

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

API NUMBER: 087 22239

Approval Date: 04/29/2019

Expiration Date: 10/29/2020

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 2310

Lease Name: LAUBHAN 0409

Well No: 4H

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
C/O JUDITH LAUBHAN FEHLMANN, CO TRUSTEE
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
684433
652790

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201901457
201901458
201901451
201901452

Special Orders:

Total Depth: 19590

Ground Elevation: 1259

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 590

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

F. Haul to Commercial soil farming facility: Sec. 1 Twn. 15N Rng. 11W Cnty. 11 Order No: 660850

G. Haul to recycling/re-use facility: Sec. 1 Twn. 15N Rng. 11W Cnty. 11 Order No: 662791

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 SW SW SE

Feet From: SOUTH 1/4 Section Line: 165

Feet From: EAST 1/4 Section Line: 2310

Depth of Deviation: 8900

Radius of Turn: 854

Direction: 180

Total Length: 9349

Measured Total Depth: 19590

True Vertical Depth: 9490

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; 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

MEMO

3/20/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 1 - WBM & CUTTINGS TO BE SOIL FARMED; PIT 2 - OBM RETURNED TO VENDOR, OBM CUTTINGS HAULED TO SOUTHERN PLAINS LANDFILL (GRADY) - 3526013, OR HEARTLAND ENV RES - COMM SOIL FARMING FAC (660850/661694) & COMM RECYCLING FAC (662791/663822)

PENDING CD - 201901451

4/1/2019 - G58 - E2 4 & W2 3-8N-4W
X594544/652790 WDFD
3 WELLS
NO OP. NAMED
HEARING 5/23/2019

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

087 22239 LAUBHAN 0409 4H

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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.

Category	Description
PENDING CD - 201901452	4/1/2019 - G58 - E2 9-8N-4W X684433 WDFD 3 WELLS NO OP. NAMED HEARING 5/23/2019
PENDING CD - 201901457	4/1/2019 - G58 - (E.O.) E2 4, W2 3, & E2 9-8N-4W X594544/652790 MSSP, WDFD, HNTN X684433 MSSP, WDFD, HNTN (MSSP, HNTN ARE ADJACENT CSS TO WDFD) 50% E2 4 & W2 3-8N-4W 50% E2 9-8N-4W NO OP. NAMED REC 4/22/2019 (NORRIS)
PENDING CD - 201901458	4/1/2019 - G58 - (E.O.) E2 4, W2 3, & E2 9-8N-4W X594544/652790 MSSP, WDFD, HNTN X684433 MSSP, WDFD, HNTN X165:10-3-28(C)(2)(B) MAY BE CLOSER THAN 600' TO PROPOSED WELL COMPL. INT. E2 4 & W2 3-8N-4W NCT 165' FNL, NCT 0' FSL, NCT 330' FWL COMPL. INT. E2 9-8N-4W NCT 0' FNL, NCT 165' FSL, NCT 330' FWL OF E2 OF SEC. 9 NO OP. NAMED REC 4/22/2019 (NORRIS)
SPACING - 594544	4/1/2019 - G58 - (640)(IRR UNIT) E2 4-8N-4W & W2 3-8N-4W VAC 175579 HNTN (E2 4-8N-4W), OTHERS VAC 207975 HNTN, OTHERS EXT 588047 MSSP, WDFD, HNTN, OTHERS EXT OTHER
SPACING - 652790	4/1/2019 - G58 - NPT TO 594544 TO CORRECT PARAGRAPH 5.1 B TO SP. ORDER 175579
SPACING - 684433	4/1/2019 - 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)

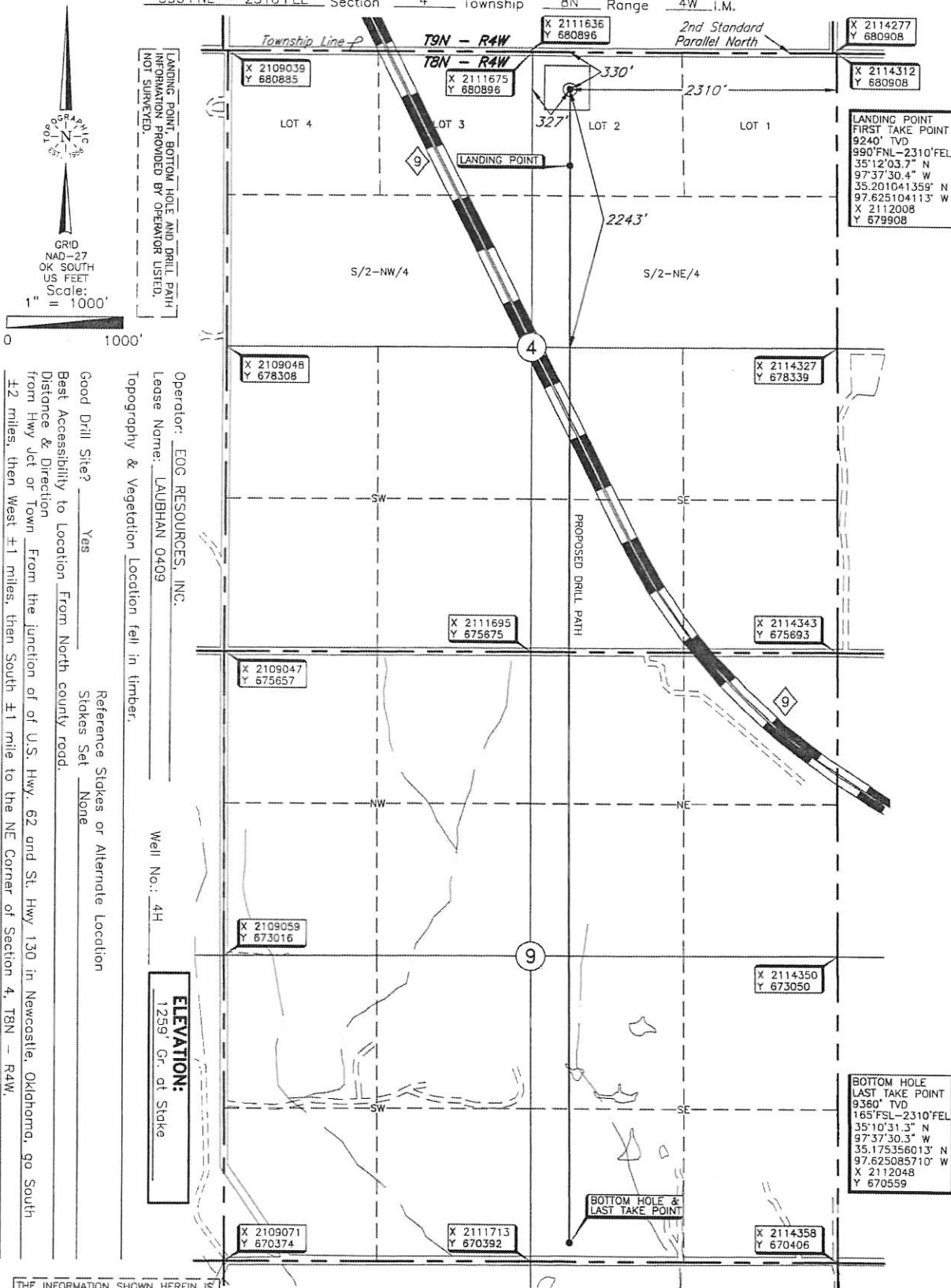
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County, Oklahoma

330'ENL - 2310'FEL Section 4 Township 8N Range 4W I.M.



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: 35.202854834° N
 LONG: 97.625109205° W
 STATE PLANE
 COORDINATES (US FEET):
 ZONE: OK SOUTH
 X: 2112004
 Y: 680568

Project # 124235C Date of Drawing: Feb. 26, 2019
Date Staked: Feb. 22, 2019

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.

Thorne J. Hurrell
Oklahoma Lic. No. 1433

