API NUMBER: 045 23704

Oil & Gas

Horizontal Hole

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

Approval Date: 11/17/2017 05/17/2018 Expiration Date:

73832

PERMIT TO DRILL

									230		900
							SECTION LINES:		250		965
SPOT LOCATION:	NW	NE	N'	W	NW		FEET FROM QUARTER:	FROM	NORTH	FROM	WEST
WELL LOCATION:	Sec:	09	Twp:	17N	Rge:	24V	/ Count	y: ELLI	S		

Lease Name: JOYCE Well No: 45H Well will be 250 feet from nearest unit or lease boundary.

EOG RESOURCES INC Operator OTC/OCC Number: Telephone: 4052463212 16231 0 Name:

EOG RESOURCES INC 3817 NW EXPRESSWAY STE 500

OKLAHOMA CITY. OK 73112-1483

MAX E MILLER FAMILY TRUST 121 NORTH VAN BUREN STREET NORMA LEE MILLER REVOCABLE TRUST

ARNETT

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

	Name	Depth	Name	Depth
1	MARMATON	9400	6	
2			7	
3			8	
4			9	
5			10	
Spacing Orders:	604263	Location Exception Orders:		Increased Density Orders:

Pending CD Numbers: 201705837 Special Orders:

201705836

Total Depth: 14954 Ground Elevation: 2288 Surface Casing: 1500 Depth to base of Treatable Water-Bearing FM: 440

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

Approved Method for disposal of Drilling Fluids: PIT 1 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: WATER BASED Chlorides Max: 100000 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

is located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Wellhead Protection Area?

Pit Location is AP/TE DEPOSIT Pit Location Formation: TERRACE

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 17-33323 E. Haul to Commercial pit facility: Sec. 21 Twn. 14N Rng. 21W Cnty. 129 Order No: 376462 H. SEE MEMO

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 AP/TE DEPOSIT
Pit Location Formation: TERRACE

HORIZONTAL HOLE 1

Sec 04 Twp 17N Rge 24W County **ELLIS** NW Spot Location of End Point: NW NF NW Feet From: NORTH 1/4 Section Line: 50 Feet From: WEST 1/4 Section Line: 965

Depth of Deviation: 9300
Radius of Turn: 346
Direction: 360
Total Length: 5110

Measured Total Depth: 14954

True Vertical Depth: 9613

End Point Location from Lease,
Unit, or Property Line: 50

Notes:

MEMO

Category Description

DEEP SURFACE CASING 11/3/2017 - 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 11/3/2017 - 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:

OCCEWEB.COM/OG/OGFORMS.HTML; 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: FRACFOCUS.ORG

11/15/2017 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 1 - WBM CUTTINGS TO BE SOIL FARMED, PIT 2 - OBM CUTTINGS TO HAULED TO COMM PITS,

OBM TO VENDOR

PENDING CD - 201705836 11/16/2017 - G58 - (I.O.) 4-17N-24W

X604263 MRMN 3 WELLS NO OP NAMED

REC 9/25/2017 (THOMAS)

This permit does not address the right of entry or settlement of surface damages. The duration of this permit is SIX 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

PENDING CD - 201705837 11/16/2017 - G58 - (I.O.) 4-17N-24W

X604263 MRMN

COMPL INT NCT 165' FSL, NCT 165' FNL, NCT 965' FWL

NO OP NAMED

REC 9/25/2017 (THOMAS)

11/16/2017 - G58 - (640)(HOR) 4-17N-24W EXT 601473 MRMN, OTHERS **SPACING - 604263**

POE TO BHL NCT 660' FB

(SUPERCEDE NON-PRODUCING, NON-HORIZONTAL SPACING UNITS; COEXIST WITH

PRODUCING, NON-HORIZONTAL SPACING UNITS)