

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

API NUMBER: 009 21896

Approval Date: 07/10/2013

Expiration Date: 01/10/2014

Horizontal Hole

Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 19 Twp: 12N Rge: 22W

County: BECKHAM

SPOT LOCATION:

FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 300 660

Lease Name: THOMAS

Well No: 1-19H

Well will be 300 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

ARNOLD GENE THOMAS
11221 GREENBRIAR CHASE ST.
OKLAHOMA CITY OK 73170

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

	Name	Depth	Name	Depth
1	COTTAGE GROVE	10210	6	
2			7	
3			8	
4			9	
5			10	

Spacing Orders: 122217

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201304316

Special Orders:

Total Depth: 15200

Ground Elevation: 1935

Surface Casing: 380

Depth to base of Treatable Water-Bearing FM: 330

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: 12-23541

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 19 Twp 12N Rge 22W County BECKHAM

Spot Location of End Point: N2 N2 NE NE

Feet From: NORTH 1/4 Section Line: 200

Feet From: EAST 1/4 Section Line: 660

Depth of Deviation: 9732

Radius of Turn: 573

Direction: 1

Total Length: 4802

Measured Total Depth: 15200

True Vertical Depth: 10230

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

Notes:

Category

Description

MEMO

7/9/2013 - G71 - PITS 1 & 2 - CONCRETE LINED PIT PER OPERATOR REQUEST, PIT 2 - OBM
RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201304316

7/10/2013 - G30 - 19-12N-22W
X122217 CCGV
SHL NCT 50 FSL, NCT 50 FEL
1ST PERF NCT 300 FSL, NCT 500 FEL
LAST PERF NCT 300 FNL, NCT 500 FEL
NO OP. NAMED
REC 7/9/13 (JOHNSON)

SPACING - 122217

7/10/2013 - G30 - (640) 19-12N-22W
EST CCGV, OTHERS

WATERSHED STRUCTURE

7/9/2013 - G71 - WELL WITHIN 1/2 MILE OF AN OKLAHOMA CONSERVATION COMMISSION
WATERSHED STRUCTURE. CONTACT THE LOCAL CONSERVATION DISTRICT OFFICE AT (580)
928-9950 PRIOR TO DRILLING

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009 21896 THOMAS 1-19H

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