API NUMBER: 073 25438

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: 11/28/2016 05/28/2017 **Expiration Date**

PERMIT TO DRILL

County: KINGFISHER WELL LOCATION: Sec: Twp: 18N Rge: 5W

FEET FROM QUARTER: SPOT LOCATION: NORTH FROM EAST NW NW llnw NE SECTION LINES:

Lease Name: IRISH 18-05-17 Well No: 1H Well will be 200 feet from nearest unit or lease boundary.

2436

STAGHORN PETROLEUM LLC Operator OTC/OCC Number: Telephone: 9185842558 23753 0 Name:

STAGHORN PETROLEUM LLC 1 W 3RD ST STE 1000

TULSA. OK 74103-3500 SIECK PROPERTIES LLC 415 RIDGEOAK ROAD

SAPULPA OK 74066

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

Name Depth Name Depth MISS'AN (EX CHESTER) 6537 1 6 2 7 3 8 4 9 10 657215 Spacing Orders: Location Exception Orders: 657819 Increased Density Orders:

Pending CD Numbers: Special Orders:

Total Depth: 11700 Ground Elevation: 1140 Surface Casing: 400 Depth to base of Treatable Water-Bearing FM: 170

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

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: 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? Wellhead Protection Area?

located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C Pit Location is AP/TE DEPOSIT Pit Location Formation: TERRACE D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 16-31875 H. CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST

HORIZONTAL HOLE 1

Sec 17 Twp 18N Rge 5W County KINGFISHER

Spot Location of End Point: SW SW SW SE
Feet From: SOUTH 1/4 Section Line: 200
Feet From: EAST 1/4 Section Line: 2600

Depth of Deviation: 6225
Radius of Turn: 511
Direction: 182
Total Length: 4673

Measured Total Depth: 11700

True Vertical Depth: 6655

End Point Location from Lease,
Unit, or Property Line: 200

Notes:

Category Description

HYDRAULIC FRACTURING 11/23/2016 - 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.

LOCATION EXCEPTION - 657819 11/28/2016 - G60 - (I.O.) 17-18N-5W

X657215 MSNLC

SHL NCT 235' FNL, NCT 2436' FEL

COMPL. INT. NCT 165' FNL, NCT 2436' FEL, NCT 165' FSL, NCT 2600' FEL

STAGHORN PETROLEUM, LLC.

11/9/16

SPACING - 657215 11/28/2016 - G60 - (640)(HOR) 17-18N-5W

EXT 648200/650170 MSNLC, OTHER

EST OTHER

COMPL. INT. NLT 660' FB

(COEXIST WITH SP. ORDER 44960/62761 MSSLM)