

API NUMBER: 011 24354

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

Approval Date: 02/24/2023

Expiration Date: 08/24/2024

Multi Unit

Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Section: 28 Township: 15N Range: 13W County: BLAINE

SPOT LOCATION: ☐ NE ☐ SW ☐ SE ☐ SW FEET FROM QUARTER: FROM SOUTH FROM WEST
SECTION LINES: 617 1705

Lease Name: SPANGLER BIA 1513

Well No: 3-28-21-16MXH

Well will be 617 feet from nearest unit or lease boundary.

Operator Name: MARATHON OIL COMPANY

Telephone: 8666622378

OTC/OCC Number: 1363 0

MARATHON OIL COMPANY
990 TOWN & COUNTRY BLVD
HOUSTON, TX 77024-2217

EDMERE FARMS, LLC
PO BOX 580
THOMAS OK 73669

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

	Name	Code	Depth
1	MISSISSIPPIAN	359MSSP	11366
2	WOODFORD	319WDFD	13295
3	HUNTON	269HNTN	13437

Spacing Orders: 653559
653560
663350

Location Exception Orders: No Exceptions

Increased Density Orders: No Density

Pending CD Numbers: 202300188
202300190
202300192
202300196
202300197

Working interest owners' notified: ***

Special Orders: No Special

Total Depth: 25535

Ground Elevation: 1584

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 130

Deep surface casing has been approved

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

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT)

PERMIT NO: 23-38819

H. (Other)

SEE MEMO

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.

PIT 1 INFORMATION**Type of Pit System:** CLOSED Closed System Means Steel Pits**Type of Mud System:** WATER BASED

Chlorides Max: 8000 Average: 5000

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:** C**Liner not required for Category:** C**Pit Location is:** BED AQUIFER**Pit Location Formation:** RUSH SPRINGS**PIT 2 INFORMATION****Type of Pit System:** CLOSED Closed System Means Steel Pits**Type of Mud System:** OIL BASED

Chlorides Max: 300000 Average: 200000

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:** C**Liner not required for Category:** C**Pit Location is:** BED AQUIFER**Pit Location Formation:** RUSH SPRINGS**MULTI UNIT HOLE 1**

Section: 16 Township: 15N Range: 13W Meridian: 1M

Total Length: 13078

County: BLAINE

Measured Total Depth: 25535

Spot Location of End Point: S2 S2 SW NW

True Vertical Depth: 14000

Feet From: **NORTH** 1/4 Section Line: 2600End Point Location from
Lease, Unit, or Property Line: 660Feet From: **WEST** 1/4 Section Line: 660**NOTES:**

Category	Description
DEEP SURFACE CASING	[2/9/2023 - GC2] - 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	[2/9/2023 - 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 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
INTERMEDIATE CASING	[2/9/2023 - GC2] - DUE TO THE KNOWN POTENTIAL RISK OF ENCOUNTERING AN OVER-PRESSURED ZONE IN THE MORROW SERIES IN THIS AREA, THE TECHNICAL MANAGER RECOMMENDS SETTING AN INTERMEDIATE STRING OF CASING IMMEDIATELY ABOVE THE MORROW SERIES
MEMO	[2/9/2023 - GC2] - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
PENDING CD - 202300188	[2/23/2023 - G56] - 16-15N-13W X663350 MSSP 2 WELLS NO OP NAMED REC 2/14/2023 (PRESLAR)
PENDING CD - 202300190	[2/23/2023 - G56] - 21-15N-13W X653559 MSSP 2 WELLS NO OP NAMED REC 2/14/2023 (PRESLAR)
PENDING CD - 202300192	[2/23/2023 - G56] - 28-15N-13W X653560 MSSP 2 WELLS NO OP NAMED REC 2/23/2023 (PRESLAR)
PENDING CD - 202300196	[2/23/2023 - G56] - (I.O.) 16, 21 & 28-15N-13W EST MULTIUNIT HORIZONTAL WELL X663350 MSSP, WDFD, HNTN 16-15N-13W X653559 MSSP, WDFD, HNTN 21-15N-13W X653560 MSSP, WDFD, HNTN 28-15N-13W (WDFD, HNTN ARE ADJACENT CSS TO MSSP) 20% 16-15N-13W 40% 21-15N-13W 40% 28-15N-13W NO OP NAMED REC 2/14/2023 (PRESLAR)
PENDING CD - 202300197	[2/23/2023 - G56] - (I.O.) 16, 21 & 28-15N-13W X663350 MSSP, WDFD, HNTN 16-15N-13W X653559 MSSP, WDFD, HNTN 21-15N-13W X653560 MSSP, WDFD, HNTN 28-15N-13W COMPL INT (16-15N-13W) NCT 0' FSL, NCT 2400' FNL, NCT 330' FWL COMPL INT (21-15N-13W) NCT 0' FSL, NCT 0' FNL, NCT 330' FWL COMPL INT (28-15N-13W) NCT 150' FSL, NCT 0' FNL, NCT 330' FWL NO OP NAMED REC 2/14/2023 (PRESLAR)
SPACING - 653559	[2/23/2023 - G56] - (640) 21-15N-13W EXT OTHER EST MSSP, WDFD, HNTN
SPACING - 653560	[2/23/2023 - G56] - (640) 28-15N-13W EST MSSP, WDFD, HNTN
SPACING - 663350	[2/23/2023 - G56] - (640) 16-15N-13W EXT 653559 MSSP, WDFD, HNTN

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