

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

API NUMBER: 047 25162

Approval Date: 07/25/2018  
Expiration Date: 01/25/2019

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 11 Twp: 21N Rge: 6W

County: GARFIELD

SPOT LOCATION:  NE  NW  NW  NW

FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 233 630

Lease Name: KIMBER 2106

Well No: 1LMH-2

Well will be 233 feet from nearest unit or lease boundary.

Operator Name: CHAPARRAL ENERGY LLC

Telephone: 4054264451; 4054264

OTC/OCC Number: 16896 0

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

ROSEMARY K. BREDHOFT TRUST  
708 EAST FOURTH ST  
PANA IL 62557

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

Name	Depth	Name	Depth
1	MISSISSIPPIAN	6214	6
2			7
3			8
4			9
5			10

Spacing Orders: 648678

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201802738  
201802739

Special Orders:

Total Depth: 11521

Ground Elevation: 1103

**Surface Casing: 600**

Depth to base of Treatable Water-Bearing FM: 350

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: Yes

**PIT 1 INFORMATION**

Type of Pit System: CLOSED Closed System Means Steel Pits

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: C**

**Liner not required for Category: C**

Pit Location is BED AQUIFER

Pit Location Formation: KINGMAN

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT)

PERMIT NO: 18-34506

H. CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST

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 02 Twp 21N Rge 6W County GARFIELD

Spot Location of End Point: NE NW NW NW

Feet From: NORTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 560

Depth of Deviation: 5734

Radius of Turn: 573

Direction: 359

Total Length: 4887

Measured Total Depth: 11521

True Vertical Depth: 6721

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

Additional Surface Owner	Address	City, State, Zip
BRUCE B. BREDEHOFT	580 HILLWOOD DR	COOKVILLE, TN 38506
ESTATE OF JAMES D. BREDEHOFT	1508 HOECHESTER RD	SPRINGFIELD, IL 62712

Notes:

Category

Description

HYDRAULIC FRACTURING

7/12/2018 - G71 - OCC 165:10-3-10 REQUIRES:

1) PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE;

2) WITH NOTICE ALSO GIVEN 48 HOURS IN ADVANCE OF HYDRAULIC FRACTURING ALL WELLS TO BOTH THE OCC CENTRAL OFFICE AND LOCAL DISTRICT OFFICES, USING THE "FRAC NOTICE FORM" FOUND AT THE FOLLOWING LINK: [OCCEWEB.COM/OG/OGFORMS.HTML](http://OCCEWEB.COM/OG/OGFORMS.HTML); AND,

3) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS TO BE REPORTED TO FRACFOCUS WITHIN 60 DAYS AFTER THE CONCLUSION THE HYDRAULIC FRACTURING OPERATIONS, USING THE FOLLOWING LINK: [FRACFOCUS.ORG](http://FRACFOCUS.ORG)

PENDING CD - 201802738

7/25/2018 - G57 - (I.O.) 2-21N-6W  
X648678 MSSP  
COMPL. INT. NCT 165' FSL, NCT 165' FNL, NCT 330' FWL  
NO OP. NAMED  
REC 4-30-2018 (P. PORTER)

PENDING CD - 201802739

7/25/2018 - G57 - (I.O.) 2-21N-6W  
X165:10-3-28(C)(2)(B) MSSP (KIMBER 2106 1LMH-2) MAY BE CLOSER THAN 600' TO THE LICHTENBERG A-1 & BROOKS C-1  
CHAPARRAL ENERGY, LLC.  
REC 4-30-2018 (P. PORTER)

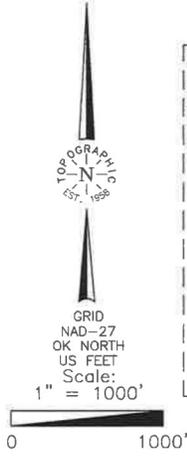
SPACING - 648678

7/25/2018 - G57 - (640)(HOR) 2-21N-6W  
VAC 59432 MISS E2, E2 SW4  
EST MSSP, OTHER  
POE TO BHL NLT 660' FB  
(COEXIST W/ SP. 59432 MISS W2 NW4, E2 NW4, W2 SW4 )

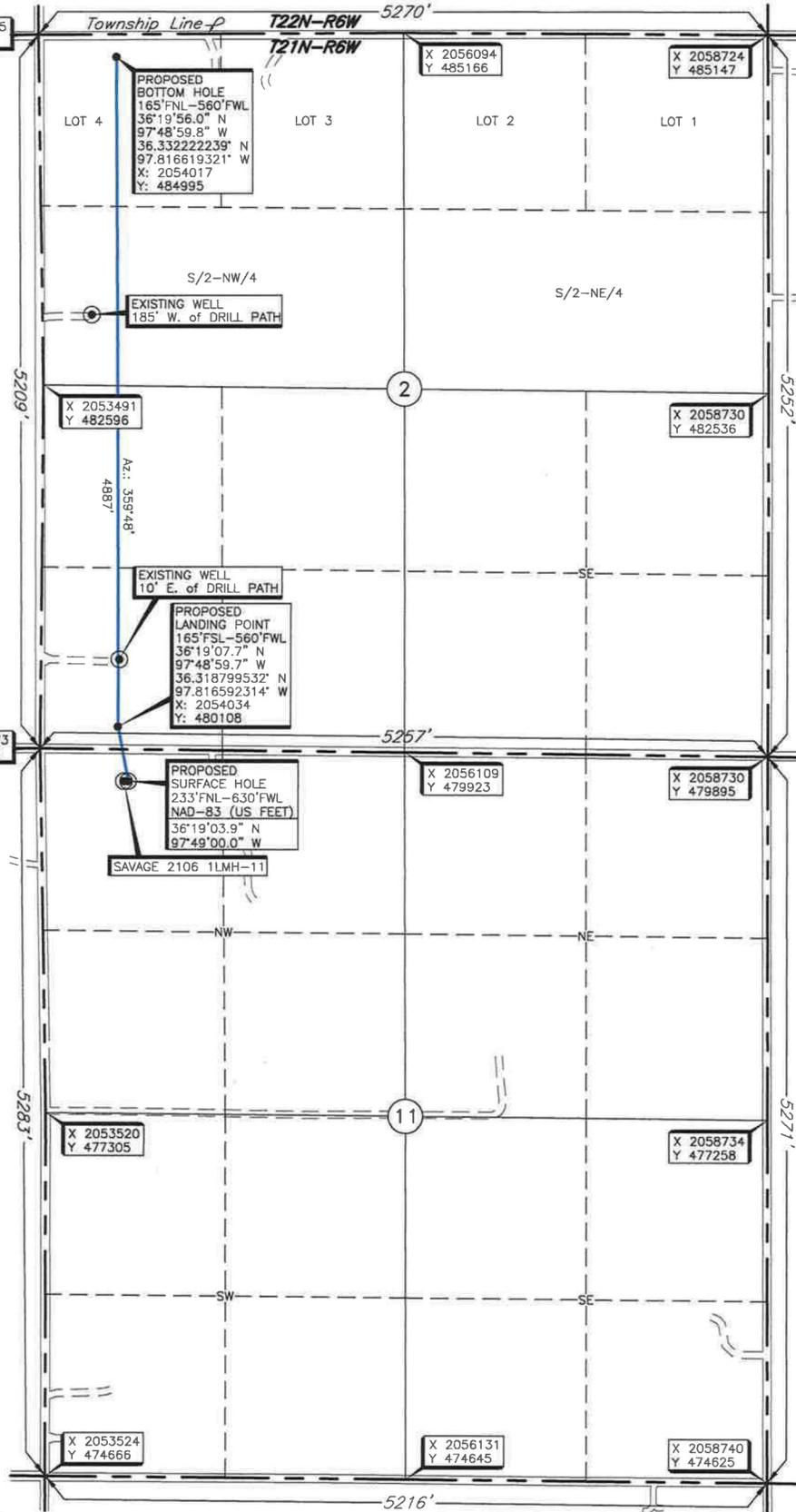
CARFIELD

County, Oklahoma

233'FNL-630'FWL Section 11 Township 21N Range 6W I.M.



LANDING POINT, BOTTOM HOLE AND DRILL PATH INFORMATION PROVIDED BY OPERATOR LISTED, NOT SURVEYED.



Operator: CHAPARRAL ENERGY, LLC.  
 Lease Name: KIMBER 2106  
 Topography & Vegetation Location fell in pasture  
 Well No.: 1LMH-2  
 ELEVATION:  
 1104' Gr. at Stake (NAVD 88)  
 1103' Gr. at Stake (NGVD 29)

Good Drill Site?  Yes  
 Reference Stakes or Alternate Location  
 Stakes Set  None

Best Accessibility to Location From North off county road  
 Distance & Direction from Hwy Jet or Town From US Hwy 81 & US Hwy 412/US Hwy 60 in End, Oklahoma, go ± 5 miles South on US Hwy 81, then ± 4 miles East to the Northwest Corner of Section 11, T21N-R6W.

THE INFORMATION SHOWN HEREIN IS FOR CONSTRUCTION PURPOSES ONLY

DATUM: NAD-27  
 LAT: 36°19'03.7" N  
 LONG: 97°48'58.8" W  
 LAT: 36.317703937° N  
 LONG: 97.816346122° W  
 STATE PLANE  
 COORDINATES (US FEET):  
 ZONE: OK NORTH  
 X: 2054107  
 Y: 479710

Date of Drawing: May 8, 2018  
 Invoice # 293478A Date Staked: May 2, 2018 NB

**CERTIFICATE:**  
 I, Thomas L. Howell, an Oklahoma Licensed Land Surveyor and an authorized agent of Topographic Land Surveyors of Oklahoma, do hereby certify to the information shown herein.

*Thomas L. Howell*  
 Oklahoma Lic. No. 1433

