

API NUMBER: 025 21086

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

Approval Date: 06/06/2023  
Expiration Date: 12/06/2024

Straight Hole Oil & Gas

**PERMIT TO DRILL**

WELL LOCATION: Section: 07 Township: 5N Range: 8ECM County: CIMARRON

SPOT LOCATION: C N2 SW SW FEET FROM QUARTER: FROM SOUTH FROM WEST  
SECTION LINES: 990 660

Lease Name: BIG IRON Well No: 1 Well will be 335 feet from nearest unit or lease boundary.  
Operator Name: GREENHEAD ENERGY OPERATING LLC Telephone: 9364460550 OTC/OCC Number: 24428 0

GREENHEAD ENERGY OPERATING LLC  
OKLAHOMA CITY, OK 73118-2884

COMMISSIONERS OF THE LAND OFFICE  
PO BOX 248896  
OKLAHOMA CITY OK 73101

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

	Name	Code	Depth
1	KANSAS CITY	405KSSC	3660
2	MORROW (PURDY)	402MWPDY	4600
3	KEYES	402KEYS	4840

Spacing Orders: 721108

Location Exception Orders: No Exceptions

Increased Density Orders: No Density

Pending CD Numbers: No Pending

Working interest owners' notified: DNA

Special Orders: No Special

Total Depth: 5100 Ground Elevation: 3914

Surface Casing: 1600

Depth to base of Treatable Water-Bearing FM: 360

Deep surface casing has been approved

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

**Approved Method for disposal of Drilling Fluids:**

A. Evaporation/dewater and backfilling of reserve pit.

H. (Other)

1B MIN. SOIL COMPACTED PIT, NOTIFY DISTRICT  
PRIOR TO TESTING SOIL PIT LINER

**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: ogallala

**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
DEEP SURFACE CASING	[6/5/2023 - GE7] - APPROVED; (1) NOTIFY OCC FIELD INSPECTOR IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING. (2) SUBSEQUENT WELLS ON SAME PAD WILL NOT BE ALLOWED DEEP SURFACE CASING IN THE EVENT OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING.
HYDRAULIC FRACTURING	<p>[5/31/2023 - GE7] - OCC 165:10-3-10 REQUIRES:</p> <p>1) NOTICE SHALL BE GIVEN AT LEAST 5 BUSINESS DAYS PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS ON A HORIZONTAL WELL TO OPERATORS PRODUCING WELLS WITHIN 1 MILE OF THE COMPLETION INTERVAL OF THE SUBJECT WELL. THE NOTICE TO SUCH OPERATORS SHALL CONTAIN THE INFORMATION IN FORM 6000NOO. IF THE HYDRAULIC FRACTURING OPERATIONS SCHEDULE CHANGES AFTER NOTICE HAS BEEN PROVIDED, RESULTING IN A DELAY OF OPERATIONS OF MORE THAN 5 DAYS FROM THE INITIAL NOTICE, NEW NOTICE IS REQUIRED TO BE GIVEN;</p> <p>2) NOTICE WILL BE GIVEN TO THE OCC CENTRAL OFFICE AND LOCAL DISTRICT OFFICES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF FRACTURING OPERATIONS. FORM 6000NHF SHALL BE FOUND HERE: <a href="https://oklahoma.gov/occ/divisions/oil-gas/ogcd-forms">HTTPS://OKLAHOMA.GOV/OCC/DIVISIONS/OIL-GAS/OGCD-FORMS</a>; AND,</p> <p>3) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS IS TO BE REPORTED TO FRACFOCUS WITHIN 60 DAYS AFTER THE CONCLUSION OF HYDRAULIC FRACTURING OPERATIONS, FOUND AT <a href="https://fracfocus.org">FRACFOCUS.ORG</a></p>
SPACING	[6/6/2023 - GE7] - KSSC, MWPDY UNSPACED, 40-ACRES LEASE SW SW
SPACING - 721108	<p>[6/6/2023 - GE7] - (40) 7-5N-8ECM</p> <p>VAC 27739 KEYS</p> <p>EST KEYS</p>