

API NUMBER: 093 25266

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

Approval Date: 02/15/2022
Expiration Date: 08/15/2023

Multi Unit Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Section: 02 Township: 20N Range: 13W County: MAJOR

SPOT LOCATION: ☐ SE ☐ NW ☐ SW ☐ SW FEET FROM QUARTER: FROM SOUTH FROM WEST
SECTION LINES: 689 601

Lease Name: IRON CURTAIN 20-13-10-15 Well No: 1H Well will be 601 feet from nearest unit or lease boundary.

Operator Name: 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

RONALD RAY AND RUBY L. WILCOX
20625 HWY 60
FAIRVIEW OK 73737

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

Name	Code	Depth
1 RED FORK	404RDFK	7409

Spacing Orders: 720691
723337

Location Exception Orders: No Exceptions

Increased Density Orders: No Density

Pending CD Numbers: 202102688
202102689

Working interest owners' notified: ***

Special Orders: No Special

Total Depth: 17165 Ground Elevation: 1628

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 560

Deep surface casing has been approved

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

Approved Method for disposal of Drilling Fluids:

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

PERMIT NO: 22-38058

H. (Other)

SEE MEMO

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? 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: DOG CREEK

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: DOG CREEK

This permit does not address the right of entry or settlement of surface damages. The duration of this permit is 18 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.

MULTI UNIT HOLE 1

Section: 15	Township: 20N	Range: 13W	Meridian: IM	Total Length: 8580
County: MAJOR				Measured Total Depth: 17165
Spot Location of End Point: C	SW	SW	NW	True Vertical Depth: 7450
Feet From: NORTH	1/4 Section Line: 2310			End Point Location from
Feet From: WEST	1/4 Section Line: 330			Lease, Unit, or Property Line: 330

NOTES:

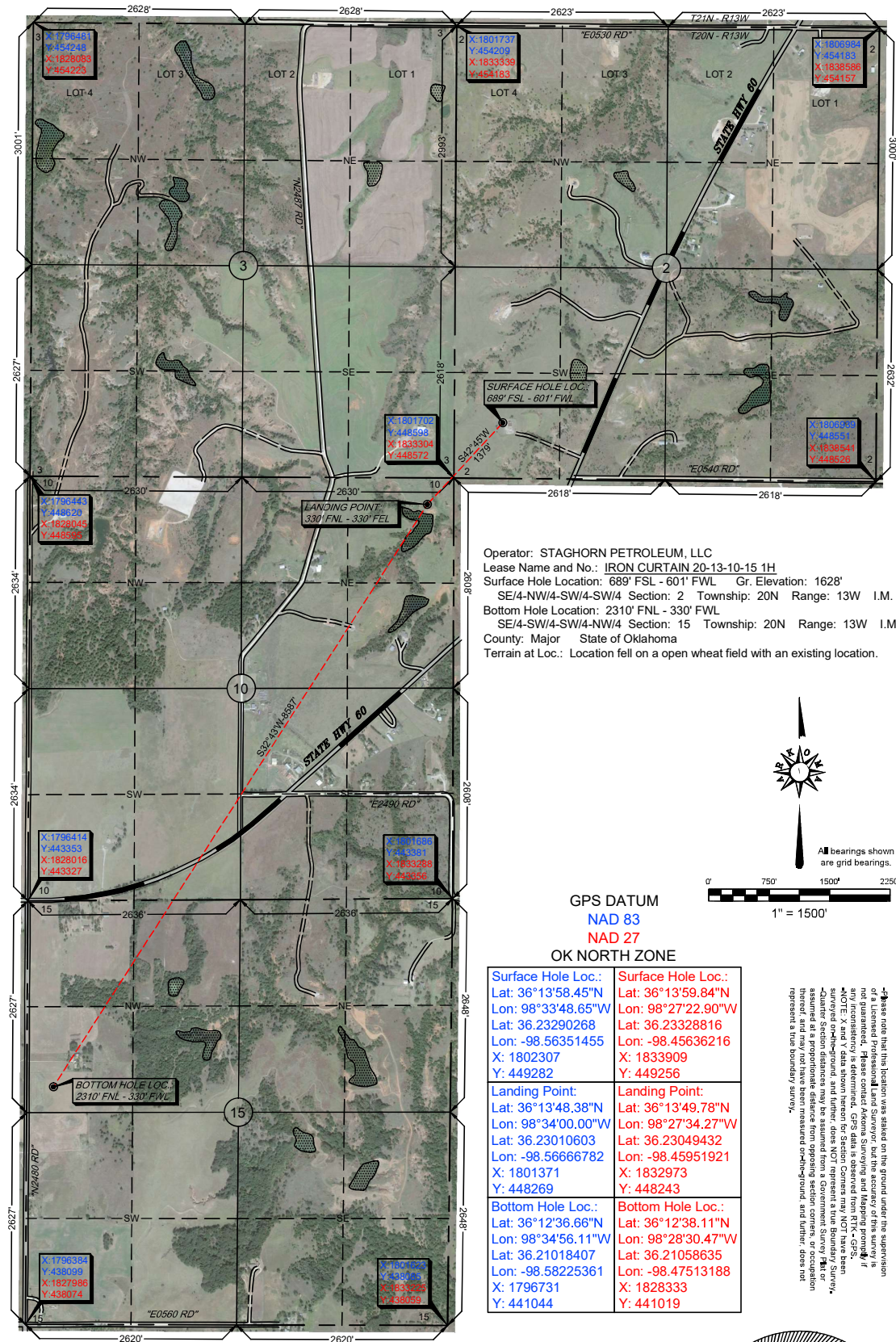
Category	Description
DEEP SURFACE CASING	[2/14/2022 - GC2] - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING
HYDRAULIC FRACTURING	<p>[2/14/2022 - GC2] - OCC 165:10-3-10 REQUIRES:</p> <p>1) NOTICE SHALL BE GIVEN AT LEAST 5 BUSINESS DAYS PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS ON A HORIZONTAL WELL TO OPERATORS PRODUCING WELLS WITHIN 1 MILE OF THE COMPLETION INTERVAL OF THE SUBJECT WELL. THE NOTICE TO SUCH OPERATORS SHALL CONTAIN THE INFORMATION IN FORM 6000NOO. IF THE HYDRAULIC FRACTURING OPERATIONS SCHEDULE CHANGES AFTER NOTICE HAS BEEN PROVIDED, RESULTING IN A DELAY OF OPERATIONS OF MORE THAN 5 DAYS FROM THE INITIAL NOTICE, NEW NOTICE IS REQUIRED TO BE GIVEN;</p> <p>2) NOTICE WILL BE GIVEN TO THE OCC CENTRAL OFFICE AND LOCAL DISTRICT OFFICES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS. FORM 6000NHF SHALL BE USED AND IS FOUND AT THIS LINK: OCCWEB.COM/OG/OGFORMS.HTML; AND,</p> <p>3) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS IS TO BE REPORTED TO FRACFOCUS WITHIN 60 DAYS AFTER THE CONCLUSION OF HYDRAULIC FRACTURING OPERATIONS, FOUND AT FRACFOCUS.ORG</p>
INTERMEDIATE CASING	[2/14/2022 - GC2] - 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	[2/14/2022 - GC2] - CLOSED SYSTEM=STEEL PITS (REQUIRED - GYPSUM CREEK), OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
PENDING CD - 202102688	<p>[2/14/2022 - G56] - (I.O.) 10 & N2 15-20N-13W</p> <p>EST MULTIUNIT HORIZONTAL WELL</p> <p>X720691 RDFK 10-20N-13W</p> <p>X202102687 RDFK N2 15-20N-13W</p> <p>66.55% 10-20N-13W</p> <p>33.45% N2 15-20N-13W</p> <p>NO OP NAMED</p> <p>REC 12/27/2021 (MOORE)</p>
PENDING CD - 202102689	<p>[2/14/2022 - G56] - (I.O.) 10 & N2 15-20N-13W</p> <p>X720691 RDFK 10-20N-13W</p> <p>X202102687 RDFK N2 15-20N-13W</p> <p>COMPL INT (10-20N-13W) NCT 0' FSL, NCT 330' FNL, NCT 330' FEL</p> <p>COMPL INT (N2 15-20N-13W) NCT 0' FNL, NCT 330' FSL, NCT 330' FEL</p> <p>NO OP NAMED</p> <p>REC 12/27/2021 (MOORE)</p>
SPACING - 720691	<p>[2/14/2022 - G56] - (640)(HOR) 10-20N-13W</p> <p>EST RDFK</p> <p>POE TO BHL NLT 660' FB</p> <p>(COEXIST WITH SP # 67846/113419 RDFK NE4, # 67846/115712/542922 RDFK SW4, # 67846/117113/542922 NW4, SE4, # 113419 RDFKU, # 115712/542922 RDFKU, # 117113/542922 RDFKU)</p>
SPACING - 723337	<p>[2/14/2022 - G56] - (320)(HOR) N2 15-20N-13W</p> <p>EST RDFK</p> <p>POE TO BHL NLT 660' FB</p> <p>(COEXIST WITH SP # 67846 RDFK)</p>

This permit does not address the right of entry or settlement of surface damages. The duration of this permit is 18 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

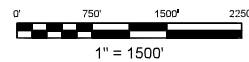
S.H.L. Sec. 2-20N-13W I.M.
B.H.L. Sec. 15-20N-13W I.M.



Operator: STAGHORN PETROLEUM, LLC
Lease Name and No.: IRON CURTAIN 20-13-10-15 1H
Surface Hole Location: 689' FSL - 601' FWL Gr. Elevation: 1628'
SE/4-NW/4-SW/4-SW/4 Section: 2 Township: 20N Range: 13W I.M.
Bottom Hole Location: 2310' FNL - 330' FWL
SE/4-SW/4-SW/4-NW/4 Section: 15 Township: 20N Range: 13W I.M.
County: Major State of Oklahoma
Terrain at Loc.: Location fell on a open wheat field with an existing location.



All bearings shown
are grid bearings.



GPS DATUM
NAD 83
NAD 27
OK NORTH ZONE

Surface Hole Loc.: Lat: 36°13'58.45"N Lon: 98°33'48.65"W Lat: 36.23290268 Lon: -98.56351455 X: 1802307 Y: 449282	Surface Hole Loc.: Lat: 36°13'59.84"N Lon: 98°27'22.90"W Lat: 36.23328816 Lon: -98.45636216 X: 1833909 Y: 449256
Landing Point: Lat: 36°13'48.38"N Lon: 98°34'00.00"W Lat: 36.23010603 Lon: -98.56666782 X: 1801371 Y: 448269	Landing Point: Lat: 36°13'49.78"N Lon: 98°27'34.27"W Lat: 36.23049432 Lon: -98.45951921 X: 1832973 Y: 448243
Bottom Hole Loc.: Lat: 36°12'36.66"N Lon: 98°34'56.11"W Lat: 36.21018407 Lon: -98.58225361 X: 1796731 Y: 441044	Bottom Hole Loc.: Lat: 36°12'38.11"N Lon: 98°28'30.47"W Lat: 36.21058635 Lon: -98.47513188 X: 1828333 Y: 441019

-Please note that this location was staked on the ground under the supervision of a Licensed Professional Land Surveyor, and the accuracy of this survey is not guaranteed. Please contact Arkoma Surveying and Mapping promptly if you have any questions or concerns regarding this survey. This plat is a true and correct copy of the original survey plat and is not to be used for any other purpose. The survey was conducted on or about the date shown on this plat. The survey was conducted by the undersigned, a Licensed Professional Land Surveyor, and the accuracy of this survey is not guaranteed. The survey was conducted on or about the date shown on this plat. The survey was conducted by the undersigned, a Licensed Professional Land Surveyor, and the accuracy of this survey is not guaranteed.

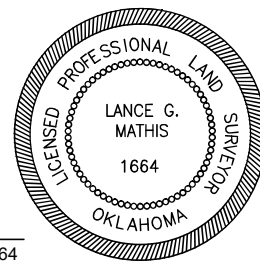
Survey and plat by:
Arkoma Surveying and Mapping, PLLC
P.O. Box 238 Wilburton, OK 74578
Ph. 918-465-5711 Fax 918-465-5030
Certificate of Authorization No. 5348
Expires June 30, 2022

Invoice #9622-A
Date Staked: 10/22/2021 By: D.W.
Date Drawn: 10/27/2021 By: J.L.
Removed UTM: 12/13/2021 By: J.L.

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
LANCE G. MATHIS
12/14/2021
OK LPLS 1664





Operator: STAGHORN PETROLEUM, LLC
 Lease Name and No.: IRON CURTAIN 20-13-10-15 1H
 Surface Hole Location: 689' FSL - 601' FWL Gr. Elevation: 1628'
 SE/4-NW/4-SW/4 Section: 2 Township: 20N Range: 13W I.M.
 Bottom Hole Location: 2310' FNL - 330' FWL
 SE/4-SW/4-SW/4-NW/4 Section: 15 Township: 20N Range: 13W I.M.
 County: Major State of Oklahoma
 Terrain at Loc.: Location fell on a open wheat field with an existing location.

GPS DATUM
 NAD 83
 NAD 27
 OK NORTH ZONE

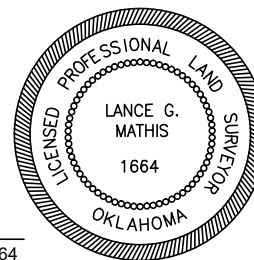
Surface Hole Loc.:	Surface Hole Loc.:
Lat: 36°13'58.45"N	Lat: 36°13'59.84"N
Lon: 98°33'48.65"W	Lon: 98°27'22.90"W
Lat: 36.23290268	Lat: 36.23328816
Lon: -98.56351455	Lon: -98.45636216
X: 1802307	X: 1833909
Y: 449282	Y: 449256

Landing Point:	Landing Point:
Lat: 36°13'48.38"N	Lat: 36°13'49.78"N
Lon: 98°34'00.00"W	Lon: 98°27'34.27"W
Lat: 36.23010603	Lat: 36.23049432
Lon: -98.56666782	Lon: -98.45951921
X: 1801371	X: 1832973
Y: 448269	Y: 448243

Bottom Hole Loc.:	Bottom Hole Loc.:
Lat: 36°12'36.66"N	Lat: 36°12'38.11"N
Lon: 98°34'56.11"W	Lon: 98°28'30.47"W
Lat: 36.21018407	Lat: 36.21058635
Lon: -98.58225361	Lon: -98.47513188
X: 1796731	X: 1828333
Y: 441044	Y: 441019

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. It is the responsibility of the user to verify the location of the well. The user is advised to consult the original survey plat and accompanying notes for a complete description of the survey. The user is also advised to consult the original survey plat and accompanying notes for a complete description of the survey. The user is also advised to consult the original survey plat and accompanying notes for a complete description of the survey.

OK LPLS 1664



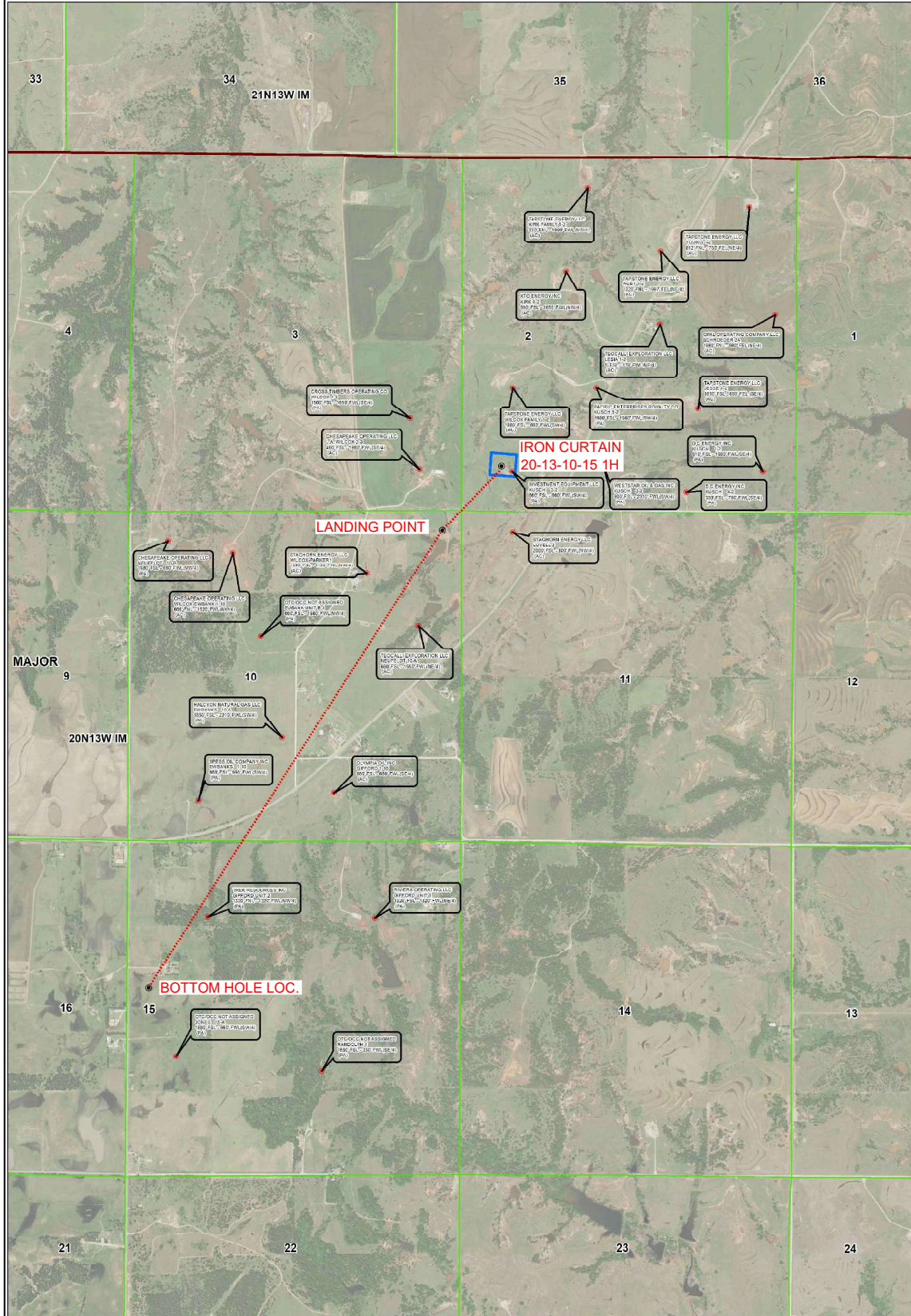
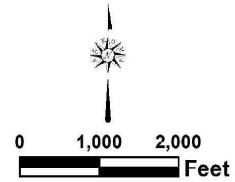


Anti-Collision

Operator: STAGHORN PETROLEUM, LLC
Lease Name and No.: IRON CURTAIN 20-13-10-15 1H
Surface Hole Location: 689' FSL - 601' FWL
Sec. 2 Twp. 20N Rng. 13W I.M.
Landing Point: 330' FNL - 330' FEL
Sec. 10 Twp. 20N Rng. 13W I.M.
Bottom Hole Location: 2310' FNL - 330' FWL
Sec. 15 Twp. 20N Rng. 13W I.M.
County: Major State of Oklahoma

Sec(s). 2, 3, 10, & 15-20N-13W I.M.

- SHL
- LP & BHL
- Bore Path
- OCC Wells
- PAD
- Counties
- Township-Range
- Sections





Topographic Vicinity Map

Operator: STAGHORN PETROLEUM, LLC

Lease Name and No.: IRON CURTAIN 20-13-10-15 1H

Surface Hole Location: 689' FSL - 601' FWL

Sec. 2 Twp. 20N Rng. 13W I.M.

Landing Point: 330' FNL - 330' FEL

Sec. 10 Twp. 20N Rng. 13W I.M.

Bottom Hole Location: 2310' FNL - 330' FWL

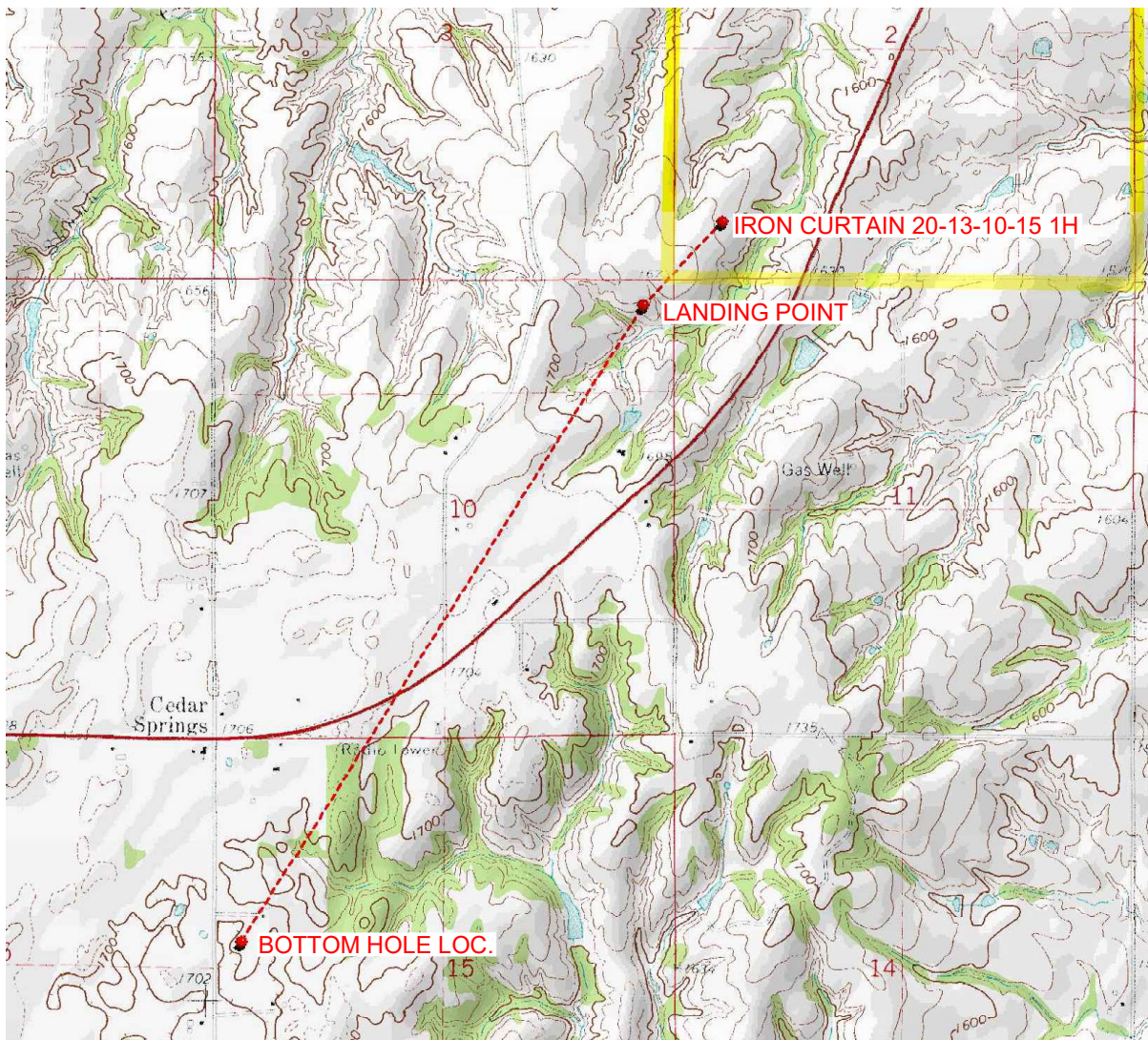
Sec. 15 Twp. 20N Rng. 13W I.M.

County: Major State of Oklahoma



Scale 1" = 2000'
Contour Interval: 20'

Ground Elevation at Surface Hole Location: 1628'



Provided 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, 2022

Date Staked: 10/22/2021

The purpose of this map is to verify the location and elevation as staked on the ground and to show the surrounding Topographic features. The footage shown hereon is only as SCALED onto a U.S.G.S. Topographic Map.

Please note that this location was staked carefully 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.

County Highway Vicinity Map

Job #:9622-A

Operator: STAGHORN PETROLEUM, LLC

Lease Name and No.: IRON CURTAIN 20-13-10-15 1H

Accessibility: From the Northeast.

Directions: From the junction of Highway 58 & Highway 60 in Fairview, OK, go 5.0 miles East on Highway 60 to the Southwest Quarter of Section 2-20N-13W with lease road being on the West side of Highway 60.

1 inch = 0.75 mile

provided by,
Arkoma Surveying and Mapping, PLLC
P.O. Box 236 Wilburton, OK 74578
Ph. 918-465-5711 Fax 918-465-5030
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