

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

API NUMBER: 011 23662

Approval Date: 09/29/2016
Expiration Date: 03/29/2017

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 26 Twp: 16N Rge: 12W County: BLAINE
SPOT LOCATION: SW SE SW SE FEET FROM QUARTER: FROM SOUTH FROM EAST
SECTION LINES: 200 1700

Lease Name: MITCHELL Well No: 1-26H Well will be 200 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

DELMA RUTH MARRIOTT LIVING TRUST
ROUTE 3, BOX 36A
WATONGA OK 73772

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

	Name	Depth	Name	Depth
1	MISSISSIPPI SOLID	10200	6	
2	WOODFORD	11400	7	
3	HUNTON	11500	8	
4			9	
5			10	

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201603888
201603887

Special Orders:

Total Depth: 15917

Ground Elevation: 1475

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 110

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: 100000 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 ALLUVIAL

Pit Location Formation: ALLUVIUM

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 16-31622
H. CLOSED SYSTEM=STEEL PITS (REQUIRED - NORTH CANADIAN RIVER)

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 26 Twp 16N Rge 12W 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: 10613

Radius of Turn: 573

Direction: 3

Total Length: 4404

Measured Total Depth: 15917

True Vertical Depth: 11500

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

Notes:

Category	Description
DEEP SURFACE CASING	9/23/2016 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY FOR ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON CONDUCTOR OR SURFACE CASING
HYDRAULIC FRACTURING	9/23/2016 - 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	9/23/2016 - 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 - 201603887	9/23/2016 - G75 - (640)(HOR) 26-16N-12W EST MSSSD, WDFD, HNTN COMPL. INT. (MSSSD, HNTN) NLT 660' FB COMPL. INT. (WDFD) NLT 165' FNL & FSL, NLT 330' FEL & FWL (COEXIST SP. ORDER # 421639 MSSSD, HNTN) REC 9-27-2016 (JOHNSON)
PENDING CD - 201603888	9/23/2016 - G75 - (I.O.) 26-16N-12W X201603887 MSSSD, WDFD, HNTN SHL NCT 200' FSL, NCT 1400' FEL COMPL. INT. NCT 165' FSL, NCT 165' FNL, NCT 350' FEL NO OP. NAMED REC 9-27-2016 (JOHNSON)

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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

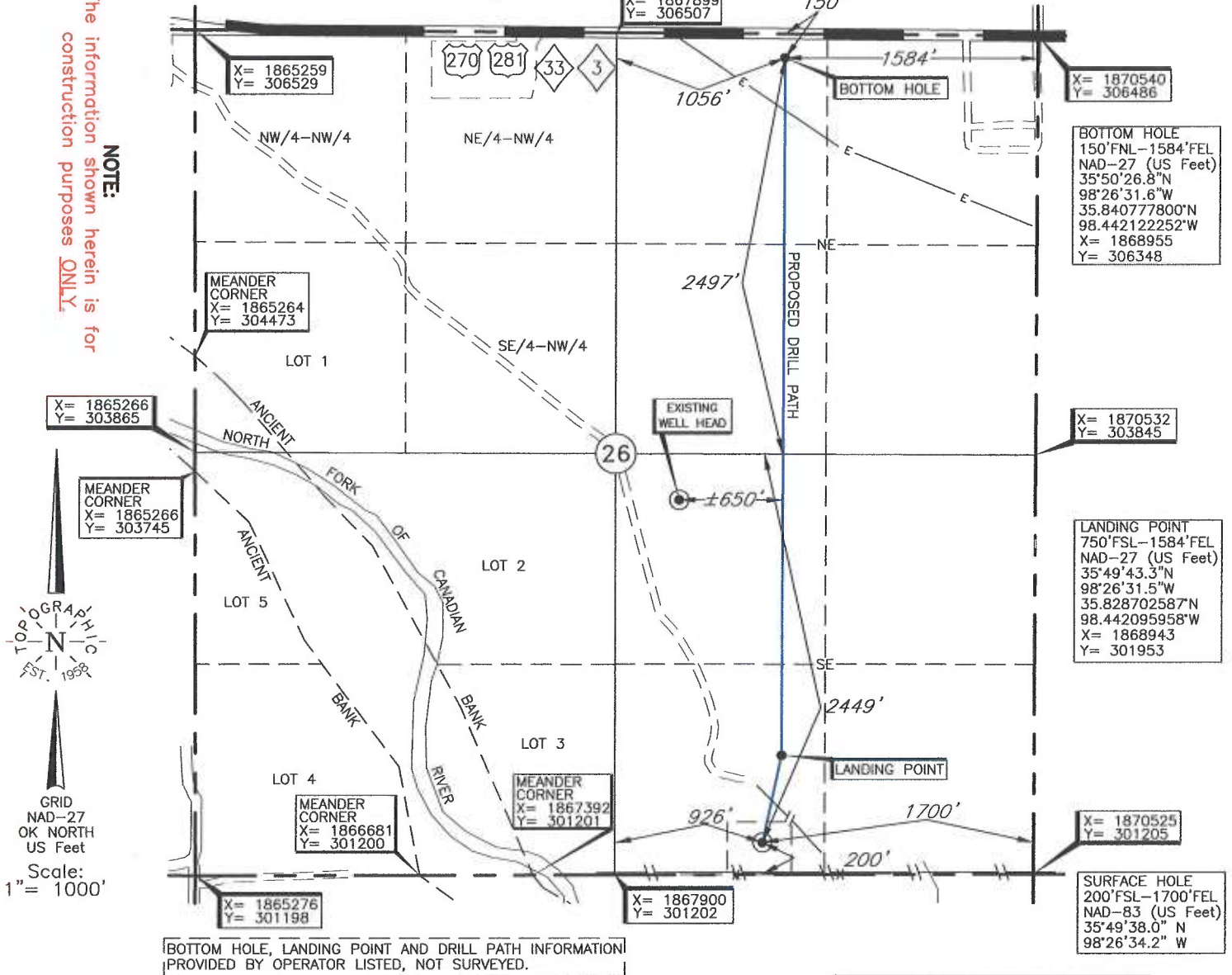
BLAINE

County, Oklahoma

API 011-23662

200'FSL - 1700'FEL Section 26 Township 16N Range 12W 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.

ELEVATION:
 1475' Gr. at Stake (NGVD29)
 1476' Gr. at Stake (NAVD88)

Operator: CIMAREX ENERGY CO.
 Lease Name: MITCHELL Well No.: 1-26H
 Topography & Vegetation Loc. fell in pasture with trees, ±228' SW of NW-SE pipeline, ±193' North of E-W fence, possible pipeline in area, ±235' SE of water well
 Good Drill Site? Yes Reference Stakes or Alternate Location Stakes Set None
 Best Accessibility to Location From NW off trail road
 Distance & Direction from Hwy Jct or Town From Jct. St. Hwy 33 E-W and St. Hwy. 8 N-S, in Watonga, OK, go 1.3 mi. West on St. Hwy. 33, then South on trail to location in SE/4 of Sec. 26-T16N-R12W

DATUM: NAD-27
 LAT: 35°49'37.9"N
 LONG: 98°26'32.9"W
 LAT: 35.827189891° N
 LONG: 98.442483881° W
 STATE PLANE
 COORDINATES: (US Feet)
 ZONE: OK NORTH
 X: 1868826
 Y: 301403

Invoice # 266055 Date of Drawing: Sep. 28, 2016
 Date Staked: Sep. 19, 2016 AC/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

