

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

API NUMBER: 007 25640

Approval Date: 10/02/2013
Expiration Date: 04/02/2014

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 21 Twp: 1N Rge: 20ECM County: BEAVER

SPOT LOCATION: SE NW NW NW FEET FROM QUARTER: FROM NORTH FROM WEST
SECTION LINES: 600 550

Lease Name: BOWLES Well No: 4H 21-16 Well will be 550 feet from nearest unit or lease boundary.

Operator Name: CHAPARRAL ENERGY LLC Telephone: 4054264481 OTC/OCC Number: 16896 0

CHAPARRAL ENERGY LLC
701 CEDAR LAKE BLVD
OKLAHOMA CITY, OK 73114-7800

MARY ANN HAMILTON CHAPMAN
7655 E. WINDLAWN WAY
PARKER CO 80134-

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

Name	Depth	Name	Depth
1 MARMATON	6038	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 607552

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201305921
201305920

Special Orders:

Total Depth: 11625

Ground Elevation: 2878

Surface Casing: 2000

Depth to base of Treatable Water-Bearing FM: 480

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: 50000 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 16 Twp 1N Rge 20E County BEAVER

Spot Location of End Point: NE NW NW NW

Feet From: NORTH 1/4 Section Line: 200

Feet From: WEST 1/4 Section Line: 550

Depth of Deviation: 6045

Radius of Turn: 715

Direction: 360

Total Length: 5100

Measured Total Depth: 11625

True Vertical Depth: 6125

End Point Location from Lease,
Unit, or Property Line: 200

Additional Surface Owner	Address	City, State, Zip
GLENDAL. BARRETT	1600 AUGUSTA DRIVE, APT. 221	HOUSTON, TX 77057-
ANGELA D. CUMMINGS	15007 STREET PLACE NE	KENMORE, WA 98028-
DAVID R. HAMILTON	1350 SW 14TH PLACE	NORTH BEND, WA 98045
MXINE FERN L'HEUREUX-RICE	108 WILD TURKEY LANE	FRANKLIN, VA 23851-

Notes:

Category

Description

DEEP SURFACE CASING

10/2/2013 - G71 - APPROVED CONTINGENT ON NOTIFYING OCC FIELD STAFF IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING

PENDING CD - 201305920

10/2/2013 - G30 - W2 16 & W2 21-1N-20ECM
X607552 MRMN
3 WELLS
NO OP. NAMED
REC 9/30/13 (LEAVITT)

PENDING CD - 201305921

10/2/2013 - G30 - W2 16 & W2 21-1N-20ECM
X607552 MRMN, OTHERS
COMP. INT. NCT 4950 FSL, NCT 500 FWL, NCT 165 FNL
NO OP. NAMED
REC 9/30/13 (LEAVITT)

SPACING - 607552

10/2/2013 - G30 - (640 HOR)(IRR) W2 16 & W2 21-1N-20ECM
EST MRMN, OTHERS
POE TO BHL NCT 660' FB