

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

API NUMBER: 087 22092

Approval Date: 11/30/2017

Expiration Date: 05/30/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 17 Twp: 7N Rge: 4W

County: MCCLAIN

SPOT LOCATION: ☐ SE ☐ NE ☐ NE ☐ NW

FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 575 2400

Lease Name: STURGELL

Well No: 1720 1H

Well will be 575 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

KENNETH L. AND BECKY ANN STURGELL
1676 SOUTH MAIN AVENUE
GOLDSBY OK 73093

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	10310	6	
2	WOODFORD	10425	7	
3	HUNTON	10545	8	
4			9	
5			10	

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201706505
201706506
201706503
201706504

Special Orders:

Total Depth: 21271

Ground Elevation: 1262

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 420

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: Yes

PIT 1 INFORMATION

Type of Pit System: ON SITE

Type of Mud System: AIR

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: 4

Liner not required for Category: 4

Pit Location is BED AQUIFER

Pit Location Formation: DUNCAN

Mud System Change to Water-Based or Oil-Based Mud Requires an Amended Intent (Form 1000).

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

D. One time land application -- (REQUIRES PERMIT)

PERMIT NO: 17-33391

H. SEE MEMO

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: 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

PIT 3 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 20 Twp 7N Rge 4W County MCCLAIN

Spot Location of End Point: S2 S2 SW SW

Feet From: SOUTH 1/4 Section Line: 50

Feet From: WEST 1/4 Section Line: 660

Depth of Deviation: 10147

Radius of Turn: 369

Direction: 185

Total Length: 10544

Measured Total Depth: 21271

True Vertical Depth: 10727

End Point Location from Lease,

Unit, or Property Line: 50

Notes:

Category

Description

DEEP SURFACE CASING

11/16/2017 - 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

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087 22092 STURGELL 1720 1H

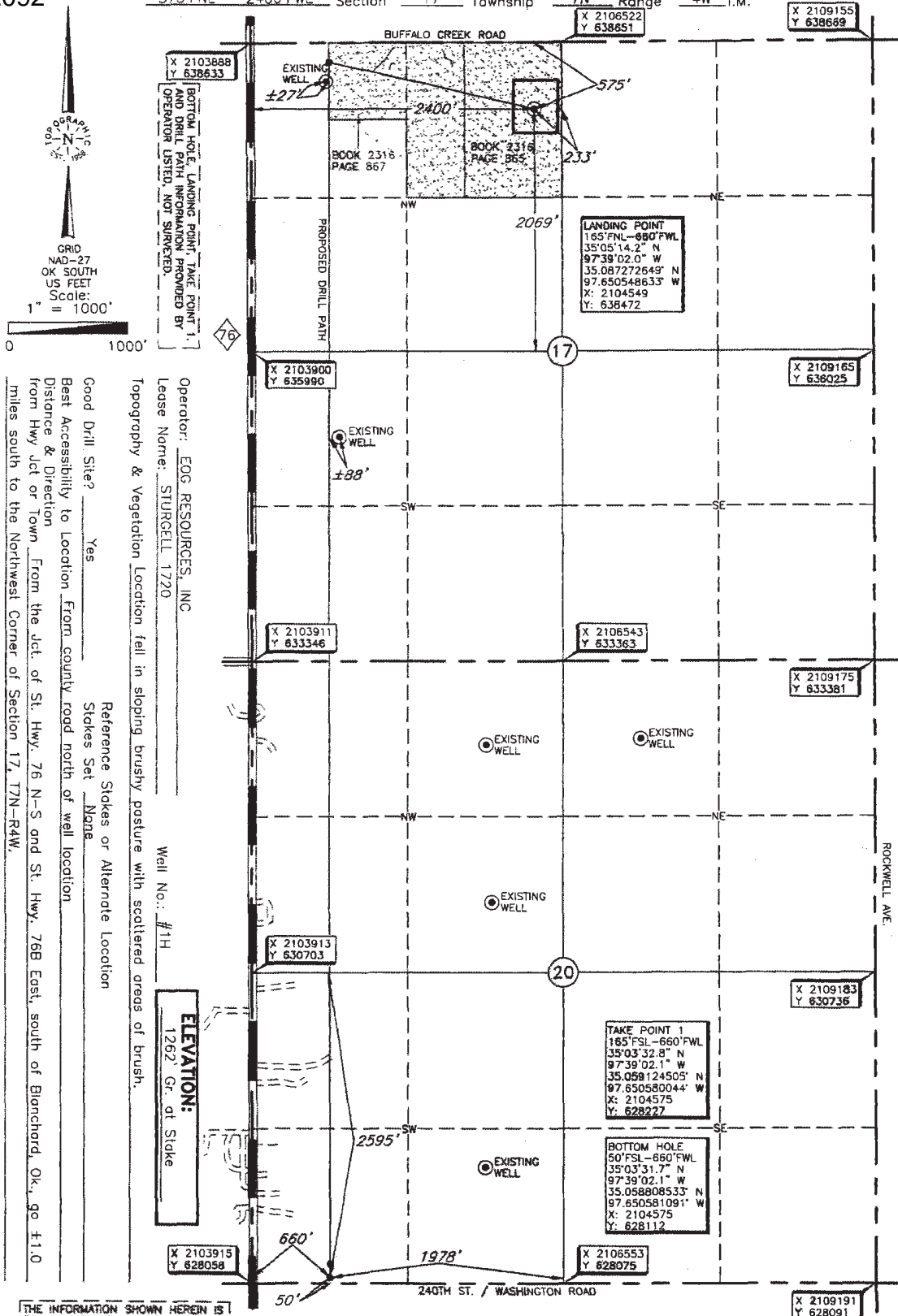
Category	Description
HYDRAULIC FRACTURING	<p>11/16/2017 - G71 - OCC 165:10-3-10 REQUIRES:</p> <p>1) PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE;</p> <p>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,</p> <p>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</p>
MEMO	<p>11/16/2017 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 1 - WBM & CUTTINGS TO BE SOIL FARMED (17-32100), PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS HAULED TO DEQ APPROVED FACILITY - SOUTHERN PLAINS LANDFILL (GRADY) – 3526013</p>
PENDING CD - 201706504	<p>11/30/2017 - G60 - (640) 20-7N-4W EXT 635145 MSSP, WDFD, HNTN COMPL. INT. (MSSP, HNTN) NCT 660' FB COMPL. INT. (WDFD) NCT 165' FNL/FSL, NCT 330' FEL/FWL (COEXIST WITH SP. ORDER # 100960/110671/112492 MSRH S2 NE4 AND SP. ORDER 327983 HNTN NW4) REC. 10/17/17 (MINMIER)</p>
PENDING CD - 201706503	<p>11/29/2017 - G60 - (640)(HOR) 17-7N-4W EXT 635145 MSSP, WDFD, HNTN COMPL. INT. (MSSP, HNTN) NCT 660' FB COMPL. INT. (WDFD) NCT 165' FNL/FSL, NCT 330' FEL/FWL REC. 10/17/17 (MINMIER)</p>
PENDING CD - 201706505	<p>11/30/2017 - G60 - (I.O.) 17 & 20-7N-4W EST MULTIUNIT HORIZONTAL WELL X201706503 MSSP, WDFD, HNTN (17-7N-4W) X201706504 MSSP, WDFD, HNTN (20-7N-4W) 50% 17 -7N-4W 50% 20-7N-4W NO OP. NAMED REC. 10/17/17 (MINMIER)</p>
PENDING CD - 201706506	<p>11/30/2017 - G60 - (I.O.) 17 & 20-7N-4W X201706503 MSSP, WDFD, HNTN (17-7N-4W) X201706504 MSSP, WDFD, HNTN (20-7N-4W) COMPL. INT. (17-7N-4W) NCT 165' FNL, NCT 0' FSL, NCT 330' FWL COMPL. INT. (20-7N-4W) NCT 0' FNL, NCT 165' FSL, NCT 330' FWL NO OP. NAMED REC. 10/17/17 (MINMIER)</p>

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3508722092



Operator: EOG RESOURCES, INC.
Lease Name: STURCELL 1720
Well No.: #1H
ELEVATION: 1262' Gr. at Stake

Good Drill Site? Yes
Best Accessibility to Location From county road north of well location
Distance & Direction from Hwy Jct or Town From the Jct. of St. Hwy. 76 N-S and St. Hwy. 76E East, south of Blanchard, Ok., go ±1.0 miles south to the Northwest Corner of Section 17, 77N-R4W.

Topography & Vegetation Location fall in sloping brushy pasture with scattered areas of brush.
Reference Stakes or Alternate Location
Stakes Set Name

THE INFORMATION SHOWN HEREIN IS FOR CONSTRUCTION PURPOSES ONLY

DATUM: NAD-27
LAT: 35° 05' 10.2" N
LONG: 97° 38' 41.0" W
LAT: 35.086162751° N
LONG: 97.644732257° W
STATE PLANE COORDINATES (US FEET):
ZONE: OK SOUTH
X: 2106290
Y: 638074

Revision ☒ B Date of Drawing: Oct. 25, 2017
Invoice # 282980 Date Staked: Oct. 19, 2017 JGW

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

