

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

API NUMBER: 017 24981

Approval Date: 03/10/2017
Expiration Date: 09/10/2017

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 11 Twp: 14N Rge: 8W

County: CANADIAN

SPOT LOCATION: NE NW NW NW

FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 158 600

Lease Name: BIG TIMBER 1408

Well No: 1UMH-2

Well will be 158 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

EDWARD H. ROTHER
225 SOUTH 4TH ST.
OKARCHE OK 73762

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

Name	Depth	Name	Depth
1	MISSISSIPPIAN	9077	6
2			7
3			8
4			9
5			10

Spacing Orders: 660410

Location Exception Orders: 661430

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 14200

Ground Elevation: 1192

Surface Casing: 590

Depth to base of Treatable Water-Bearing FM: 340

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 not located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is NON HSA

Pit Location Formation: CHICKASHA

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

PERMIT NO: 17-32239

H. SEE MEMO

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.

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 not located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is NON HSA

Pit Location Formation: CHICKASHA

HORIZONTAL HOLE 1

Sec 02 Twp 14N Rge 8W County CANADIAN

Spot Location of End Point: NE NW NW NW

Feet From: NORTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 410

Depth of Deviation: 8707

Radius of Turn: 402

Direction: 359

Total Length: 4862

Measured Total Depth: 14200

True Vertical Depth: 9307

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

Notes:

Category

Description

HYDRAULIC FRACTURING

3/9/2017 - G71 - OCC 165:10-3-10 REQUIRES: 1) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS BE REPORTED TO FRACFOCUS USING THE FOLLOWING LINK [HTTP://FRACFOCUS.ORG/](http://fracfocus.org/) WITH NOTICE GIVEN 48 HOURS IN ADVANCE OF FRACTURING TO THE LOCAL OCC DISTRICT OFFICE; AND, 2) PRIOR TO COMMENCEMENT OF FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE ALSO GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE

INTERMEDIATE CASING

3/9/2017 - G71 - DUE TO THE KNOWN POTENTIAL RISK OF ENCOUNTERING AN OVER-PRESSURED ZONE IN THE MORROW SERIES IN THIS AREA, THE TECHNICAL MANAGER RECOMMENDS SETTING AN INTERMEDIATE STRING OF CASING IMMEDIATELY ABOVE THE MORROW SERIES

LOCATION EXCEPTION - 661430

3/10/2017 - G60 - (I.O.) 2-14N-8W
X660410 MSSP
COMPL. INT. NCT 150' FSL, NCT 150' FNL, NCT 330' FWL
CHAPARRAL ENERGY, LLC.
2/28/17

MEMO

3/9/2017 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

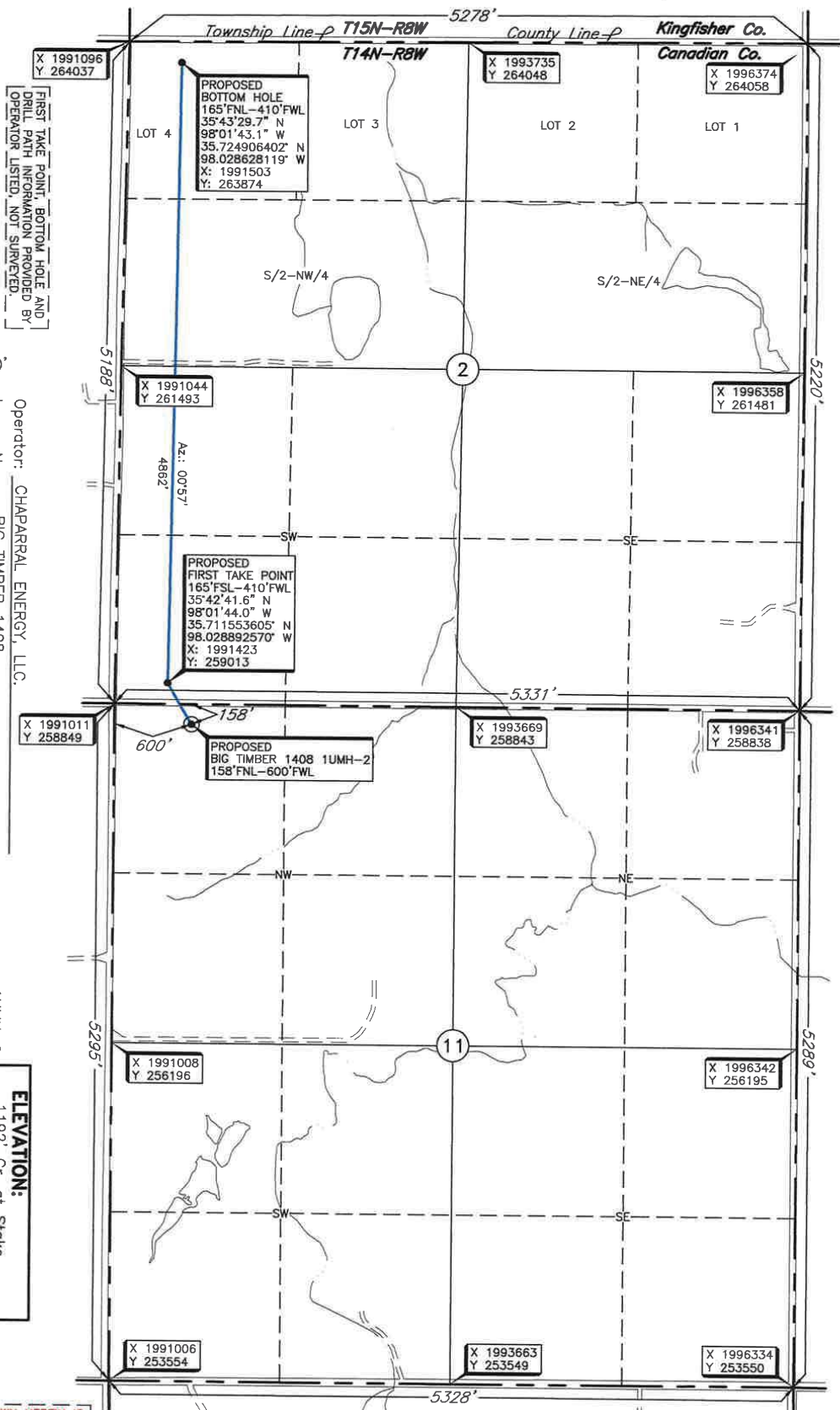
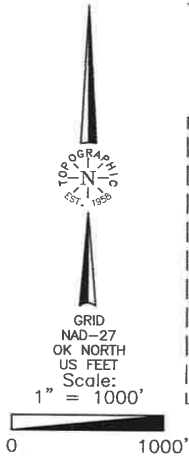
SPACING - 660410

3/10/2017 - G60 - (640)(HOR) 2-14N-8W
EXT 647318 MSSP
EXT OTHER
COMPL. INT. NCT 660' FB
(COEXIST WITH SP. ORDER 137750 MNNG, MSSSD)

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.

3501724981

CANADIAN County, Oklahoma
 158'FNL-600'FWL Section 11 Township 14N Range 8W I.M.



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

Operator: CHAPARRAL ENERGY, LLC.
 Lease Name: BIG TIMBER 1408
 Topography & Vegetation Loc. fall in pasture
 Well No.: 1UMH-2
 ELEVATION: 1192' Gr. at Stake

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/St. Hwy 3 in Okarche, Oklahoma, go ± 3 miles West on paved road, then ± 1 mile South to the Northwest Corner of Section 11, T14N-R8W.

THE INFORMATION SHOWN HEREIN IS FOR CONSTRUCTION PURPOSES ONLY

DATUM: NAD-27
 LAT: 35°42'38.4" N
 LONG: 98°01'41.7" W
 LAT: 35.710665046° N
 LONG: 98.028259706° W
 STATE PLANE COORDINATES (US FEET):
 ZONE: OK NORTH
 X: 1991611
 Y: 258690

Date of Drawing: Feb. 2, 2017
 Invoice # 269537 Date Staked: Jan. 31, 2017 NMB

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

