

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

API NUMBER: 045 23423

Approval Date: 01/07/2014

Expiration Date: 07/07/2014

Horizontal Hole

Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 08 Twp: 18N Rge: 26W

County: ELLIS

SPOT LOCATION:

FEET FROM QUARTER: FROM NORTH FROM EAST

SECTION LINES: 2310 1200

Lease Name: STUCKER UNIT

Well No: 1-5H

Well will be 1200 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

NELL BETH STEELE  
9822 WINDLEDDGE  
DALLAS TX 75238

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

	Name	Depth	Name	Depth
1	TONKAWA	7655	6	
2			7	
3			8	
4			9	
5			10	

Spacing Orders: 51093

Location Exception Orders: 615506

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 14728

Ground Elevation: 2425

**Surface Casing: 600**

Depth to base of Treatable Water-Bearing FM: 490

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.

H. SEE MEMO

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.

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 05 Twp 18N Rge 26W County ELLIS

Spot Location of End Point: W2 NE NE NE

Feet From: NORTH 1/4 Section Line: 330

Feet From: EAST 1/4 Section Line: 600

Depth of Deviation: 7105

Radius of Turn: 573

Direction: 6

Total Length: 7261

Measured Total Depth: 14728

True Vertical Depth: 7655

End Point Location from Lease,  
Unit, or Property Line: 330

Notes:

Category

Description

LOCATION EXCEPTION - 615506

1/7/2014 - G30 - (I.O.) E2 5 & E2 N2 8-18N-26W  
X51093 TNKW  
SHL NCT 2500 FNL, NCT 560 FEL 8-18N-26W  
1ST PERF NCT 2200 FNL, NCT 560 FEL 8-18N-26W  
LAST PERF NCT 330 FNL, NCT 560 FEL 5-18N-26W  
APACHE CORPORATION  
9/5/13

MEMO

1/7/2014 - G71 - PITS 1 & 2 - CONCRETE LINED PIT PER OPERATOR REQUEST, PIT 2 - OBM  
RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

SPACING - 51093

1/7/2014 - G30 - (640) FRAC 5 & N2 8-18N-26W  
EST TNKW

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045 23423 STUCKER UNIT 1-5H