API NUMBER: 047 25126

Horizontal Hole Oil & Gas

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

Approval Date: 01/11/2018
Expiration Date: 07/11/2018

PERMIT TO DRILL

WELL LOCATION: Sec: 28 Twp: 22N Rge: 5W County: GARFIELD

SPOT LOCATION: SE SE SE SE FEET FROM QUARTER: FROM **SOUTH** FROM **EAST**
SECTION LINES: **250** **300**

Lease Name: COTTONWOOD 2205 **Well No: 1LMH-34** **Well will be 250 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

DIAN & MICHAEL STRINGER
9808 E FOX DR
FAIRMONT OK 73736

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

	Name	Depth		Name	Depth
1	MISSISSIPPIAN	6000	6		
2			7		
3			8		
4			9		
5			10		

Spacing Orders: No Spacing
Location Exception Orders:
Increased Density Orders:

Pending CD Numbers: 201707863
201707865

Special Orders:

Total Depth: 11000 Ground Elevation: 1175 **Surface Casing: 660** Depth to base of Treatable Water-Bearing FM: 410

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? N
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: 17-33539
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 34 Twp 22N Rge 5W County GARFIELD

Spot Location of End Point: SE SW SW SW

Feet From: SOUTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 380

Depth of Deviation: 5410

Radius of Turn: 410

Direction: 178

Total Length: 4947

Measured Total Depth: 11000

True Vertical Depth: 6010

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

Notes:

Category	Description
HYDRAULIC FRACTURING	11/30/2017 - 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
PENDING CD - 201707863	12/13/2017 - G60 - (640)(HOR) 34-22N-5W EXT 633965 MSSP COMPL. INT. NCT 660' FB (COEXIST WITH SP. ORDER 117052 MSSLM) REC. 1/9/18 (MINMIER)
PENDING CD - 201707865	12/13/2017 - G60 - (I.O.) 34-22N-5W X201707863 MSSP X165:10-3-28(C)(2)(B) MSSP MAY BE CLOSER THAN 600' TO ERL 1 WELL POE TO BHL NCT 165' FNL, NCT 165' FSL, NCT 330' FWL NO OP. NAMED REC. 1/9/18 (MINMIER)

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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.

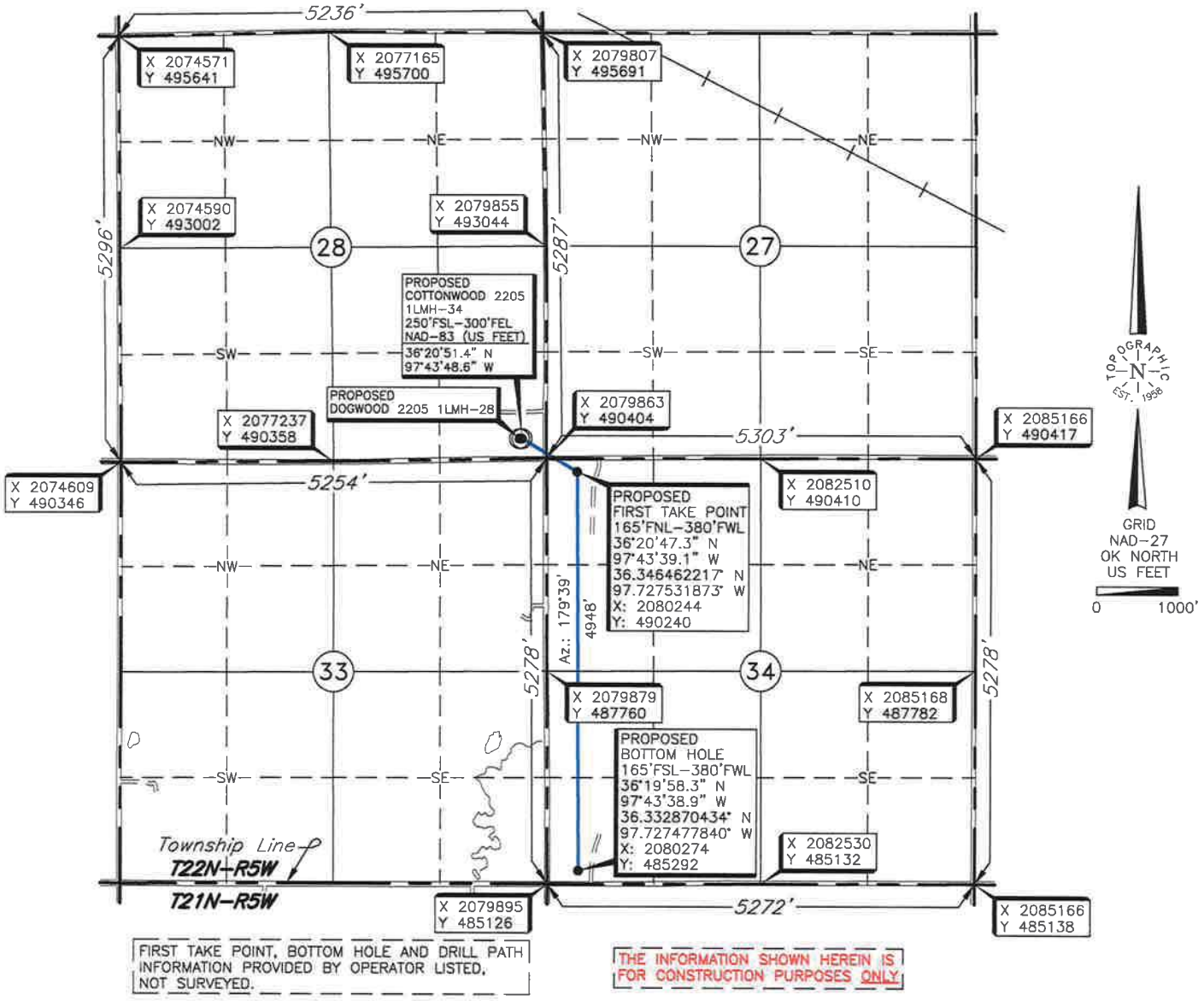
TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

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

3504725126

GARFIELD County, Oklahoma

250'FSL-300'FEL Section 28 Township 22N Range 5W I.M.



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: COTTONWOOD 2205 Well No.: 1LMH-34

ELEVATION:
1175' on Existing Pad (NAVD 88)
1175' on Existing Pad (NGVD 29)

Topography & Vegetation Loc. fell on existing pad

Good Drill Site? Yes

Reference Stakes or Alternate Location
Stakes Set None

Best Accessibility to Location From South off county road

Distance & Direction
from Hwy Jct or Town From the junction of US Hwy 412/US Hwy 64 & St. Hwy 74/St. Hwy 15, go ± 8 miles West on US Hwy 412/US Hwy 64, then ± 3.4 miles South to the Southeast Corner of Section 28, T22N-R5W.

Date of Drawing: Dec. 14, 2017

Invoice # 285626A Date Staked: Dec. 13, 2017 NMB

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

DATUM: NAD-27
LAT: 36°20'51.3" N
LONG: 97°43'47.4" W
LAT: 36.347590544° N
LONG: 97.729842646° W

STATE PLANE COORDINATES (US FEET):
ZONE: OK NORTH
X: 2079562
Y: 490649

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

LICENSED PROFESSIONAL LAND SURVEYOR
THOMAS L. HOWELL
1433
12-14-17
OKLAHOMA