

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

API NUMBER: 125 23872

Approval Date: 10/01/2014
Expiration Date: 04/01/2015

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 24 Twp: 9N Rge: 4E

County: POTTAWATOMIE

SPOT LOCATION: SE SE SE NW

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 161 2340

Lease Name: SOUTH HOTULKE UNIT

Well No: 5-5

Well will be 2340 feet from nearest unit or lease boundary.

Operator Name: TCINA INC

Telephone: 4053820399

OTC/OCC Number: 11432 0

TCINA INC
PO BOX 470
SEMINOLE, OK 74818

JIM SING
22387 KINGS ROAD
TECUMSEH OK 74873

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

Name	Depth	Name	Depth
1 HUNTON	4300	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 313834

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 7500

Ground Elevation: 936

Surface Casing: 530

Depth to base of Treatable Water-Bearing FM: 480

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: Yes

PIT 1 INFORMATION

Type of Pit System: ON SITE

Type of Mud System: WATER BASED

Chlorides Max: 8000 Average: 5000

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: 1B

Liner required for Category: 1B

Pit Location is BED AQUIFER

Pit Location Formation: VANOSS

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

E. Haul to Commercial pit facility: Sec. 19 Twn. 8N Rng. 5E Cnty. 125 Order No: 274874

H. SOIL COMPACTED PIT, NOTIFY DISTRICT PRIOR TO TESTING SOIL PIT LINER

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 23 Twp 9N Rge 4E County POTTAWATOMIE

Spot Location of End Point: SE NE SE SE

Feet From: SOUTH 1/4 Section Line: 907

Feet From: WEST 1/4 Section Line: 2387

Depth of Deviation: 3400

Radius of Turn: 800

Direction: 235

Total Length: 3300

Measured Total Depth: 7500

True Vertical Depth: 4300

End Point Location from Lease,
Unit, or Property Line: 2387

Notes:

Category

Description

SPACING - 313834

10/1/2014 - G72 - (UNIT) SE & S2 NE 23-9N-4E & 24-89N-4E
EST SOUTH HOTULKE UNIT FOR HNTN