API NUMBER: 017 25184

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: 02/27/2018
Expiration Date: 08/27/2018

# PERMIT TO DRILL

WELL LOCATION: Sec: 32 Twp: 11N Rge: 7W County: CANADIAN

SPOT LOCATION: NW NW NE NE FEET FROM QUARTER: FROM **NORTH** FROM **EAST**
SECTION LINES: **290** **1182**

**Lease Name: JD HOPPINSCOTCH** **Well No: 3-32H** **Well will be 290 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

RAYMOND L. PAPPE TRUST
10120 S. SHARTEL DRIVE
OKLAHOMA CITY OK 73139

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

| | Name | Depth | | Name | Depth |
|---|---|---|---|---|---|
| 1 | WOODFORD | 11150 | 6 | | |
| 2 | | | 7 | | |
| 3 | | | 8 | | |
| 4 | | | 9 | | |
| 5 | | | 10 | | |

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

Pending CD Numbers: 201800975
201800979
201800976

Special Orders:

Total Depth: 15833 Ground Elevation: 1322 **Surface Casing: 1500** Depth to base of Treatable Water-Bearing FM: 350

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 not** located in a Hydrologically Sensitive Area.
**Category of Pit: C**
**Liner not required for Category: C**
Pit Location is NON HSA
Pit Location Formation: DOG CREEK

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 18-33941
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 32 Twp 11N Rge 7W County CANADIAN

Spot Location of End Point: SW SW SE SE

Feet From: SOUTH 1/4 Section Line: 150

Feet From: EAST 1/4 Section Line: 1040

Depth of Deviation: 10248

Radius of Turn: 382

Direction: 178

Total Length: 4985

Measured Total Depth: 15833

True Vertical Depth: 11150

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

Notes:

| Category | Description |
|---|---|
| DEEP SURFACE CASING | 2/26/2018 - 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 | 2/26/2018 - G71 - OCC 165:10-3-10 REQUIRES:<br><br>1) PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE;<br><br>2) WITH NOTICE ALSO GIVEN 48 HOURS IN ADVANCE OF HYDRAULIC FRACTURING ALL WELLS TO BOTH THE OCC CENTRAL OFFICE AND LOCAL DISTRICT OFFICES, USING THE "FRAC NOTICE FORM" FOUND AT THE FOLLOWING LINK: OCCEWEB.COM/OG/OGFORMS.HTML; AND,<br><br>3) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS TO BE REPORTED TO FRACFOCUS WITHIN 60 DAYS AFTER THE CONCLUSION THE HYDRAULIC FRACTURING OPERATIONS, USING THE FOLLOWING LINK: FRACFOCUS.ORG |
| PENDING CD - 201800975 | 2/26/2018 - G57 - (640)(HOR) 32-11N-7W<br>EST WDFD, OTHERS<br>POE TO BHL NCT 165' FNL & FSL, NCT 330' FEL & FWL<br>REC 2-20-2018 (JOHNSON) |
| PENDING CD - 201800976 | 2/26/2018 - G57 - 32-11N-7W<br>X201800975 WDFD<br>3 WELLS<br>NO OP. NAMED<br>IHC 3-19-2018 |
| PENDING CD - 201800979 | 2/26/2018 - G57 - (I.O.) 32-11N-7W<br>X201800975 WDFD<br>COMPL. INT. NCT 150' FNL, NCT 150' FSL, NCT 940' FEL<br>NO OP. NAMED<br>REC 2-20-2018 (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.

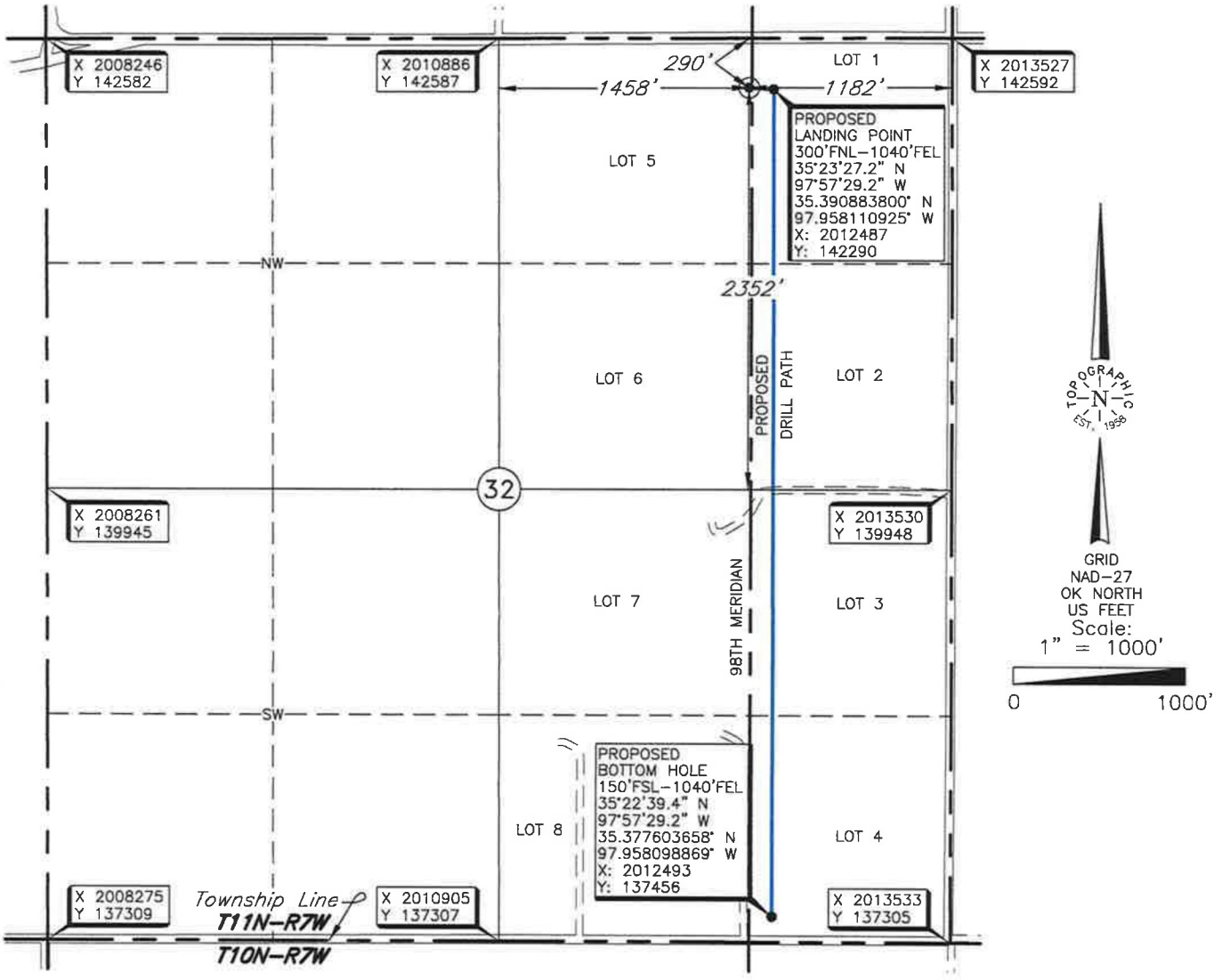
# TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

13800 WIRELESS WAY, OKLA. CITY, OKLA. 73134 * LOCAL (405) 843-4847 * OUT OF STATE (800) 654-3219
*Certificate of Authorization No. 1293 LS*

API: 017 25184

CANADIAN County, Oklahoma

290'FNL-1182'FEL Section 32 Township 11N Range 7W I.M.




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

THE INFORMATION SHOWN HEREIN IS FOR CONSTRUCTION PURPOSES ONLY

Operator: CIMAREX ENERGY CO.

Lease Name: JD HOPPINSCOTCH Well No.: 3-32H

**ELEVATION:** 1322' Gr. at Stake (NGVD 29)

Topography & Vegetation Loc. fell in wheat field

Good Drill Site? Yes

Reference Stakes or Alternate Location
Stakes Set None

Best Accessibility to Location From North off county road

Distance & Direction from Hwy Jct or Town From Union City, Oklahoma, go ± 1 mile West to the Northeast Corner of Section 32, T11N-R7W.

Date of Drawing: Feb. 8, 2018

Invoice # 288151C Date Staked: Feb. 5, 2018 NMB

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

DATUM: NAD-27
LAT: 35°23'27.3" N
LONG: 97°57'30.9" W
LAT: 35.390910536° N
LONG: 97.958587287° W

STATE PLANE COORDINATES (US FEET):
ZONE: OK NORTH
X: 2012345
Y: 142300

## 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 Reg. No. 1433

LICENSED PROFESSIONAL LAND SURVEYOR
THOMAS L. HOWELL
1433
2-9-18
OKLAHOMA