

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

API NUMBER: 009 21916

Approval Date: 01/27/2014

Expiration Date: 07/27/2014

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 20 Twp: 12N Rge: 22W

County: BECKHAM

SPOT LOCATION: ☐ SW ☐ SE ☐ SW ☐ SW

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 240 930

Lease Name: THOMAS 20-12-22

Well No: 1H

Well will be 240 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

THOMAS, MARY HOCKER REV. TRUST & JACKIE TERESA
GARCIA, TRUSTEE
11221 GREENBRIAR CHASE ST.
OKLAHOMA CITY OK 73170

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

	Name	Depth	Name	Depth
1	COTTAGE GROVE	10165	6	
2			7	
3			8	
4			9	
5			10	

Spacing Orders: 142366
500449

Location Exception Orders: 619537

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 15200

Ground Elevation: 1957

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 350

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: 25000 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: CLOUD CHIEF

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

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

PERMIT NO: 13-25048

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: CLOUD CHIEF

HORIZONTAL HOLE 1

Sec 20 Twp 12N Rge 22W County BECKHAM

Spot Location of End Point: N2 N2 N2 NW

Feet From: NORTH 1/4 Section Line: 200

Feet From: WEST 1/4 Section Line: 1320

Depth of Deviation: 9647

Radius of Turn: 573

Direction: 6

Total Length: 4748

Measured Total Depth: 15200

True Vertical Depth: 10165

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

Notes:

Category

Description

DEEP SURFACE CASING

12/20/2013 - G71 - APPROVED CONTINGENT ON NOTIFYING OCC FIELD STAFF IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING

LOCATION EXCEPTION - 619537

12/31/2013 - G30 - (E.O.) 20-12N-22W
X142366 CGGV**
SHL NCT 10 FSL, NCT 10 FWL
1ST PERF NCT 300 FSL, NCT 500 FWL
LAST PERF NCT 300 FNL, NCT 500 FWL
APACHE CORPORATION
12/20/13

**S/B 142366/500449 HXBR; TO BE CORRECTED AT HEARING FOR FINAL ORDER LOCATION EXCEPTION PER ATTORNEY FOR OPERATOR

MEMO

12/20/2013 - G71 - PITS 1 & 2 - CONCRETE LINED PIT PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

SPACING - 142366

12/31/2013 - G30 - (640) 20-12N-22W
EXT 139647 HXBR, OTHERS

SPACING - 500449

12/31/2013 - G30 - (640) 20-12N-22W
MODIFY/CLARIFY 122217/142366 HXBR, OTHER

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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.

009 21916 THOMAS 20-12-22 1H