API NUMBER: 045 23454

APACHE CORPORATION

6120 S YALE AVE STE 1500

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: 03/27/2014
Expiration Date: 09/27/2014

250 feet from nearest unit or lease boundary.

6778 0

PERMIT TO DRILL

			I ERWIT TO DIVILE
WELL LOCATION:	Sec: 08 Twp: 16N Rge: 22	W County: ELL	IS
SPOT LOCATION:	SE SW SW SW	FEET FROM QUARTER: FROM	SOUTH FROM WEST
		SECTION LINES:	250 600
Lease Name: BERRYMAN TRUST		Well No:	1-17H
Operator Name:	APACHE CORPORATION		Telephone: 9184914900; 9184914

BERRYMAN SHREWDER TRUST C/O FARMERS NAT'L

OTC/OCC Number:

CO.

P.O. BOX 542016

OMAHA NE 68154

Well will be

TULSA, OK 74136-4224

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

Name Depth Name Depth TONKAWA 8218 1 6 2 7 3 8 4 9 10 577943 Spacing Orders: Location Exception Orders: 611584 Increased Density Orders: 610865

Pending CD Numbers: Special Orders:

Total Depth: 13500 Ground Elevation: 1948 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 Approved Method for disposal of Drilling Fluids:

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: WATER BASED
Chlorides Max: 90000 Average: 5000

Is depth to top of ground water greater than 10ft below base of pit? $\quad \mbox{Y}$

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

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 14-26645

H. SEE MEMO

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 17 Twp 16N Rge 22W County ROGER MILLS

Spot Location of End Point: SE SW SW SW Feet From: SOUTH 1/4 Section Line: 299
Feet From: WEST 1/4 Section Line: 601

Depth of Deviation: 7694 Radius of Turn: 573 Direction: 179

Total Length: 4906

Measured Total Depth: 13500

True Vertical Depth: 8288

End Point Location from Lease,
Unit, or Property Line: 299

Notes:

Category Description

INCREASED DENSITY - 610865 3/27/2014 - G75 - 17-16N-22W

X577943 TNKW 1 WELL APACHE CORP. 4-26-2013

LOCATION EXCEPTION - 611584

3/27/2014 - G75 - (I.O.) 17-16N-22W

X577943 TNKW

SHL NCT 396 FSL, NCT 200 FWL **
FIRST PERF NCT 300 FSL, NCT 500 FWL ++
LAST PERF NCT 300 FNL, NCT 500 FWL ++

APACHE CORP. 5-14-2013

** ITD HAS SHL 250 FSL, 600 FWL 8-16N-22W; TO BE CORRECTED AT HEARING FOR FINAL

ORDER LOCATION EXCEPTION PER OPERATOR

++ ITD HAS WELL BEING DRILLED IN OPPOSITE DIRECTION; TO BE CORRECTED AT HEARING

FOR FINAL ORDER LOCATION EXCEPTION PER OPERATOR

MEMO 3/27/2014 - G75 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS (REQUIRED - CANADIAN RIVER);

PIT 2 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT

SPACING - 577943 3/27/2014 - G75 - (640)(HOR) 17-16N-22W

EST TNKW

POE TO BHL NLT 660' FB

(SUPERSEDE NON-DEVELOPED NON-HORIZONTAL SPACING UNITS; COEXIST WITH

PRODUCING NON-HORIZONTAL SPACING UNITS)