

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

API NUMBER: 071 24896

Approval Date: 09/25/2018

Expiration Date: 03/25/2020

Straight Hole

Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 08 Twp: 25N Rge: 2E

County: KAY

SPOT LOCATION: ☐ NW ☐ NE ☐ SE ☐ SE

FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 1228 450

Lease Name: WILKERSON

Well No: 5-8

Well will be 450 feet from nearest unit or lease boundary.

Operator Name: TWISTED OAK OPERATING LLC

Telephone: 4056067481

OTC/OCC Number: 22261 0

TWISTED OAK OPERATING LLC
211 N ROBINSON AVE STE 200
OKLAHOMA CITY, OK 73102-7109

CLARA D. WILKERSON LIVING TRUST
4300 S. WEST STREET
PONCA CITY OK 74601

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

	Name	Depth	Name	Depth
1	HOOVER	1541	6	
2	TONKAWA	2185	7	
3	OSAGE LAYTON /MISSOURIAN/	2703	8	
4	CHECKERBOARD	3046	9	
5	SKINNER	3481	10	

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 4150

Ground Elevation: 983

Surface Casing: 280

Depth to base of Treatable Water-Bearing FM: 230

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: Yes

PIT 1 INFORMATION

Approved Method for disposal of Drilling Fluids:

Type of Pit System: CLOSED Closed System Means Steel Pits

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: C

Liner not required for Category: C

Pit Location is AP/TE DEPOSIT

Pit Location Formation: TERRACE

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 18-35026
H. CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST

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
HYDRAULIC FRACTURING	<p>8/28/2018 - 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	9/24/2018 - G75 - FORMATIONS UNSPACED; 80-ACRE LEASE (E2 SE4)

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

13800 WIRELESS WAY, OKLA. CITY, OKLA. 73134 * LOCAL (405) 843-4847 * OUT OF STATE (800) 654-3219

Certificate of Authorization No. 1293 LS

KAY

County, Oklahoma

API 071-24896

1228' FSL-450' FEL Section 8 Township 25N Range 2E I.M.

W. OAKLAND RD.

X= 2257901
Y= 607765

X= 2260530
Y= 607784

X= 2263183
Y= 607792

X= 2257924
Y= 605135

X= 2263193
Y= 605158

X= 2257947
Y= 602509

X= 2260585
Y= 602514

X= 2263223
Y= 602519

8

1410'

2187'

1228'

450'

NOTE:
The information shown herein is for
construction purposes ONLY.



GRID
NAD-27
OK NORTH
US Feet

0' 500' 1000'

Operator: CARDINAL RIVER GAS COMPANY

Lease Name: WILKERSON

Well No.: 5-8

ELEVATION:

983' Gr. at Stake

Topography & Vegetation Loc. fell in terraced plowed field.

Good Drill Site? Yes

Reference Stakes or Alternate Location

Stakes Set None

Best Accessibility to Location From East off county road.

Distance & Direction

from Hwy Jct or Town From the junction of US Hwy. 177 & US Hwy. 60, go ±2 miles

South on US Hwy. 177, then go ±1.5 miles West to the SE Cor. of Sec. 8-T25N-R2E.

DATUM: NAD-27
LAT: 36°39'18.8"N
LONG: 97°06'15.3"W
LAT: 36.655232530°N
LONG: 97.104262247°W
STATE PLANE
COORDINATES: (US Feet)
ZONE: OK NORTH
X: 2262759
Y: 603746

Date of Drawing: July 27, 2018

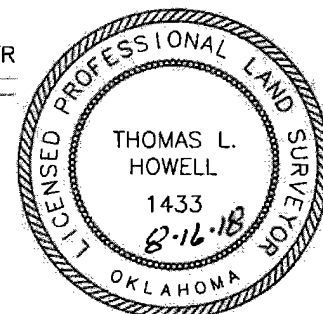
Invoice # 299284 Date Staked: July 26, 2018

TR

CERTIFICATE:

I, Thomas L. Howell an Oklahoma Licensed Land Surveyor and an authorized agent of Topographic Land Surveyors of Oklahoma, do hereby certify to the information shown herein

Thomas L. Howell
Oklahoma Lic. No. 1433



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