

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

API NUMBER: 087 22267

Approval Date: 10/09/2019

Expiration Date: 04/09/2021

Horizontal Hole  
Multi Unit

Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 04 Twp: 8N Rge: 4W County: MCCLAIN

SPOT LOCATION:     FEET FROM QUARTER: FROM NORTH FROM EAST

SECTION LINES: 330 2325

Lease Name: LAUBHAN 0409

Well No: 5H

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: 588047  
698391

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201904581  
201904582

Special Orders:

Total Depth: 19804

Ground Elevation: 1261

**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

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 SE SW

Feet From: SOUTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 2310

Depth of Deviation: 8974

Radius of Turn: 369

Direction: 185

Total Length: 10250

Measured Total Depth: 19804

True Vertical Depth: 9554

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

### Notes:

#### Category

#### Description

DEEP SURFACE CASING

9/27/2019 - GC2 - 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

9/27/2019 - GC2 - 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)

MEMO

9/30/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 1 - WBM/CUTTINGS WILL BE SOIL FARMED & PIT 2 - CUTTINGS TO BE HAUL TO HEARTLAND ENV RES (698697) OR TO DEQ APPROVED FAC – SOUTHERN PLAINS LANDFILL (GRADY CO) 3526013, PIT 2 - OBM TO VENDOR

PENDING CD - 201904581

10/3/2019 - GC2 - (I.O.) W2 4, E2 8, & W2 9-8N-4W  
EST MULTIUNIT HORIZONTAL WELL  
X698391 MSSP, WDFD, HNTN W2 4-8N-4W  
X588047 MSSP, WDFD, HNTN E2 8, W2 9-8N-4W  
(MSSP, HNTN ASSOCIATED COMMON SOURCE OF SUPPLY TO WDFD) 50% W2 4-8N-4W  
50% E2 8, W2 9-8N-4W  
NO OP. NAMED  
REC. 10-1-2019 (PRESLAR)

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

087 22267 LAUBHAN 0409 5H

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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.

PENDING CD - 201904582

10/3/2019 - GC2 - (I.O.) W2 4, E2 8, & W2 9-8N-4W  
X698391 MSSP, WDFD, HNTN W2 4-8N-4W  
X588047 MSSP, WDFD, HNTN E2 8, W2 9-8N-4W  
X165:10-3-28(C)(2)(B) MAY BE CLOSER THAN 600' TO LAUBHAN 0409 4H AND PROPOSED  
WELL  
COMPL. INT. (W2 4-8N-4W) NCT 165' FNL, NCT 0' FSL, NCT 330' FEL  
COMPL. INT. (E2 8, W2 9-8N-4W) NCT 0' FNL, NCT 165' FSL, NCT 330' FEL  
NO OP. NAMED  
REC. 10-1-2019 (PRESLAR)

SPACING - 588047

10/3/2019 - GC2 - (80/640/320)(IRR UNIT) 9-8N-4W SU NE/SW  
VAC OTHER  
VAC 188079 HNTN, OTHERS  
EXT (80) OTHERS  
EST (640)(IRR) MSSP, WDFD, HNTN, OTHERS E2 8, W2 9-8N-4W  
EST (320) HNTN, OTHER E2 9-8N-4W

SPACING - 698391

10/3/2019 - GC2 - (320)(HOR) W2 4-8N-4W SU  
EST MSSP, WDFD, HNTN  
VAC 684298 MSSP, WDFD, HNTN  
COMPL. INT. (MSSP, HNTN) NCT 660' FB  
COMPL. INT. (WDFD) NCT 165' FNL/FSL, NCT 330' FEL/FWL

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.

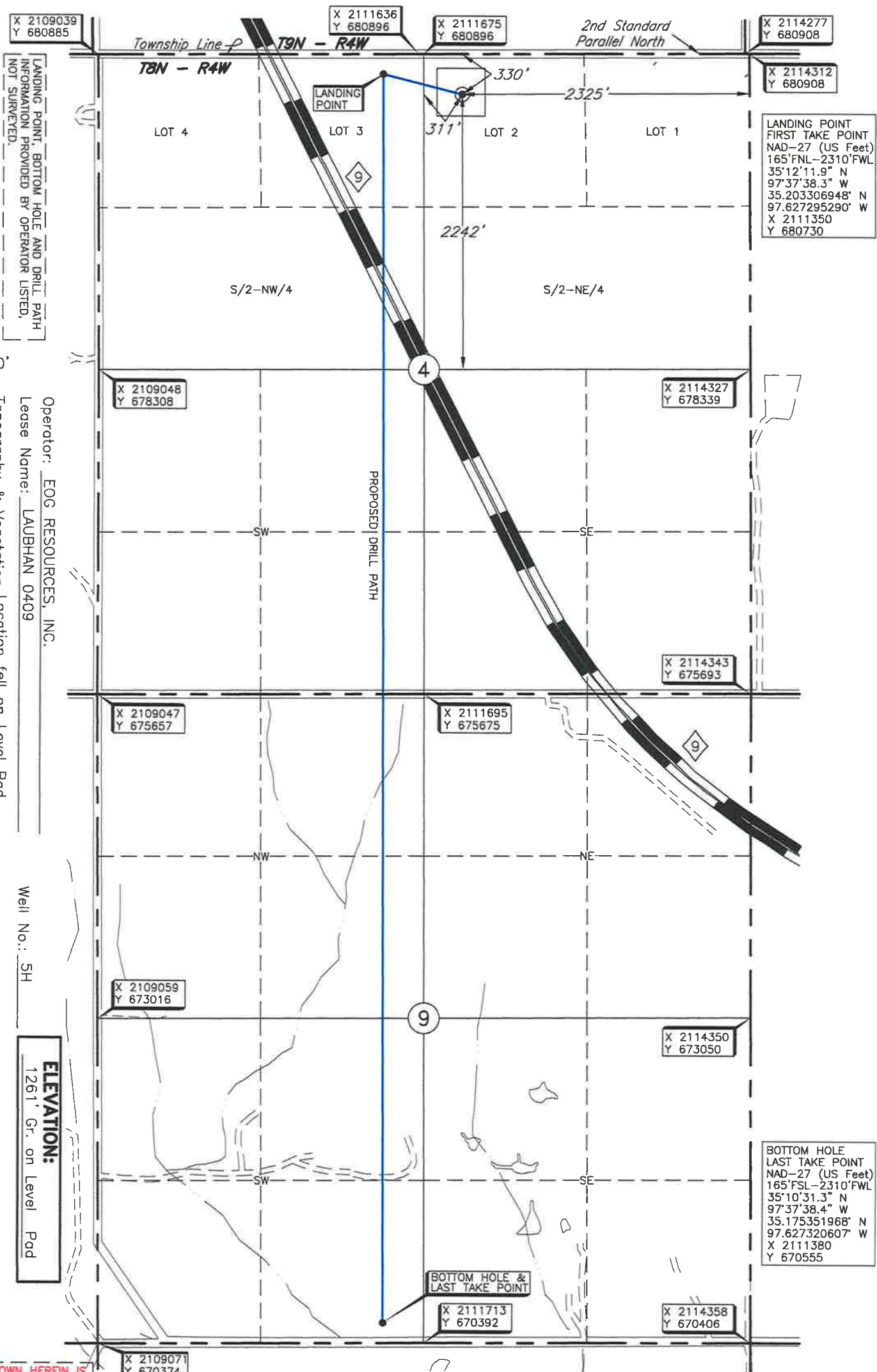
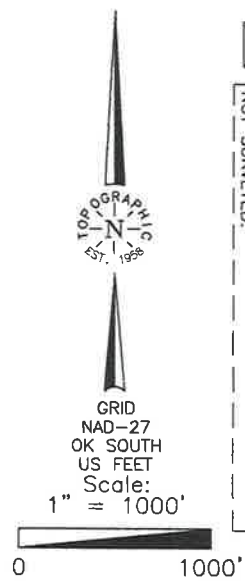
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Office of the Conservation Division as to when Surface Casing will be run.

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

McCLAIN

County, Oklahoma

330'FNL - 2325'FEL Section 4 Township 8N Range 4W I.M.



Operator: EOG RESOURCES, INC.  
Lease Name: LAUBHAN 0409  
Topography & Vegetation Location fell on Level Pad  
Well No.: 5H  
ELEVATION: 1261' Gr. on Level Pad  
Good Drill Site? Yes  
Best Accessibility to Location From North county road.  
Distance & Direction from Hwy Jct or Town From the junction of of U.S. Hwy. 62 and St. Hwy 130 in Newcastle, Oklahoma, go South ±2 miles, then West ±1 miles, then South ±1 mile to the NE Corner of Section 4, T8N - R4W.  
Reference Stakes or Alternate Location  
Stakes Set None

THE INFORMATION SHOWN HEREIN IS FOR CONSTRUCTION PURPOSES ONLY

DATUM: NAD-27  
LAT: 35°12'10.3" N  
LONG: 97°37'30.6" W  
LAT: 35.202853984° N  
LONG: 97.625161099° W  
STATE PLANE COORDINATES (US FEET):  
ZONE: OK SOUTH  
X: 2111988  
Y: 680567

Date of Drawing: Sep. 4, 2019  
Project # 124235G Date Staked: Sep. 3, 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

