

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

API NUMBER: 017 24965 A

Approval Date: 01/23/2017
Expiration Date: 07/23/2017

Horizontal Hole Oil & Gas

Amend reason: CHANGE SURFACE CASING DEPTH; UPDATE ORDERS

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 29 Twp: 11N Rge: 8W

County: CANADIAN

SPOT LOCATION: SE SE SE SE

FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 125 300

Lease Name: MEYERS

Well No: 1H-2821X

Well will be 125 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

KEVIN MEYERS FAMILY TRUST
292 COUNTY STREET 2770
MINCO OK 73059

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	11588	6	
2	WOODFORD	11916	7	
3	HUNTON	12043	8	
4			9	
5			10	

Spacing Orders: 660421
661161

Location Exception Orders: 661162

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 20889

Ground Elevation: 1293

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 340

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: 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 ALLUVIAL

Pit Location Formation: ALLUVIUM

Approved Method for disposal of Drilling Fluids:

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

PERMIT NO: 16-31765

H. CLOSED SYSTEM=STEEL PITS (REQUIRED - 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 21 Twp 11N Rge 8W County CANADIAN

Spot Location of End Point: S2 SW NW NW

Feet From: NORTH 1/4 Section Line: 1300

Feet From: WEST 1/4 Section Line: 330

Depth of Deviation: 11439

Radius of Turn: 477

Direction: 5

Total Length: 8701

Measured Total Depth: 20889

True Vertical Depth: 12241

End Point Location from Lease,
Unit, or Property Line: 330

Notes:

Category	Description
DEEP SURFACE CASING	2/28/2017 - 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	1/19/2017 - 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
PENDING CD - 661162	2/28/2017 - G75 - (I.O.) 21 & 28-11N-8W X660421 MSSP, WDFD, HNTN COMPL. INT. (28-11N-8W) NCT 165' FSL, NCT 0' FNL, NCT 330' FWL COMPL. INT. (21-11N-8W) NCT 0' FSL, NCT 1300' FNL, NCT 330' FWL CIMAREX ENERGY CO. 2-17-2017
SPACING - 660421	2/28/2017 - G75 - (640)(HOR) 21 & 28-11N-8W EXT 648204 MSSP, WDFD, HNTN COMPL. INT. (MSSP, HNTN) NLT 660' FB COMPL. INT. (WDFD) NLT 165' FNL & FSL, NLT 330' FEL & FWL (COEXIST SP. ORDER # 446533 MSSLM, HNTN 21-11N-8W; ORDER # 138907 HNTN & ORDER # 144223 CSTR, MSSLM, WDFD 28-11N-8W)
SPACING - 661161	2/28/2017 - G75 - (I.O.) 21 & 28-11N-8W EST MULTIUNIT HORIZONTAL WELL X660421 MSSP, WDFD, HNTN (MSSP, HNTN ASSOCIATED COMMON SOURCES OF SUPPLY TO WDFD) 44% 21-11N-8W 56% 28-11N-8W CIMAREX ENERGY CO. 2-17-2017

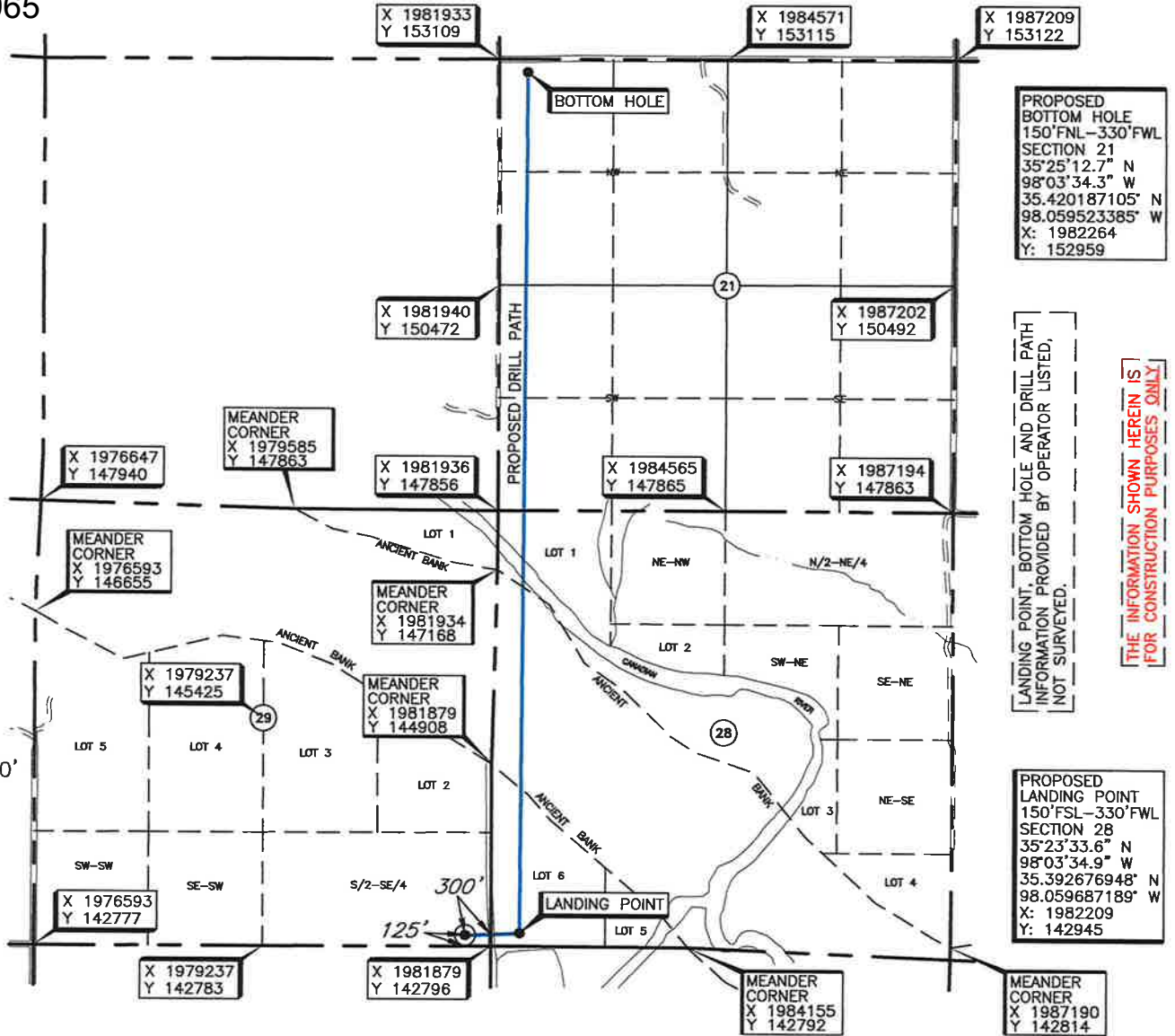
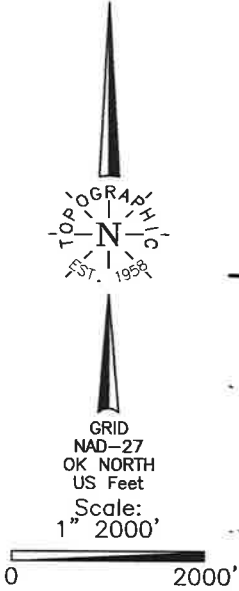
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CANADIAN

County, Oklahoma

125'FSL-300'FEL Section 29 Township 11N Range 8W I.M.

API: 017 24965



PROPOSED
BOTTOM HOLE
150'FNL-330'FWL
SECTION 21
35°25'12.7" N
98°03'34.3" W
35.420187105' N
98.059523385' W
X: 1982264
Y: 152959

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

THE INFORMATION SHOWN HEREIN IS
FOR CONSTRUCTION PURPOSES ONLY

PROPOSED
LANDING POINT
150'FSL-330'FWL
SECTION 28
35°23'33.6" N
98°03'34.9" W
35.392676948' N
98.059687189' W
X: 1982209
Y: 142945

Operator: CIMAREX ENERGY CO.

Lease Name: MEYERS

Well No.: 1H-2821X

ELEVATION:
1293' Gr. at Stake

Topography & Vegetation Loc. fell in wheat field

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

Best Accessibility to Location From South off trail road
Distance & Direction
from Hwy Jct or Town From Caddo-Canadian County Line on St. Hwy. 37, go ± 0.5 mile North, then ± 1 mile East,
then ± 0.5 mile South, then ± 3 miles East, then ± 1 mile North to the Southeast Corner of Sec. 29, T11N-R8W.

DATUM: NAD-27
LAT: 35°23'33.4" N
LONG: 98°03'42.5" W
LAT: 35.392604789° N
LONG: 98.061800698° W
STATE PLANE
COORDINATES: (US Feet)
ZONE: OK NORTH
X: 1981579
Y: 142920

Revision A Date of Drawing: Jan. 3, 2017
Invoice # 269221 Date Staked: Dec. 29, 2016

NMB

CERTIFICATE:

I, Lee K. Goss an Oklahoma Licensed Land
Surveyor and an authorized agent of Topographic Land
Surveyors of Oklahoma, do hereby certify to the
information shown herein

Lee K. Goss
Oklahoma Lic. No. 1778

