API NUMBER: 045 23761 Α

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

Approval Date: 08/14/2018 02/14/2019 Expiration Date:

Horizontal Hole Oil & Gas

Amend reason: OCC CORRECTION FOR WELL NUMBER

AMEND PERMIT TO DRILL

WELL LOCATION:	Sec: 19 Twp: 18N Rge:	24W County: ELLI	S			
SPOT LOCATION:	SE NW NW NE	FEET FROM QUARTER: FROM	NORTH FROM	EAST		
		SECTION LINES:	450	2235		
Lease Name: E	BROWN 18	Well No:	3H		Well will be 450 f	eet from nearest unit or lease boundary
Operator Name:	EOG RESOURCES INC		Telephone:	4052463212	OTC/OC	CC Number: 16231 0

EOG RESOURCES INC 3817 NW EXPRESSWAY STE 500

OKLAHOMA CITY. OK 73112-1483 **BRENDA AND GEORGE GIFFIN** 14078 W 146TH ST SOUTH

SAPULPA OK 74066

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

	Name	Depth	Name	Depth
1	MARMATON	9300	6	
2			7	
3			8	
4			9	
5			10	
Spacing Orders: 586080		Location Exception Orders:		Increased Density Orders:
Pending CD Nu	mbers: 201805094			Special Orders:

Pending CD Numbers: 201805094

> 201805095 201805097

Total Depth: 15425 Ground Elevation: 2289 Surface Casing: 1500 Depth to base of Treatable Water-Bearing FM: 530

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: 8000 Average: 5000

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?

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: CLOUD CHIEF Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 18-34642 E. Haul to Commercial pit facility: Sec. 31 Twn. 12N Rng. 8W Cnty. 17 Order No: 587498

H. SEE MEMO

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: CLOUD CHIEF

HORIZONTAL HOLE 1

Sec. 18 Twp 18N Rge 24W County **ELLIS** NE Spot Location of End Point: N2 NE ΝE Feet From: NORTH 1/4 Section Line: 165 EAST Feet From: 1/4 Section Line: 330

Depth of Deviation: 9000 Radius of Turn: 930

Direction: 15
Total Length: 4963

Measured Total Depth: 15425
True Vertical Depth: 9350
End Point Location from Lease,

Unit, or Property Line: 165

Notes:

Category Description

DEEP SURFACE CASING 7/16/2018 - 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 7/16/2018 - 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; 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 7/16/2018 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 1 -

WBM & CUTTINGS TO BE SOIL FARMED; PIT 2 - OBM TO VENDOR, OBM CUTTINGS TO COMMERCIAL PIT OR LONE MOUNTAIN FACILITY, EPA ID # OKD065438376, 28 & 33-23N-15W,

MAJOR CO

PENDING CD - 201805094 8/14/2018 - G58 - 18-18N-9W

X586080 MRMN 2 WELLS NO OP. NAMED

REC 7/23/2018 (FOREMAN)

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

PENDING CD - 201805095 8/14/2018 - G58 - (I.O.) 18-18N-24W

X586080 MRMN

COMPL. INT. NCT 165' FSL, NCT 165' FNL, NCT 330' FEL

NO OP. NAMED

REC 7/23/2018 (FOREMAN)

PENDING CD - 201805097 8/14/2018 - G58 - (I.O.) 18-18N-9W

X165:10-3-28(C)(2)(B) MRMN (BROWN 18 3H)

MAY BE CLOSER THAN 600' FROM THE BROWN 18 2H WELL

REC 7/23/2018 (FOREMAN)

SPACING - 586080 8/14/2018 - G58 - (640)(HOR) 18-18N-24W

EST MRMN, OTHERS COMPL. INT. NLT 660' FB

(SUPERSEDE NON-PRODUCING, NON-HORIZONTAL SPACING UNITS; COEXIST WITH

PRODUCING, NON-HORIZONTAL SPACING UNITS)

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

13800 WIRELESS WAY, OKLA. CITY, OKLA. 73134 * LOCAL (405) 843-4847 * OUT OF STATE (800) 654-3219

Certificate of Authorization No. 1293 LS ELLIS County, Oklahoma __18N___ Range 045-23761 450'FNL-2235'FEL 19 _ Township _24W_I.M. Section X= 1467694 Y= 384402 X= 1470316 Y= 384371 165' 1465094 384433 construction purposes information BOTTOM HOLE & TAKE POINT 1
165'FNL-330'FEL NAD-27 (US Feet) 36'02'31.4"N 99'47'34.2"W 36.042052602'N 99.792838376'W X= 1469984 Y= 384210 2292 OGR40 LOT 1 WEST -N-557. 1958 MERIDIAN E/2-NW/4 herein GUDE 2481 Ö, 딇 GRID NAD-27 OK NORTH US Feet LOT 2 ð 11 500' 1000 18 1465079 381778 X= 1470295 Y= 381725 Distance Good from Best Accessibility _ease Name: opography & Vegetation nce & Direction Hwy Jct or Tov Drill LOT 3 go South EOG \parallel BROWN E/2-SW/4 RESOURCES ±7.5 ó Town DRILL LANDING POINT 165'FSL-330'FEL NAD-27 (US Feet) 36'01'42.3"N 99'47'33.6"N 36.028421048'N 99.792658022'W X= 1469946 Y= 379247 Location miles, PATH 3 11 Yes LOT 4 From Loc. 11 NC. then 11 fell the From West ⊒. junction X= 1467646 Y= 379101 level North X= 1465064 Y= 379123 ±2 1470275 379080 Reference S Stakes Set miles 2235 grass off. of LOT 1 Sn county ξ pasture Stakes or None the Hwy. road K E/2-NW/4 60 South Cor. 2208 E-V Alternate 으 잌 No:: and LOT 2 Sec. NE-SW S Location #3H 19-T18N-R24W 283 gas 19 ŝ X= 1465049 Y= 376467 pipeline East ELEVATION 2289' LOT 3 今 Arnett, Gr. a. E/2-SW/4118N-T18N-R25W LOT 4 X= 1465034 Y= 373812 1467632 373785 LANDING POINT, BOTTOM HOLE, TAKE POINT 1, AND DRILL PATH INFORMATION PROVIDED BY OPERATOR LISTED, NOT SURVEYED. 2018 Date of Drawing: _ May 30, ESSIONAL Date Staked: May 23, 2018 POUR Invoice # 294305 DATUM: <u>NAD-27</u> LAT: <u>36°01'36.0"N</u> TR was receiver accuracy. LONG: 99°47'56.7"W **CERTIFICATE:** LAT: 36.026677719°N THOMAS L Thomas L. Howell an Oklahoma Licensed Land LONG: 99.799070850°W HOWELL Surveyor and an authorized agent of Topographic Land Surveyors of Oklahoma, do hereby certify to the information shown herein STATE PLANE 1433 This n gathered wit COORDINATES: (US Feet) ZONE: _ OK NORTH LAHOMA 1468038 Thomas - Z.Na X: 378648 Oklahoma Lic. No. _

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA
S WAY, OKLA. CITY, OKLA. 73134 * LOCAL (405) 843-4847 * OUT OF STATE (800) 654-3219
Certificate of Authorization No. 1293 LS 13800 WIRELESS WAY, OKLA. CITY, County, Oklahoma __18N___ Range ELLIS 24W_I.M. 19 Section Township information shown herein is construction purposes ONLY. GRID NAD-27 OK NORTH US Feet o 500 1000 18 1465079 381778 Best from Topography & Vegetation Distance Good Lease Name: Operator: Accessibility Hwy Drill LOT 90 80 & Direction Site? South EOG RESOURCES ±7.5 lown to Location miles, 18 Yes From Loc. INC. then fell the From West Ξ. junction of North level X= 1467646 Y= 379101 Reference Stakes or None miles grass off SN county Set || pasture Hwy. the road 60 South of Cor E-W Well Alternate 으 No.: and LOT 2 Sec. NE-SW SN Location #3H 19-T18N-R24W 283 gas Ś pipeline. East ELEVATION: of Arnett lg. S X= 1465034 Y= 373812 LANDING POINT, BOTTOM HOLE, TAKE POINT 1, AND DRILL PATHINFORMATION PROVIDED BY OPERATOR LISTED, NOT SURVEYED. May 30, Mary Co Date of Drawing: _ ESSIONAL DATUM: <u>NAD-27</u> LAT: <u>36°01'36.0"N</u> LONG: <u>99°47'56.7"W</u> Date Staked: May 23, 2018 Invoice # 294305 TR was receiver accuracy. **CERTIFICATE:** LAT: 36.026677719°N THOMAS L I, Thomas L. Howell an Oklahoma Licensed Land Surveyor and an authorized agent of Topographic Land Surveyors of Oklahoma, do hereby certify to the Thomas L. Howell LONG: 99.799070850°W STATE PLANE HOWELL 1433 COORDINATES: (US Feet)

information shown herein

huma

Oklahoma Lic. No.

This gathered with ±1 for

ZONE: _

1468038

378648

OK NORTH

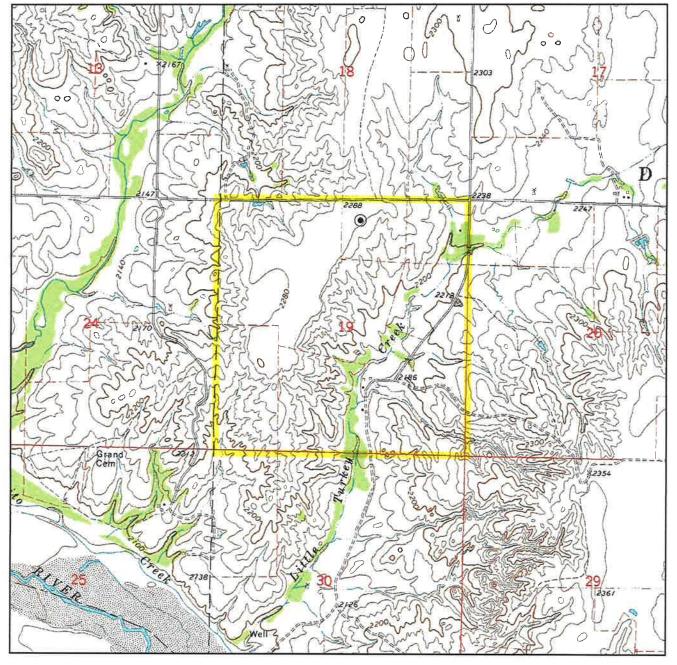
5-31

OKLAHOMA

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

Surveying and Mapping for the Energy Industry 13800 Wireless Way, Oklahoma City, OK 73134 www.topographic.com Telephone Numbers: Local (405) 843-4847 Toll Free (800) 654-3219

LOCATION & ELEVATION VERIFICATION MAP



 Sec.
 19
 Twp.
 18N
 Rng.
 24W
 IM

 County
 ELLIS
 State
 OK

 Operator
 EOG RESOURCES, INC.

 Description
 450'FNL-2235'FEL

 Lease
 BROWN 18 #3H

 Elevation
 2289' Gr. at Stake

Above Background Data from U.S.G.S. Topographic Map Scale: 1"=2000'

Contour Interval 20'

When elevation is shown hereon it is the ground elevation of the location stake. Review this plat and inform us immediately of

Review this plat and inform us immediately of any possible discrepancy.



LAND SURVEYORS OF OKLAHOMA

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

Surveying and Mapping for the Energy Industry 13800 Wireless Way, Oklahoma City, OK 73134 www.topographic.com Telephone Numbers: Local (405) 843-4847 Toll Free (800) 654-3219

VICINITY MAP

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Scale: 1'' = 3 Miles

Sec	19	Twp	18N	Rng	24W	IM
County_		ELLIS		State	OK	

Operator EOG RESOURCES, INC.



