API NUMBER: 045 23418

Oil & Gas

Horizontal Hole

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

Approval Date: 12/17/2013
Expiration Date: 06/17/2014

PERMIT TO DRILL

 WELL LOCATION:
 Sec:
 16
 Twp:
 16N
 Rge:
 23W
 County:
 ELLIS

 SPOT LOCATION:
 NE
 NW
 NW
 NE
 FEET FROM QUARTER:
 FROM

SPOT LOCATION: NE NW NW NE FEET FROM QUARTER: FROM NORTH FROM EAST SECTION LINES: 200 2100

Lease Name: DIAMONDBACK Well No: 1-16H Well will be 200 feet from nearest unit or lease boundary.

 Operator Name:
 APACHE CORPORATION
 Telephone:
 9184914900
 OTC/OCC Number:
 6778
 0

APACHE CORPORATION 6120 S YALE AVE STE 1500

TULSA, OK 74136-4224

OKLAHOMA DEPARTMENT OF WILDLIFE CONSERVATION

P.O. BOX 53465

OKLAHOMA CITY OK 73105

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

Name Depth Name Depth TONKAWA 8332 1 6 2 7 3 8 4 9 10 577438 Spacing Orders: Location Exception Orders: 614289 Increased Density Orders: 614290

Pending CD Numbers: Special Orders:

Total Depth: 13200 Ground Elevation: 2204 Surface Casing: 650 Depth to base of Treatable Water-Bearing FM: 440

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 BED AQUIFER
Pit Location Formation: OGALLALA

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

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

H. SEE MEMO

PERMIT NO: 13-25037

PIT 2 INFORMATION

Type of Pit System: ON SITE

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: 3

Liner required for Category: 3
Pit Location is BED AQUIFER
Pit Location Formation: OGALLALA

HORIZONTAL HOLE 1

Sec 16 Twp 16N Rge 23W County **ELLIS** SE Spot Location of End Point: S2 S2 SW Feet From: SOUTH 1/4 Section Line: 200 Feet From: EAST 1/4 Section Line: 1980

Depth of Deviation: 7875 Radius of Turn: 573 Direction: 178

Total Length: 4878

Measured Total Depth: 13200

True Vertical Depth: 8485

End Point Location from Lease,
Unit, or Property Line: 200

Notes:

Category Description

INCREASED DENSITY - 614290 12/17/2013 - G30 - 16-16N-23W

X577438 TNKW

1 WELL

APACHE CORPORATION

7/29/13

LOCATION EXCEPTION - 614289 12/17/2013 - G30 - (I.O.) 16-16N-23W

X577438 TNKW

SHL NCT 200 FSL, NCT 1320 FEL**
1ST PERF NCT 300 FSL, NCT 1320 FEL
LAST PERF NCT 300 FNL, NCT 1320 FEL

APACHE CORPORATION

7/29/13

**SHL TO BE CORRECTED AT HEARING FOR FINAL ORDER LOCATION EXCEPTION PER

OPERATOR

MEMO 12/17/2013 - G71 - PITS 1 & 2 - CONCRETE LINED PIT PER OPERATOR REQUEST, PIT 2 - OBM

RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

SPACING - 577438 12/17/2013 - G30 - (640) 16-16N-23W

VAC 164006 TNKW EXT 573851TNKW