

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

API NUMBER: 051 24113

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

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 20 Twp: 10N Rge: 6W

County: GRADY

SPOT LOCATION: S2 S2 SE SE

FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 260 660

Lease Name: PAXTON

Well No: 1-20H

Well will be 260 feet from nearest unit or lease boundary.

Operator Name: CIMAREX ENERGY CO

Telephone: 9185851100

OTC/OCC Number: 21194 0

CIMAREX ENERGY CO
202 S CHEYENNE AVE STE 1000
TULSA, OK 74103-3001

JOHN PAXTON
544 COUNTY STREET 2880
TUTTLE OK 73089

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

Name	Depth	Name	Depth
1 WOODFORD	10350	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 282923

Location Exception Orders: 661752

Increased Density Orders:

Pending CD Numbers: 201700793

Special Orders:

Total Depth: 20409

Ground Elevation: 1296

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 70

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: No

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: 17-32132
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 20 Twp 10N Rge 6W County GRADY

Spot Location of End Point: NW NE NE NE

Feet From: NORTH 1/4 Section Line: 165

Feet From: EAST 1/4 Section Line: 440

Depth of Deviation: 9961

Radius of Turn: 478

Direction: 2

Total Length: 9697

Measured Total Depth: 20409

True Vertical Depth: 10439

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

Notes:

Category	Description
DEEP SURFACE CASING	3/9/2017 - 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	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/ 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
LOCATION EXCEPTION - 661752	3/10/2017 - G64 - (I.O.) 20-10N-6W X282923 WDFD, OTHERS COMPL. INT. NCT 165' FSL, NCT 165' FNL, NCT 330' FEL CIMAREX ENERGY CO. 3-8-2017
PENDING CD - 201700793	3/10/2017 - G64 - 20-10N-6W X282923 WDFD 1 WELL NO OP. NAMED REC. 3-3-2017 (MCKEOWN)
SPACING - 282923	3/10/2017 - G64 - (640) 20-10N-6W EXT OTHERS EXT 242927/275514 WDFD

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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

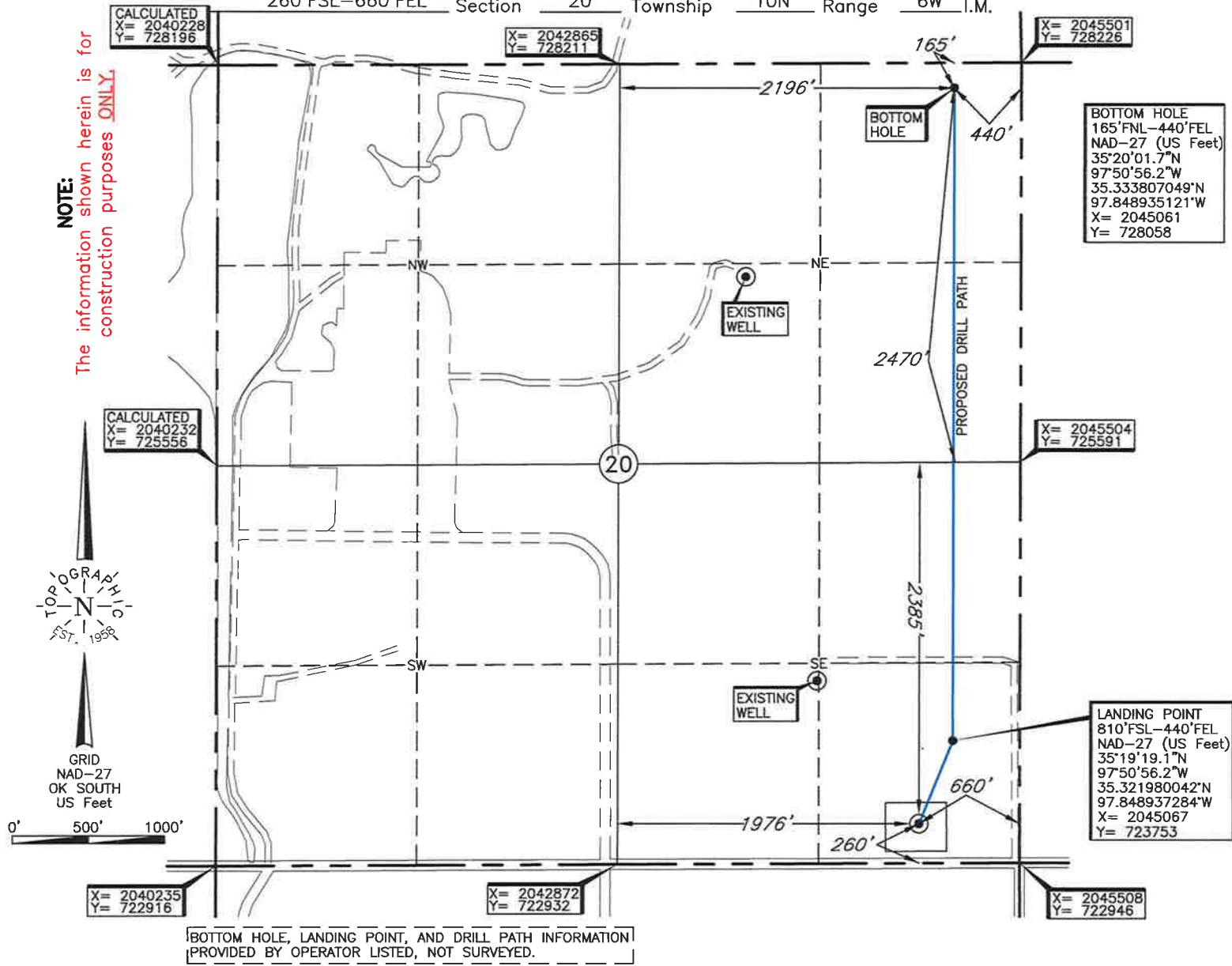
GRADY

County, Oklahoma

API :051 24113

260'FSL-660'FEL Section 20 Township 10N Range 6W I.M.

NOTE:
The information shown herein is for
construction purposes ONLY.



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

Operator: CIMAREX ENERGY CO.
 Lease Name: PAXTON Well No.: 1-20H
 Topography & Vegetation Loc. fell in sloping corn field

ELEVATION:
 1296' Gr. at Stake NGVD29

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

Best Accessibility to Location From South off county road.
 Distance & Direction From the Junction of St. Hwy. 92 South and St. Hwy. 37 at Tuttle, OK, go West ±1.8 mile on St. Hwy. 37, then go North ±2 miles on St. Hwy. 37 and county road to the SE Cor. of Sec. 20-T10N-R6W.

This information was gathered with a GPS receiver with ±1 foot Horiz./Vert. accuracy
 DATUM: NAD-27
 LAT: 35°19'13.7"N
 LONG: 97°50'58.8"W
 LAT: 35.320466646°N
 LONG: 97.849675001°W
 STATE PLANE COORDINATES: (US Feet)
 ZONE: OK SOUTH
 X: 2044848
 Y: 723202

Revision A Date of Drawing: Jan. 30, 2017
 Invoice # 269428 Date Staked: Jan. 24, 2017 TR

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

