

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

API NUMBER: 087 22129 A

Approval Date: 04/20/2018  
Expiration Date: 10/20/2018

Horizontal Hole Oil & Gas  
Multi Unit

Amend reason: CHANGE SPACING ORDER, ADD ID CD NUMBER

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 04 Twp: 8N Rge: 4W County: MCCLAIN  
SPOT LOCATION:  NE  NE  NW  NE FEET FROM QUARTER: FROM NORTH FROM EAST  
SECTION LINES: 282 1480

Lease Name: LAUBHAN Well No: 0409 1H Well will be 282 feet from nearest unit or lease boundary.

Operator Name: EOG RESOURCES INC Telephone: 4052463224 OTC/OCC Number: 16231 0

EOG RESOURCES INC  
3817 NW EXPRESSWAY STE 500  
OKLAHOMA CITY, OK 73112-1483

LAUBHAN FAMILY LLC  
PO BOX 432  
C/O JUDITH LAUBHAN FEHLMANN, CO-TRUSTEE  
BROOMFIELD CO 80038

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

	Name	Depth	Name	Depth
1	MISSISSIPPI	9100	6	
2	WOODFORD	9160	7	
3	HUNTON	9300	8	
4			9	
5			10	

Spacing Orders: 594544 Location Exception Orders: 688489 Increased Density Orders:  
652790  
684433  
687433

Pending CD Numbers: 201901803 Special Orders:

Total Depth: 19629 Ground Elevation: 1228 **Surface Casing: 1500** Depth to base of Treatable Water-Bearing FM: 580

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

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

Approved Method for disposal of Drilling Fluids:

- D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 18-34155
- E. Haul to Commercial pit facility: Sec. 31 Twn. 12N Rng. 8W Cnty. 17 Order No: 587498
- H. SEE MEMO

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.

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

HORIZONTAL HOLE 1

Sec 09 Twp 8N Rge 4W County MCCLAIN

Spot Location of End Point: S2 SE SE SE

Feet From: SOUTH 1/4 Section Line: 165

Feet From: EAST 1/4 Section Line: 330

Depth of Deviation: 8848

Radius of Turn: 388

Direction: 180

Total Length: 10172

Measured Total Depth: 19629

True Vertical Depth: 9428

End Point Location from Lease,  
Unit, or Property Line: 165

Notes:

Category

Description

DEEP SURFACE CASING

4/4/2018 - 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

4/4/2018 - 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](http://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](http://FRACFOCUS.ORG)

LOCATION EXCEPTION - 688489

5/1/2019 - G58 - (I.O.) 4 & 9-8N-4W  
X684298\*\* MSSP, WDFD, HNTN (4-8N-4W)  
X684433 MSSP, WDFD, HNTN (9-8N-4W)  
COMPL. INT. (4-8N-4W) NCT 165' FNL, NCT 0' FSL, NCT 330' FEL  
COMPL. INT. (9-8N-4W) NCT 0' FNL, NCT 165' FSL, NCT 330' FEL  
EOG RESOURCES, INC.  
12/18/2018

\*\*ORDER HAS BEEN REOPENED TO APPLY TO SP. ORDER 594544/652790; APPLICATION HAS BEEN REVIEWED BY OCC TECHNICAL

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
MEMO	4/4/2018 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 1 - WBM & CUTTINGS TO BE SOIL FARMED; PIT 2 - OBM CUTTINGS TO R360 (ORDER # 587498) OR DEQ APPROVED FACILITY (SOUTHERN PLAINS LANDFILL, 3-5N-6W, GRADY CO., # 3526013); PIT 2 - OBM TO VENDOR
PENDING CD - 201901803	5/1/2019 - G58 - E2 4 & W2 3-8N-4W X594544/652790 WDFD 1 WELL NO OP. NAMED REC 4/8/2019 (THOMAS)
SPACING - 594544	4/11/2018 - G58 - (640)(IRR UNIT) E2 4-8N-4W VAC 175579 HNTN (E2 4-8N-4W), OTHERS VAC 207975 HNTN, OTHERS EXT 588047 MSSP, WDFD, HNTN, OTHERS EXT OTHER
SPACING - 652790	4/11/2018 - G58 - NPT TO 594544 TO CORRECT PARAGRAPH 5.1 B TO SP. ORDER 175579
SPACING - 684433	5/1/2019 - G58 - (640)(HOR) E2 9-8N-4W EST MSSP, WDFD, HNTN COMPL. INT. (MSSP, HNTN) NLT 660' FB COMPL. INT. (WDFD) NLT 165' FNL & FSL, NLT 330' FEL & FWL (COEXIST SP ORDER 588047 MSSP, WDFD, HNTN)
SPACING - 687433	5/1/2019 - G58 - (I.O.) 4 & 9-8N-4W EST MULTIUNIT HORIZONTAL WELL X684298** MSSP, WDFD, HNTN (4-8N-4W) X684433 MSSP, WDFD, HNTN (9-8N-4W) (MSSP, HNTN ARE ADJACENT COMMON SOURCE OF SUPPLY TO WDFD) 50% 4-8N-4W 50% 9-8N-4W NO OP. NAMED 11/30/2018
	**ORDER HAS BEEN REOPENED TO APPLY TO SP. ORDER 594544/652790; APPLICATION HAS BEEN REVIEWED BY OCC TECHNICAL

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