API NUMBER: 093 25137

Oil & Gas

Horizontal Hole

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

Approval Date: 04/24/2018 10/24/2018 **Expiration Date**

PERMIT TO DRILL

WELL LOCATION: Sec: 20 Twp: 20N Rge: 11W County: MAJOR

FEET FROM QUARTER: SPOT LOCATION: NW FROM NORTH FROM WEST NE ll ne SECTION LINES:

Lease Name: EITZEN 17-20-11 Well No: 2H Well will be 260 feet from nearest unit or lease boundary.

2458

CHESAPEAKE OPERATING LLC Operator OTC/OCC Number: Telephone: 4059353425; 4059358 17441 0 Name:

260

CHESAPEAKE OPERATING LLC

PO BOX 18496

OKLAHOMA CITY. OK 73154-0496 **ROBERT & ALETHA EITZEN**

321 S. 9TH AVE

FAIRVIEW OK 73737

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

Depth Name Depth MISSISSIPPIAN (EX CHESTER) 1 7791 6 2 WOODFORD 8445 7 3 HUNTON 8476 8 4 9 10 676056 Spacing Orders: Location Exception Orders: Increased Density Orders:

Pending CD Numbers: 201802001 Special Orders:

Total Depth: 13750 Ground Elevation: 1252 Surface Casing: 1500 Depth to base of Treatable Water-Bearing FM: 730

Under Federal Jurisdiction: No Fresh Water Supply Well Drilled: No Surface Water used to Drill: No

Approved Method for disposal of Drilling Fluids: PIT 1 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: WATER BASED Chlorides Max: 25000 Average: 8000

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?

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: 18-34212

H. CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST

HORIZONTAL HOLE 1

MAJOR Sec 17 Twp 20N Rge 11W County Spot Location of End Point: NF NF NE NI\// Feet From: NORTH 1/4 Section Line: 150 Feet From: WEST 1/4 Section Line: 2635

Depth of Deviation: 8022 Radius of Turn: 477

Direction: 2

Total Length: 4978

Measured Total Depth: 13750

True Vertical Depth: 8510

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

Notes:

Category Description

DEEP SURFACE CASING 4/18/2018 - 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 4/18/2018 - 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

INTERMEDIATE CASING 4/18/2018 - 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 - 201802001 4/23/2018 - G57 - (I.O.) 17-20N-11W

X676056 MSNLC, WDFD, HNTN

COMPL. INT. NCT 150' FSL, NCT 150' FNL, NCT 1980' FWL

CHESAPEAKE EXPLORATION, LLC.

REC 4-2-2018 (DENTON)

SPACING - 676056 4/23/2018 - G57 - (640)(HOR) 17-20N-11W

EST MSNLC, WDFD, HNTN

POE TO BHL (MSNLC, HNTN) NCT 660' FB

POE TO BHL (WDFD) NCT 165' FNL & FSL, NCT 330' FEL & FWL (COEXIST WITH SP. ORDER 197779 MISS, MSSSD, HNTN)

