

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

API NUMBER: 037 29381

Approval Date: 08/23/2017
Expiration Date: 02/23/2018

Straight Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 21 Twp: 17N Rge: 9E County: CREEK
SPOT LOCATION: C S2 SE NE FEET FROM QUARTER: FROM SOUTH FROM WEST
SECTION LINES: 330 1980

Lease Name: HEYBURN BARTLESVILLE UNIT Well No: 10 Well will be 660 feet from nearest unit or lease boundary.
Operator Name: CARTLEDGE & CARTLEDGE OIL COMPANY INC Telephone: 9183213034; 9183213 OTC/OCC Number: 11750 0

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

CARTLEDGE AND CARTLEDGE OIL CO
PO BOX 40
KIEFER OK 74041

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

	Name	Depth	Name	Depth
1	BARTLESVILLE	2400	6	
2	DUTCHER	2900	7	
3			8	
4			9	
5			10	

Spacing Orders: 570248

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 2950

Ground Elevation: 791

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

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

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

Notes:

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.

037 29381 HEYBURN BARTLESVILLE UNIT

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Category	Description
HYDRAULIC FRACTURING	<p>8/16/2017 - G58 - OCC 165:10-3-10 REQUIRES:</p> <p>1) PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE;</p> <p>2) WITH NOTICE ALSO GIVEN 48 HOURS IN ADVANCE OF HYDRAULIC FRACTURING ALL WELLS TO BOTH THE OCC CENTRAL OFFICE AND LOCAL DISTRICT OFFICES, USING THE "FRAC NOTICE FORM" FOUND AT THE FOLLOWING LINK: OCCEWEB.COM/OG/OGFORMS.HTML; AND,</p> <p>3) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS TO BE REPORTED TO FRACFOCUS WITHIN 60 DAYS AFTER THE CONCLUSION THE HYDRAULIC FRACTURING OPERATIONS, USING THE FOLLOWING LINK: FRACFOCUS.ORG</p>
SPACING	8/23/2017 - G64 - DUTCHER UNSPACED; 160-ACRE LEASE (INCLUDES SE4 NE4)
SPACING - 570248	8/23/2017 - G64 - (UNIT) S2 NE4 & N2 SE4 21-17N-9E EST HEYBURN BARTLESVILLE UNIT FOR BRVL

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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.