

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

API NUMBER: 045 23415

Approval Date: 12/11/2013

Expiration Date: 06/11/2014

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 08 Twp: 19N Rge: 22W County: ELLIS

SPOT LOCATION: FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 260 1980

Lease Name: VADER

Well No: 8-3HCG

Well will be 260 feet from nearest unit or lease boundary.

Operator Name: MIDSTATES PETROLEUM COMPANY LLC

Telephone: 7135959400

OTC/OCC Number: 23079 0

MIDSTATES PETROLEUM COMPANY LLC
4400 POST OAK PKWY STE 1900
HOUSTON, TX 77027-3444

KENNETH SHERRILL & DIANA SHERRILL
P.O. BOX 293
ARNETT OK 73832

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

Name	Depth	Name	Depth
1 COTTAGE GROVE	8150	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 184936

Location Exception Orders:

Increased Density Orders: 619052

Pending CD Numbers: 201307311

Special Orders:

Total Depth: 13099

Ground Elevation: 2385

Surface Casing: 760

Depth to base of Treatable Water-Bearing FM: 710

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: 30000 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: OGALLALA

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

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 08 Twp 19N Rge 22W County ELLIS

Spot Location of End Point: C N2 N2 N2

Feet From: NORTH 1/4 Section Line: 330

Feet From: WEST 1/4 Section Line: 2640

Depth of Deviation: 7710

Radius of Turn: 440

Direction: 8

Total Length: 4698

Measured Total Depth: 13099

True Vertical Depth: 8150

End Point Location from Lease,

Unit, or Property Line: 330

Notes:

Category

Description

INCREASED DENSITY - 619052

12/11/2013 - G75 - 8-19N-22W
X184936 CGGV
1 WELL
MIDSTATES PETRO. CO.
12-11-2013

PENDING CD - 201307311

12/11/2013 - G75 - (I.O.) 8-19N-22W
X184936 CGGV
COMPL. INT. NCT 330 FSL, NCT 330 FNL, NCT 330 FWL
NO OP. NAMED
REC 11-26-2013 (STUCK)

SPACING - 184936

12/11/2013 - G75 - (640) 8-19N-22W
EXT 63011/168917 CGGV
EXT OTHERS

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.

045 23415 VADER 8-3HCG