API NUMBER: 011 24028

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: 06/12/2018 12/12/2018 **Expiration Date** 

PERMIT TO DRILL

WELL LOCATION: Sec: 02 Twp: 19N Rge: 12W County: BLAINE

FEET FROM QUARTER: WEST SPOT LOCATION: NW NW FROM NORTH N2 llnw SECTION LINES:

Lease Name: MAJOR Well No: 19-12-02 1H Well will be 200 feet from nearest unit or lease boundary.

330

STAGHORN PETROLEUM II LLC Operator OTC/OCC Number: Telephone: 9185842558 24056 0 Name:

200

STAGHORN PETROLEUM II LLC 1 W 3RD ST STE 1000

TULSA. OK 74103-3500 TIM CRAVENS

2018 GREENSTONE TRAIL

PRESIDENT OF THE CRAVENS RANCH INC

CARROLLTON TX 75010

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

Name Depth Name Depth MISSISSIPPIAN 7638 1 6 2 7 3 8 4 9 10 678687 Spacing Orders: Location Exception Orders: Increased Density Orders:

Pending CD Numbers: 201802861 Special Orders:

Total Depth: 13500 Ground Elevation: 1332 Surface Casing: 1500 Depth to base of Treatable Water-Bearing FM: 310

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: 8000 Average: 5000

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

FLOWERPOT Pit Location Formation:

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 18-34641

H. SEE MEMO

#### PIT 2 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: OIL BASED
Chlorides Max: 300000 Average: 200000

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: FLOWERPOT

# HORIZONTAL HOLE 1

Sec 02 Twp 19N Rge 12W County **BLAINE** SW Spot Location of End Point: SE SW SW Feet From: SOUTH 1/4 Section Line: 135 Feet From: WEST 1/4 Section Line: 360

Depth of Deviation: 7208 Radius of Turn: 1000

Direction: 179
Total Length: 4721

Measured Total Depth: 13500

True Vertical Depth: 8332

End Point Location from Lease,
Unit, or Property Line: 135

Notes:

Category Description

DEEP SURFACE CASING 6/7/2018 - 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 6/7/2018 - 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 6/7/2018 - 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

MEMO 6/7/2018 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 -

OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

Category Description

PENDING CD - 201802861 6/12/2018 - G57 - (I.O.) 2-19N-12W

X678687 MSSP

COMPL. INT. NCT 165' FNL, NCT 165' FSL, NCT 330' FWL

NO OP. NAMED

REC 4-30-2018 (JOHNSON)

SPACING - 678687 6/12/2018 - G57 - (640)(HOR) 2-19N-12W

EST MSSP, OTHERS POE TO BHL NLT 660' FB

(COEXIST WITH SP. ORDER #35526 UNCCR, #223041 MNNG, MSSSD)

# Well Location Plat

Operator: STAGHORN PETROLEUM, LLC Lease Name and No.: MAJOR 19-12-02 1H

Footage: 200' FNL - 330' FWL Gr. Elevation: 1332' Section: 2 Township: 19N Range: 12W I.M.

County: Blaine State of Oklahoma

Terrain at Loc.: Location fell in wide open pasture with a Rural Water District water line

running North-South on West side of location.

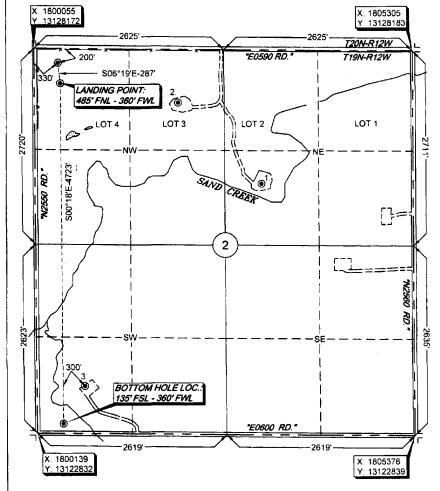


**GPS DATUM NAD 83 NAD 27** UTM - ZONE 14

Surface Hole Loc. Lat: 36°09'29.12"N Lon: 98°27'29.82"W Lat: 36.15805220 Lon: -98.45792635 X:1800389 Y:13127973

Landing Point: Lat: 36°09'26.30"N Lon. 98°27'29.41"W Lat: 36.15726890 Lon: -98.45781483 X:1800423 Y:13127688

Bottom Hole Loc.: Lat: 36°08'39.60"N Lon: 98°27'28.83"W Lat: 36 14429469 Lon: -98.45765266 X:1800497 Y:13122967



CRAVENS UNIT 1 860' FSL - 510' FWL (NE/4) OCC STATUS: PA

1. CROWN EXPLORATION LLC 2. DOMINION OK TX E & P INC

CRAIG 1

1980' FSL - 1980' FWL (NW/4) OCC STATUS: PA

3. TWENTY/TWENTY OIL & GAS INC

MARVA 1-2

660' FSL - 660' FWL (SW/4) OCC STATUS: PA

\*PLEASE NOTE\* EXISTING WELL DATA SHOWN HEREON WAS FURNISHED FROM THE OCC WEBSITE AND WAS NOT SURVEYED OR VERIFIED ON THE GROUND

-Please note that this libration was started unit this grund uncer the supervision of a Licensed Profession and a red Surveyor but the accuracy of this survey is not pursuited. Please contact A home Surveying and Vegorip portion of any 1 contaction by determined. OPE data in colours of which the survey is not provided and the survey of the survey of

Arkoma Surveying and Mapping, PLLC P.O. Box 238 Wilburton, OK 74578 Ph. 918-465-5711 Fax 918-465-5030 Certificate of Authorization No. 5348 Expires June 30, 2018

Invoice #7699

Date Staked: 03/12/18 By: J.L. Date Drawn. 03/14/18 By: J.D.

## Certification:

This is to certify that this Well Location Plat represents the results of a survey made on the ground performed under the supervision of the undersigned.

**OK LPLS 1664** 

03/15/18

