

API NUMBER: 083 24283 A

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

Approval Date: 04/01/2014

Expiration Date: 10/01/2014

Horizontal Hole Oil & Gas

Amend reason: WELL SURFACE LOCATION DID NOT MATCH  
LOCATION EXCEPTION

**AMEND PERMIT TO DRILL**

WELL LOCATION: Section: 21 Township: 16N Range: 4W County: LOGAN

SPOT LOCATION:  NW  NW  NW  NE  
FEET FROM QUARTER: FROM NORTH FROM EAST  
SECTION LINES: 248 2486

Lease Name: JANE Well No: 4-21-16H Well will be 248 feet from nearest unit or lease boundary.

Operator Name: STEPHENS PRODUCTION CO Telephone: 4797834191 OTC/OCC Number: 23030 0

STEPHENS PRODUCTION CO  
PO BOX 2407  
FORT SMITH, AR 72902-2407

R.L. & OPAL DODD  
16071 W INDUSTRIAL RD  
CASHION OK 73016

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

Name	Code	Depth
1 HUNTON	269HNTN	6980

Spacing Orders: 616223

Location Exception Orders: 635224

Increased Density Orders: 623092

Pending CD Numbers: No Pending

Working interest owners' notified: \*\*\*

Special Orders: No Special

Total Depth: 11021

Ground Elevation: 973

Surface Casing: 612 IP

Depth to base of Treatable Water-Bearing FM: 260

Deep surface casing has been approved

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

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

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

PERMIT NO: 13-24737

H. (Other)

20-MIL LINER REQUIRED

**PIT 1 INFORMATION**

Type of Pit System: ON SITE

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: 1A

Liner required for Category: 1A

Pit Location is: ALLUVIAL

Pit Location Formation: ALLUVIUM

**HORIZONTAL HOLE 1**

Section: 16 Township: 16N Range: 4W Meridian: IM

Total Length: 3592

County: LOGAN

Measured Total Depth: 11021

Spot Location of End Point: NE NE SW NE

True Vertical Depth: 6984

Feet From: NORTH 1/4 Section Line: 1479

End Point Location from  
Lease, Unit, or Property Line: 1479

Feet From: EAST 1/4 Section Line: 1557

**NOTES:**

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.

Category	Description
DEEP SURFACE CASING	3/25/2014 - G71 - APPROVED CONTINGENT ON NOTIFYING OCC FIELD STAFF IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING
HYDRAULIC FRACTURING	<p>[10/14/2021 - GC2] - OCC 165:10-3-10 REQUIRES:</p> <p>1) NOTICE SHALL BE GIVEN AT LEAST 5 BUSINESS DAYS PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS ON A HORIZONTAL WELL TO OPERATORS PRODUCING WELLS WITHIN 1 MILE OF THE COMPLETION INTERVAL OF THE SUBJECT WELL. THE NOTICE TO SUCH OPERATORS SHALL CONTAIN THE INFORMATION IN FORM 6000NOO. IF THE HYDRAULIC FRACTURING OPERATIONS SCHEDULE CHANGES AFTER NOTICE HAS BEEN PROVIDED, RESULTING IN A DELAY OF OPERATIONS OF MORE THAN 5 DAYS FROM THE INITIAL NOTICE, NEW NOTICE IS REQUIRED TO BE GIVEN;</p> <p>2) NOTICE WILL BE GIVEN TO THE OCC CENTRAL OFFICE AND LOCAL DISTRICT OFFICES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS. FORM 6000NH shall BE USED AND IS FOUND AT THIS LINK: <a href="http://OCCWEB.COM/OG/OGFORMS.HTML">OCCWEB.COM/OG/OGFORMS.HTML</a>; AND,</p> <p>3) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS IS TO BE REPORTED TO FRACFOCUS WITHIN 60 DAYS AFTER THE CONCLUSION OF HYDRAULIC FRACTURING OPERATIONS, FOUND AT <a href="http://FRACFOCUS.ORG">FRACFOCUS.ORG</a></p>
INCREASED DENSITY - 623092	<p>4/1/2014 - G30 - 16-16N-4W  X616223 HNTN  1 WELL  STEPHENS PRODUCTION COMPANY  3/24/14</p>
LOCATION EXCEPTION - 635224	<p>10/14/2021 - GC2 - 16-16N-4W  X616223 HNTN  SHL 248' FNL, 2486' FEL  COMPL. INT. (FIRST PERF) 256' FSL, 2384' FWL  COMPL. INT. (LAST PERF) 1870' FNL, 1651' FWL  STEPHENS PRODUCTION COMPANY  1-14-2015</p>
SPACING - 616223	<p>10/14/2021 - GC2 - (640)(HOR) 16-16N-4W  EXT 608813/613119 HNTN, OTHERS  POE TO BHL (HNTN) NCT 660' FB  (COEXIST WITH SP. 155521 HNTN RECTOR 1, NW4, API 083-21190 &amp; STATE 1-16, NE4, API 083-21285)</p>

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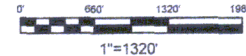
083 24283 JANE 4-21-16H

# WELL LOCATION PLAT - AS-DRILLED

S.H.L. Sec. 21-16N-4W I.M.  
B.H.L. Sec. 16-16N-4W I.M.

Operator: STEPHENS PRODUCTION COMPANY  
Lease Name and No.: JANE #4-21-16H  
Footage: 248' FNL - 2486' FEL GR. ELEVATION: 978' Good Site? YES  
Section: 21 Township: 16N Range: 4W I.M.  
County: Logan State of Oklahoma  
Alternate Loc.: N/A  
Terrain at Loc.: Stake fell in wheat field.

Accessibility: From the East.  
Directions: From the town of Guthrie, OK, at the intersection of State Highway 77 & State Highway 33, go 11.0 miles West on Highway 33, go  $\frac{3}{4}$  of a mile South on "MacArthur Road" to the Northeast Corner of Section 21-16N-4W.



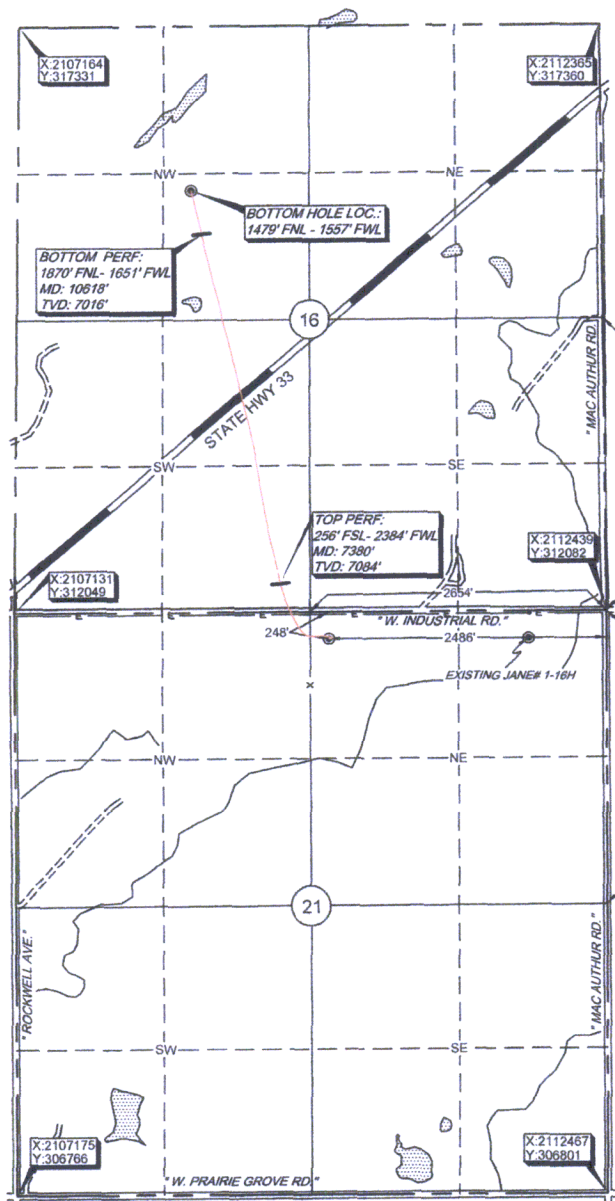
GPS DATUM  
NAD - 27  
OK NORTH ZONE

Surface Hole Loc.:  
Lat: 35°51'21.78"N  
Lon: 97°37'44.26"W  
X: 2109955  
Y: 311819

Top Perf:  
Lat: 35°51'26.75"N  
Lon: 97°37'49.56"W  
X: 2109517  
Y: 312320

Bottom Perf:  
Lat: 35°51'57.94"N  
Lon: 97°37'58.08"W  
X: 2108804  
Y: 315470

Bottom Hole Loc.:  
Lat: 35°52'01.81"N  
Lon: 97°37'59.18"W  
X: 2108711  
Y: 315861



Quarter 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.

NOTE: X and Y data shown hereon for Section Corners may NOT have been surveyed on-the-ground, and further, does NOT represent a true Boundary Survey.

Please note that this location was stated on the ground under the supervision of a Licensed Professional Land Surveyor, but the accuracy of this survey is not guaranteed. Please contact Arkoma Surveying and Mapping promptly if any inconsistency is determined. GPS data is observed from RTK - GPS.

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, 2016

Invoice #4111-A-FW  
Date Staked: 01/23/14 By: J.W.  
Date Drawn: 01/27/14 By: R.M.  
Revise BHL: 05/09/14 By: R.M.  
Add As-Drilled: 07/15/14 By: E.D.

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.

*Stan Drannon* 7/16/14  
STAN DRANNON OK LPLS 1672

