

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

API NUMBER: 019 26433

Approval Date: 03/02/2021
Expiration Date: 09/02/2022

Directional Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Section: 01 Township: 2S Range: 3W County: CARTER

SPOT LOCATION: ☐ SW ☐ NE ☐ SE ☐ SE FEET FROM QUARTER: FROM SOUTH FROM EAST
SECTION LINES: 711 348

Lease Name: SW WILDCAT JIM DEESE UNIT Well No: 4-1 Well will be 750 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

BILL CRUMLEY
PO BOX 581
AFTON OK 74331

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

Name	Code	Depth
1 DEESE	404DEESS	3195

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: 4600 Ground Elevation: 1051

Surface Casing: 1310

Depth to base of Treatable Water-Bearing FM: 1260

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

Approved Method for disposal of Drilling Fluids:

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: 1 Township: 2S Range: 3W Meridian: IM
County: CARTER

Measured Total Depth: 4665

Spot Location of End Point: SE NW SE SE

True Vertical Depth: 4600

Feet From: SOUTH 1/4 Section Line: 879

End Point Location from

Feet From: EAST 1/4 Section Line: 916

Lease, Unit, or Property Line: 582

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>[3/1/2021 - GC2] - OCC 165:10-3-10 REQUIRES:</p> <p>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;</p> <p>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,</p> <p>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</p>
SPACING - 701901	[3/2/2021 - GC2] - (UNIT) SE SE 1-2S-3W EST SW WILDCAT JIM DEESE OPERATING UNIT FOR DEESS

Well Location Plat

M & M Land Surveying, Inc.

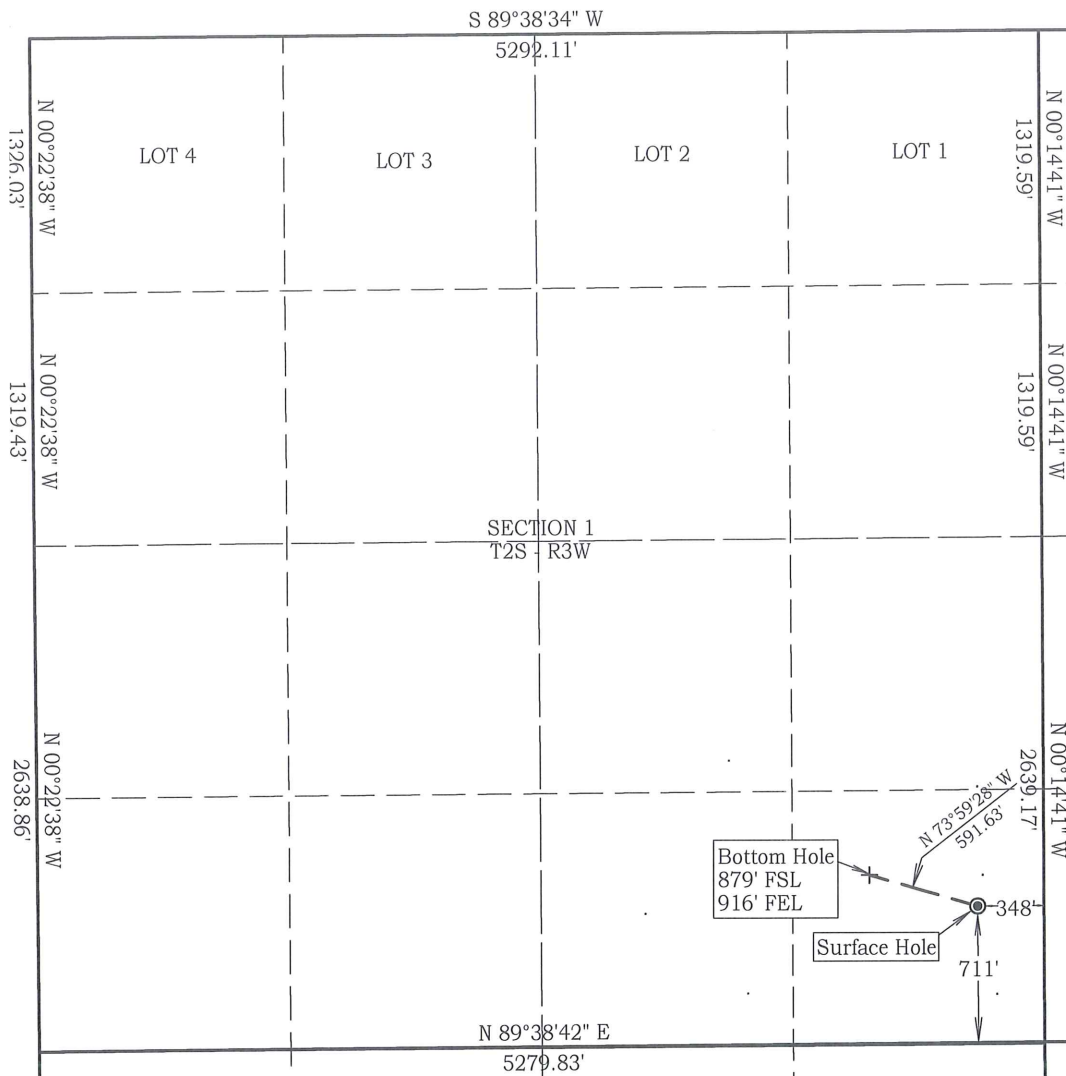
520 "E" Street NW. Ardmore, OK. 73401
Office 580-226-0446 Mobile 580-221-4999

Company Name: Mack Energy Lease Name: SW WJDU #4-1
Section 1 Township 2 South Range 3 West County Carter Oklahoma

Surface Location 711' FSL - 348' FEL Elevation N/A Good Location? Yes
Bottom Hole 879' FSL - 916' FEL

Topography

±16' SW of SW WJDU
#4-2 & ±17' N of SW
WJDU #4-3



SCALE 1" = 1000'
0' 1000'

Job # 19287

Date 11/17/2020

NAD 83 OK South

Surface Location

Latitude: 34.407264°

Longitude: 97.458594°

N= 391,263'

E=2,131,802'

Bottom Hole

Latitude: 34.407721°

Longitude: 97.460476°

N= 391,426'

E=2,131,233'

Best Accessibility to Location
From the East

Distance & Direction From From the Jct Samedan Road and Ranch Road go 0.8 miles South on Samedan Road to a Lease road East at a point ± 660' East of the East Line of Section 1.

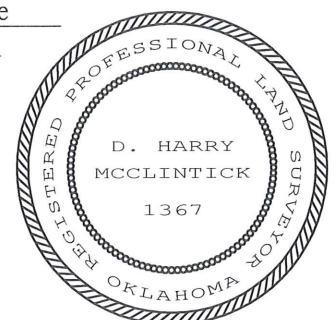
CERTIFICATE:

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 11/17/2020
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.



Topography Plat

M & M Land Surveying, Inc.

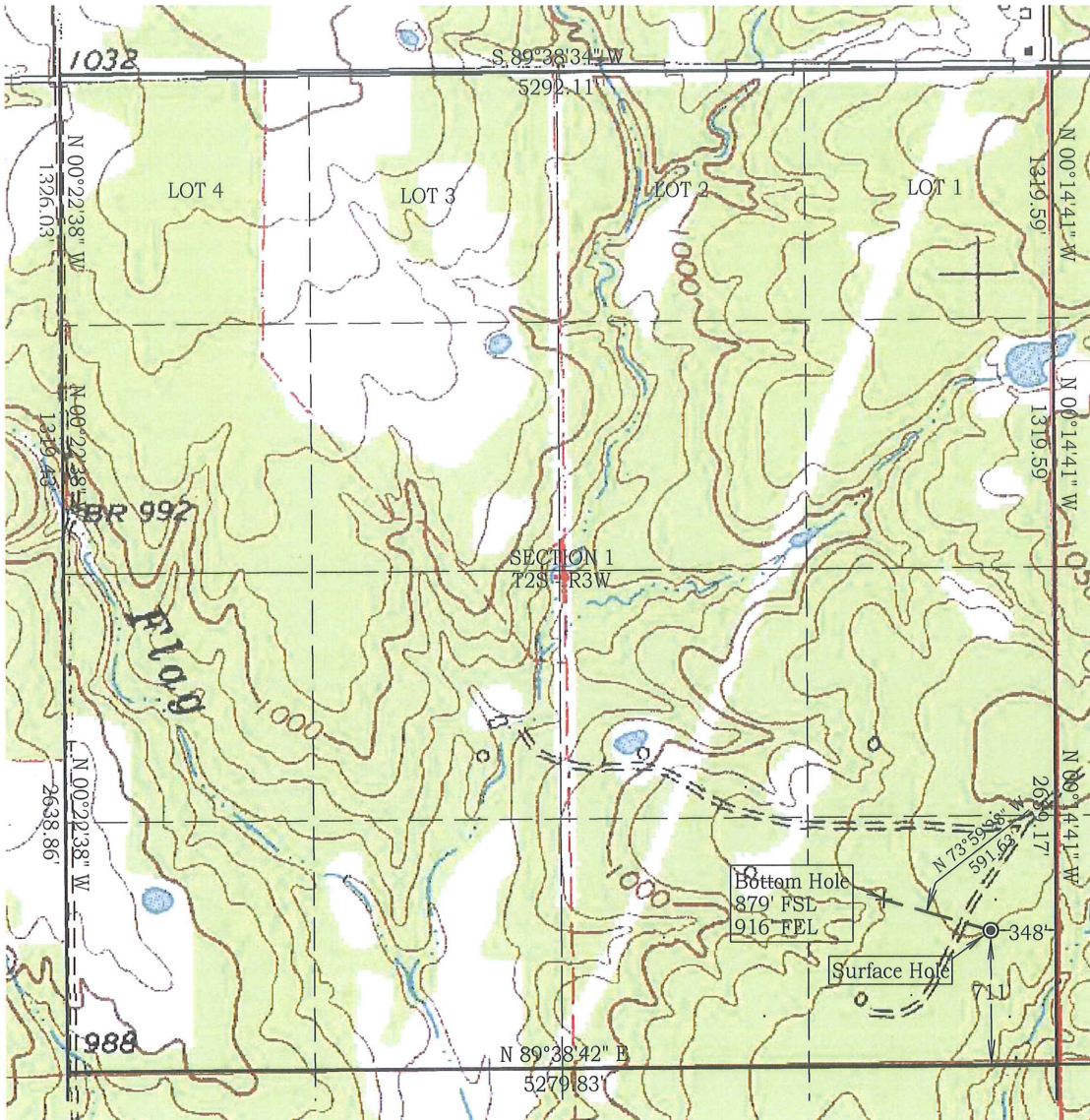
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Highway or Town _____

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