

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

API NUMBER: 125 23830

Approval Date: 10/17/2013
Expiration Date: 04/17/2014

Horizontal Hole Oil & Gas

PERMIT TO DRILL

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

County: POTTAWATOMIE

SPOT LOCATION: NE SW SW NE

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 590 626

Lease Name: SOUTH HOTULKE UNIT

Well No: 9-4H

Well will be 2014 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 74818-0470

NORMA E. WILLIAMS
500 SW 151 ST
MOORE OK 73170

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

Name	Depth	Name	Depth
1 HUNTON	4200	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: 926

Surface Casing: 580

Depth to base of Treatable Water-Bearing FM: 530

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.

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

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

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 13 Twp 9N Rge 4E County POTTAWATOMIE

Spot Location of End Point: C NE SE SE

Feet From: SOUTH 1/4 Section Line: 990

Feet From: WEST 1/4 Section Line: 2310

Depth of Deviation: 3400

Radius of Turn: 800

Direction: 30

Total Length: 3000

Measured Total Depth: 7500

True Vertical Depth: 4300

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

Additional Surface Owner	Address	City, State, Zip
BRYAN W. NADEAU	298 JUNITA WAY	SAN FRANCISCO, CA 94127
JANENE GRABER	20979 REDBUD LN, LOT 2	TECUMSEH, OK 74873

Notes:

Category

SPACING - 313834

Description

10/17/2013 - G30 - (UNIT) S2 SE4 & E2 SE4 SW4 13 & 24-9N-4E
EST SOUTH HOTULKE UNIT FOR HNTN