

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

API NUMBER: 129 23940

Approval Date: 04/16/2014
Expiration Date: 10/16/2014

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 27 Twp: 17N Rge: 25W County: ROGER MILLS
SPOT LOCATION: NE NW NE NE FEET FROM QUARTER: FROM NORTH FROM EAST
SECTION LINES: 100 800

Lease Name: GANTZ RANCH 27-17-25 Well No: 1H Well will be 100 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

CALVIN E. & JULIA A. BACHMAN
ROUTE 1, BOX 74
DURHAM OK 73642

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

Name	Depth	Name	Depth
1 MARMATON	8171	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 622928

Location Exception Orders: 623749

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 15000

Ground Elevation: 2271

Surface Casing: 500

Depth to base of Treatable Water-Bearing FM: 360

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: 90000 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)

PERMIT NO: 14-26945

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 27 Twp 17N Rge 25W County ROGER MILLS
Spot Location of End Point: W2 SE SE SE
Feet From: SOUTH 1/4 Section Line: 330
Feet From: EAST 1/4 Section Line: 600
Depth of Deviation: 9327
Radius of Turn: 573
Direction: 184
Total Length: 4867
Measured Total Depth: 15000
True Vertical Depth: 9866
End Point Location from Lease,
Unit, or Property Line: 330

Additional Surface Owner Address City, State, Zip
E. FRANKLIN EUGENE CALVERT 17650 E. 740 ROAD CRAWFORD, OK 73638

Notes:

Category Description
LOCATION EXCEPTION - 623749 4/16/2014 - G30 - (I.O.) 27-17N-25W
X622928 MRMN
XOTHER
SHL NCT 100 FNL, NCT 100 FEL
1ST PERF NCT 330 FNL, NCT 500 FEL
LAST PERF NCT 330 FSL, NCT 500 FEL
APACHE CORPORATION
4/9/14
MEMO 4/16/2014 - G71 - PITS 1 & 2 - CONCRETE LINED PIT PER OPERATOR REQUEST, PIT 2 - OBM
RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
SPACING - 622928 4/16/2014 - G30 - (640 HOR) 27-17N-25W
EST MRMN
POE TO BHL NLT 660' FB
(SUPERSEDE SP. 134743 OSWG)