API NUMBER: 045 23728

Oil & Gas

Horizontal Hole

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

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

PERMIT TO DRILL

WELL LOCATION:	Sec:	16	Twp:	18N	Rge:	24W	County:	ELLIS
	$\overline{}$					_		

SPOT LOCATION: SW SE SE FEET FROM QUARTER: FROM SOUTH FROM EAST SECTION LINES: 281 1170

Lease Name: WILLA Well No: 21 2H Well will be 281 feet from nearest unit or lease boundary.

Operator EOG RESOURCES INC Telephone: 4052463212 OTC/OCC Number: 16231 0

EOG RESOURCES INC 3817 NW EXPRESSWAY STE 500

OKLAHOMA CITY, OK 73112-1483

JUDY ANN JOHNSON

P.O. BOX 511

ARNETT OK 73832

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

	Name	Depth	Name	Depth
1	MARMATON	9250 6		
2		7		
3		8		
4		9		
5		1	0	
Spacing Orders:	580287	Location Exception Orders:		Increased Density Orders:

Pending CD Numbers: 201708712 Special Orders:

201708711

Total Depth: 15000 Ground Elevation: 2369 Surface Casing: 1500 Depth to base of Treatable Water-Bearing FM: 660

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: 100000 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? N

Pit is located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C
Pit Location is AP/TE DEPOSIT
Pit Location Formation: TERRACE

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 18-33685

E. Haul to Commercial pit facility: Sec. 21 Twn. 14N Rng. 21W Cnty. 129 Order No: 376462

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: 100000

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 AP/TE DEPOSIT
Pit Location Formation: TERRACE

HORIZONTAL HOLE 1

Sec. 21 Twp 18N Rge 24W County **ELLIS** SE Spot Location of End Point: S2 S2 SE Feet From: SOUTH 1/4 Section Line: 165 EAST Feet From: 1/4 Section Line: 660

Depth of Deviation: 8838 Radius of Turn: 750 Direction: 175

Total Length: 4984

Measured Total Depth: 15000

True Vertical Depth: 9430

End Point Location from Lease,
Unit, or Property Line: 165

Notes:

Category Description

DEEP SURFACE CASING 1/26/2018 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY FOR ANY LOSS

OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON CONDUCTOR OR

SURFACE CASING

HYDRAULIC FRACTURING 1/26/2018 - 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 1/26/2018 - 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 - 201708711 2/2/2018 - G75 - 21-18N-24W

X580287 MRMN 2 WELLS NO OP. NAMED

REC 1-22-2018 (MURER)

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 - 201708712 2/2/2018 - G75 - (I.O.) 21-18N-24W

X580287 MRMN

COMPL. INT. NCT 165' TO NL, NCT 165' TO SL, NCT 660' TO EL

NO OP. NAMED

REC 1-22-2018 (MURER)

2/2/2018 - G75 - (640)(HOR) 21-18N-24W EST MRMN, OTHERS **SPACING - 580287**

POE TO BHL NCT 660 FB

(SUPERSEDE NON-DEVELOPED NON-HORIZONTAL SPACING UNITS; COEXIST WITH

PRODUCING NON-HORIZONTAL SPACING UNITS)

1	DATUM: NAD-27
receit occura	LAT: 36'01'43.2"N
5 5 8	LONG: 99'45'35.2"W
15 F3	LAT: 36.028663208°N
iz o delic	LONG: 99.759788042'W
e E	STATE PLANE
و ≼ ت	COORDINATES: (US Feet)
This ±1 f	ZONE: OK NORTH
5 5	X: 1479666
\8°\$	Y: 379158

Best Acces Distance & from Hwy

the

corner

Section

16, the

T18N

From

Jct.

Hwy

8 and

J.S.

ΨV 283

9 ±7.5

miles

South

9 U.S

±wy.

st Accessibility to Loc tance & Direction m Hwy Jct or Town_

Location

South

off

county

Date of Drawing: January 19, 2018 Revision X 8 January 12, 2018 Invoice # 285814 Date Staked: ...

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

1. Navel Thome Oklahoma Lic. No. 1433

