

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

API NUMBER: 083 24283

Approval Date: 04/01/2014  
Expiration Date: 10/01/2014

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 21 Twp: 16N Rge: 4W

County: LOGAN

SPOT LOCATION:  NW  SW  NW  NE

FEET FROM QUARTER: FROM NORTH FROM EAST

SECTION LINES: 770 2485

Lease Name: JANE

Well No: 4-21-16H

Well will be 770 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	Depth	Name	Depth
1 HUNTON	6980	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 616223

Location Exception Orders:

Increased Density Orders: 623092

Pending CD Numbers: 201401198

Special Orders:

Total Depth: 13150

Ground Elevation: 973

**Surface Casing: 600**

Depth to base of Treatable Water-Bearing FM: 280

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: No

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

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. 20-MIL LINER REQUIRED

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.

HORIZONTAL HOLE 1

Sec 16 Twp 16N Rge 4W County LOGAN

Spot Location of End Point: NW NW NW NE

Feet From: NORTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 2485

Depth of Deviation: 6580

Radius of Turn: 600

Direction: 345

Total Length: 5670

Measured Total Depth: 13150

True Vertical Depth: 7130

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

Notes:

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
INCREASED DENSITY - 623092	4/1/2014 - G30 - 16-16N-4W X616223 HNTN 1 WELL STEPHENS PRODUCTION COMPANY 3/24/14
PENDING CD - 201401198	4/1/2014 - G30 - 16-16N-4W X616223 HNTN COMP. INT. NCT 150 FSL, NCT 150 FNL, NCT 660 FWL NO OP. NAMED REC 3/10/14 (M.PORTER)
SPACING - 616223	4/1/2014 - G30 - (640 HOR) 16-16N-4W EXT 608813/613119 WDFD, HNTN, OTHER POE TO BHL (HNTN) NCT 660' FB POE TO BHL (WDFD) NCT 330' FB (COEXIST WITH SP. 155521 HNTN RECTOR 1, NW4, API 083-21190 & STATE 1-16, NE4, API 083-21285)

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