API NUMBER: 093 25105

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: 11/09/2017
Expiration Date: 05/09/2018

PERMIT TO DRILL

WELL LOCATION: Sec: 07 Twp: 20N Rge: 13W	County: MAJOR
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SPOT LOCATION: SW SW SW SE FEET FROM QUARTER: FROM SOUTH FROM EAST SECTION LINES: 270 2507

Lease Name: SULLIVAN Well No: 20-13-07 1H Well will be 270 feet from nearest unit or lease boundary.

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

STAGHORN PETROLEUM II LLC

1 W 3RD ST STE 1000

TULSA, OK 74103-3500

ROD & TWYLIA KECK 610 NORTH 11TH AVENUE

FAIRVIEW OK 73737

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	8596	6	
2			7	
3			8	
4			9	
5			10	
Spacing Orders:	667552	Location Exception Orders: 66	68421	Increased Density Orders:

Pending CD Numbers: Special Orders:

Total Depth: 13700 Ground Elevation: 1732 Surface Casing: 600 Depth to base of Treatable Water-Bearing FM: 530

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

PIT 1 INFORMATION Approved Method for disposal of Drilling Fluids:

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?

Within 1 mile of municipal water well? N

Wellhead Protection Area? N

Pit is 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: 17-33097

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 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

HORIZONTAL HOLE 1

Sec 07 Twp 20N Rge 13W County **MAJOR** Spot Location of End Point: NW NW NW NF Feet From: NORTH 1/4 Section Line: 50 EAST Feet From: 1/4 Section Line: 2589

Depth of Deviation: 8097 Radius of Turn: 573 Direction: 357 Total Length: 4703

Measured Total Depth: 13700

True Vertical Depth: 8738

End Point Location from Lease,
Unit, or Property Line: 50

INTERMEDIATE CASING

Notes:

Category Description

HYDRAULIC FRACTURING 10/17/2017 - 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

10/17/2017 - 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

LOCATION EXCEPTION - 668421 11/3/2017 - G57 -(I.O) 7-20N-13W

X667552

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

STAGHORN PETRO. LLC

9/22/2017

MEMO 11/9/2017 - G57 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 -

OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

Category Description

SPACING - 667552

11/1/2017 - G57 - (640)(HOR) 7-20N-13W EST MSSP, OTHERS COMPL. INT. NLT 660' FB (COEXIST SP. ORDER # 82594 UNCCR & ORDER #126543/131837 MSSSD)

Well Location Plat

Operator: STAGHORN PETROLEUM, LLC

Lease Name and No.: SULLIVAN 20-13-07 1H Footage: 270' FSL - 2507' FEL GR. ELEVAT GR. ELEVATION: 1732' Section: 7 Township: 20N Range: 13W

County: Major State of Oklahoma

Terrain at Loc.: Stake fell in part cattle pasture and part wheat field.

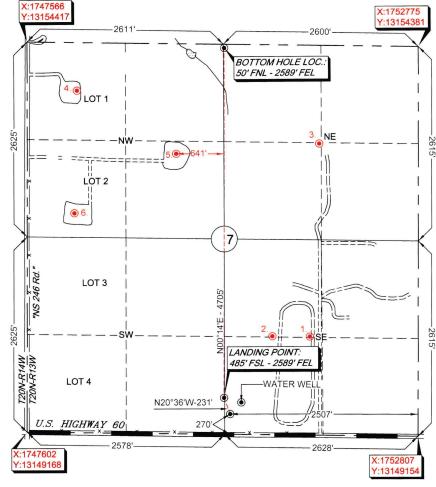


GPS DATUM NAD 83 NAD 27 UTM - ZONE 14

Surface Hole Loc.: Lat: 36°13'03.73"N Lon: 98°37'39.85"W Lat: 36.21766557 Lon: -98.62737285 X: 1750299 Y: 13149431

Landing Point: Lat: 36°13'05.86"N Lon: 98°37'40.85"W Lat: 36.21825775 Lon: -98.62765288 X: 1750216 Y: 13149646

Bottom Hole Loc.: Lat: 36°13'52.39"N Lon: 98°37'40.99"W Lat: 36.23118204 Lon: -98.62769009 X: 1750187 Y: 13154349



1. HUNT OIL CO. 2. HUNT OIL CO 3. XTO ENERGY INC SEABOURN 1 SEABOURN 2 CORNELSON 1 1320' FSL-1140' FWL (SE/4) 1320' FSL-640' FWL (SE/4) 1320' FNL-1320' FEL (NE/4) OCC STATUS: PA OCC STATUS: PA OCC STATUS: AC 4. STAGHORN 5. STAGHORN 6. STAGHORN FORTUNE 1-7 FORTUNE 2-7 FORTUNE 3-7 1980' FSL-660' FWL (NW/4) 330' FSL-660' FWL (NW/4) 1140' FSL-1980' FWL (NW/4) OCC STATUS: AC OCC STATUS: AC OCC STATUS: AC

Please note that this location was staked on the ground under the supervision of a Licensed Professional Land Surveyor, but the accuracy of this survey is not guaranteed. Please contact Arkoma Surveying and Mapping promptly if any inconsistency is determined. GPS data is observed from RTK - GPS. Quarter Section distances may be assumed from a Government Survey Plat or assumedat a proportionate distance from opposing section corners or occupation. thereof, and may not have been measured on-the-ground, and further, does not

represent a true boundary survey

NOTE: X and Y data shown hereon for Section Corners may NOT have been

surveyed on-the-ground, and further, does NOT represent a true Boundary Survey

survey and plat by, 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 #6768-D

Date Staked: 09/19/17 Date Drawn: 09/23/17 By : K.B.

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

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.

LANCE G. MATHIS

09/26/17 **OK LPLS 1664**

