

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

API NUMBER: 087 22270

Approval Date: 11/06/2019

Expiration Date: 05/06/2021

Horizontal Hole
Oil & Gas
Multi Unit

PERMIT TO DRILL

WELL LOCATION: Sec: 31 Twp: 7N Rge: 3W County: MCCLAIN

SPOT LOCATION: ☐ SE ☐ NE ☐ SE ☐ SE FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 762 223

Lease Name: CALVERT 0603-6-7

Well No: 1WHX

Well will be 223 feet from nearest unit or lease boundary.

Operator
Name: WARWICK-BACCHUS LLC

Telephone: 4056073453

OTC/OCC Number: 24266 0

WARWICK-BACCHUS LLC
6608 N WESTERN AVE BOX 417
OKLAHOMA CITY, OK 73116-7326

THOMAS A CALVERT
18067 STATE HIGHWAY 39
PURCELL OK 73080

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

Name	Depth	Name	Depth
1 WOODFORD	9747	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 685997
685998
701941

Location Exception Orders: 701942

Increased Density Orders: 702011
702300

Pending CD Numbers:

Special Orders:

Total Depth: 21300

Ground Elevation: 1195

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 200

Deep surface casing has been approved

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 located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is ALLUVIAL

Pit Location Formation: ALLUVIUM

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

PERMIT NO: 19-37054

H. SEE MEMO

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.

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 ALLUVIAL

Pit Location Formation: ALLUVIUM

HORIZONTAL HOLE 1

Sec 07 Twp 6N Rge 3W County MCCLAIN

Spot Location of End Point: SE SW SE SW

Feet From: SOUTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 1800

Depth of Deviation: 9622

Radius of Turn: 900

Direction: 196

Total Length: 10264

Measured Total Depth: 21300

True Vertical Depth: 9822

End Point Location from Lease,
Unit, or Property Line: 165

Notes:

Category

Description

DEEP SURFACE CASING

10/22/2019 - 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

10/22/2019 - GC2 - OCC 165:10-3-10 REQUIRES:

1) PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE;

2) WITH NOTICE ALSO GIVEN 48 HOURS IN ADVANCE OF HYDRAULIC FRACTURING ALL WELLS TO BOTH THE OCC CENTRAL OFFICE AND LOCAL DISTRICT OFFICES, USING THE "FRAC NOTICE FORM" FOUND AT THE FOLLOWING LINK: OCCEWEB.COM/OG/OGFORMS.HTML; AND,

3) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS TO BE REPORTED TO FRACFOCUS WITHIN 60 DAYS AFTER THE CONCLUSION THE HYDRAULIC FRACTURING OPERATIONS, USING THE FOLLOWING LINK: FRACFOCUS.ORG

INCREASED DENSITY - 702011

11/6/2019 - G56 - 6-6N-3W
X685997 WDFD
4 WELLS
WARWICK-BACCHUS, LLC
9/11/2019

INCREASED DENSITY - 702300

11/6/2019 - G56 - 7-6N-3W
X685998 WDFD
4 WELLS
WARWICK-BACCHUS, LLC
9/17/2019

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.

087 22270 CALVERT 0603-6-7 1WHX

LOCATION EXCEPTION - 701942	11/6/2019 - G56 - (I.O.) 6 & 7-6N-3W X685997 WDFD, OTHER 6-6N-3W X685998 WDFD, OTHER 7-6N-3W COMPL INT (6-6N-3W) NCT 165' FNL, NCT 0' FSL, NCT 330' FEL COMPL INT (7-6N-3W) NCT 0' FNL, NCT 165' FSL, NCT 330' FEL WARWICK-BACCHUS, LLC 9/10/2019
MEMO	10/22/2019 - GC2 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
SPACING - 685997	11/6/2019 - G56 - (640)(HOR) 6-6N-3W EXT 651901 WDFD, OTHERS POE TO BHL NLT 165' FNL & FSL, NLT 330' FEL & FWL
SPACING - 685998	11/6/2019 - G56 - (640)(HOR) 7-6N-3W EXT 651901 WDFD, OTHERS POE TO BHL NLT 165' FNL & FSL, NLT 330' FEL & FWL
SPACING - 701941	11/6/2019 - G56 - (I.O.) 6 & 7-6N-3W EST MULTIUNIT HORIZONTAL WELL X685997 WDFD, OTHER 6-6N-3W X685998 WDFD, OTHER 7-6N-3W 50% 6-6N-3W 50% 7-6N-3W WARWICK-BACCHUS, LLC 9/10/2019



Well Location Plat

S.H.L. Sec. 31-7N-3W I.M.
B.H.L. Sec. 7-6N-3W I.M.

Operator: WARWICK ENERGY GROUP
Lease Name and No.: CALVERT 0603-6-7 1WHX
Footage: 762' FSL - 223' FEL Gr. Elevation: 1195'
Section: 31 Township: 7N Range: 3W I.M.
County: McClain State of Oklahoma
Terrain at Loc.: Location fell in an open field with scattered timber, with a pond located near the NWc.

087-22270



All bearings shown
are grid bearings.

0' 750' 1500' 2250'
1" = 1500'

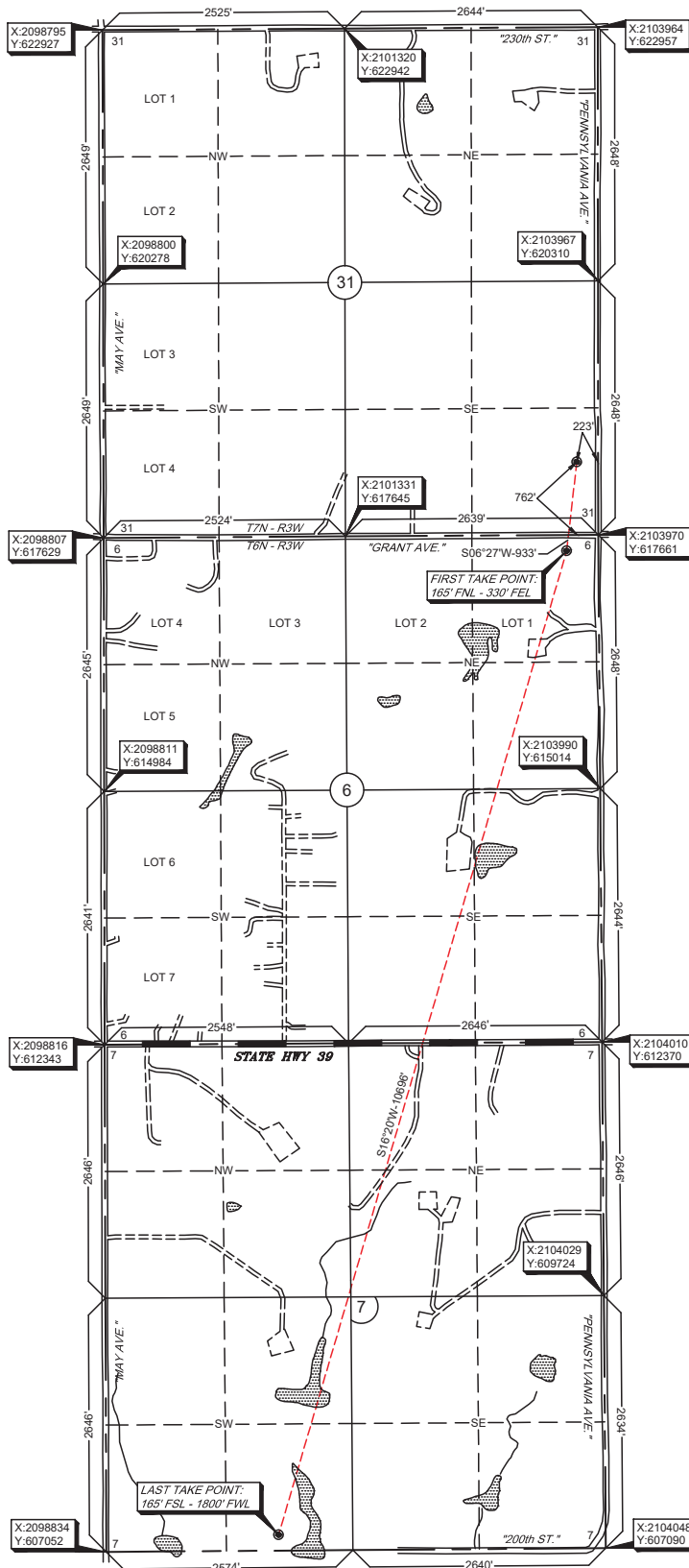
GPS DATUM
NAD 83
OK SOUTH ZONE

Surface Hole Loc.:
Lat: 35°01'54.48"N
Lon: 97°32'53.66"W
Lat: 35.03180127
Lon: -97.54823855
X: 2103746
Y: 618422

First Take Point:
Lat: 35°01'45.31"N
Lon: 97°32'54.97"W
Lat: 35.02925411
Lon: -97.54860280
X: 2103641
Y: 617494

Last Take Point:
Lat: 35°00'03.92"N
Lon: 97°33'31.67"W
Lat: 35.00108927
Lon: -97.55879793
X: 2100633
Y: 607230

-Please note that this location was staked on the ground under the supervision of a Licensed Professional Land Surveyor, but the accuracy of the survey is not guaranteed. Please contact Arkoma Surveying and Mapping promptly if any inaccuracy is determined. GPS data is observed from NTRIP - GPS. When used, the accuracy of the data is dependent on the quality of the NTRIP service. The survey was performed on the ground, and further, does NOT represent a true Boundary Survey. Quarter Section distances may be assumed from a Government Survey/Plat or assumed at a proportionate distance from opening section corners, or occupation thereof, and may not have been measured 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, 2020.

Invoice #8847
Date Staked: 09/12/19 By: D.W.
Date Drawn: 09/20/19 By: C.K.

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
09/25/19
OK LPLS 1664

