

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

API NUMBER: 137 27295 A

Approval Date: 08/12/2014
Expiration Date: 02/12/2015

Horizontal Hole Oil & Gas

Amend reason: CHANGE FORMATIONS, TOTAL DEPTH. BOTTOM-HOLE LOCATION & INFORMATION

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 13 Twp: 2N Rge: 5W County: STEPHENS
SPOT LOCATION: NW NW NE NE FEET FROM QUARTER: FROM NORTH FROM EAST
SECTION LINES: 320 1080

Lease Name: **SNODGRASS** Well No: 1-12H Well will be 320 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

VAN K. SNODGRASS
ROUTE 1, BOX 63A
FOSTER OK 73434

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

| | Name | Depth | Name | Depth |
|---|----------|-------|------|-------|
| 1 | SYCAMORE | 15550 | 6 | |
| 2 | WOODFORD | 15815 | 7 | |
| 3 | HUNTON | 16255 | 8 | |
| 4 | | | 9 | |
| 5 | | | 10 | |

Spacing Orders: 391863
171539

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201408537
201408802

Special Orders:

Total Depth: 22000 Ground Elevation: 1177 **Surface Casing: 1500** 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

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 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

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 14-28044
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 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 12 Twp 2N Rge 5W County STEPHENS

Spot Location of End Point: N2 NW NE NE

Feet From: NORTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 990

Depth of Deviation: 15530

Radius of Turn: 740

Direction: 1

Total Length: 5307

Measured Total Depth: 22000

True Vertical Depth: 16255

End Point Location from Lease,
Unit, or Property Line: 50

Notes:

Category

Description

DEEP SURFACE CASING

8/7/2014 - G76 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY FOR ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON CONDUCTOR OR SURFACE CASING

MEMO

8/7/2014 - G76 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 2 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT

PENDING CD - 201408537

11/24/2014 - G75 - (E.O.)
X171539 HNTN
X391683 SCMR, WDFD **
SHL NCT 250 FNL, NCT 1080 FEL 13-2N-5W
FIRST PERF NCT 150 FSL, NCT 990 FEL 12-2N-5W
LAST PERF NCT 150 FNL, NCT 990 FEL 12-2N-5W
NO OP. NAMED
REC 11-21-2014 (STUCK)

** S/B X391863 SCMR, WDFD; CORRECTED AT HEARING PER ATTORNEY FOR OPERATOR

PENDING CD - 201408802

11/24/2014 - G75 - 12-2N-5W
X171539 HNTN
X391863 SCMR, WDFD
1 WELL
NO OP. NAMED
HEARING 12-22-2014

SPACING - 171539

11/24/2014 - G75 - (640) 12-2N-5W
EXT OTHERS
EXT 146081 HNTN, OTHERS

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

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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.

Category

Description

SPACING - 391863

11/24/2014 - G75 - (640) 12-2N-5W
EXT 383871 SCMR, WDFD

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.