API NUMBER: 017 25185 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)

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

PERMIT TO DRILL

WELL LOCATION: Sec: SPOT LOCATION:

NE NW

32 Twp: 11N Rge: 7W

NE

County: CANADIAN

NE

FEET FROM QUARTER: SECTION LINES

EAST

NORTH

932

Lease Name: JD HOPPINSCOTCH

Well No: 4-32H Well will be

270 feet from nearest unit or lease boundary.

Operator

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 WOODFORD Depth 11150 Name

6

7

8

9 10 Depth

1 2

3

4

Spacing Orders:

No Spacing

Location Exception Orders:

Increased Density Orders:

Special Orders:

Pending CD Numbers: 201800975

201800981

201800976

Total Depth: 15844

Ground Elevation: 1320

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:

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?

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: 18-33942

H. CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST

HORIZONTAL HOLE 1

Sec 32 Twp 11N Rge 7W County CANADIAN

Spot Location of End Point: SW SE SE SE
Feet From: SOUTH 1/4 Section Line: 150
Feet From: EAST 1/4 Section Line: 400

Depth of Deviation: 10408 Radius of Turn: 382 Direction: 175 Total Length: 4835

Measured Total Depth: 15844

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:

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;

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,

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 2/27/2018 - G57 - (640)(HOR) 32-11N-7W

EST WDFD, OTHERS

POE TO BHL NCT 165' FNL & FSL, NCT 330' FEL & FWL

REC 2-20-2018 (JOHNSON)

PENDING CD - 201800976 2/27/2018 - G57 - 32-11N-7W

X201800975 WDFD 3 WELLS NO OP. NAMED IHC 3-19-2018

PENDING CD - 201800981 2/27/2018 - G57 - (I.O.) 32-11N-7W

X201800975 WDFD

COMPL. INT. NCT 150' FNL, NCT 150' FSL, NCT 330' FEL

NO OP. NAMED

REC 2-20-2018 (JOHNSON)

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 25185 CANADIAN _ County, Oklahoma 270'FNL-932'FEL Section 32 Township 11N Range 7W I.M. >270 X 2010886 Y 142587 X 2013527 Y 142592 X 2008246 Y 142582 932' PROPOSED LANDING POINT 300'FNL-400'FEL LOT 5 35'23'27.2" N 97'57'21.5" W 35.390886295 LOT 1 97.955963909° W X: 2013127 Y: 142291 2373' PATH MERIDIAN LOT 2 LOT 6 PROPOSED **98TH** 32 X 2008261 Y 139945 X 2013530 Y 139948 GRID NAD-27 OK NORTH US FEET LOT 7 LOT 3 Scale: 1" = 1000' 1000 PROPOSED BOTTOM HOLE 150'FSL-400'FEL 35'22'39.4" N 97'57'21.4" W LOT 8 35.377601862° 97.955952208° LOT 4 X: 2013133 137456 2008275 137309 Township Line P X 2010905 Y 137307 X 2013533 Y 137305 T11N-R7W T10N-R7W LANDING POINT, BOTTOM HOLE AND DRILL PATH INFORMATION PROVIDED BY OPERATOR LISTED, THE INFORMATION SHOWN HEREIN IS FOR CONSTRUCTION PURPOSES ONLY NOT SURVEYED. Operator: CIMAREX ENERGY CO. **ELEVATION:** Lease Name: JD HOPPINSCOTCH Well No.: <u>4-32H</u> 1320' Gr. at Stake (NGVD 29) Topography & Vegetation ____Loc. fell in wheat field Reference Stakes or Alternate Location Good Drill Site? _____Yes None Stakes Set ... 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. DOFESSIONAL QUITESSIONAL Date of Drawing: Feb. 8, 2018 DATUM: NAD-27 Invoice # <u>288151D</u> Date Staked: <u>Feb. 5, 2018</u> NMB LAT: 35'23'27.5" N LONG: 97'57'27.9" W **CERTIFICATE:** s information with a GPS refoot Horiz./Vert. LAT: 35.390966585° N Thomas L. Howell an Oklahoma Licensed Land CENSED SURVE LONG: 97.957748458° W THOMAS L. Surveyor and an authorized agent of Topographic Land HOWELL STATE PLANE Surveyors of Oklahoma, do hereby certify to the 1433 COORDINATES (US FEET): information shown herein. This bered ±1 fc ZONE: OK NORTH O4 LAHOMA X: 2012595 Thomas I. Navel Y: 142320 Oklahoma Reg. No. 1433