PI NUMBER: 083 24356 rizontal Hole Oil & Gas	OKLAHOMA CORPORATIC OIL & GAS CONSERVAT P.O. BOX 520 OKLAHOMA CITY, OK (Rule 165:10-3	TION DIVISION 000 173152-2000	Approval Date: 12/04/2014 Expiration Date: 06/04/2015
	PERMIT TO D	RILL	
WELL LOCATION: Sec: 12 Twp: 16N Rge: 3W	County: LOGAN		
SPOT LOCATION: N2 N2 N2 NW	FEET FROM QUARTER: FROM NORTH FROM	WEST	
	SECTION LINES: 200	1320	
Lease Name: SHIPMAN	Well No: 1-1 MH	Well will	be 200 feet from nearest unit or lease boundary.
Operator OSAGE EXPLORATION & DEVELOR Name:	PMENT INC Telephone: 40	052700989	OTC/OCC Number: 23098 0
OSAGE EXPLORATION & DEVELOPME 324 N ROBINSON AVE STE 800 OKLAHOMA CITY, OK	ENT INC 73102-6419	NORMA JEANNE & 3727 W COLLEGE GUTHRIE	& MERLE SHIPMAN AVENUE OK 73044
Formation(s) (Permit Valid for Listed Form Name 1 MISSISSIPPIAN 2 3	nations Only): Depth 5260 6 7 8		Depth
4	9		
5	1(0	
Spacing Orders: 623828 626309	Location Exception Orders: 624290		Increased Density Orders:
Pending CD Numbers:			Special Orders:
Total Depth: 10393 Ground Elevation: 103	³ Surface Casing: 540	De	pth to base of Treatable Water-Bearing FM: 490
Under Federal Jurisdiction: No	Fresh Water Supply Well Drilled: No Surface Water used to Drill:		Surface Water used to Drill: No
PIT 1 INFORMATION	Ap	proved Method for disposal of D	rilling Fluids:
Type of Pit System: CLOSED Closed System Means St		•	
Type of Mud System: WATER BASED		. One time land application (R	EQUIRES PERMIT) PERMIT NO: 14-2905
Chlorides Max: 5000 Average: 3000	H. CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST		
Is depth to top of ground water greater than 10ft below bas	e 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: C			
Category of Pit: C Liner not required for Category: C			

HORIZONTAL HOLE 1

Sec 01 Twp 16N Rge 3W County LOGAN Spot Location of End Point: N2 N2 NW NW 200 Feet From: NORTH 1/4 Section Line: Feet From: WEST 1/4 Section Line: 660 Depth of Deviation: 5050 Radius of Turn: 400 Direction: 352 Total Length: 4715 Measured Total Depth: 10393 True Vertical Depth: 5749 End Point Location from Lease. Unit, or Property Line: 200 Notes: Description Category LOCATION EXCEPTION - 624290 12/4/2014 - G91 - (I.O.) 1-16N-3W X623828/626309 MSSP, OTHERS COMPL. INT. NCT 200 FNL, NCT 200 FSL, NCT 660 FWL OSAGE EXPLORATION & DEVELOPMENT, INC. 4-22-2014 SPACING - 623828 12/4/2014 - G91 - (640)(HOR)1-16N-3W EXT 612015 MSSP, OTHERS VAC 136591 MSSLM, OTHER POE TO BHL NCT 660' FB (SUPERCEDE NON-DEVELOP NON-HORIZONTAL SPACING UNITS) SPACING - 626309 12/4/2014 - G91 - CONFIRM 623828 DUE TO RESPONDENTS NOTIFICATIONS

