

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

API NUMBER: 017 25122 A

Approval Date: 11/21/2017  
Expiration Date: 05/21/2018

Horizontal Hole Oil & Gas

Amend reason: CHANGE SHL; UPDATE ORDER

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 11 Twp: 12N Rge: 6W

County: CANADIAN

SPOT LOCATION:  NW  NW  NE  NW

FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 250 1525

Lease Name: GLACIER 11-14-12-6

Well No: 1HX

Well will be 250 feet from nearest unit or lease boundary.

Operator Name: JONES ENERGY LLC

Telephone: 5123282953

OTC/OCC Number: 21043 0

JONES ENERGY LLC  
807 LAS CIMAS PKWY STE 350  
AUSTIN, TX 78746-6193

MATTHEW CHARLS MACH  
13600 NW 10TH STREET  
YUKON OK 73099

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	8468	6	
2 WOODFORD	8793	7	
3 HUNTON	8925	8	
4		9	
5		10	

Spacing Orders: 668588  
671251

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201703067  
20170559

Special Orders:

Total Depth: 18773

Ground Elevation: 1281

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 570

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 ALLUVIAL

Pit Location Formation: ALLUVIUM

Approved Method for disposal of Drilling Fluids:

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

PERMIT NO: 17-40003

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 ALLUVIAL

Pit Location Formation: ALLUVIUM

HORIZONTAL HOLE 1

Sec 14 Twp 12N Rge 6W County CANADIAN

Spot Location of End Point: S2 S2 S2 SW

Feet From: SOUTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 1320

Depth of Deviation: 8356

Radius of Turn: 477

Direction: 178

Total Length: 9668

Measured Total Depth: 18773

True Vertical Depth: 8925

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

Notes:

Category

Description

DEEP SURFACE CASING

11/3/2017 - G71 - 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

11/3/2017 - G71 - 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](http://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](http://FRACFOCUS.ORG)

MEMO

11/3/2017 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

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 - 201703067	11/21/2017 - G60 - (I.O.) 11 & 14-12N-6W EST MULTIUNIT HORIZONTAL WELL X668588 (11-12N-6W) MSSP, WDFD, HNTN X201702774 (14-12N-6W) MSSP, WDFD, HNTN (MSSP AND HNTN ARE ADJACENT COMMON SOURCES OF SUPPLY TO WDFD) 50% 11-12N-6W 50% 14-12N-6W NO OP. NAMED REC. 10/3/17 (NORRIS)
PENDING CD - 201705959	11/21/2017 - G60 - (I.O.) 11 & 14-12N-6W X668588 (11-12N-6W) MSSP, WDFD, HNTN X201702774 (14-12N-6W) MSSP, WDFD, HNTN COMPL. INT. (11-12N-6W) NCT 165' FNL, NCT 0' FSL, NCT 1300' FWL COMPL. INT. (14-12N-6W) NCT 0' FNL, NCT 165' FSL, NCT 1300' FWL NO OP. NAMED REC. 10/3/17 (NORRIS)
SPACING - 668588	11/21/2017 - G60 - (640)(HOR) 11-12N-6W EXT 629376 MSSP, WDFD, HNTN COMPL. INT. (MSSP, HNTN) NCT 660' FB COMPL. INT. (WDFD) NCT 165' FNL/FSL, NCT 330' FEL/FWL (COEXIST WITH SP. ORDER 135124/141550 MISS, HNTN)
SPACING - 671251	11/21/2017 - G60 - (640)(HOR) 14-12N-6W EXT 635714 MSSP, WDFD, HNTN COMPL. INT. (MSSP, HNTN) NLT 660' FB COMPL. INT. (WDFD) NLT 165' FNL/FSL, NLT 330' FEL/FWL

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.

# JONES Well Location Plat

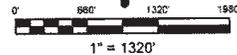
S.H.L. Sec. 11-12N-6W I.M.  
B.H.L. Sec. 14-12N-6W I.M.

Operator: JONES ENERGY, LTD.  
Lease Name and No.: GLACIER 11-14-12-6 1HX  
Footage: 250' FNL - 1525' FWL Gr. Elevation: 1281'  
Section: 11 Township: 12N Range: 6W I.M.  
County: Canadian State of Oklahoma  
Terrain at Loc.: Location fell in a flat cultivated field with a N-S pipeline ±30' West of location.

3501725122

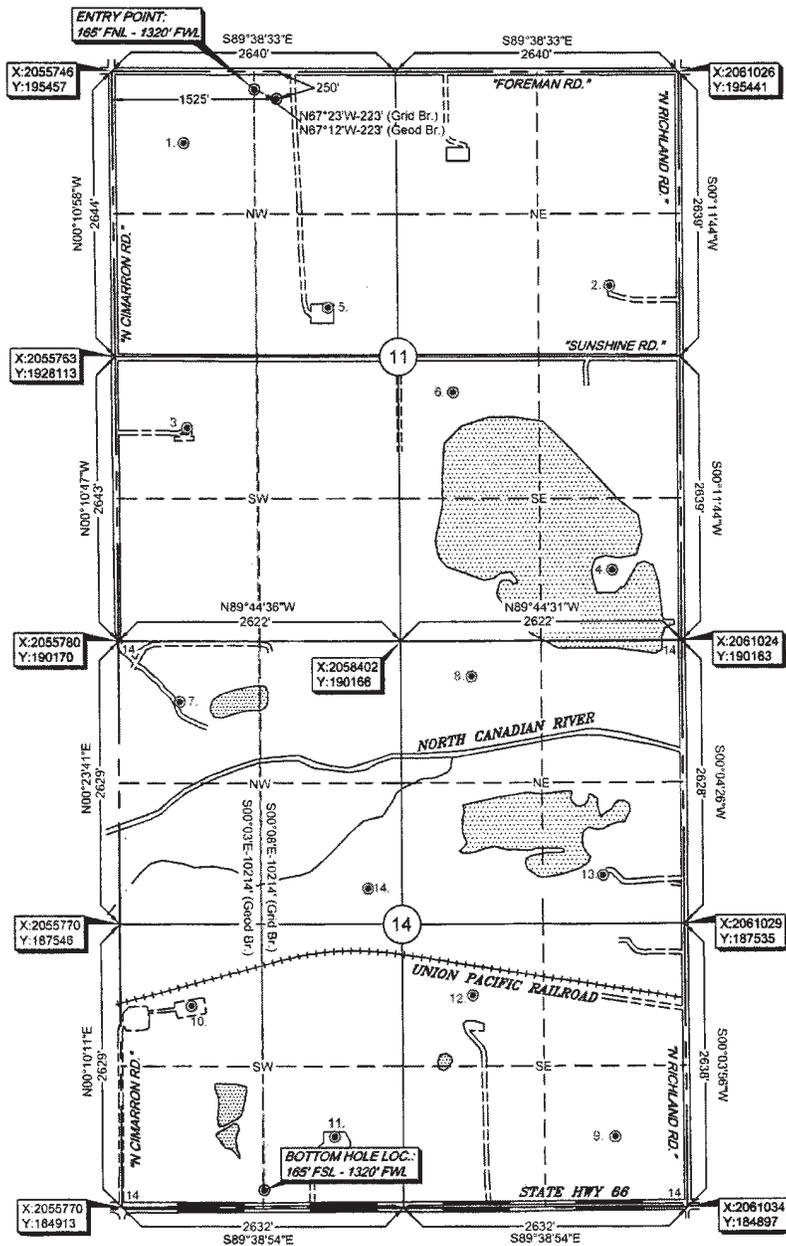


All bearings shown  
are geodetic bearings  
unless noted



GPS DATUM  
NAD 27  
OK NORTH ZONE

Surface Hole Loc.:
Lat: 35°32'09.96"N
Lon: 97°48'27.05"W
X: 2057273
Y: 1952202
Entry Point:
Lat: 35°32'10.81"N
Lon: 97°48'29.54"W
X: 2057067
Y: 1952888
Bottom Hole Loc.:
Lat: 35°30'29.79"N
Lon: 97°48'29.50"W
X: 2057090
Y: 1850774



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. GPS data was obtained from RTK-GPS. NOTE: X and Y data shown herein for Section Corners may NOT have been surveyed on-the-ground and further does NOT represent a true Boundary Survey. Under Section distances may be assumed from a Government Survey Plat, or assumed at a proportionate distance from opposing 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, 2018

Invoice #7001-C-A  
Date Staked: 12/07/17 By: C.K.  
Date Drawn: 12/11/17 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* 12/14/17  
LANCE G. MATHIS OK LPLS 1664

