

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

API NUMBER: 087 22095 A

Approval Date: 12/13/2017
Expiration Date: 06/13/2018

Horizontal Hole Oil & Gas

Amend reason: CHANGE SHL TO 275 FNL; UPDATE ORDERS

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 16 Twp: 8N Rge: 4W

County: MCCLAIN

SPOT LOCATION: ☐ NW ☐ NE ☐ NW ☐ NE

FEET FROM QUARTER: FROM NORTH FROM EAST

SECTION LINES: 275 1680

Lease Name: TERRI

Well No: 1621 1H

Well will be 275 feet from nearest unit or lease boundary.

Operator Name: EOG RESOURCES INC

Telephone: 4052463212

OTC/OCC Number: 16231 0

EOG RESOURCES INC
3817 NW EXPRESSWAY STE 500
OKLAHOMA CITY, OK 73112-1483

ROY OLIVER
101 NORTH ROBINSON AVENUE, STE 900
OKLAHOMA CITY OK 73102

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

Name	Depth	Name	Depth
1 WOODFORD	9375	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 601388
671519

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201708219
201708221
201708220
201708426

Special Orders:

Total Depth: 21243

Ground Elevation: 1168

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 430

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)
H. SEE MEMO

PERMIT NO: 17-33595

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 21 Twp 8N Rge 4W County MCCLAIN

Spot Location of End Point: S2 SE SE SE

Feet From: SOUTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 330

Depth of Deviation: 9063

Radius of Turn: 369

Direction: 178

Total Length: 11600

Measured Total Depth: 21243

True Vertical Depth: 9643

End Point Location from Lease,
Unit, or Property Line: 50

Notes:

Category

Description

DEEP SURFACE CASING

12/11/2017 - 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

12/11/2017 - 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

12/11/2017 - 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, CUTTINGS HAULED TO DEQ APPROVED FACILITY - SOUTHERN PLAINS LANDFILL (GRADY) - 3526013

PENDING CD - 201708219

12/12/2017 - G60 - (E.O.) 21 & 16-8N-4W
EST MULTIUNIT HORIZONTAL WELL
X201704802 WDFD (21-8N-4W)
X601388 WDFD (16-8N-4W)
50% 21-8N-4W
50% 26-8N-4W
NO OP. NAMED
REC. 12/12/17 (NORRIS)

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

087 22095 TERRI 1621 1H

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 - 201708220	12/12/2017 - G60 - (E.O.) 21 & 16-8N-4W X201704802 WDFD (21-8N-4W) X601388 WDFD (16-8N-4W) COMPL. INT. (21-8N-4W) NCT 165' FSL, NCT 0' FNL, NCT 330' FEL COMP. INT. (16-8N-4W) NCT 0' FSL, NCT 165' FNL, NCT 330' FEL EOG RESOURCES, INC. REC. 12/12/17 (NORRIS)
PENDING CD - 201708221	12/12/2017 - G60 - (E.O.) 16-8N-4W X601388 WDFD 2 WELLS NO OP. NAMED REC. 1/2/18 (MILLER)
PENDING CD - 201708426	12/13/2017 - G60 - 21-8N-4W X671519 WDFD 1 WELL NO OP. NAMED REC. 1/8/18 (MILLER)
SPACING - 601388	12/12/2017 - G60 - (640) 16-8N-4W VAC OTHERS EXT 588047 WDFD, OTHERS
SPACING - 671519	12/29/2017 - G60 - (640)(HOR) 21-8N-4W EST 663347 WDFD, OTHER COMPL. INT. NCT 165' FNL/FSL AND NCT 330' FEL/FWL (COEXIST WITH SP. ORDER 628255 MSSP) ** **S/B SP. ORDER 628255 FOR BOTH THE MSSP AND THE WDFD; NPT PREPARED AND SENT TO OCC; APPROVED PER TECHNICAL DEPARTMENT

3508722095

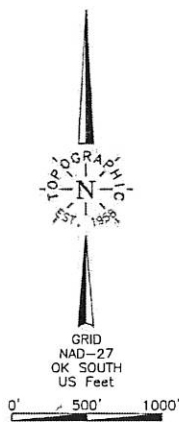
TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

6709 NORTH CLASSEN BLVD., OKLA. CITY, OKLA. 73116 • LOCAL (405) 843-4847 • OUT OF STATE (800) 654-3219
Certificate of Authorization No. 1293 LS

MCCLAIN

County, Oklahoma

275' FNL - 1680' FEL Section 16 Township 8N Range 4W I.M.

X=2114358
Y=670406NOTE:
The information shown herein is for construction purposes ONLY.

Operator: EOG RESOURCES, INC.
Lease Name: TERRI 1621
Topography & Vegetation: Loc. fell on existing pad
Good Drill Site? Yes
Reference Stakes or Alternate Location: Stakes Set None
Best Accessibility to Location: From North off county road
Distance & Direction from Hwy Jet or Town: From Jct. St. Hwy. 9 East and US Hwy. 277, go ±0.5 mi. S-SW on St. Hwy. 9-US Hwy. 277, then ±1.0 mi. West on county road to the NE Cor. of Sec. 16-T8N-R4W

LANDING POINT TAKE POINT 1 BOTTOM HOLE AND DRILL PATH
INFORMATION PROVIDED BY OPERATOR LISTED, NOT SURVEYED.X=2109075
Y=667741X=2109082
Y=668093X=2109096
Y=668257X=2109094
Y=669316X=2111713
Y=670392

LANDING POINT
165' FNL-330' FEL
NAD-27 (US Feet)
35°10'28.0"N
97°37'06.5"W
35.174456503°N
97.618461686°W
X= 2114029
Y= 670239

X=2111730
Y=665113

TAKE POINT 1
165' FNL-330' FEL
NAD-27 (US Feet)
35°08'46.8"N
97°37'06.5"W
35.146330408°N
97.618483539°W
X= 2114061
Y= 660002

BOTTOM HOLE
50' FNL-330' FEL
NAD-27 (US Feet)
35°08'45.7"N
97°37'06.5"W
35.146014449°N
97.618484389°W
X= 2114061
Y= 659887

X=2111742
Y=659827X=2114385
Y=667288X=2114374
Y=665177X=2114387
Y=662481X=2114391
Y=659838

PROPOSED DRILL PATH

TAKE POINT 1

BOTTOM HOLE

Date of Drawing: Dec. 13, 2017

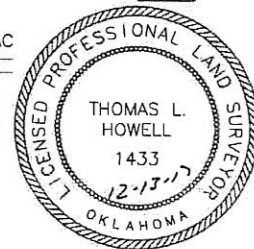
Invoice # 285619 Date Staked: Dec. 12, 2017

AC

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



DATUM: NAD-27
LAT: 35°10'26.9"N
LONG: 97°37'22.7"W
LAT: 35.174149232° N
LONG: 97.622978998° W
STATE PLANE
COORDINATES: (US Feet)
ZONE: OK SOUTH
X: 2112679
Y: 670122