NCT 330 FNL NCT 560 FEL S2 FRAC 29; NCT 330 FSL NCT 560 FEL FRAC 32; CHK CLEVELAND TONKAWA, L.L.C.,CHESAPEAKE OPERATING, INC; 4/24/2014
MEMO	5/14/2014 - G71 - PITS 1 & 2 - CONCRETE LINED PIT PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
SPACIING - 105527	5/16/2014 - G72 - (640)(IRR) FRAC 32 & S2 FRAC 29-19N-26W AND FRAC 20 & N2 29-19N-26W (TWO UNITS); REFORM 100596 DGLS, TNKW, CGGV, CLVD, OTHERS; REFORM OTHERS
SPACING - 100596	5/16/2014 - G72 - (640) 32 & 29-19N-26W (SEPARATE UNITS) EST DGLS, TNKW, CGGV,CLVD; EXT OTHERS
SPACING - 599096	5/16/2014 - G72 - (640)(IRR) FRAC 32 & S2 FRAC 29-19N-26W EST MRMN