

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

API NUMBER: 011 23750

Approval Date: 02/28/2017
Expiration Date: 08/28/2017

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 26 Twp: 16N Rge: 13W County: BLAINE
SPOT LOCATION: SE SE SW SE FEET FROM QUARTER: FROM SOUTH FROM EAST
SECTION LINES: 240 1370

Lease Name: JANICE Well No: 1H-2623X Well will be 240 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

ROGER A & JANICE M CHILES
1441 CANYON LAKE ROAD
CALUMET OK 73014

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	10204	6	
2	WOODFORD	12000	7	
3			8	
4			9	
5			10	

Spacing Orders: 661310

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201604968
201605012
201605013

Special Orders:

Total Depth: 21512 Ground Elevation: 1778 **Surface Casing: 1500** Depth to base of Treatable Water-Bearing FM: 300

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: No

PIT 1 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: WATER BASED

Chlorides Max: 10000 Average: 5000

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

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 17-32205

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 23 Twp 16N Rge 13W County BLAINE

Spot Location of End Point: NE NE NW NE

Feet From: NORTH 1/4 Section Line: 150

Feet From: EAST 1/4 Section Line: 1584

Depth of Deviation: 11032

Radius of Turn: 554

Direction: 359

Total Length: 9609

Measured Total Depth: 21512

True Vertical Depth: 12100

End Point Location from Lease,
Unit, or Property Line: 150

Notes:

Category	Description
DEEP SURFACE CASING	2/24/2017 - 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	2/24/2017 - 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
INTERMEDIATE CASING	2/24/2017 - 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
PENDING CD - 201605012	2/27/2017 - G60 - (I.O.) 23 & 26-16N-13W X661310 MSSP, WDFD 50% 23-16N-13W 50% 26-16N-13W (WDFD IS AN ASSOCIATED COMMON SOURCE OF SUPPLY TO MSSP) NO OP. NAMED REC. 11/28/16 (MCKEOWN)
PENDING CD - 201605013	2/27/2017 - G60 - (I.O.) 23 & 26-16N-13W X661310 MSSP, WDFD SHL NCT 240' FSL, NCT 1370' FEL 26-16N-13W COMPL. INT. (26-16N-13W) NCT 150' FSL NCT 0' FNL, NCT 1400' FEL COMPL. INT. (23-16N-13W) NCT NCT 0' FSL, NCT 150' FNL, NCT 1400' FEL NO OP. NAMED REC. 11/28/16 (MCKEOWN)
SPACING - 661310	2/27/2017 - G60 - (640)(HOR) 23 & 26-16N-13W EXT 653874 MSSP, WDFD, OTHER EXT OTHERS COMPL. INT. (MSSP) NLT 660' FB COMPL. INT. (WDFD) NLT 165' FNL/FSL, NLT 330 FEL/FWL (COEXIST WITH SP. ORDER 123621 MISS 23; SP. ORDER 317007 CSTR 23; SP. ORDER 591642 KDRK, WDFD 23; SP. ORDER 192732 MISS 26; SP. ORDER 310892 CSTR 26)

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

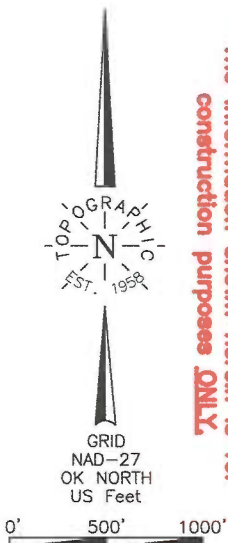
6709 NORTH CLASSEN BLVD., OKLA. CITY, OKLA. 73116 * LOCAL (405) 843-4847 * OUT OF STATE (800) 654-3219
 Certificate of Authorization No. 1293 LS

BLAINE

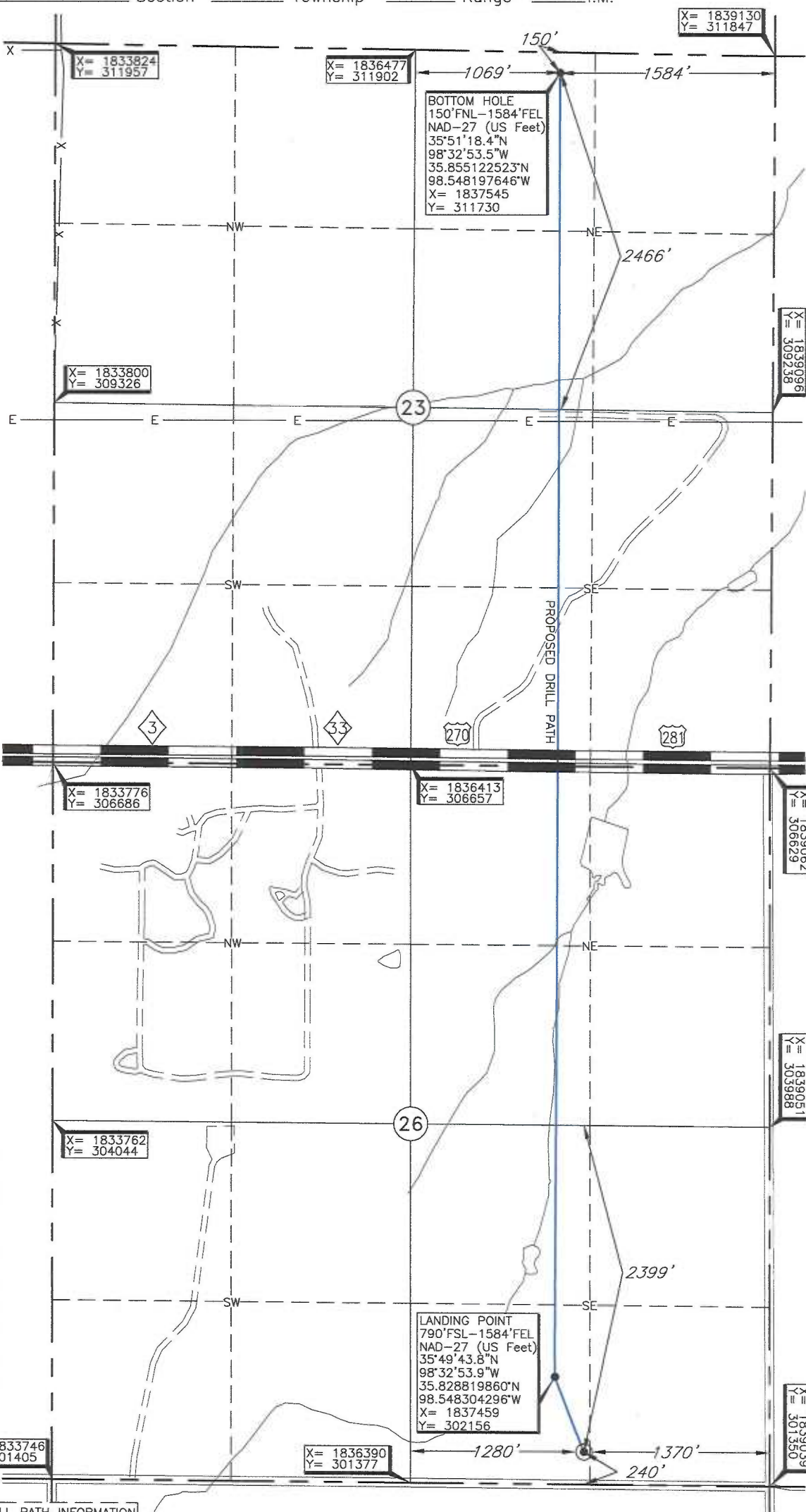
County, Oklahoma

240'FSL-1370'FEL Section 26 Township 16N Range 13W I.M.

3501123750



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



Operator: CIMAREX ENERGY CO.
 Lease Name: JANICE
 Topography & Vegetation: Loc. fell in sloping brushy pasture
 Well No.: 1H-2623X
 ELEVATION: 1778' 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 Hwy Jct or Town From Watonga, OK at the junction of St. Hwy. 33 E-W and US Hwy. 281 South, St. Hwy. 8 N-S, go ±7 miles West on St. Hwy. 33, then go ±1 mile South to the SE Cor. of Sec. 26-T16N-R13W.

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

Date of Drawing: Oct. 31, 2016
 Invoice # 266704 Date Staked: Oct. 27, 2016 TR

DATUM: NAD-27
 LAT: 35°49'38.3"N
 LONG: 98°32'51.3"W
 LAT: 35.827306245°N
 LONG: 98.547579945°W
 STATE PLANE COORDINATES: (US Feet)
 ZONE: OK NORTH
 X: 1837670
 Y: 301604

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

