

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

API NUMBER: 105 41255

Approval Date: 01/28/2019

Expiration Date: 07/28/2020

Straight Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 23 Twp: 28N Rge: 17E County: NOWATA

SPOT LOCATION: FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 165 240

Lease Name: HALL Well No: 44-23 Well will be 165 feet from nearest unit or lease boundary.

Operator Name: NEOK PRODUCTION COMPANY LLC

Telephone: 9182735662

OTC/OCC Number: 21838 0

NEOK PRODUCTION COMPANY LLC
PO BOX 428
NOWATA, OK 74048-0428

DON CROOK
ROUTE 1, BOX 132-28
SOUTH COFFEYVILLE OK 74072

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

	Name	Depth		Name	Depth
1	COAL (PENNSYLVANIAN)	385	6	WOODFORD	1225
2	BARTLESVILLE	715	7	ARBUCKLE	1285
3	ROWE COAL	835	8		
4	RIVERTON COAL	885	9		
5	MISSISSIPPIAN	925	10		

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 1385

Ground Elevation: 937

Surface Casing: 0

Depth to base of Treatable Water-Bearing FM: 110

Cement will be circulated from Total Depth to the Ground Surface on the Production Casing String.

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: AIR

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: 4

Liner not required for Category: 4

Pit Location is NON HSA

Pit Location Formation: OOLAGAH

Mud System Change to Water-Based or Oil-Based Mud Requires an Amended Intent (Form 1000).

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

H. CBL REQUIRED

Notes:

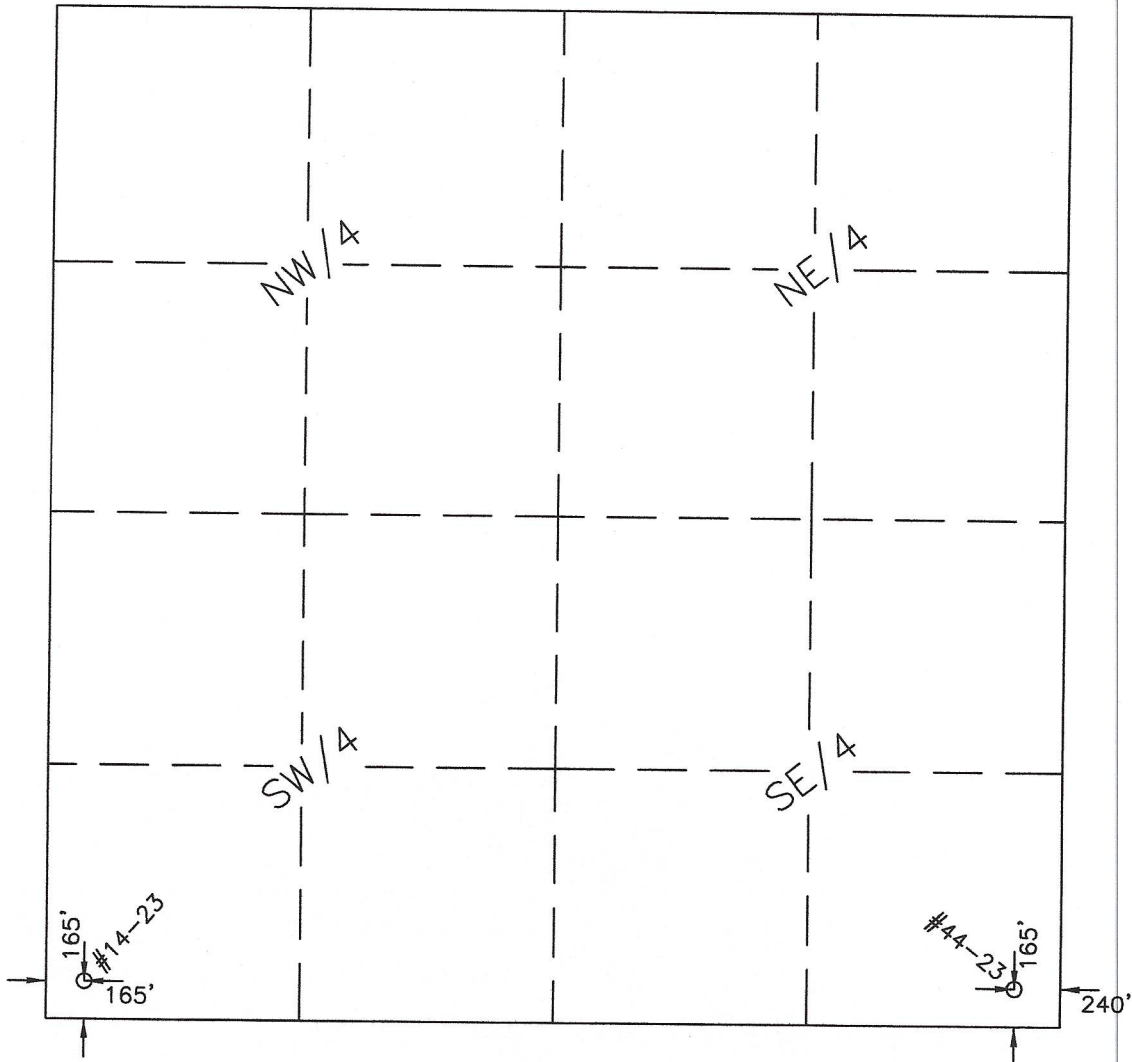
This permit does not address the right of entry or settlement of surface damages.

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.

Category	Description
ALTERNATE CASING	1/24/2019 - G71 - APPROVED WITH THE FOLLOWING CONDITION; COPY OF CBL NEEDS TO BE SUBMITTED TO THE OCC TECHNICAL STAFF IMMEDIATELY. A COMPLETION ATTEMPT, IN CASES WHERE THE PROTECTION OF THE TREATABLE WATER IS QUESTIONABLE, IS STRICTLY PROHIBITED. RULE 165: 10-3-4 (D)(4)(C)
COMMINGLE - 459421	1/28/2019 - G75 - 23-28N-17E DESIGNATES NOWATA COUNTY CBM FIELD FOR MLKY, IRNPT, BVIR, CRBG, WRPG, BJCK, ROWCL, AND RVTCL; ALLOWS COMMINGLE AS AN EXCEPTION TO 165:10-3-39 PROVIDED THERE IS UNIFORM OWNERSHIP
COMMINGLE - 473443	1/28/2019 - G75 - MOD 459421 TO INCLUDE SMMT
COMMINGLE - 500189	1/28/2019 - G75 - MOD 459421 TO INCLUDE TEBO, NTRL
HYDRAULIC FRACTURING	1/16/2019 - G71 - OCC 165:10-3-10 REQUIRES: 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; 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, 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
SPACING	1/28/2019 - G75 - FORMATIONS UNSPACED; 80-ACRE LEASE (S2 SE4)

SECTION 23, TOWNSHIP 28 NORTH, RANGE 17 EAST
NOWATA COUNTY, OKLAHOMA.
(THIS DOES NOT CONSTITUTE A BOUNDARY SURVEY)



DATED: DECEMBER 11, 2018

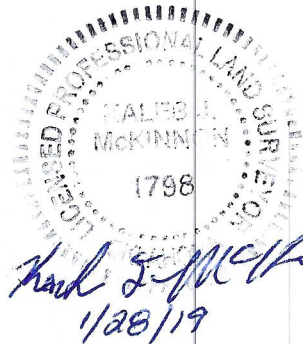
ADCOCK #14-23:
165 FEET FROM THE SOUTH LINE AND 165 FEET FROM THE WEST LINE
OF THE SW/4 OF SECTION 23, T28N, R17E, NOWATA COUNTY, OKLAHOMA.
ELEVATION = 892'

LATITUDE = 36°53'17.2"
LONGITUDE = 95°28'02.4"

HALL #44-23:
165 FEET FROM THE SOUTH LINE AND 240 FEET FROM THE EAST LINE
OF THE SE/4 OF SECTION 23, T28N, R17E, NOWATA COUNTY, OKLAHOMA.
ELEVATION = 937'

LATITUDE = 36°53'17.1"
LONGITUDE = 95°27'02.5"

SCALE: 1" = 1000'



CERTIFICATE OF AUTHORIZATION NO. 2434 EXPIRES 6/30/20

BUCKLAND SURVEYING COMPANY, INC.
LAND SURVEYING SERVICES

1652 S.E. WASHINGTON BLVD. BARTLESVILLE, OKLAHOMA 74006 (918) 335-5071