

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

API NUMBER: 073 25570

Approval Date: 03/22/2017
Expiration Date: 09/22/2017

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 33 Twp: 20N Rge: 9W County: KINGFISHER
SPOT LOCATION: FEET FROM QUARTER: FROM SOUTH FROM EAST
SECTION LINES: 185 330

Lease Name: COMET 20-09-33 Well No: 1H Well will be 185 feet from nearest unit or lease boundary.
Operator Name: STAGHORN PETROLEUM LLC Telephone: 9185842558 OTC/OCC Number: 23753 0

STAGHORN PETROLEUM LLC
1 W 3RD ST STE 1000
TULSA, OK 74103-3500

EDWARD MINERALS LLC
1808 EAST WOODLAND CIRCLE
MUSKOGEE OK 74403

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

Name	Depth	Name	Depth
1	MISSISSIPPIAN	7564	6
2			7
3			8
4			9
5			10

Spacing Orders: 659452

Location Exception Orders: 661592

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 13100

Ground Elevation: 1164

Surface Casing: 400

Depth to base of Treatable Water-Bearing FM: 320

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: Yes

PIT 1 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: WATER BASED

Chlorides Max: 3500 Average: 1500

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

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT)

PERMIT NO: 17-32302

H. CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST

This permit does not address the right of entry or settlement of surface damages.

The duration of this permit is SIX MONTHS, except as otherwise provided by Rule 165: 10-3-1.

Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation Division as to when Surface Casing will be run.

HORIZONTAL HOLE 1

Sec 33 Twp 20N Rge 9W County MAJOR

Spot Location of End Point: NW NE NE NE

Feet From: NORTH 1/4 Section Line: 165

Feet From: EAST 1/4 Section Line: 380

Depth of Deviation: 7500

Radius of Turn: 578

Direction: 359

Total Length: 4692

Measured Total Depth: 13100

True Vertical Depth: 8078

End Point Location from Lease,
Unit, or Property Line: 165

Notes:

Category	Description
HYDRAULIC FRACTURING	3/21/2017 - 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 - 661592	3/22/2017 - G64 - (I.O.) 33-20N-9W X659452 MSSP COMPL. INT. NCT 165' FSL, NCT 165' FNL, NCT 380' FEL STAGHORN PETROLEUM LLC 3-2-2017
SPACING - 659452	3/22/2017 - G64 - (640)(HOR) 33-20N-9W EXT 650891 MSSP, OTHER EXT OTHER COMPL. INT. NLT 60' FB (COEXIST SP. ORDER 94314/94878 MRMC, OTHER; ORDER 224027 MRMC, OTHER; 234120 MNNG)

This permit does not address the right of entry or settlement of surface damages.
The duration of this permit is SIX MONTHS, except as otherwise provided by Rule 165: 10-3-1.
Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation Division as to when Surface Casing will be run.

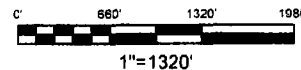


Well Location Plat

API: 073 25570

Sec. 33-20N-9W I.M.

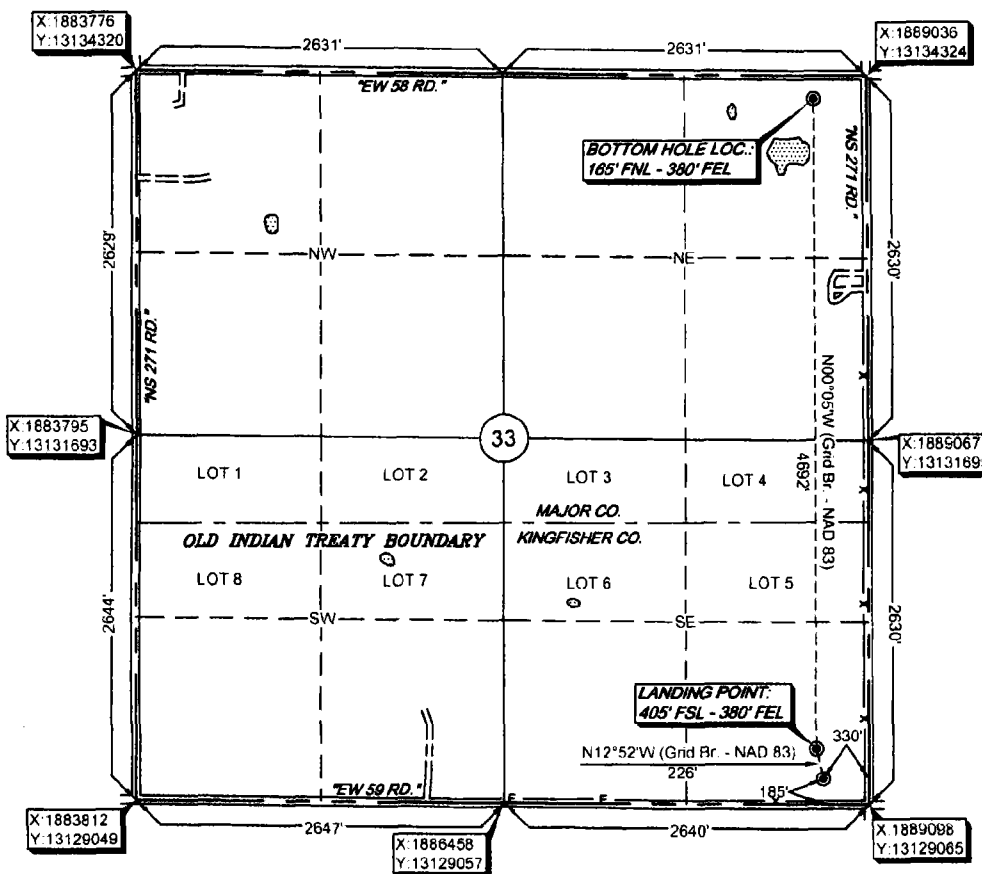
Operator : STAGHORN PETROLEUM, LLC
 Lease Name and No. : COMET 20-09-33 1H
 Footage : 185' FSL - 330' FEL GR. ELEVATION : 1164' Good Site? YES
 Section : 33 Township : 20N Range : 9W I.M.
 County : Kingfisher/Major State of Oklahoma
 Terrain at Loc. : Location fell in a wheat field due North of an existing fence/aerial power line and due West of an existing fence.



Accessibility : From the East.

Directions : From the junction of State Highway 81 and State Highway 51 in the town of Hennessey, OK, go 12.5 miles West on State Highway 51, 3.0 miles North on "NS 274 RD." and 2.0 miles West on "EW 59 RD." to the Southeast Corner of Section 33-20N-9W.

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



Surface Hole Loc.:
 Lat: 36°09'35.51"N
 Lon: 98°09'31.63"W
 Lat: 36.15982888
 Lon: -98.15844257
 X: 1888765
 Y: 13129249

Landing Point:
 Lat: 36°09'37.69"N
 Lon: 98°09'32.25"W
 Lat: 36.16043405
 Lon: -98.15861418
 X: 1888713
 Y: 13129469

Bottom Hole Loc.:
 Lat: 36°10'24.09"N
 Lon: 98°09'32.42"W
 Lat: 36.17332200
 Lon: -98.15866153
 X: 1888658
 Y: 13134159

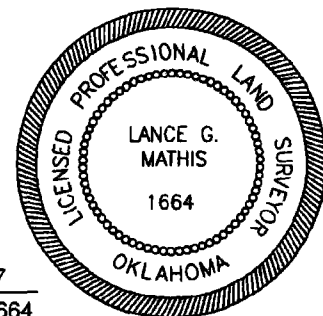
Please note that this location was staked on the ground under the supervision of a Licensed Professional Land Surveyor, but the accuracy of this survey is not guaranteed. Please contact Arkoma Surveying and Mapping promptly if any inconsistency is determined. GPS data is observed from RTK - GPS. NOTE: 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.

Quarter Section distances may be assumed from a Government Survey Plat or assumed at 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.

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

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.



Invoice #6801
 Date Staked : 12/02/16 By : J.W.
 Date Drawn : 12/07/16 By : J.H.
 Rev. BHL : 03/20/17 By : R.S.

LANCE G. MATHIS 03/20/17
 OK LPLS 1664