

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

API NUMBER: 071 24882

Approval Date: 01/05/2018

Expiration Date: 07/05/2018

Straight Hole

Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 23 Twp: 25N Rge: 2E

County: KAY

SPOT LOCATION:

E2

NW

NE

NW

FEET FROM QUARTER: FROM

NORTH

FROM

WEST

SECTION LINES:

330

1924

Lease Name: GILLHAM

Well No: 4-23

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

Operator Name: TWISTED OAK OPERATING LLC

Telephone: 4053060171

OTC/OCC Number: 22261 0

TWISTED OAK OPERATING LLC
11218 TWISTED OAK RD
OKLAHOMA CITY, OK 73120-5330

DEAN LARAY GILLHAM, LIFE ESTATE
141 SPUNKY CREEK DRIVE
CATOOSA OK 74105

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

	Name	Depth		Name	Depth
1	NEWKIRK	1362	6	AVANT	2500
2	PAWHUSKA	1500	7	PERRY	2728
3	OREAD	1837	8	LAYTON	2814
4	LOVELL	1888	9		
5	TONKAWA	2184	10		

Spacing Orders: 349069
363066

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 3000

Ground Elevation: 940

Surface Casing: 350

Depth to base of Treatable Water-Bearing FM: 270

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 located in a Hydrologically Sensitive Area.

Category of Pit: 4

Liner not required for Category: 4

Pit Location is BED AQUIFER

Pit Location Formation: OSCAR

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.

D. One time land application -- (REQUIRES PERMIT)

PERMIT NO: 17-33650

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.

PIT 2 INFORMATION

Type of Pit System: ON SITE

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: 2

Liner not required for Category: 2

Pit Location is BED AQUIFER

Pit Location Formation: OSCAR

Notes:

Category

Description

HYDRAULIC FRACTURING

12/20/2017 - 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

1/4/2018 - G57 - FORMATIONS UNSPACED; LEASE OUTLINE 170-ACRES SW4, W2 NE4, S2 & NE4 NW4 (NWRK, PHSK, ORED, LVLL, TNKW, AVNT, PRRY) & W2 NE4, S2 & NE4 NW4 (LYTN) 23 -25N-2E

SPACING - 349069

1/5/2018 - G57 - (40) SW4 23-25N-2E NCT 330' FB NW4 SW4, SE4 SW4 EXT 327130 LYTN, OTHERS