| PI NUMBER: 117 23575 vrizontal Hole Oil & Gas | OIL & GAS (F OKLAHON | ORPORATION COMMISS CONSERVATION DIVISIO P.O. BOX 52000 MA CITY, OK 73152-2000 Rule 165:10-3-1) | | |
|---|-------------------------------------|--|-------------------------------|-------------------------------|
| | PI | ERMIT TO DRILL | | |
| WELL LOCATION: Sec: 34 Twp: 20N Rge: 8E | County: PAWNEI | F | | |
| | | | | |
| | SECTION LINES: 24 | | | |
| Lease Name: CECKLER | | -27H | Well will be 245 feet from ne | arest unit or lease boundary. |
| Operator OSAGE EXPLORATION & DEVELOP Name: | MENT INC | Telephone: 4052700989 | OTC/OCC Number | r: 23098 0 |
| OSAGE EXPLORATION & DEVELOPME 100 PARK AVE STE 1040 | - | WILLIAM P.O. BO | I H. CECKLER K 189 | |
| OKLAHOMA CITY, OK 7 | 3102-8018 | HANCOC | CK ME | 04640 |
| 1 MISSISSIPPIAN 2 3 4 5 | 2650 | 6 7 8 9 10 | | |
| acing Orders: 616642 Location Exception Orders: 6170 | | ders: 617009 | Increased Density Order | S: |
| Pending CD Numbers: | | | Special Orders: | |
| Total Depth: 7921 Ground Elevation: 771 | Surface Ca | ising: 340 | Depth to base of Treatable W | ater-Bearing FM: 270 |
| Under Federal Jurisdiction: No | Fresh Water Supply Well Drilled: No | | Surface Wat | er used to Drill: Yes |
| PIT 1 INFORMATION | Approved Method for disposal of | | disposal of Drilling Fluids: | |
| Type of Pit System: CLOSED Closed System Means Ste | el Pits | | | |
| Type of Mud System: WATER BASED | D. One time land application | | plication (REQUIRES PERMIT) | PERMIT NO: 13-2501 |
| Chlorides Max: 5000 Average: 3000 Is depth to top of ground water greater than 10ft below base Within 1 mile of municipal water well? N | of pit? Y | H. CLOSED SYSTE | M=STEEL PITS PER OPERATOR REQ | UEST |
| Wellhead Protection Area? N Pit is located in a Hydrologically Sensitive Area. | | | | |
| Category of Pit: C | | | | |
| Liner not required for Category: C | | | | |
| Pit Location is ALLUVIAL | | | | |
| FILLOCATION IS ALLOVIAL | | | | |

HORIZONTAL HOLE 1

Sec 27 Twp 20N Rge 8E County PAWNEE Spot Location of End Point: NE NW NE NW 300 Feet From: NORTH 1/4 Section Line: EAST Feet From: 1/4 Section Line: 844 Depth of Deviation: 2089 Radius of Turn: 786 Direction: 359 Total Length: 4597 Measured Total Depth: 7921 True Vertical Depth: 2875 End Point Location from Lease, Unit, or Property Line: 300

Notes:CategoryDescriptionLOCATION EXCEPTION - 61700912/18/2013 - G75 - (I.O.) 27-20N-8E
X616642 MSSP
COMPL. INT. NCT 200 FSL, NCT 200 FNL, NCT 300 FWL
OSAGE EXPLOR. & DEVELOP., INC.
10-15-2013SPACING - 61664212/18/2013 - G75 - (640)(HOR) 27-20N-8E
EST MSSP, OTHER
POE TO BHL NCT 660' FB
(SUPERSEDE NON-DEVELOPED NON-HORIZONTAL SPACING UNITS; COEXIST KLINTWORTH
3, API 117-22304, MSSCT, NE4, LEASE BASIS)