

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

API NUMBER: 017 25598

Approval Date: 01/23/2020

Expiration Date: 07/23/2021

Horizontal Hole

Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 05 Twp: 10N Rge: 6W

County: CANADIAN

SPOT LOCATION:

FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 232 2157

Lease Name: HOOD 1006

Well No: 2LMH-5

Well will be 232 feet from nearest unit or lease boundary.

Operator Name: CHAPARRAL ENERGY LLC

Telephone: 4054788770; 4054264

OTC/OCC Number: 16896 0

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

KEVIN RAY & JENNIFER A. BORNEMANN
9600 SOUTH MANNING ROAD
UNION CITY OK 73090

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	9763	6	
2			7	
3			8	
4			9	
5			10	

Spacing Orders: 243747

Location Exception Orders: 700347

Increased Density Orders: 698256

Pending CD Numbers:

Special Orders:

Total Depth: 14700

Ground Elevation: 1287

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 250

Deep surface casing has been approved

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: Yes

PIT 1 INFORMATION

Approved Method for disposal of Drilling Fluids:

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: WATER BASED

Chlorides Max: 5000 Average: 3000

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: DUNCAN

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

PERMIT NO: 20-37218

H. SEE MEMO

This permit does not address the right of entry or settlement of surface damages.

The duration of this permit is 18 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.

PIT 2 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: OIL BASED

Chlorides Max: 300000 Average: 200000

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: DUNCAN

HORIZONTAL HOLE 1

Sec 05 Twp 10N Rge 6W County CANADIAN

Spot Location of End Point: SE SE SE SW

Feet From: SOUTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 2400

Depth of Deviation: 9300

Radius of Turn: 573

Direction: 179

Total Length: 4500

Measured Total Depth: 14700

True Vertical Depth: 9900

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

Notes:

Category

Description

DEEP SURFACE CASING

1/22/2020 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING

HYDRAULIC FRACTURING

1/22/2020 - 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; 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

INCREASED DENSITY - 698256 (201902647)

1/23/2020 - GC2 - 5-10N-6W
X243747 MSSP
4 WELLS
CHAPARRAL ENERGY, LLC
6-24-2019

LOCATION EXCEPTION - 700347 (201902649)

1/23/2020 - GC2 - (I.O.) 5-10N-6W
X243747 MSSP
X165:10-3-28 (C)(2)(B) MAY BE CLOSER THAN 600' FROM PROPOSED WELLS, MCCOMAS 5-1,
BORNEMANN 1-5, BORNEMANN 2-5, BORNEMANN 3-5
COMPL. INT. NCT 150' FNL, NCT 150' FSL, NCT 330' FEL/FWL
CHAPARRAL ENERGY, LLC
8-6-2019

This permit does not address the right of entry or settlement of surface damages.

017 25598 HOOD 1006 2LMH-5

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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.

MEMO

1/22/2020 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 -
OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

SPACING - 243747

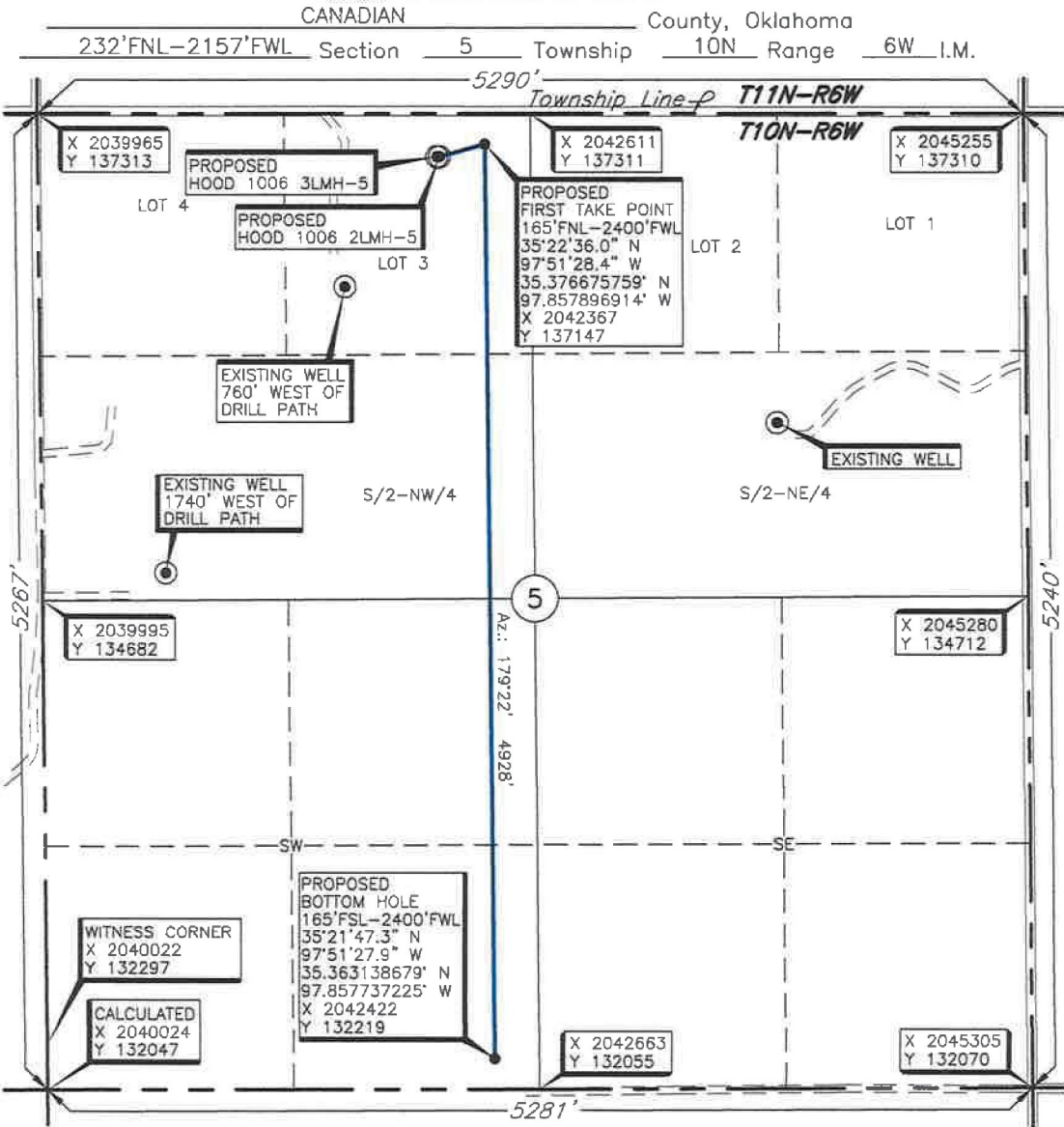
1/23/2020 - GC2 - (640) 5-10N-6W
EST OTHERS
EXT OTHERS
EXT 231308/239218 MSSP, OTHERS

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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.

API: 017-25598

13800 Wireless Way, Okla. City, OK. 73134 * LOCAL (405) 843-4847 * OUT OF STATE (800) 654-3219
Certificate of Authorization No. 1292 LS

TOPOGRAPHIC LAND SURVEYORS



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

THE INFORMATION SHOWN HEREIN IS
FOR CONSTRUCTION PURPOSES ONLY.

Operator: CHAPARRAL ENERGY, LLC.

Lease Name: HOOD 1006

Well No.: 2LMH-5 1287' Gr. at Stake

ELEVATION:

Topography & Vegetation Loc. fell in wheat field.

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 Jct or Town From the junction of US Hwy 40/US Hwy 270 & Banner Road, East of El Reno, Oklahoma,
go ± 8.5 miles South on Banner Road, then West ± 0.5 mile to the North Quarter Corner of Section 5, T10N-R6W.

DATUM: NAD-27
LAT: 35°22'35.4" N
LONG: 97°51'31.4" W
LAT: 35.376493027° N
LONG: 97.858710386° W
STATE PLANE
COORDINATES (US FEET):
ZONE: OK NORTH
X: 2042125
Y: 137080

Revision ☒ 1 Date of Drawing: Jan. 20, 2020
Project # 126107 Date Staked: Jan. 17, 2020 KH

CERTIFICATE:

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

Thomas L. Howell
Oklahoma Reg. No. 1433

