

API NUMBER: 051 24698 A

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

Approval Date: 08/21/2019  
Expiration Date: 02/21/2021

Multi Unit Oil & Gas

Amend reason: ADD WOODFORD FORMATION AND UPDATE ORDERS

**AMEND PERMIT TO DRILL**

WELL LOCATION: Section: 33 Township: 7N Range: 5W County: GRADY

SPOT LOCATION: ☐ NE ☐ NW ☐ SE ☐ SW FEET FROM QUARTER: FROM SOUTH FROM WEST  
SECTION LINES: 1120 1749

Lease Name: ETHEL MAE 0605 Well No: 1-4-9MXH Well will be 1120 feet from nearest unit or lease boundary.  
Operator Name: MARATHON OIL COMPANY Telephone: 4057285228 OTC/OCC Number: 1363 0

MARATHON OIL COMPANY  
PO BOX 68  
HOUSTON, TX 77001-0068

NICKEY O. CROSKEY & JEAN M. CROSKEY  
1565 HIGHWAY 62  
CHICKASHA OK 73018

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

	Name	Code	Depth
1	WOODFORD	319WDFD	11896
2	MISSISSIPPIAN	359MSSP	12020

Spacing Orders: 188337 Location Exception Orders: No Exceptions Increased Density Orders: 702502  
153801  
587420  
626437

Pending CD Numbers: 201903757 Special Orders: No Special Orders  
201903756  
202001105

Total Depth: 22454 Ground Elevation: 1154 Surface Casing: 1500 Depth to base of Treatable Water-Bearing FM: 370

Deep surface casing has been approved

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: 19-36823  
H. SEE MEMO

**PIT 1 INFORMATION**

Type of Pit System: CLOSED Closed System Means Steel Pits

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: C

Liner not required for Category: C

Pit Location is: BED AQUIFER

Pit Location Formation: DUNCAN

**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: DUNCAN

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.

**MULTI UNIT HOLE 1**

Section: 9	Township: 6N	Range: 5W	Total Length: 10162
County: GRADY			Measured Total Depth: 22454
Spot Location of End Point: SW	SW	SR	SW
Feet From: <b>SOUTH</b>	1/4 Section Line: 50		True Vertical Depth: 12039
Feet From: <b>WEST</b>	1/4 Section Line: 1480		End Point Location from Lease, Unit, or Property Line: 50

**NOTES:**

Category	Description
DEEP SURFACE CASING	8/7/2019 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING
HYDRAULIC FRACTURING	8/7/2019 - G71 - OCC 165:10-3-10 REQUIRES:  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;  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: <a href="http://OCCWEB.COM/OG/OGFORMS.HTML">OCCWEB.COM/OG/OGFORMS.HTML</a> ; AND,  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: <a href="http://FRACFOCUS.ORG">FRACFOCUS.ORG</a>
INCREASED DENSITY - 702502	6/24/2020 - GC2 - 9-6N-5W X626437 WDFD 3 WELLS NO OP. NAMED 9-19-2019
MEMO	8/7/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS (REQUIRED - WINTER CREEK LAKE), PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
PENDING CD - 201903756	6/24/2020 - GC2 - (I.O.) 4 & 9-6N-5W EST MULTIUNIT HORIZONTAL WELL X188337 MSSP 4-6N-5W X153801 MSSP 9-6N-5W X587420 WDFD 4-6N-5W X626437 WDFD 9-6N-5W 50% 4-6N-5W 50% 9-6N-5W NO OP. NAMED REC. 6-23-2020 (DENTON)
PENDING CD - 201903757	6/24/2020 - GC2 - (I.O.) 4 & 9-6N-5W X188337 MSSP 4-6N-5W X153801 MSSP 9-6N-5W X587420 WDFD 4-6N-5W X626437 WDFD 9-6N-5W COMPL. INT. (4-6N-5W) NCT 150' FNL, NCT 0' FSL, NCT 1,000' FWL COMPL. INT. (9-6N-5W) NCT 0' FNL, NCT 150' FSL, NCT 1,000' FWL NO OP. NAMED REC. 6-23-2020 (DENTON)
PENDING CD - 202001105	6/24/2020 - GC2 - 4-6N-5W X587420 WDFD 1 WELL NO OP. NAMED REC. 6-23-2020 (DENTON)
SPACING - 153801	8/20/2019 - GC2 - (640) 9-6N-5W EXT 147146 MSSP, OTHERS EXT OTHER
SPACING - 188337	8/20/2019 - GC2 - (640) 4-6N-5W EXT OTHERS EXT 147146 MSSP, OTHER EXT OTHER
SPACING - 587420	6/24/2020 - GC2 - (640) 4-6N-5W EXT 554702 WDFD

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SPACING - 626437	6/24/2020 - GC2 - (640) 9-6N-5W EXT 608652 WDFD
WATERSHED STRUCTURE	8/7/2019 - G71 - WELL WITHIN 1/2 MILE OF AN OKLAHOMA CONSERVATION COMMISSION WATERSHED STRUCTURE. CONTACT THE LOCAL CONSERVATION DISTRICT OFFICE AT (405) 224-0523 PRIOR TO DRILLING

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