

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

API NUMBER: 019 26404

Approval Date: 08/31/2020

Expiration Date: 02/28/2022

Directional Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Section: 07 Township: 2S Range: 2W County: CARTER

SPOT LOCATION: ☐ SE ☐ NW ☐ SE ☐ SW FEET FROM QUARTER: FROM SOUTH FROM WEST
SECTION LINES: 789 1684

Lease Name: SW WILDCAT JIM DEESE UNIT Well No: 23-1 Well will be 789 feet from nearest unit or lease boundary.

Operator Name: MACK ENERGY CO Telephone: 5802525580; 5802525580 OTC/OCC Number: 11739 0

MACK ENERGY CO
PO BOX 400
DUNCAN, OK 73534-0400

BRADY/DRIVER TC CRAIGHEAD
PO BOX 576
ARDMORE OK 73402

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

Name	Code	Depth
1 DEESE	404DEESS	2900

Spacing Orders: 701901

Location Exception Orders: No Exceptions

Increased Density Orders: No Density Orders

Pending CD Numbers: No Pending

Special Orders: No Special Orders

Total Depth: 4800

Ground Elevation: 1031

Surface Casing: 1280

Depth to base of Treatable Water-Bearing FM: 1220

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

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.
D. One time land application -- (REQUIRES PERMIT)

PERMIT NO: 20-37387

PIT 1 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: GARBER

DIRECTIONAL HOLE 1

Section: 7 Township: 2S Range: 2W

County: CARTER

Measured Total Depth: 4804

Spot Location of End Point: SE NW SE SW

True Vertical Depth: 4800

Feet From: SOUTH 1/4 Section Line: 931

End Point Location from

Feet From: WEST 1/4 Section Line: 1770

Lease, Unit, or Property Line: 931

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>8/24/2020 - GC2 - 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>
SPACING - 701901	8/24/2020 - GC2 - (UNIT) SE4 SW4 7-2S-2W EST SW WILDCAT JIM DEESE OPERATING UNIT FOR THE DEESS

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019 26404 SW WILDCAT JIM DEESE UNIT 23-1