PI NUMBER: 119 24211 rizontal Hole Oil & Gas	OIL & GAS OKLAHO	CORPORATION CONSERVATION P.O. BOX 5200 MA CITY, OK 7 (Rule 165:10-3-	ON DIVISION 0 3152-2000	Approval Date: 04/11/2014 Expiration Date: 10/11/2014
	Ē	PERMIT TO DR	<u>LL</u>	
WELL LOCATION: Sec: 28 Twp: 18N Rge: 4E	County: PAYNE	1		
		NORTH FROM E	AST	
s	ECTION LINES: 3	2313 2	389	
Lease Name: HELDRETH 28 18N 4E	Well No:	1WH	Well	I will be 313 feet from nearest unit or lease bounda
Operator AMERICAN ENERGY-WOODFORD LL Name:	С	Telephone: 4054	188001; 4054188	OTC/OCC Number: 23358 0
AMERICAN ENERGY-WOODFORD LLC			HELDRETH FA	
PO BOX 18756				
OKLAHOMA CITY, OK 73	73154-0756		7624 E. DEEP	
			RIPLEY	OK 74062
1 WOODFORD 2 3 4 5	3940	6 7 8 9 10		
Spacing Orders: 610402	Location Exception O	rders:		Increased Density Orders:
Pending CD Numbers: 201401636				Special Orders:
ů – Elektrik Alektrik – Elektrik –				
Total Depth: 9750 Ground Elevation: 883	Surface C	asing: 330		Depth to base of Treatable Water-Bearing FM: 280
Under Federal Jurisdiction: No	Fresh Water Supply Well Drilled: No		No	Surface Water used to Drill: Yes
PIT 1 INFORMATION		Appro	ved Method for disposa	I of Drilling Fluids:
Type of Pit System: CLOSED Closed System Means Stee	el Pits			
Type of Mud System: WATER BASED		D. C	ne time land application	(REQUIRES PERMIT) PERMIT NO: 14-2
Chlorides Max: 5000 Average: 3000		Н. С	LOSED SYSTEM=STEE	EL PITS (REQUIRED - CUSHING LAKE)
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? Y				
Pit <b>is</b> located in a Hydrologically Sensitive Area.				
Category of Pit: C				
Liner not required for Category: C				
Pit Location is BED AQUIFER				
Pit Location Formation: VANOSS				

## HORIZONTAL HOLE 1

Sec 28 Twp 18N Rge 4E County PAYNE Spot Location of End Point: S2 S2 S2 SE Feet From: SOUTH 1/4 Section Line: 165 Feet From: EAST 1/4 Section Line: 1320 Depth of Deviation: 3949 Radius of Turn: 637 Direction: 170 Total Length: 4800 Measured Total Depth: 9750 True Vertical Depth: 3940 End Point Location from Lease, Unit, or Property Line: 165 Notes: Description Category 4/11/2014 - G75 - (I.O.) 28-18N-4E PENDING CD - 201401636 X610402 WDFD COMPL. INT. NCT 165 FNL, NCT 165 FSL, NCT 990 FEL NO OP. NAMED REC 3-24-2014 (MCKEOWN) SPACING - 610402 4/11/2014 - G75 - (640)(HOR) 28-18N-4E VAC OTHERS EXT 596282 WDFD, OTHERS EST OTHER POE TO BHL NCT 330' FB (SUPERSEDE NON-DEVELOPED NON-HORIZONTAL SPACING UNITS; COEXIST OTHERS) 4/8/2014 - G71 - RIPLEY PWA, NW4 28-18N-R4E WELLHEAD PROTECTION AREA