

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

API NUMBER: 145 23426

Approval Date: 01/08/2020

Expiration Date: 07/08/2021

Straight Hole

Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 15 Twp: 15N Rge: 16E

County: WAGONER

SPOT LOCATION: C

SW

SW

NE

FEET FROM QUARTER: FROM

NORTH

FROM

EAST

SECTION LINES:

2310

2310

Lease Name: COOK

Well No: 1-15V

Well will be 330 feet from nearest unit or lease boundary.

Operator Name: IRON HAWK ENERGY GROUP JV

Telephone: 9186453701

OTC/OCC Number: 23625 0

IRON HAWK ENERGY GROUP JV
321 S BOSTON AVE STE 201
TULSA, OK 74103-3305

ROBERT COOK
12300 SOUTH MINGO ROAD
TULSA OK 74008

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

	Name	Depth	Name	Depth
1	DUTCHER	1300	6	
2			7	
3			8	
4			9	
5			10	

Spacing Orders: 201227

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 202000007

Special Orders:

Total Depth: 1400

Ground Elevation: 541

Surface Casing: 200

Depth to base of Treatable Water-Bearing FM: 130

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

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

B. Solidification of pit contents.

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: 4

Liner not required for Category: 4

Pit Location is ALLUVIAL

Pit Location Formation: ALLUVIUM

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

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>12/20/2019 - 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: 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>
PENDING CD - 202000007	<p>1/8/2020 - G56 - (E.O.) NE4 15-15N-16E X201227 DTCR, OTHERS COMPL INT NCT 330' FSL, NCT 330' FWL IRON HAWK ENERGY GROUP JV REC 1/6/2020 (MOORE)</p>
SPACING - 201227	<p>12/31/2019 - G56 - (160) N2 15-15N-16E EXT 177930 DTCR, OTHERS</p>

13800 Wireless Way, Okla. City, OK. 73134 * LOCAL (405) 843-4847 * OUT OF STATE (800) 654-3219

Certificate of Authorization No. 1293 LS

WAGONER

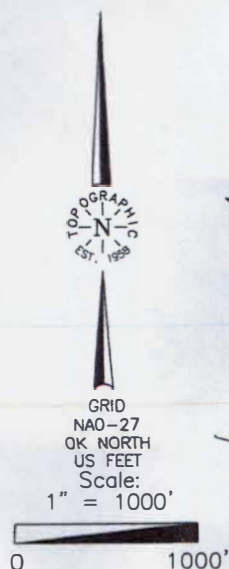
County, Oklahoma

2310'FNL - 2310'FEL Section 15 Township 15N Range 16E I.M.

X	2712559
Y	294146

X	2715200
Y	294216

X	2715267
Y	291575



NOTES:

- THE INFORMATION SHOWN HEREIN IS
FOR CONSTRUCTION PURPOSES ONLY

Distances shown in (parenthesis) are calculated based upon the Quarter Section being 2640 feet, those shown in [brackets] are based on GLO (General Land Office) distances and have NOT been measured on the ground.

Operator: IRON HAWK ENERGY

Lease Name: COOK

Well No.: 1-15V

ELEVATION:

541' Gr. at Stake

Topography & Vegetation Loc. fell in open sod field

Good Drill Site? Yes Reference Stakes or Alternate Location
Stakes Set None

Best Accessibility to Location From East off trail road

Distance & Direction

from Hwy Jct or Town. From Jct. St. Hwy. 51 B and St. Hwy. 104, West of Porter, OK, go ± 2.0 mi. South on St. Hwy. 104, then ± 1.0 mi. West, then ± 1.25 mi. South to county road N4150, then ± 1.8 mi. South on county road N4150, then ± 1.0 mi. East on county road E0840, then ± 1.0 mi. South on county road N4160, then ± 1.0 mi. East on county road E0850 to the NE Cor. of Sec. 15-T15N-R16E

Date of Drawing: Nov. 12, 2019

Project # 131506 Date Staked: Nov. 08, 2019

AC

This information was gathered with a GPS receiver with ± 1 foot Horiz./Vert. accuracy.

DATUM: NAD-27
LAT: 35°46'39.0"N
LONG: 95°35'46.8"W
LAT: 35.777507346° N
LONG: 95.596326648° W
STATE PLANE
COORDINATES: (US Feet)
ZONE: OK NORTH
X: 2712949
Y: 291845

CERTIFICATE:

I, DAN W. ROGERS an Oklahoma Licensed Land Surveyor and an authorized agent of Topographic Land Surveyors of Oklahoma, do hereby certify to the information shown herein

Information shown herein
Dan W. Rogers
 Oklahoma Lic. No. 1200

