

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

API NUMBER: 019 26398

Approval Date: 07/15/2020

Expiration Date: 01/15/2022

Directional Hole Oil & Gas

PERMIT TO DRILL

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

SPOT LOCATION: ☐ NW ☐ NE ☐ SW ☐ SW FEET FROM QUARTER: FROM SOUTH FROM WEST
SECTION LINES: 1129 741

Lease Name: SW WILDCAT JIM DEESE UNIT Well No: 22-1 Well will be 741 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 CO 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: 1032

Surface Casing: 1290

Depth to base of Treatable Water-Bearing FM: 1240

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: GARBER

DIRECTIONAL HOLE 1

Section: 7 Township: 2S Range: 2W
County: CARTER

Measured Total Depth: 4819

Spot Location of End Point: NE NW SW SW

True Vertical Depth: 4800

Feet From: SOUTH 1/4 Section Line: 1053

End Point Location from

Feet From: WEST 1/4 Section Line: 401

Lease, Unit, or Property Line: 1140

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>7/14/2020 - 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: 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 - 701901	<p>7/15/2020 - GC2 - (UNIT) SW4 SW4 7-2S-2W</p> <p>EST SW WILDCAT JIM DEESE OPERATING UNIT FOR THE DEESS</p>

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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.

019 26398 SW WILDCAT JIM DEESE UNIT 22-1

Well Location Plat

API: 019-26398

M & M Land Surveying, Inc.

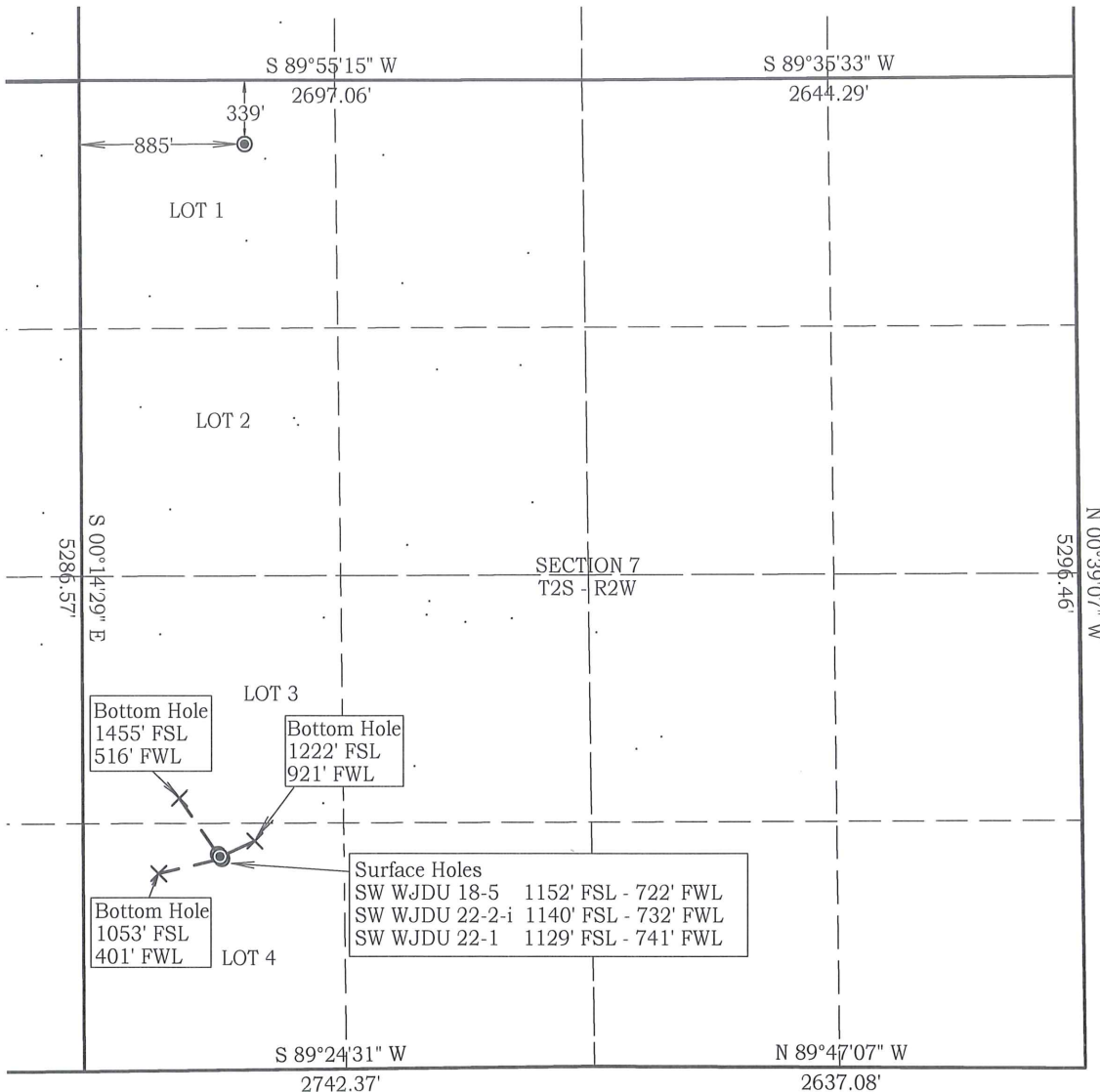
520 "E" Street NW. Ardmore, OK. 73401

Office 580-226-0446 Mobile 580-221-4999

Company Name: Mack Energy Lease Name: SW WJDU #18-5, 22-2-i, & 22-1
Section 7 Township 2 South Range 2 West County Carter Oklahoma

Surface Locations
SW WJDU 18-5 1152' FSL - 722' FWL Elevation N/A Good Location? Yes
SW WJDU 22-2-i 1140' FSL - 732' FWL
SW WJDU 22-1 1129' FSL - 741' FWL

Topography
Pasture



Bearings are GRID NORTH
SCALE 1" = 1000'
0' 1000'
Job # 20055 overall
Date 6/30/2020

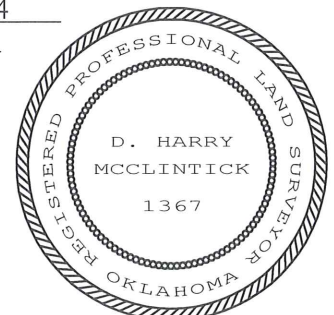
Best Accessibility to Location
From the North or East

Distance & Direction From From the Jct Samedan Road and Ranch Road go 1.5 mile South on Samedan Road to a point ± 660' East of the Northwest Corner of the SW/4 Highway or Town of Section 7.

CERTIFICATE:

I, D. Harry McClintick, a Registered Land Surveyor in the state of Oklahoma, do hereby certify that the above described Well Location was calculated and is accurately shown on this plat.

D. Harry McClintick 6/30/2020
D. Harry McClintick, R.P.L.S. # 1367, CA # 3093



This location has been calculated from Latitude and Longitude coordinates provided to me by Mack Energy and have not been verified.

The distances shown in parenthesis () are calculated distances based on the quarter section being 2640' and have not been measured.