

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

API NUMBER: 129 23960

Approval Date: 06/06/2014

Expiration Date: 12/06/2014

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 28 Twp: 14N Rge: 24W

County: ROGER MILLS

SPOT LOCATION:

FEET FROM QUARTER: FROM NORTH FROM EAST

SECTION LINES: 250 635

Lease Name: DARLA 28-14-24

Well No: 1H

Well will be 250 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

RUSSELL D. & DARLA S. CALVERT
18528 EAST 970 ROAD
CHEYENNE OK 73628

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

Name	Depth	Name	Depth
1 MARMATON	10631	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 128051

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201403476

Special Orders:

Total Depth: 16000

Ground Elevation: 2100

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 520

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: 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: 14-27231

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 28 Twp 14N Rge 24W County ROGER MILLS

Spot Location of End Point: SW SE SE SE

Feet From: SOUTH 1/4 Section Line: 250

Feet From: EAST 1/4 Section Line: 600

Depth of Deviation: 10750

Radius of Turn: 573

Direction: 182

Total Length: 4755

Measured Total Depth: 16000

True Vertical Depth: 11365

End Point Location from Lease,
Unit, or Property Line: 250

Notes:

Category

Description

DEEP SURFACE CASING

6/4/2014 - 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

MEMO

6/4/2014 - G71 - PITS 1 & 2 - CONCRETE LINED PIT PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201403476

6/5/2014 - G72 - 28-14N-24W (E.O.)
X 128051 MRMN;
SHL NCT 250 FNL NCT 635 FEL;
COMP INT. NCT 300 FNL NCT 300 FSL NCT 500 FEL;
APACHE CORPORATION;
REC 5/20/2014 (MCKEOWN)

SPACING -128051

6/5/2014 - G72 - (640) 28-14N-24W
VAC OTHERS;
EXT 125353 MRMN, OTHERS;

WATERSHED STRUCTURE

6/4/2014 - G71 - WELL WITHIN 1/2 MILE OF AN OKLAHOMA CONSERVATION COMMISSION WATERSHED STRUCTURE. CONTACT THE LOCAL CONSERVATION DISTRICT OFFICE AT (580) 497-3413 PRIOR TO DRILLING

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129 23960 DARLA 28-14-24 1H