

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

API NUMBER: 051 24094

Approval Date: 12/09/2016
Expiration Date: 06/09/2017

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 15 Twp: 3N Rge: 5W

County: GRADY

SPOT LOCATION: SW SE SW SW

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 192 900

Lease Name: VINSON

Well No: 3R-22X27H

Well will be 192 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

KENDALL BYRUM
2241 COUNTY ROAD 1580
LINDSAY OK 73052

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

	Name	Depth	Name	Depth
1	SYCAMORE	15014	6	
2	WOODFORD	15210	7	
3	HUNTON	15455	8	
4			9	
5			10	

Spacing Orders: 171539
395916
394310
656455

Location Exception Orders: 656017
656018
656050

Increased Density Orders: 656422
656302

Pending CD Numbers:

Special Orders:

Total Depth: 26260

Ground Elevation: 1166

Surface Casing: 700

Depth to base of Treatable Water-Bearing FM: 240

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: 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 located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is BED AQUIFER

Pit Location Formation: DUNCAN

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

PERMIT NO: 16-31436

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 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 located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is BED AQUIFER

Pit Location Formation: DUNCAN

HORIZONTAL HOLE 1

Sec 27 Twp 3N Rge 5W County GRADY

Spot Location of End Point: S2 SE SW SW

Feet From: SOUTH 1/4 Section Line: 25

Feet From: WEST 1/4 Section Line: 990

Depth of Deviation: 15210

Radius of Turn: 750

Direction: 175

Total Length: 9872

Measured Total Depth: 26260

True Vertical Depth: 15455

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

Notes:

Category

Description

DEEP SURFACE CASING

12/8/2016 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY FOR ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON CONDUCTOR OR SURFACE CASING

EXCEPTION TO RULE - 656017

12/9/2016 - G75 - (I.O.) 22-3N-5W
X165:10-3-28(C)(2)(B) SCMR, WDFD, HNTN (VINSON 3R-22X27H)
NCT 25' FROM MONARCH 1-22 & NCT 500' FROM VINSON 2-22X27H
VITRUVIAN II WOODFORD, LLC
9-12-2016

EXCEPTION TO RULE - 656018

12/9/2016 - G75 - (I.O.) 27-3N-5W
X165:10-3-28(C)(2)(B) SCMR, WDFD, HNTN (VINSON 3R-22X27H)
NCT 25' FROM MARY ANN 1-27 & NCT 500' FROM VINSON 2-22X27H
VITRUVIAN II WOODFORD, LLC
9-12-2016

HYDRAULIC FRACTURING

12/8/2016 - 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/](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.

INCREASED DENSITY - 656302

12/9/2016 - G75 - 22-3N-5W
X171539 HNTN
X395916 SCMR, WDFD
2 WELLS
VITRUVIAN II WOODFORD, LLC
9-22-2016

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

051 24094 VINSON 3R-22X27H

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.

Category	Description
INCREASED DENSITY - 656422	12/9/2016 - G75 - 27-3N-5W X171539 HNTN X394310 SCMR, WDFD 2 WELLS VITRUVIAN II WOODFORD, LLC 9-27-2016
LOCATION EXCEPTION - 656050	12/9/2016 - G75 - (I.O.) X171539 HNTN 22 & 27-3N-5W X395916 SCMR, WDFD 22-3N-5W X394310 SCMR, WDFD 27-3N-5W SHL (15-3N-5W) NCT 150 FSL, NCT 860 FWL COMPL. INT. (22-3N-5W) NCT 150 FNL, NCT 0 FSL, NCT 660 FWL COMPL. INT. (27-3N-5W) NCT 0 FNL, NCT 150 FSL, NCT 660 FWL VITRUVIAN II WOODFORD, LLC 9-13-2016
MEMO	12/8/2016 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 2 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT
SPACING - 171539	12/9/2016 - G75 - (640) 22 & 27-3N-5W EXT OTHERS EXT 146081 HNTN, OTHERS
SPACING - 394310	12/9/2016 - G75 - (640) 27-3N-5W EXT 391504 SCMR, WDFD
SPACING - 395916	12/9/2016 - G75 - (640) 22-3N-5W EXT 394310 SCMR, WDFD EST OTHER
SPACING - 656455	12/9/2016 - G75 - (I.O.) 22 & 27-3N-5W EST (2) MULTIUNIT HORIZONTAL WELLS X171539 HNTN 22 & 27-3N-5W X395916 SCMR, WDFD 22-3N-5W X394310 SCMR, WDFD 27-3N-5W (SCMR, HNTN ASSOCIATED COMMON SOURCES OF SUPPLY TO WDFD) 48% 22-3N-5W 52% 27-3N-5W VITRUVIAN II WOODFORD, LLC 9-28-2016
WATERSHED STRUCTURE	12/8/2016 - G71 - WELL WITHIN 1/2 MILE OF AN OKLAHOMA CONSERVATION COMMISSION WATERSHED STRUCTURE. CONTACT THE LOCAL CONSERVATION DISTRICT OFFICE AT (405) 224-0523 PRIOR TO DRILLING

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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.