API NUMBER: 051 25039 **OKLAHOMA CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION** P.O. BOX 52000 **OKLAHOMA CITY, OK 73152-2000** (Rule 165:10-3-1)

Approval Date: 07/14/2023 01/14/2025 Expiration Date:

Directional Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Section: 22 Township: 3N Range: 5W County:	GRADY
SPOT LOCATION: NE NE SW SW FEET FROM QUARTER: FROM SOUTH	FROM WEST
SECTION LINES: 1026	1292
Lease Name: CKSMOU Well No: 22-21-1	Well will be 1026 feet from nearest unit or lease boundary.
Operator Name: MACK ENERGY CO Telephone: 405832	9830; 5802525580 OTC/OCC Number: 11739 0
MACK ENERGY CO	MCCASLAND FARMS
100 N BROADWAY STE 3300	100 N. BROADWAY STE 3300
OKLAHOMA CITY, OK 73102-8831	OKLAHOMA CITY OK 73102
Formation(s) (Permit Valid for Listed Formations Only):	
Name Code Depth	
1 MORROW SUBTHRUST 402MRWST 10529	
Spacing Orders: 731833 Location Exception Order	rs: No Exceptions Increased Density Orders: No Density
Pending CD Numbers: No Pending Working interest own	ners' notified: DNA Special Orders: No Special
Pending CD Numbers: No Pending Total Depth: 12037 Ground Elevation: 1141 Surface Casing	
· ·	•
· ·	: 1500 Depth to base of Treatable Water-Bearing FM: 160
Total Depth: 12037 Ground Elevation: 1141 Surface Casing Under Federal Jurisdiction: No Fresh Water Supply Well Drilled: No	: 1500 Depth to base of Treatable Water-Bearing FM: 160 Deep surface casing has been approved
Total Depth: 12037 Ground Elevation: 1141 Surface Casing Under Federal Jurisdiction: No	Depth to base of Treatable Water-Bearing FM: 160 Deep surface casing has been approved Approved Method for disposal of Drilling Fluids:
Total Depth: 12037 Ground Elevation: 1141 Surface Casing Under Federal Jurisdiction: No Fresh Water Supply Well Drilled: No	Depth to base of Treatable Water-Bearing FM: 160 Deep surface casing has been approved Approved Method for disposal of Drilling Fluids: D. One time land application (REQUIRES PERMIT) PERMIT NO: 23-39129 H. (Other) CLOSED SYSTEM=STEEL PITS (REQUIRED - RUSH
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DIRECTIONAL HOLE 1

Section: 22 Township: 3N Range: 5W Meridian: IM

County: GRADY

Spot Location of End Point: NW SW SW True Vertical Depth: 11966

1/4 Section Line: 636 Feet From: SOUTH End Point Location from

Lease, Unit, or Property Line: 221 Feet From: WEST 1/4 Section Line: 221

Measured Total Depth: 12037

NOTES:

Category	Description
DEEP SURFACE CASING	[7/13/2023 - GE7] - APPROVED; (1) NOTIFY OCC FIELD INSPECTOR IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING. (2) SUBSEQUENT WELLS ON SAME PAD WILL NOT BE ALLOWED DEEP SURFACE CASING IN THE EVENT OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING.
HYDRAULIC FRACTURING	[7/13/2023 - GE7] - 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 FRACTURING OPERATIONS. FORM 6000NHF SHALL BE FOUND HERE: HTTPS://OKLAHOMA.GOV/OCC/DIVISIONS/OIL-GAS/OGCD-FORMS; 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 - 731833	[7/14/2023 - G56] - (UNIT) W2 SW4 22-3N-5W EST EST CARTER KNOX SUBTHRUSTED MORROW OPERATING UNIT FOR MRWST