

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

API NUMBER: 117 23590

Approval Date: 03/25/2014
Expiration Date: 09/25/2014

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 09 Twp: 22N Rge: 5E County: PAWNEE
SPOT LOCATION: W2 W2 SW SE FEET FROM QUARTER: FROM SOUTH FROM EAST
SECTION LINES: 660 2440

Lease Name: CLO Well No: 1-16H Well will be 660 feet from nearest unit or lease boundary.

Operator Name: CUMMINGS OIL COMPANY Telephone: 4059481818; 4059481 OTC/OCC Number: 5481 0

CUMMINGS OIL COMPANY
5400 NW GRAND BLVD STE 100
OKLAHOMA CITY, OK 73112-6113

KERRY & LENORA GASKEY
49773 E 43 ROAD
PAWNEE OK 73112

Formation(s) (Permit Valid for Listed Formations Only):

Name	Depth	Name	Depth
1 MISSISSIPPI	3385	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 6476 Ground Elevation: 973 **Surface Casing: 350** Depth to base of Treatable Water-Bearing FM: 160

Under Federal Jurisdiction: No Fresh Water Supply Well Drilled: No Surface Water used to Drill: No

PIT 1 INFORMATION

Type of Pit System: ON SITE

Type of Mud System: WATER BASED

Chlorides Max: 5000 Average: 3000

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: 2

Liner not required for Category: 2

Pit Location is BED AQUIFER

Pit Location Formation: VANOSS

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

This permit does not address the right of entry or settlement of surface damages.
The duration of this permit is SIX MONTHS, except as otherwise provided by Rule 165: 10-3-1.
Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation Division as to when Surface Casing will be run.

HORIZONTAL HOLE 1

Sec 16 Twp 22N Rge 5E County PAWNEE

Spot Location of End Point: C SW SW NE

Feet From: SOUTH 1/4 Section Line: 330

Feet From: WEST 1/4 Section Line: 330

Depth of Deviation: 3000

Radius of Turn: 583

Direction: 180

Total Length: 1980

Measured Total Depth: 6476

True Vertical Depth: 3583

End Point Location from Lease,
Unit, or Property Line: 330

Notes:

Category

Description

POINT OF ENTRY

3/25/2014 - G30 - POINT OF ENTRY WILL BE GREATER THAN 330' FROM LEASE BOUNDARY LINE

SPACING

3/25/2014 - G30 - FORMATION UNSPACED, 160 ACRE LEASE (NE4)