API NUMBER: 083 24276

Oil & Gas

Horizontal Hole

OKLAHOMA CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION P.O. BOX 52000 OKLAHOMA CITY, OK 73152-2000 (Rule 165:10-3-1)

Approval Date: 03/14/2014
Expiration Date: 09/14/2014

PERMIT TO DRILL

WELL LOCATION: Sec: 11 Twp: 16N Rge: 3W SPOT LOCATION: NW NW NW NW FEET FROM SECTION L Lease Name: OSAGE WHITTEN Operator OSAGE EXPLORATION & DEVELOPMENT III	Well No: 1-2WH	FROM WEST 201 hone: 4052700989	Well will be 201 feet from nearest unit or lease boundary. OTC/OCC Number: 23098 0
OSAGE EXPLORATION & DEVELOPMENT IN 100 PARK AVE STE 1040 OKLAHOMA CITY, OK 73102-		BARBARA 1318 S ST PITTSBUF	
Formation(s) (Permit Valid for Listed Formations	s Only): Depth	Name	Depth
1 WOODFORD 2 3 4	5785	6 7 8 9	
5 Spacing Orders: No Spacing	Location Exception Orders:	10	Increased Density Orders:
Pending CD Numbers: 201401249 201401252			Special Orders:
Total Depth: 10576 Ground Elevation: 962	Surface Casing:	500	Depth to base of Treatable Water-Bearing FM: 390
Under Federal Jurisdiction: No PIT 1 INFORMATION	Fresh Water Supply W		Surface Water used to Drill: Yes isposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT)

H. CLOSED SYSTEM=STEEL PITS PER OPERATOR OPTION

Type of Pit System: CLOSED Closed System Means Steel Pits

Is depth to top of ground water greater than 10ft below base of pit? Y

is located in a Hydrologically Sensitive Area.

Type of Mud System: WATER BASED

Within 1 mile of municipal water well? N

Chlorides Max: 5000 Average: 3000

Liner not required for Category: C
Pit Location is BED AQUIFER
Pit Location Formation: GARBER

Wellhead Protection Area?

Category of Pit: C

PERMIT NO: 14-26603

HORIZONTAL HOLE 1

Sec 02 Twp 16N Rge 3W County **LOGAN** Spot Location of End Point: N2 N2 NW NW Feet From: 200 NORTH 1/4 Section Line: WEST Feet From: 1/4 Section Line: 660

Depth of Deviation: 5200
Radius of Turn: 10
Direction: 359
Total Length: 4129

Measured Total Depth: 10576

True Vertical Depth: 5846

End Point Location from Lease,
Unit, or Property Line: 200

Notes:

Category Description

PENDING CD - 201401249 3/6/2014 - G30 - (640 HOR) 2-16N-3W

EXT 612015 WDFD, OTHERS

DEL OTHERS

REC 3/11/14 (CANDLER)

PENDING CD - 201401252 3/6/2014 - G30 - 2-16N-3W

X201401249 WDFD, OTHERS

COMP. INT. NCT 200 FNL, NCT 200 FSL, NCT 660 FWL

NO OP. NAMED

REC 3/11/14 (CANDLER)