

API NUMBER: 037 28935 B

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

Approval Date: 05/08/2012

Expiration Date: 11/08/2012

Straight Hole Oil & Gas

Amend reason: CHANGE WELL LOCATION

AMEND PERMIT TO DRILL

WELL LOCATION: Section: 21 Township: 17N Range: 9E County: CREEK

SPOT LOCATION: C S2 NE NE FEET FROM QUARTER: FROM SOUTH FROM WEST
SECTION LINES: 1650 1980

Lease Name: HEYBURN UNIT Well No: 2 Well will be 660 feet from nearest unit or lease boundary.

Operator Name: CARTLEDGE & CARTLEDGE OIL COMPANY Telephone: 9186715053; 9183213034 OTC/OCC Number: 11750 0

CARTLEDGE & CARTLEDGE OIL COMPANY INC
PO BOX 40
KIEFER, OK 74041-0040

CARTLEDGE & CARTLEDGE OIL CO
435 N MAIN
PO BOX 40
KIEFER OK 74041

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

	Name	Code	Depth
1	BARTLESVILLE	404BRVL	2450
2	DUTCHER	403DTCR	3000
3	WILCOX	202WLCX	3250
4	ARBUCKLE	169ABCK	3700

Spacing Orders: 570248

Location Exception Orders: No Exceptions

Increased Density Orders: No Density Orders

Pending CD Numbers: No Pending

Special Orders: No Special Orders

Total Depth: 3750

Ground Elevation: 725

Surface Casing: 500

Depth to base of Treatable Water-Bearing FM: 340

Under Federal Jurisdiction: No
Fresh Water Supply Well Drilled: No
Surface Water used to Drill: Yes

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

PIT 1 INFORMATION

Type of Pit System: ON SITE

Type of Mud System: WATER BASED

Chlorides Max: 5000 Average: 3000

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: 2

Liner not required for Category: 2

Pit Location is: BED AQUIFER

Pit Location Formation: BARNSDALL

NOTES:

Category	Description
SPACING	7/14/2020 - G56 - DTCR, WLCX, ABCK UNSPACED, 160-ACRE LEASE (N2 NE4, SE4 NE4, NE4 SE4)
SPACING - 570248	7/14/2020 - G56 - (UNIT) S2 NE4, N2 SE4, S2 SE4, SE4 SE4 SW4 21-17N-9E EST HEYBURN BARTLESVILLE UNIT FOR BRVL

This permit does not address the right of entry or settlement of surface damages.

The duration of this permit is 18 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.

037 28935 HEYBURN UNIT 2