API NUMBER: 019 26416

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

Approval Date: 10/26/2020
Expiration Date: 04/26/2022

Directional Hole Oil & Gas

PERMIT TO DRILL

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

SPOT LOCATION: NW SW NW NW FEET FROM QUARTER: FROM **NORTH** FROM **WEST**

SECTION LINES: **860** **131**

Lease Name: **SW WILDCAT JIM DEESE UNIT** **Well No:** **9-3** **Well will be** **131** **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

MACK ENERGY CO
1202 N 10TH ST
DUNCAN OK 73534-0400

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

	Name	Code	Depth
1	DEESE	404DEESS	2928

Spacing Orders: 701901 Location Exception Orders: No Exceptions Increased Density Orders: No Density Orders

Pending CD Numbers: No Pending Working interest owners' notified: *** Special Orders: No Special Orders

Total Depth: 4900 Ground Elevation: 1033 **Surface Casing: 1280** Depth to base of Treatable Water-Bearing FM: 1230

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: 20-37317

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: WELLINGTON

DIRECTIONAL HOLE 1

Section: 12 Township: 2S Range: 3W Meridian: IM
County: CARTER
Spot Location of End Point: SE SE NE NE
Feet From: **NORTH** 1/4 Section Line: 1094
Feet From: **EAST** 1/4 Section Line: 230

Measured Total Depth: 4929
True Vertical Depth: 4900
End Point Location from Lease, Unit, or Property Line: 765

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	[10/22/2020 - GC2] - OCC 165:10-3-10 REQUIRES: 1) NOTICE SHALL BE GIVEN AT LEAST 5 BUSINESS DAYS PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS ON A HORIZONTAL WELL TO OPERATORS PRODUCING WELLS WITHIN 1 MILE OF THE COMPLETION INTERVAL OF THE SUBJECT WELL. THE NOTICE TO SUCH OPERATORS SHALL CONTAIN THE INFORMATION IN FORM 6000NOO. IF THE HYDRAULIC FRACTURING OPERATIONS SCHEDULE CHANGES AFTER NOTICE HAS BEEN PROVIDED, RESULTING IN A DELAY OF OPERATIONS OF MORE THAN 5 DAYS FROM THE INITIAL NOTICE, NEW NOTICE IS REQUIRED TO BE GIVEN; 2) NOTICE WILL BE GIVEN TO THE OCC CENTRAL OFFICE AND LOCAL DISTRICT OFFICES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS. FORM 6000NHF SHALL BE USED AND IS FOUND AT THIS LINK: OCCEWEB.COM/OG/OGFORMS.HTML; AND, 3) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS IS TO BE REPORTED TO FRACFOCUS WITHIN 60 DAYS AFTER THE CONCLUSION OF HYDRAULIC FRACTURING OPERATIONS, FOUND AT FRACFOCUS.ORG
SPACING - 701901	[10/26/2020 - GC2] - (UNIT) NW4 NW4 7-2S-2W EST SW WILDCAT JIM DEESE OPERATING UNIT FOR THE DEESS

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