

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

API NUMBER: 087 22238 B

Approval Date: 04/29/2019  
Expiration Date: 10/29/2020

Horizontal Hole Oil & Gas  
Multi Unit

Amend reason: AMEND SHL, UPDATE DISPOSAL METHOD

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 04 Twp: 8N Rge: 4W County: MCCLAIN  
SPOT LOCATION: C NW NW NE FEET FROM QUARTER: FROM NORTH FROM EAST  
SECTION LINES: 330 2310

Lease Name: LAUBHAN 0409 Well No: 3H Well will be 330 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  
BROOMFIELD CO 80038

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	9000	6	
2	WOODFORD	9142	7	
3	HUNTON	9292	8	
4			9	
5			10	

Spacing Orders: 594544 Location Exception Orders: 699527 Increased Density Orders: 698844  
684433 697303  
652790  
699699

Pending CD Numbers:

Special Orders:

Total Depth: 19570 Ground Elevation: 1260 Surface Casing: 1500 Depth to base of Treatable Water-Bearing FM: 590

Deep surface casing has been approved

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

PIT 1 INFORMATION

Approved Method for disposal of Drilling Fluids:

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

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 19-36322

H. SEE MEMO

G. Haul to recycling/re-use facility: Sec. 1 Twn. 15N Rng. 11W Cnty. 11 Order No: 698697

E. Haul to Commercial pit facility: Sec. 31 Twn. 12N Rng. 8W Cnty. 17 Order No: 587498

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 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 SW SE

Feet From: SOUTH 1/4 Section Line: 165

Feet From: EAST 1/4 Section Line: 1650

Depth of Deviation: 8865

Radius of Turn: 338

Direction: 175

Total Length: 10174

Measured Total Depth: 19570

True Vertical Depth: 9470

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

Notes:

Category

Description

DEEP SURFACE CASING

3/20/2019 - 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

3/20/2019 - 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: [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)

INCREASED DENSITY - 697303

10/2/2019 - GC2 - E2 9-8N-4W  
X684433 WDFD  
3 WELLS  
EOG RESOURCES, INC  
6-6-2019

INCREASED DENSITY - 698844

10/2/2019 - GC2 - E2 4 & W2 3-8N-4W  
X594544/652790 WDFD  
3 WELLS  
EOG RESOURCES, INC  
7-8-2019

This permit does not address the right of entry or settlement of surface damages.

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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.

087 22238 LAUBHAN 0409 3H

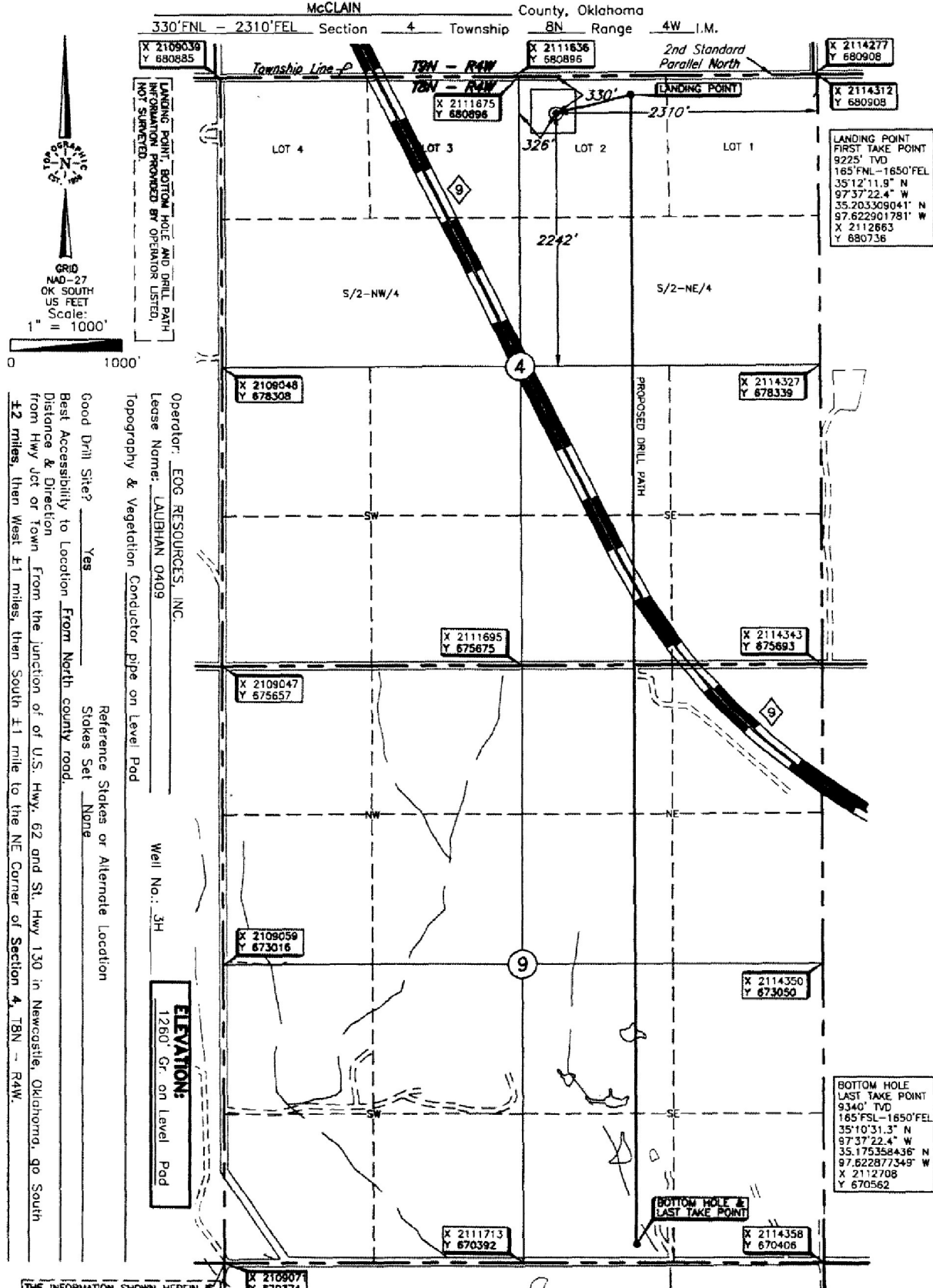
LOCATION EXCEPTION - 699527	10/2/2019 - GC2 - (I.O.) E2 4, W2 3, & E2 9-8N-4W X594544/652790 MSSP, WDFD, HNTN E2 4, W2 3-8N-4W X684433 MSSP, WDFD, HNTN E2 9-8N-4W X165:10-3-28(C)(2)(B) MAY BE CLOSER THAN 600' TO LAUBHAN 0409 2H AND LAUBHAN 0409 4H COMPL. INT. (E2 4 & W2 3-8N-4W) NCT 165' FNL, NCT 0' FSL, NCT 660' FWL COMPL. INT. (E2 9-8N-4W) NCT 0' FNL, NCT 165' FSL, NCT 660' FWL EOG RESOURCES, INC. 7-23-2019
MEMO	12/16/2019 - G71 - PITS 1 & 2 – CLOSED SYSTM=STEEL PITS PER OPERATOR REQUEST, PIT 1 – WBM/CUTTINGS WILL BE SOIL FARMED & PIT 2 – OBM CUTTINGS WILL BE HAUL TO HEARTLAND ENV RES IN BLAINE CTY AS PRIMARY - BACK UP WILL BE R360 IN CANDADIAN CTY – OBM THE TO VENDOR
SPACING - 594544	10/2/2019 - GC2 - (320/640)(IRR UNIT) E2 4-8N-4W & W2 3-8N-4W VAC 175579 HNTN (E2 4-8N-4W), OTHERS VAC 207975 HNTN, OTHERS (4-8N-4W) EXT 588047 (640) MSSP, WDFD, (VAC MSSP, WDFD BY 698391) OTHERS EXT 588047 (320) HNTN EXT OTHER EST OTHERS
SPACING - 652790	4/1/2019 - G58 - NPT TO 594544 TO CORRECT PARAGRAPH 5.1 B TO SP. ORDER 175579
SPACING - 684433	10/2/2019 - GC2 - (320)(HOR) E2 9-8N-4W EST MSSP, WDFD, HNTN COMPL. INT. (MSSP, HNTN) NCT 660' FB COMPL. INT. (WDFD) NCT 165' FNL/FSL, NCT 330' FEL/FWL (COEXIST SP ORDER 588047 MSSP, WDFD, HNTN)
SPACING - 699699	10/2/2019 - GC2 - (I.O.) E2 4, W2 3, & E2 9-8N-4W EST MULTIUNIT HORIZONTAL WELL X594544/652790 MSSP, WDFD, HNTN E2 4, W2 3-8N-4W X684433 MSSP, WDFD, HNTN E2 9-8N-4W (MSSP, HNTN ASSOCIATED COMMON SOURCE OF SUPPLY TO WDFD) 50% E2 4, W2 3-8N-4W 50% E2 9-8N-4W EOG RESOURCES, INC 7-25-2019

This permit does not address the right of entry or settlement of surface damages.

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**TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA**  
13800 Wireless Way, Okla. City, OK. 73134 \* LOCAL (405) 843-4847 \* OUT OF STATE (800) 654-3219  
Certificate of Authorization No. 1293 LS



THE INFORMATION SHOWN HEREIN IS  
FOR CONSTRUCTION PURPOSES ONLY

DATUM: NAD-27  
LAT: 35°12'10.3" N  
LONG: 97°37'30.4" W  
LAT: 35.202854161° N  
LONG: 97.625110958° W  
STATE PLANE  
COORDINATES (US FEET):  
ZONE: OK SOUTH  
X: 2112003  
Y: 680568

Revision ☒ D Date of Drawing: Dec. 10, 2019  
Project # 124235F Date Staked: July 25, 2019 LC

**CERTIFICATE:**

I, Thomas L. Howell, an Oklahoma Licensed Land Surveyor and an authorized agent of Topographic Land Surveyors of Oklahoma, do hereby certify to the information shown herein.

*Thomas L. Howell*  
Oklahoma Lic. No. 1433

