

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

API NUMBER: 051 24050

Approval Date: 07/12/2016

Expiration Date: 01/12/2017

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 30 Twp: 3N Rge: 5W

County: GRADY

SPOT LOCATION: SE SE SE NW

FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 2375 2355

Lease Name: MURDOCK

Well No: 4-30X31H

Well will be 2355 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

HARRISON FAMILY TRUST
4772 COUNTY STREET 2940
RUSH SPRINGS OK 73082

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

| Name | Depth | Name | Depth |
|------------|-------|------|-------|
| 1 SPRINGER | 14275 | 6 | |
| 2 | | 7 | |
| 3 | | 8 | |
| 4 | | 9 | |
| 5 | | 10 | |

Spacing Orders: 403058
389415
652675

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201602625
201602626
201602646

Special Orders:

Total Depth: 22000

Ground Elevation: 1162

Surface Casing: 700

Depth to base of Treatable Water-Bearing FM: 650

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: 3000

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

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

PERMIT NO: 16-31372

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: 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: CHICKASHA

HORIZONTAL HOLE 1

Sec 31 Twp 3N Rge 5W County GRADY

Spot Location of End Point: SE SW SW SE

Feet From: SOUTH 1/4 Section Line: 150

Feet From: EAST 1/4 Section Line: 2082

Depth of Deviation: 13352

Radius of Turn: 573

Direction: 175

Total Length: 7748

Measured Total Depth: 22000

True Vertical Depth: 14275

End Point Location from Lease,
Unit, or Property Line: 150

Notes:

Category

Description

HYDRAULIC FRACTURING

7/1/2016 - 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.

MEMO

7/1/2016 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 2 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT

PENDING CD - 201602625

7/1/2016 - G75 - (E.O.) 30 & 31-3N-5W
EST MULTIUNIT HORIZONTAL WELL
X389415/652675 SPRG 30-3N-5W
X403058/201602646 SPRG 31-3N-5W
40% 30-3N-5W
60% 31-3N-5W
VITRUVIAN II WOODFORD, LLC
REC 7-8-2016 (NORRIS)

PENDING CD - 201602626

7/1/2016 - G75 - (E.O.) 30 & 31-3N-5W
X389415/652675 SPRG 30-3N-5W
X403058/201602646 SPRG 31-3N-5W
SHL (30-3N-5W) NCT 2375 FNL, NCT 2355 FWL
COMPL. INT. (30-3N-5W) NCT 2000 FNL, NCT 0 FSL, NCT 1800 FEL
COMPL. INT. (31-3N-5W) NCT 0 FNL, NCT 165 FSL, NCT 1800 FEL
VITRUVIAN II WOODFORD, LLC
REC 7-8-2016 (NORRIS)

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.

| Category | Description |
|------------------------|--|
| PENDING CD - 201602646 | 7/1/2016 - G75 - (640) 31-3N-5W CLARIFY 403058 TO INCLUDE GDRD SHALE IN LOWER PORTION OF SPRG HEARING 7-19-2016 (OK'D PER HULLINGER) |
| SPACING - 389415 | 7/1/2016 - G75 - (640) 30-3N-5W EXT 152397/VAR SPRG, OTHERS EXT OTHERS |
| SPACING - 403058 | 7/1/2016 - G75 - (640) 31-3N-5W EXT 389415/392187 SPRG, OTHERS EST OTHER |
| SPACING - 652675 | 7/1/2016 - G75 - (640) 30-3N-5W CLARIFY 389415 TO INCLUDE GDRD SHALE IN LOWER PORTION OF SPRG |

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.

API 051-24050

API NUMBER: 000 00000

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

Approval Date:
Expiration Date:

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 30 Twp: 3N Rge: 5W County: GRADY
SPOT LOCATION: SE SE SE NW FEET FROM QUARTER: FROM NORTH FROM WEST
SECTION LINES: 2375 2350

Application for
Intent to Drill

Lease Name: MURDOCK Well No: 4-30X31H Well will be 2355 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

HARRISON FAMILY TRUST
4772 COUNTY STREET 2940
RUSH SPRINGS OK 73082

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

| | Name | Depth | Name | Depth |
|---|----------|-------|------|-------|
| 1 | SPRINGER | 14275 | | 6 |
| 2 | | | | 7 |
| 3 | | | | 8 |
| 4 | | | | 9 |
| 5 | | | | 10 |

Spacing Orders: 389415
652675
402058

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201602625 } (E.O.) Hearings 7-8-2016
201602626 }

Special Orders:

Total Depth: 22000 Ground Elevation: 1162 Surface Casing: 700 Depth to base of Treatable Water-Bearing FM: 650

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

Approved Method for disposal of Drilling Fluids:

Pit 1: water-based, closed
5K-3K ppm chlorides

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 16-31372

Pit 2: oil-based, closed
300K-200K ppm chlorides

Pit 1 + 2: closed system = steel pits
per operator request; Pit 2 -
OBM to vendor, OBM cuttings
per District

TEMPORARY AUTHORIZATION
TO DRILL
Expiration Date: 7-12-2016
Signature: Virginia Hallinger
165:10-3-1

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.

API 051-24050

HORIZONTAL HOLE 1

Sec 31 Twp 3N Rge 5W County GRADY

Spot Location of End Point: SE SW SW SE

Feet From: SOUTH 1/4 Section Line: 150

Feet From: EAST 1/4 Section Line: 2082

Depth of Deviation: 13352

Radius of Turn: 573

Direction: 175

Total Length: 7748

Measured Total Depth: 22000

True Vertical Depth: 14275

End Point Location from Lease,

Unit, or Property Line: 150

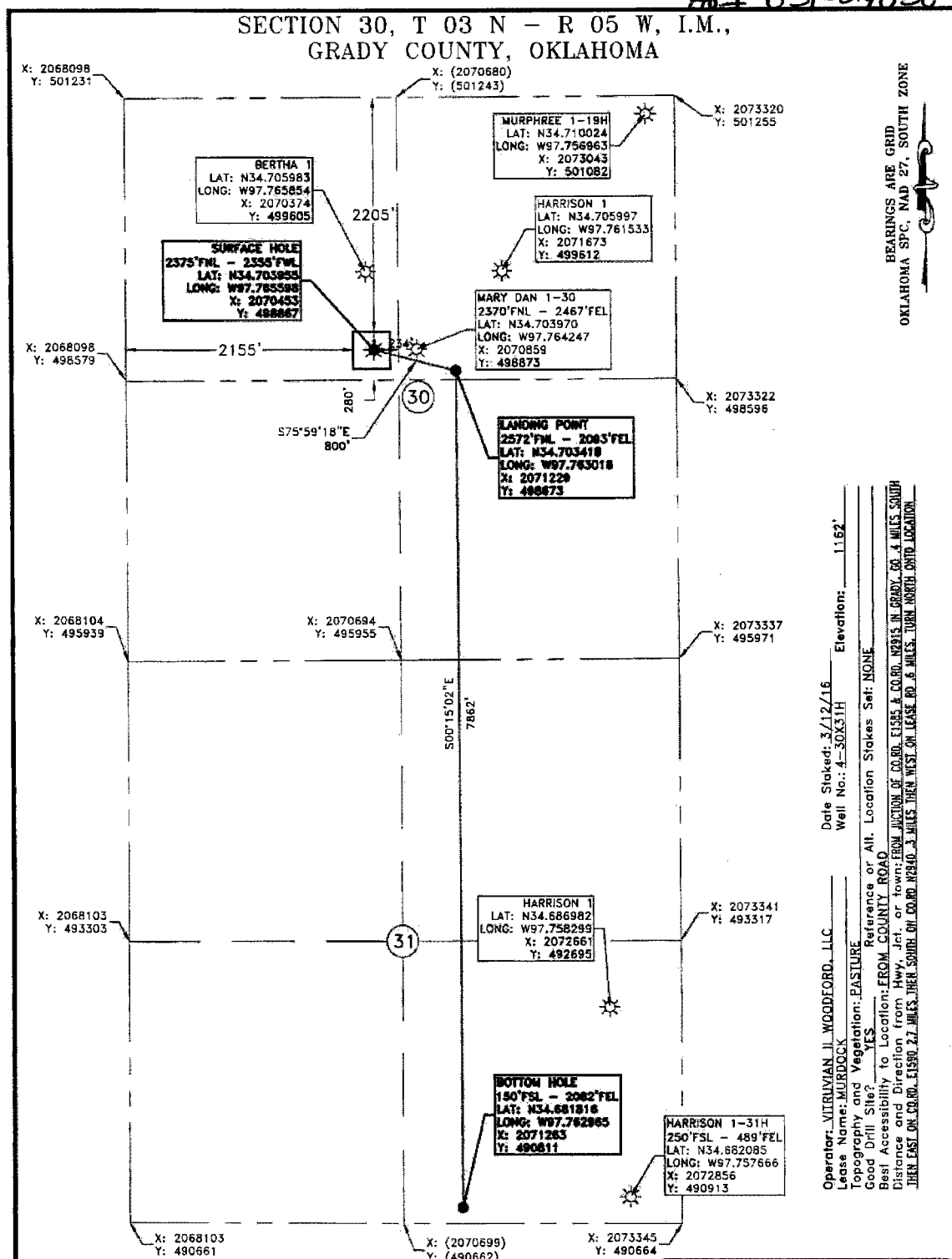
Application for Intent to Drill

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.

000 00000 MURDOCK 4-30X31H

ART 051-24050

SECTION 30, T 03 N - R 05 W, I.M.,
GRADY COUNTY, OKLAHOMA



BEARINGS ARE GRID
OKLAHOMA S.P.C., NAD 27, SOUTH ZONE

Operator: VITRUVIAN II WOODFORD, LLC
 Lease Name: MURDOCK
 Topography and Vegetation: PASTURE
 Good Drill Site? YES
 Best Accessibility to Location: FROM COUNTY ROAD
 Distance and Direction from Hwy, Jct. or town: FROM JUNCTION OF CO. RD. 1035 IN GRADY CO. 3.4 MILES SOUTH
 THEN EAST ON CO. RD. 1035 2.7 MILES THEN SOUTH ON COUNTY ROAD 3.3 MILES THEN WEST ON LEASE RD. 0.6 MILES TO THE NORTH OILFIELD LOCALITY

Date Staked: 3/12/16
 Well No.: 4-30X31H
 Elevation: 1162'

LEGEND
 SURFACE LOCATION *
 EXISTING WELL *
 PROPOSED DRILL PATH ---
 EXISTING PIPELINE - - - - -
 ELECTRIC LINE - - - - -
 OVERHEAD POWER - - - - -
 FENCE - - - - -

St Drannon 6/2/16
 STAM DRANNON
 OKLAHOMA L.P.L.S. NO.: 1672

NOTE:
 This is a plat of a proposed well location and does not represent a true boundary survey. The information shown hereon shall not be relied upon for the location or establishment of land boundary lines. All of the positions shown hereon have not been verified as being actual Section, Quarter or Property corners. Positions shown in (Parentheses) are based upon local occupation and improvements or calculated per proportional measurement and/or G.L.O. record distances. Review this plat and notify Gateway Services Group, LLC immediately of any possible discrepancy. All existing wells shown hereon are based on information provided by the client.



Vitruvian II Woodford, LLC
 VITRUVIAN II WOODFORD, LLC

Gateway
 Gateway Services Group, LLC

PO. BOX 960
 WEEKER, OK 74858
 OFF: (405) 273-0954
 FAX: (405) 273-0980
 C.A. NO. 4091 (LS)
 EXP. DATE 8-30-2016

EXHIBIT "A" PRELIMINARY

MURDOCK 4-30X31H
 2375' FNL - 2355' FNL
 NW/4 SECTION 30, T 03 N - R 05 W, I.M.,
 GRADY COUNTY, OKLAHOMA

| | | |
|-----------------------------|-----------------------------------|------------|
| DRAWN BY: RLG | DATE: 3/15/16 | CHK'D: BDW |
| GATEWAY NO.: 16-0134-102 R2 | SCALE: 1"=1200' | |
| PAD P.N.: | WELL P.N.: | |
| REV. DWN. | DESCRIPTION | DATE |
| 1 | RLG MOVE LP & BHL | 5/31/16 |
| 2 | RLG NAME CHANGE/ADD ADD'L OFFSETS | 6/1/16 |