

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

API NUMBER: 045 23521

Approval Date: 09/23/2014

Expiration Date: 03/23/2015

Horizontal Hole

Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 19 Twp: 21N Rge: 23W

County: ELLIS

SPOT LOCATION:

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 240 2455

Lease Name: PEER 19-21-23

Well No: 1H

Well will be 240 feet from nearest unit or lease boundary.

Operator Name: APACHE CORPORATION

Telephone: 9184914900; 9184914

OTC/OCC Number: 6778 0

APACHE CORPORATION
6120 S YALE AVE STE 1500
TULSA, OK 74136-4224

PHILLIS ANN PEER
RT 1, BOX 25
GAGE OK 73843

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

Name	Depth	Name	Depth
1 COTTAGE GROVE	7356	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 630193

Location Exception Orders: 630807

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 12500

Ground Elevation: 2235

Surface Casing: 500

Depth to base of Treatable Water-Bearing FM: 450

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: 8000 Average: 5000

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: 1B

Liner required for Category: 1B

Pit Location is AP/TE DEPOSIT

Pit Location Formation: TERRACE

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

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

PERMIT NO: 14-27952

H. CONCRETE LINED PIT PER OPERATOR REQUEST

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 19 Twp 21N Rge 23W County ELLIS

Spot Location of End Point: SE NE NE NW

Feet From: NORTH 1/4 Section Line: 335

Feet From: WEST 1/4 Section Line: 2600

Depth of Deviation: 6856

Radius of Turn: 520

Direction: 2

Total Length: 4827

Measured Total Depth: 12500

True Vertical Depth: 7376

End Point Location from Lease,

Unit, or Property Line: 335

Notes:

Category

Description

LOCATION EXCEPTION - 630807

9/23/2014 - G91 - (I.O.) 19-21N-23W
X 630193 CGGV
SHL NCT 240 FSL, NCT 2455 FWL
1ST PERF NCT 330 FSL, NCT 600 FWL / NCT 1980 FEL
LAST PERF NCT 330 FNL, NCT 600 FWL/ NCT 1980 FEL
APACHE CORPORATION
9-18-2014

SPACING - 630193

9/23/2014 - G91 - (640)(HOR) 19-21N-23W
EST CGGV
POE TO BHL NCT 660' FB
(COEXIST SP. ORDER # 125908/129181 CGGV)

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045 23521 PEER 19-21-23 1H