

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 A

Approval Date: 10/09/2019
Expiration Date: 04/09/2021

Horizontal Hole Oil & Gas
Multi Unit

Amend reason: CHANGE SHL, GROUND ELEVATION, DISPOSAL
METHODS, UPDATE ORDERS

AMEND 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 2270

Lease Name: LAUBHAN 0409 Well No: 5H Well will be 330 feet from nearest unit or lease boundary.
Operator EOG RESOURCES INC Telephone: 4052463224 OTC/OCC Number: 16231 0
Name:

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 Location Exception Orders: 704255 Increased Density Orders:
698391
704254

Pending CD Numbers: Special Orders:

Total Depth: 19804 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 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; 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

LOCATION EXCEPTION - 704255

12/17/2019 - 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 LAUBHAN 0409 6H
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
10-25-2019

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.

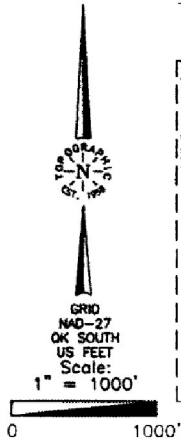
087 22267 LAUBHAN 0409 5H

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 - 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
SPACING - 704254	12/17/2019 - 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 ADJACENT COMMON SOURCE OF SUPPLY TO WDFD) 50% W2 4-8N-4W 50% E2 8, W2 9-8N-4W NO OP. NAMED 10-25-2019

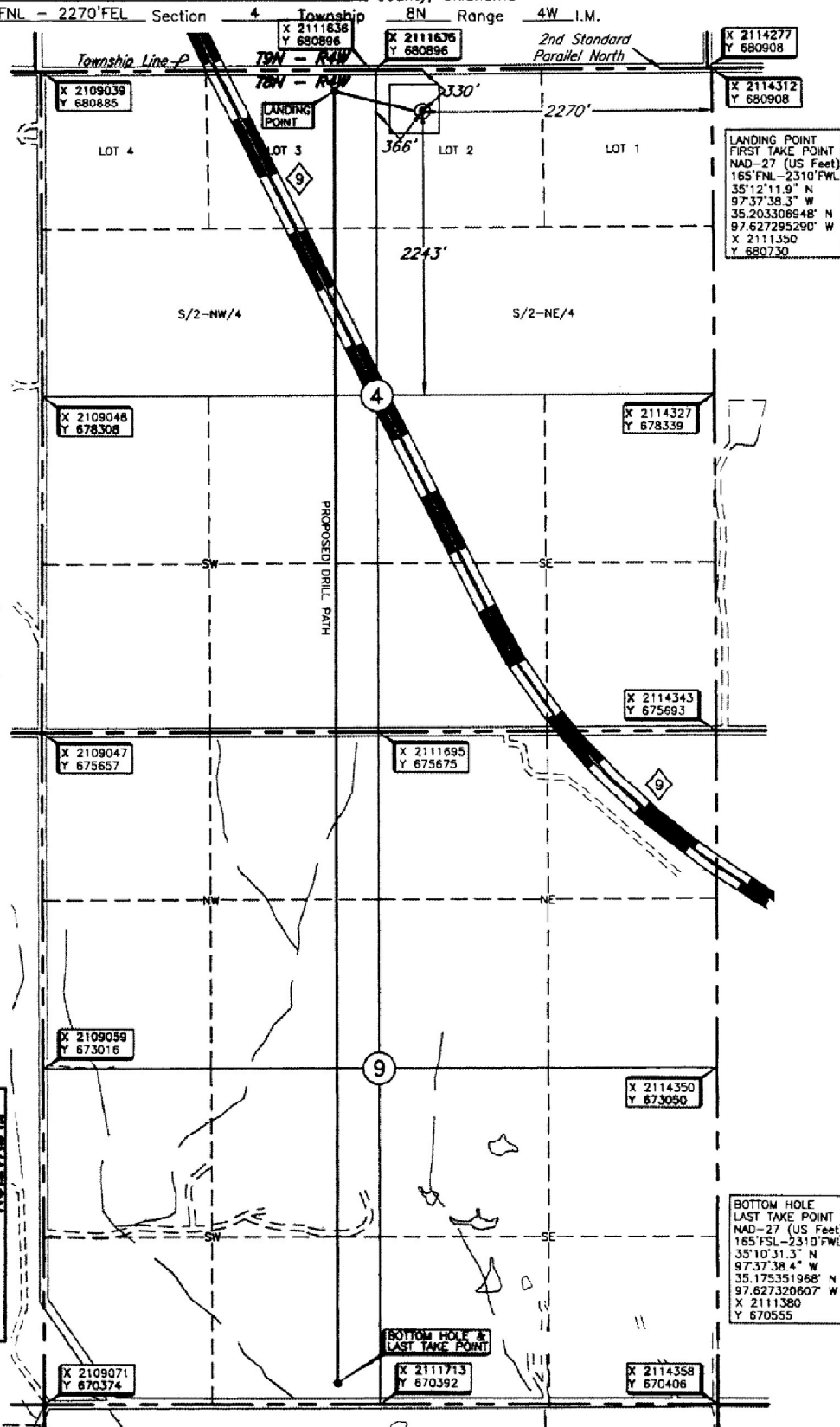
TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA
13800 Wireless Way, Okla. City, OK. 73134 • LOCAL (405) 843-4847 • OUT OF STATE (800) 654-3219
Certificate of Authorization No. 1293 LS

McCLAIN County, Oklahoma

330' FNL - 2270' FEL Section 4 Township 8N Range 4W I.M.



LANDING POINT, BOTTOM HOLE AND DRILL PATH INFORMATION PROVIDED BY OPERATOR LISTED.



Operator: EDG RESOURCES, INC.
Lease Name: LAUBHAN 0409
Topography & Vegetation: Conductor pipe on level pad
Good Drill Site? Yes
Best Accessibility to Location: From North county road.
Distance & Direction: From the junction of of U.S. Hwy. 62 and St. Hwy 130 in Newcastle, Oklahoma, go South 1.2 miles, then West 1.1 miles, then South 1.1 mile to the NE Corner of Section 4, T8N - R4W.
Reference Stakes or Alternate Location: Stakes Set None
Well No.: SH
ELEVATION: 1260' Gr. on Level Pad

THE INFORMATION SHOWN HEREIN IS FOR CONSTRUCTION PURPOSES ONLY

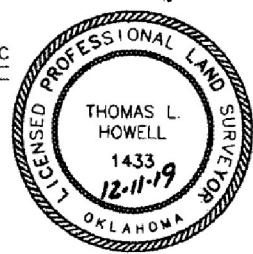
DATUM: NAD-27
LAT: 35°12'10.3" N
LONG: 97°37'29.9" W
LAT: 35.202854688° N
LONG: 97.624977529° W
STATE PLANE COORDINATES (US FEET):
ZONE: OK SOUTH
X: 2112043
Y: 680568

Revision ☒ D Date of Drawing: Dec. 10, 2019
Project # 1242350 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



BOTTOM HOLE
LAST TAKE POINT
NAD-27 (US Feet)
165'FSL-2310'FWL
35°10'31.3" N
97°37'38.4" W
35.175351968° N
97.627320607° W
X 2111380
Y 670555