

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

API NUMBER: 037 29443

Approval Date: 11/07/2019

Expiration Date: 05/07/2021

Straight Hole

Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 05 Twp: 16N Rge: 10E

County: CREEK

SPOT LOCATION: ☐ NW ☐ SE ☐ SE ☐ NE

FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 555 615

Lease Name: CARTLEDGE SHELTON

Well No: 1

Well will be 555 feet from nearest unit or lease boundary.

Operator
Name: CARTLEDGE ENERGY LLC

Telephone: 9186713238

OTC/OCC Number: 24087 0

CARTLEDGE ENERGY LLC
13400 S GARRETT ST
SAPULPA, OK 74066-6623

JOHN W WILLIAMS
23389 W 191ST STREET
KELLYVILLE OK 74039

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

	Name	Depth		Name	Depth
1	LAYTON	1150	6	DUTCHER	2750
2	OSWEGO	1720	7	BURGESS	2800
3	SKINNER	1880	8	MISSISSIPPI	2820
4	RED FORK	2150	9	WILCOX	3180
5	BARTLESVILLE	2310	10	ARBUCKLE	3500

Spacing Orders: 697480

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 3700

Ground Elevation: 0

Surface Casing: 550

Depth to base of Treatable Water-Bearing FM: 460

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: No

PIT 1 INFORMATION

Approved Method for disposal of Drilling Fluids:

Type of Pit System: ON SITE

A. Evaporation/dewater and backfilling of reserve pit.

Type of Mud System: WATER BASED

Chlorides Max: 1500 Average: 750

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 **not** located in a Hydrologically Sensitive Area.

Category of Pit: 2

Liner not required for Category: 2

Pit Location is NON HSA

Pit Location Formation: DEWEY

Notes:

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.

Category	Description
HYDRAULIC FRACTURING	<p>11/5/2019 - G71 - 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: OCCWEB.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	11/7/2019 - G56 - OSWG UNSPACED; 160-ACRE LEASE (NE4)
SPACING - 697480	<p>11/7/2019 - G56 - (40) NE4 5-16N-10E</p> <p>EST LYTN, SKNR, RDFK, BRVL, DTCR, BRGS, MISS, WLCX, ABCK</p>