

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

API NUMBER: 117 23497

Approval Date: 08/01/2012
Expiration Date: 02/01/2013

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 13 Twp: 22N Rge: 4E County: PAWNEE
SPOT LOCATION: SE NE NW NW FEET FROM QUARTER: FROM NORTH FROM WEST
SECTION LINES: 450 1245

Lease Name: BURDETT Well No: 1-12H Well will be 450 feet from nearest unit or lease boundary.
Operator Name: CUMMINGS OIL COMPANY Telephone: 4059481818 OTC/OCC Number: 5481 0

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

NANCY RENNIE
630 E 65 ROAD
PONCA CITY OK 74604

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

Name	Depth	Name	Depth
1	MISSISSIPPI	3475	6
2			7
3			8
4			9
5			10

Spacing Orders: 599765

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201203695

Special Orders:

Total Depth: 9025

Ground Elevation: 957

Surface Casing: 350

Depth to base of Treatable Water-Bearing FM: 250

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: No

PIT 1 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

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: C

Liner not required for Category: C

Pit Location is BED AQUIFER

Pit Location Formation: OSCAR

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

H. CLOSED SYSTEM=STEEL PITS REQUIRED - SKEDEE CREEK/BLACK BEAR WATERSHED

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 12 Twp 22N Rge 4E County PAWNEE

Spot Location of End Point: NW NE NW NW

Feet From: NORTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 800

Depth of Deviation: 2850

Radius of Turn: 800

Direction: 360

Total Length: 4950

Measured Total Depth: 9025

True Vertical Depth: 3625

End Point Location from Lease,
Unit, or Property Line: 165

Additional Surface Owner	Address	City, State, Zip
JOHN RENNIE	1315 155TH STREET	EUREKA, KS 67045

Notes:

Category

Description

PENDING CD - 201203695

8/1/2012 - G30 - 12-22N-4E
X201202907 MISS
SHL NCT 165 FNL, NCT 660 FWL 13-22N-4E
POE NLT 0 FSL, NLT 560 FWL 12-22N-4E
COMP. INT. NLT 165 FSL, NLT 165 FNL, NLT 560 FWL 12-22N-4E
BHL NLT 165 FNL, 560 FWL 12-22N-4E
NO OP. NAMED
REC 7/26/12 (M.PORTER)

SPACING - 599765

8/1/2012 - G30 - (640 HOR) 12-22N-4E
X592853 MISS, OTHERS
NLT 660 FB