API NUMBER: 017 24951

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: 11/30/2016
Expiration Date: 05/30/2017

PERMIT TO DRILL

WELL LOCATION: Sec: 24 Twp: 11N Rge: 9W County: CANADIAN

SPOT LOCATION: SW SE SE SE FEET FROM QUARTER: FROM **SOUTH** FROM **EAST**
SECTION LINES: **220** **650**

Lease Name: MEIWES **Well No: 1-25H** **Well will be 220 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 MEIWES
12925 SW 59TH
MINCO OK 73059

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

	Name	Depth		Name	Depth
1	MISSISSIPPIAN	12407	6		
2	WOODFORD	12475	7		
3	HUNTON	12890	8		
4			9		
5			10		

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

Pending CD Numbers: 201605214
201605212

Special Orders:

Total Depth: 17767 Ground Elevation: 1324 **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: 10000 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: 16-31764
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 25 Twp 11N Rge 9W County CANADIAN

Spot Location of End Point: S2 SE SE SE

Feet From: SOUTH 1/4 Section Line: 165

Feet From: EAST 1/4 Section Line: 330

Depth of Deviation: 12057

Radius of Turn: 478

Direction: 178

Total Length: 4959

Measured Total Depth: 17767

True Vertical Depth: 12890

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

Notes:

Category	Description
DEEP SURFACE CASING	11/17/2016 - 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	11/17/2016 - 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.
PENDING CD - 201605212	11/18/2016 - G60 - (640)(HOR) 25-11N-9W EST MSSP, WDFD, HNTN COMPL. INT. (MSSP, HNTN) NLT 660' FB COMPL. INT. (WDFD) NLT 165' FNL & FSL, NLT 330' FEL & FWL (COEXIST WITH SP. ORDER 138217 CSTR, MSSLM, HNTN; SP. ORDER 574434 WDFD) REC. 11/29/16 (JOHNSON)
PENDING CD - 201605214	11/18/2016 - G60 - (I.O.) 25-11N-9W X201605212 MSSP, WDFD, HNTN COMPL. INT. NCT 165' FNL, NCT 165' FSL, NCT 330' FEL NO OP. NAMED REC. 11/29/16 (JOHNSON)

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.

3501724951

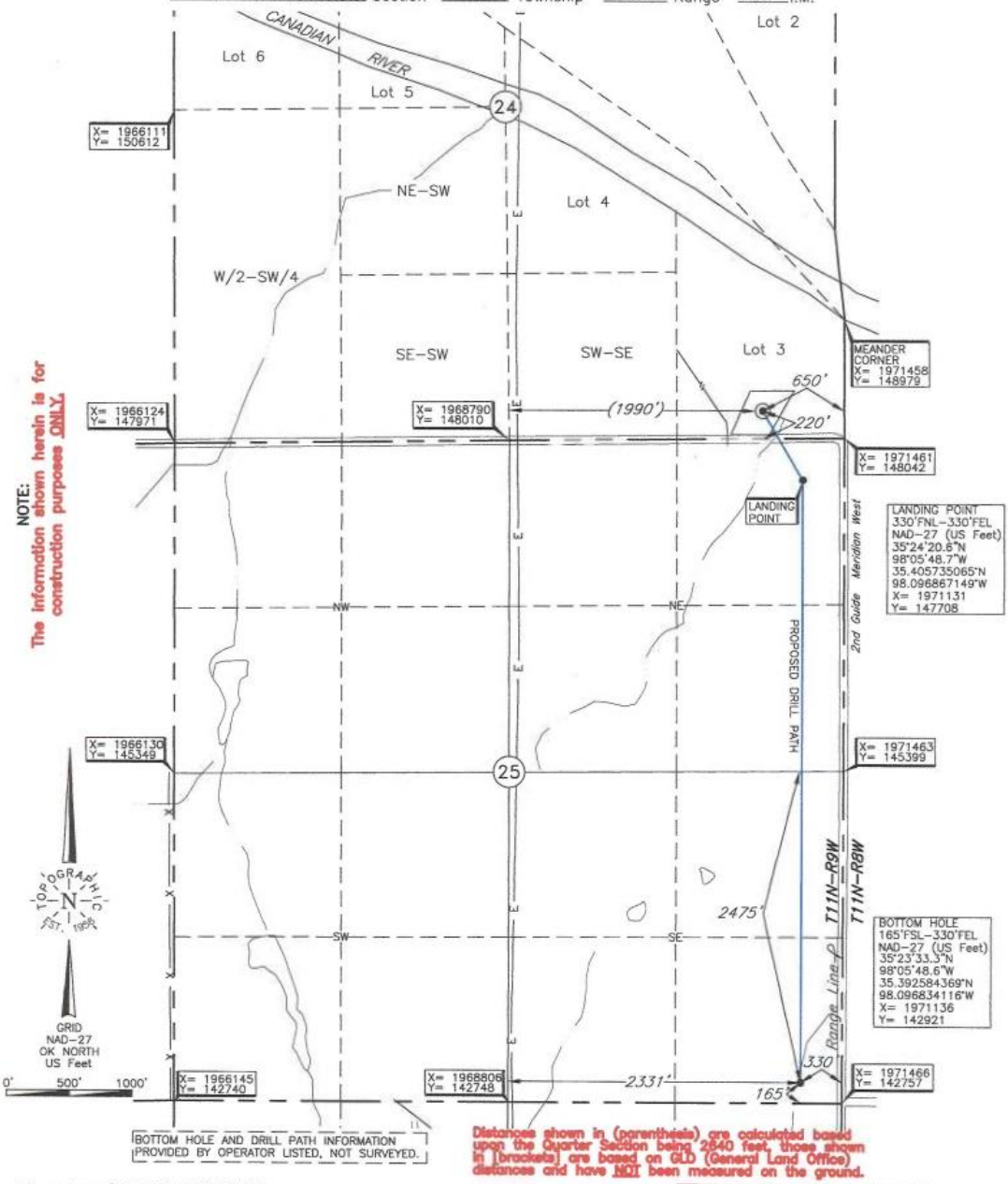
TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

6709 NORTH CLASSEN BLVD., OKLA. CITY, OKLA. 73116 * LOCAL (405) 843-4847 * OUT OF STATE (800) 654-3219

Certificate of Authorization No. 1293 LS

CANADIAN County, Oklahoma

220'FSL-650'FEL Section 24 Township 11N Range 9W I.M.



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

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

Distances shown in (parenthesis) are calculated based upon the Quarter Section being 2640 feet, those shown in [brackets] are based on GLO (General Land Office) distances and have NOT been measured on the ground.

Operator: CIMAREX ENERGY CO.

Lease Name: MEIWES Well No.: 1-25H

ELEVATION: 1324' Gr. at Stake NGVD29

Topography & Vegetation Loc. fell in wheat field; bank ±135' East, overhead powerline and R/W fence ±190' South ±300' NE of pipeline

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 Canadian county line and St. Hwy. 37, go North ±1.5 miles on St. Hwy. 37 to Red Rock Road, then ±0.75 miles North on Red Rock Road, then East ±2.0 miles to the SE Cor. of Sec. 24-T11N-R9W.

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

DATUM: NAD-27
LAT: 35°24'26.0"N
LONG: 98°05'52.6"W
LAT: 35.407234525°N
LONG: 98.097945507°W
STATE PLANE COORDINATES: (US Feet)
ZONE: OK NORTH
X: 1970810
Y: 148254

Revision ☒ A Date of Drawing: Nov. 17, 2016
Invoice # 266680 Date Staked: Oct. 20, 2016 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

LICENSED PROFESSIONAL LAND SURVEYOR
THOMAS L. HOWELL
1433
11-17-16
OKLAHOMA