

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

API NUMBER: 051 24100

Approval Date: 01/11/2017
Expiration Date: 07/11/2017

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 10 Twp: 4N Rge: 6W

County: GRADY

SPOT LOCATION: SE NE NE SW

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 2305 2340

Lease Name: NORTH CHEYENNE

Well No: 3-10X3H

Well will be 2305 feet from nearest unit or lease boundary.

Operator Name: VITRUVIAN II WOODFORD LLC

Telephone: 8324583149

OTC/OCC Number: 23144 0

VITRUVIAN II WOODFORD LLC
4 WATERWAY SQ PL STE 400
THE WOODLANDS, TX 77380-2692

THREE BROTHERS FARMS, LLC
P. O. BOX 801
LINDSAY OK 73052

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

	Name	Depth	Name	Depth
1	SYCAMORE	14881	6	
2	WOODFORD	15315	7	
3	HUNTON	15438	8	
4			9	
5			10	

Spacing Orders: 199355
112036
440798

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201605976
201606070
201606208
201606209
201700108
201700109

Special Orders:

Total Depth: 23800

Ground Elevation: 1173

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 250

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: 16-31968

H. SEE MEMO

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.

PIT 1 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: WATER BASED

Chlorides Max: 5000 Average: 2500

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: CHICKASHA

PIT 2 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: OIL BASED

Chlorides Max: 325000 Average: 285000

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: CHICKASHA

HORIZONTAL HOLE 1

Sec 03 Twp 4N Rge 6W County GRADY

Spot Location of End Point: N2 NW NE NW

Feet From: NORTH 1/4 Section Line: 25

Feet From: WEST 1/4 Section Line: 1650

Depth of Deviation: 14869

Radius of Turn: 900

Direction: 355

Total Length: 7517

Measured Total Depth: 23800

True Vertical Depth: 15820

End Point Location from Lease,
Unit, or Property Line: 25

Notes:

Category	Description
DEEP SURFACE CASING	1/4/2017 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY FOR ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON CONDUCTOR OR SURFACE CASING
HYDRAULIC FRACTURING	1/4/2017 - 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.

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051 24100 NORTH CHEYENNE 3-10X3H

Category	Description
MEMO	1/4/2017 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 2 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT
PENDING CD - 201605976	1/6/2017 - G75 - (E.O.) 3 & 10-4N-6W EST MULTIUNIT HORIZONTAL WELL X112036 SCMR 3 & 10-4N-6W X440798 WDFD, HNTN 3-4N-6W X199355 WDFD, HNTN 10-4N-6W (SCMR, HNTN ASSOCIATED COMMON SOURCES OF SUPPLY TO WDFD) 66.67% 3-4N-6W 33.33% 10-4N-6W NO OP. NAMED REC 1-6-2017 (M. PORTER)
PENDING CD - 201606070	1/6/2017 - G75 - (E.O.) 3 & 10-4N-6W X112036 SCMR 3 & 10-4N-6W X440798 WDFD, HNTN 3-4N-6W X199355 WDFD, HNTN 10-4N-6W SHL (10-4N-6W) NCT 2000' FSL, NCT 2000' FWL COMPL. INT (10-4N-6W) NCT 2000' FSL, NCT 0' FNL, NCT 1300' FWL COMPL. INT (3-4N-6W) NCT 0' FSL, NCT 150' FNL, NCT 1300' FWL NO OP. NAMED REC 1-6-2017 (M. PORTER)
PENDING CD - 201606208	1/6/2017 - G75 - 3-4N-6W X440798 WDFD 4 WELLS NO OP. NAMED HEARING 1-23-2017
PENDING CD - 201606209	1/6/2017 - G75 - 10-4N-6W X199355 WDFD 4 WELLS NO OP. NAMED HEARING 1-23-2017
PENDING CD - 201700108	1/11/2017 - G75 - (I.O.) 3-4N-6W X165:10-3-28(C)(2)(B) WDFD (NORTH CHEYENNE 3-10X3H) NCT 400' TO EXISTING CHEYENNE 2-10X3H, NCT 400' TO PROPOSED NORTH CHEYENNE 4-10X3H VITRUVIAN II WOODFORD LLC HEARING 2-7-2017 (OK'D PER HULLINGER)
PENDING CD - 201700109	1/11/2017 - G75 - (I.O.) 10-4N-6W X165:10-3-28(C)(2)(B) WDFD (NORTH CHEYENNE 3-10X3H) NCT 400' TO EXISTING CHEYENNE 2-10X3H, NCT 400' TO PROPOSED NORTH CHEYENNE 4-10X3H VITRUVIAN II WOODFORD LLC HEARING 2-7-2017 (OK'D PER HULLINGER)
SPACING - 112036	1/6/2017 - G75 - (640) 3 & 10-4N-6W EXT 94778 SCMR, OTHER
SPACING - 199355	1/6/2017 - G75 - (640) 10-4N-6W EXT 94778 WDFD, HNTN EXT OTHERS EST OTHER
SPACING - 440798	1/6/2017 - G75 - (640) 3-4N-6W EXT OTHERS EST OTHERS EXT 199355/VAR WDFD, HNTN, OTHERS

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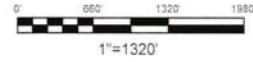


Well Location Plat

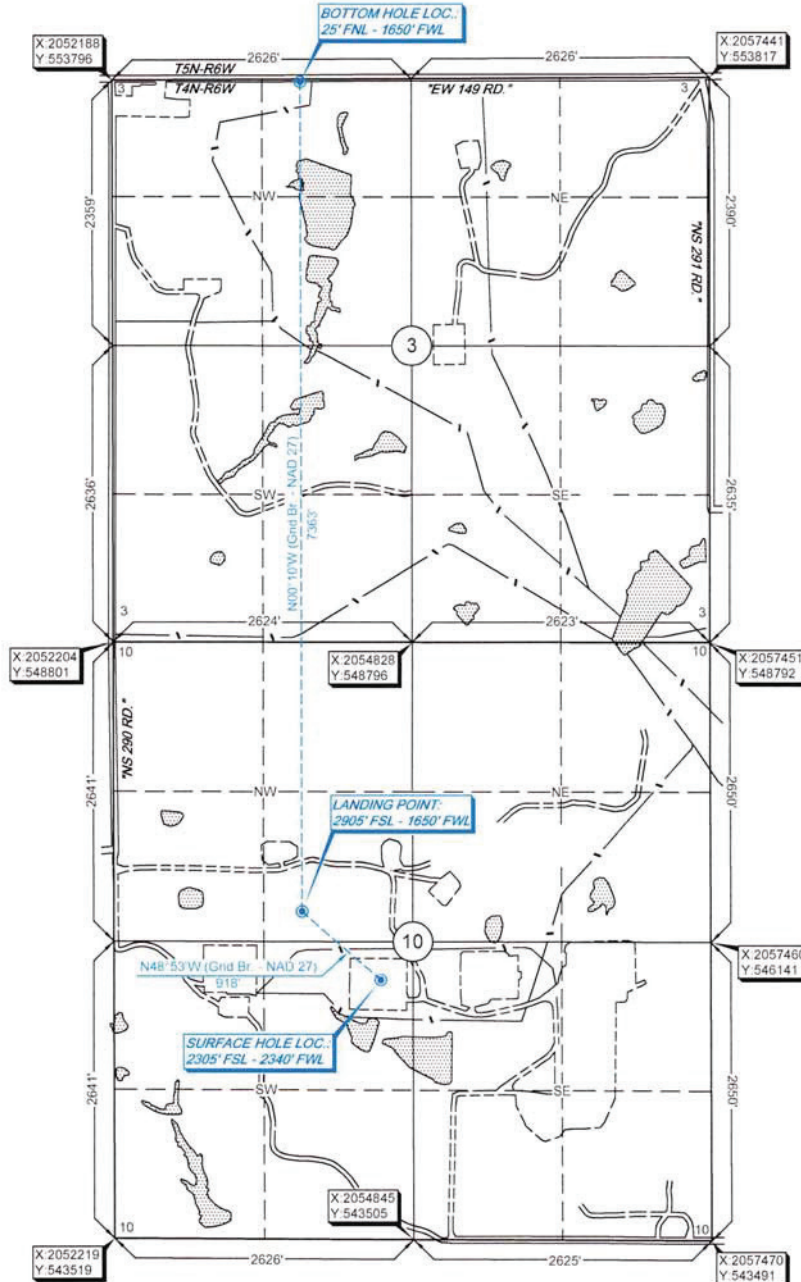
S.H.L. Sec. 10-4N-6W I.M.
B.H.L. Sec. 3-4N-6W I.M.

Operator: VITRUVIAN II WOODFORD, LLC
 Lease Name and No. : NORTH CHEYENNE 3-10X3H
 Footage : 2305' FSL - 2340' FWL PAD ELEVATION : 1173' Good Site? YES
 Section: 10 Township: 4N Range: 6W I.M.
 County : Grady State of Oklahoma
 Alternate Loc.: N/A
 Terrain at Loc. : Location fell on an existing level pad site.
 Accessibility : From the North.
 Directions : From the intersection of "Main Street" and State Highway 19 in Alex, OK, go 1.0 mile West on State Highway 19, 4.3 miles South on "S. Lake Rd.", 1.8 miles West on "EW 149 RD.", and 1.3 miles South "NS 290 RD." to existing Vitruvian lease road entrance.

API 051-24100



GPS DATUM
NAD - 27
OK SOUTH ZONE



Surface Hole Loc.:	Lat: 34.83303869
	Lon: -97.81821893
	X: 2054552
	Y: 545812
Landing Point:	Lat: 34.83470117
	Lon: -97.82052001
	X: 2053861
	Y: 546415
Bottom Hole Loc.:	Lat: 34.85493134
	Lon: -97.82055018
	X: 2053838
	Y: 553778

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 for any information regarding this survey. GPS data is obtained from RTK-GPS. The accuracy of the data is dependent on the quality of the equipment used and the skill of the surveyor. The survey was performed on the ground, and the data shown herein 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 #4698-A-A
 Date Staked : 11/30/16 By : H.S.
 Date Drawn : 12/06/16 By : J.H.

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

12/06/16
 OK LPLS 1664

