

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

API NUMBER: 017 25132

Approval Date: 11/29/2017

Expiration Date: 05/29/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 29 Twp: 12N Rge: 6W

County: CANADIAN

SPOT LOCATION:

FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 465 485

Lease Name: KATMAI 1206

Well No: 1UMH-29

Well will be 465 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

GEORGE CURTIS POSPISIL
1906 MAY FLOWER DRIVE
SILVER SPRINGS MD 20905

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	8930	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201705245
201706925
201705247

Special Orders:

Total Depth: 14150

Ground Elevation: 1331

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 280

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 AP/TE DEPOSIT

Pit Location Formation: TERRACE

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

PERMIT NO: 17-33392

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 located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is AP/TE DEPOSIT

Pit Location Formation: TERRACE

HORIZONTAL HOLE 1

Sec 29 Twp 12N Rge 6W County CANADIAN

Spot Location of End Point: SW SE SW SW

Feet From: SOUTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 800

Depth of Deviation: 8631

Radius of Turn: 548

Direction: 176

Total Length: 4659

Measured Total Depth: 14150

True Vertical Depth: 9015

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

Notes:

Category

Description

DEEP SURFACE CASING

11/29/2017 - G58 - 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

11/7/2017 - 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

MEMO

11/7/2017 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201705245

11/28/2017 - G58 - (640)(HOR) 29-12N-6W
EXT 633763 MSSP, OTHERS
COMPL. INT. NLT 660' FB
(COEXIST SP. ORDER 130956 MISS)
REC 10/10/2017 (JACKSON)

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

017 25132 KATMAI 1206 1UMH-29

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.

Category	Description
PENDING CD - 201705247	<p>11/28/2017 - G58 - (I.O.) 29-12N-6W X201705245 MSSP COMPL. INT. NCT 165' FSL, NCT 150' FNL, NCT 330' FWL** NO OP NAMED REC 10/10/2017 (JACKSON)</p> <p>**PLAT HAS LATERAL DRILLED IN OPPOSITE DIRECTION; TO BE CORRECTED AT HEARING FOR FINAL ORDER LOCATION EXCEPTION PER OPERATOR</p>
PENDING CD - 201706925	<p>11/28/2017 - G58 - (I.O.) 29-12N-6W X165:10-3-28(C)(2)(B) MSSP (KATMAI 1206 1UMH-29) MAYBE CLOSER THAN 600' FROM POPISIL 29-1 WELL REC 11/7/2017 (DUNN)</p>

6709 NORTH CLASSEN BLVD., OKLA. CITY, OKLA. 73116 * LOCAL (405) 843-4847 * OUT OF STATE (800) 654-3219
Certificate of Authorization No. 1293 LS

County, Oklahoma

465'FNL-485'FWL Section 29 Township 12N Range 6W I.M.

This information was gathered with a GPS receiver with ± 1 foot Horiz./Vert. accuracy.

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

6709 NORTH CLASSEN BLVD., OKLA. CITY, OKLA. 73116 * LOCAL (405) 843-4847 * OUT OF STATE (800) 654-3219
Certificate of Authorization No. 1293 LS

CANADIAN

County, Oklahoma

465'FNL-485'FWL Section 29 Township 12N Range 6W I.M.

5271'

X 2039866
Y 179627

PROPOSED
FIRST PERF.
165'FNL-800'FWL
35°29'34.6" N
97°51'48.3" W
35.492935988" N
97.863404656" W
X: 2040666
Y: 179463

PROPOSED
DENALI 1206 1UMH-20

PROPOSED
DENALI 1206 1WH-20
PROPOSED
KATMAI 1206 1UMH-29
465'FNL-485'FWL
NAD-83 (US FEET)
35°29'31.8" N
97°51'53.2" W

X 2042499
Y 179632

X 2045137
Y 179637

PROPOSED
KATMAI 1206 1WH-29

EXISTING WELL

Azi: 180°01' 4948'

X 2039865
Y 176988

X 2045126
Y 177002

PROPOSED
BOTTOM HOLE
165'FNL-800'FWL
35°28'45.6" N
97°51'48.3" W
35.479342637" N
97.863429343" W
X: 2040665
Y: 174515

X 2042500
Y 174354

X 2045134
Y 174359

X 2039865
Y 174349

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

THE INFORMATION SHOWN HEREIN IS
FOR CONSTRUCTION PURPOSES ONLY



GRID
NAD-27
OK NORTH
US FEET
Scale:
1" = 1000'

0 1000'

Operator: CHAPARRAL ENERGY, LLC.

Lease Name: KATMAI 1206

Well No.: 1UMH-29

ELEVATION:

1331' Gr. at Stake (NAVD 88)

1330' Gr. at Stake (NGVD 29)

Topography & Vegetation Loc. fell in 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 & US Hwy 81, go ± 4 miles East on

US Hwy 40/US Hwy 270, then ± 0.5 mile South to the Northwest Corner of Section 29, T12N-R6W.

Revision ☒ A

Date of Drawing: Nov. 29, 2017

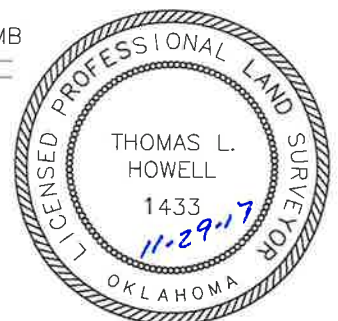
Invoice # 282899A Date Staked: Oct. 24, 2017

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 Reg. No. 1433



This information was gathered with a GPS receiver with ±1 foot Horiz./Vert. accuracy

DATUM: NAD-27

LAT: 35°29'31.6" N

LONG: 97°51'52.1" W

LAT: 35.492111533° N

LONG: 97.864463313° W

STATE PLANE
COORDINATES (US FEET):

ZONE: OK NORTH

X: 2040351

Y: 179163

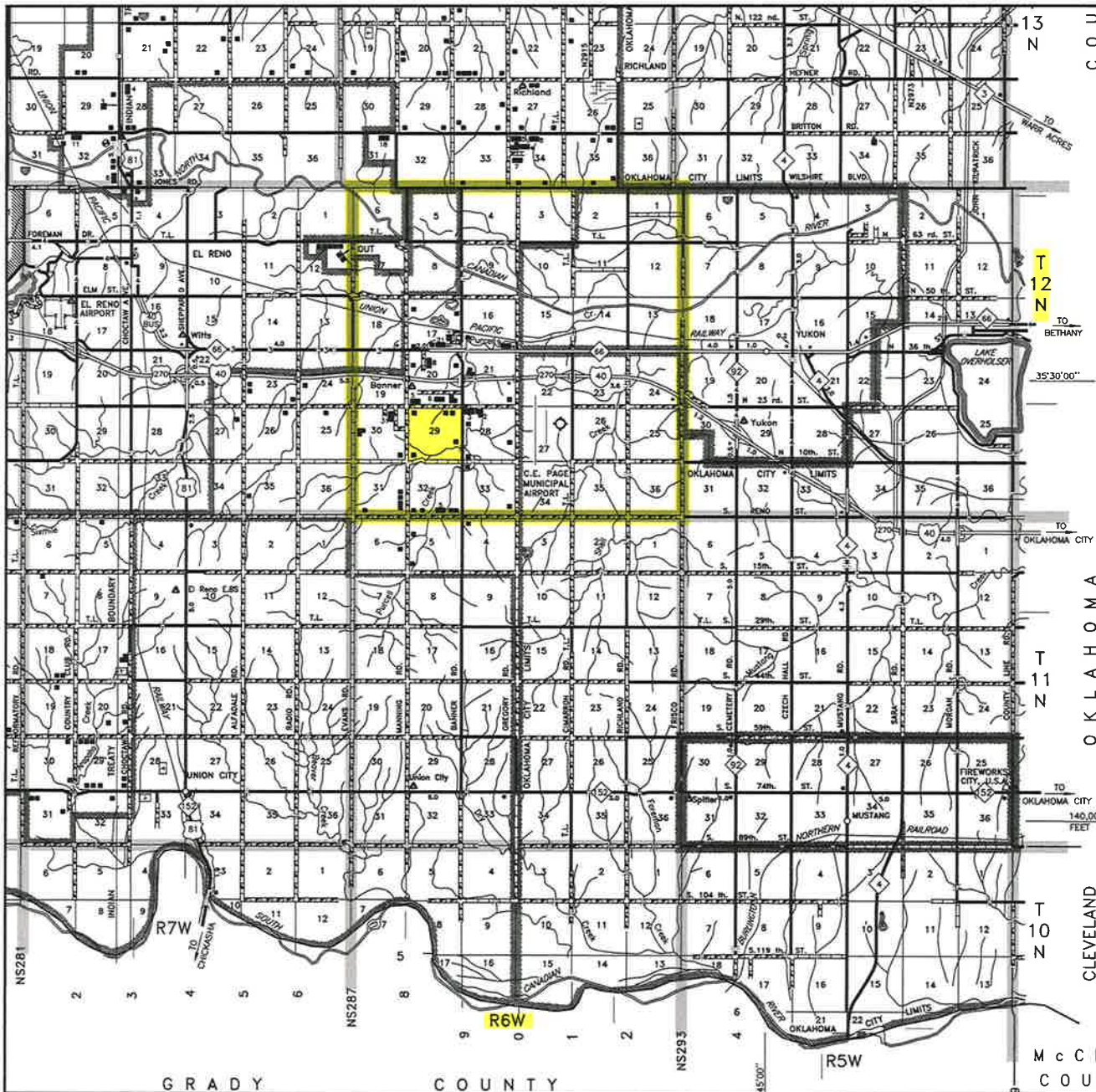
TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

Surveying and Mapping for the Energy Industry

6709 North Classen Blvd. Oklahoma City, OK 73116 www.topographic.com

Telephone Numbers: Local (405) 843-4847 Toll Free (800) 654-3219

VICINITY MAP



Scale: 1" = 3 Miles

Sec. 29 Twp. 12N Rng. 6W I.M.

County CANADIAN State OK

Operator CHAPARRAL ENERGY, LLC.



LAND SURVEYORS OF OKLAHOMA

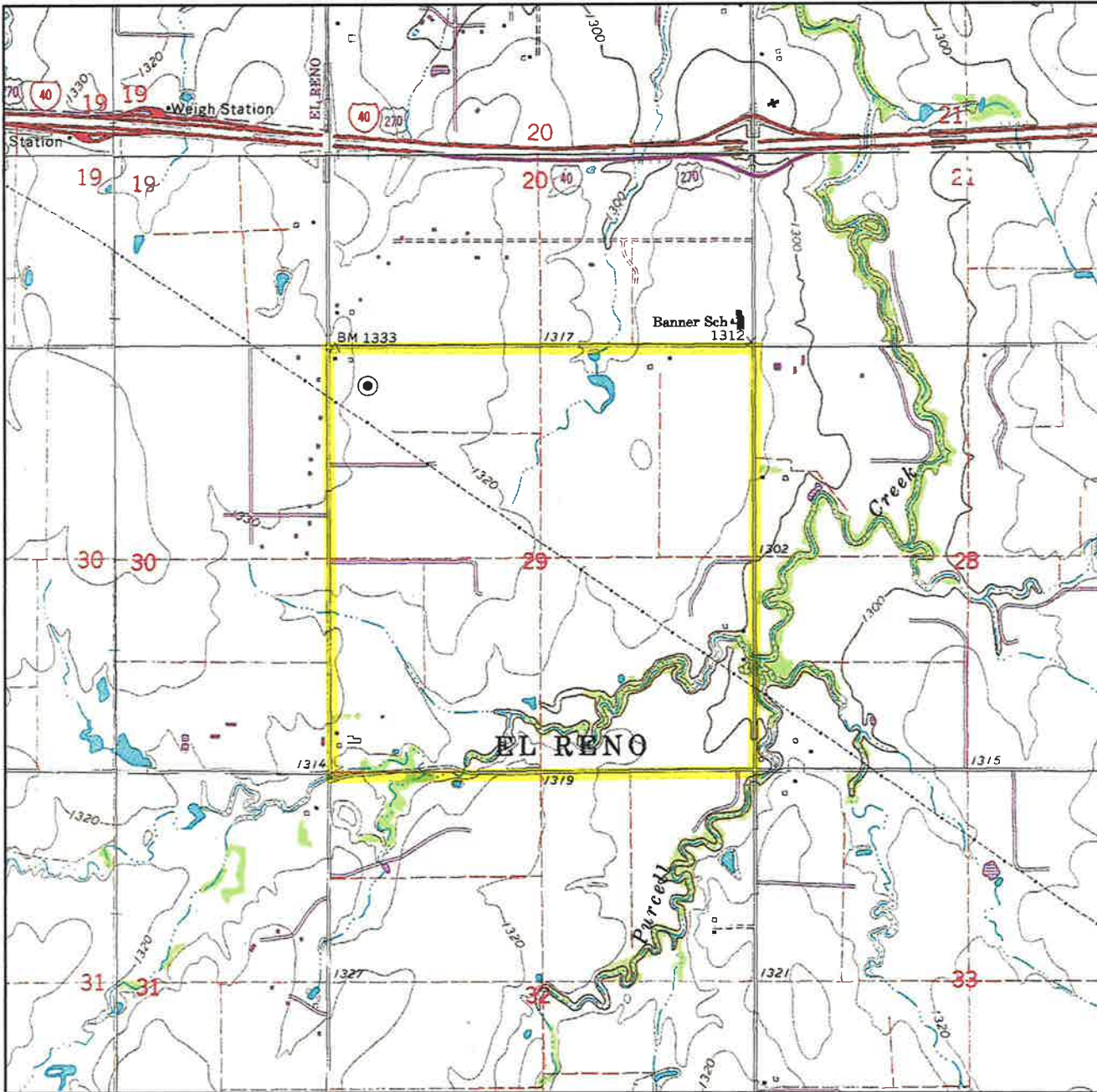
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LOCATION & ELEVATION VERIFICATION MAP



Sec. 29 Twp. 12N Rng. 6W I.M.

County CANADIAN State OK

Operator CHAPARRAL ENERGY, LLC.

Description 465'FNL-485'FWL

Lease KATMAI 1206 1UMH-29

1331' Gr. at Stake (NAVD 88)

Elevation 1330' Gr. at Stake (NGVD 29)

U.S.G.S. Topographic
Quadrangle Map UNION CITY, OK

Above Background Data from
U.S.G.S. Topographic Map

Scale: 1"=2000'

Contour Interval 10'

When elevation is shown hereon it is the ground
elevation of the location stake.

Review this plat and inform us immediately of
any possible discrepancy.



LAND SURVEYORS OF OKLAHOMA

Oct. 24, 2017