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

API NUMBER: 015 23270 A

Approval Date: 07/18/2016
Expiration Date: 01/18/2017

Horizontal Hole Oil & Gas

Amend reason: OCC CORRECTION; SURFACE CASING; BHL

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 29 Twp: 11N Rge: 12W County: CADDO

SPOT LOCATION: SE NW NE NW FEET FROM QUARTER: FROM **NORTH** FROM **WEST**
SECTION LINES: **400** **1908**

Lease Name: RUCKMAN **Well No: 2H-20** **Well will be 400 feet from nearest unit or lease boundary.**

Operator Name: **EXCALIBUR RESOURCES LLC** Telephone: 4693172200 OTC/OCC Number: 23349 0

EXCALIBUR RESOURCES LLC
12222 MERIT DR STE 1150
DALLAS, TX 75251-2217

TERESA J DRAKE
8224 WEST 123 STREET
OVERLAND PARK KS 66213

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

	Name	Depth		Name	Depth
1	MARCHAND	9950	6		
2			7		
3			8		
4			9		
5			10		

Spacing Orders: 371787 Location Exception Orders: 649371 Increased Density Orders:

Pending CD Numbers: Special Orders:

Total Depth: 15250 Ground Elevation: 1598 **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: No

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? 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: RUSH SPRINGS

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 16-31379
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: 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: RUSH SPRINGS

HORIZONTAL HOLE 1

Sec 20 Twp 11N Rge 12W County CADDO

Spot Location of End Point: NE NW NE NW

Feet From: NORTH 1/4 Section Line: 165

Feet From: EAST 1/4 Section Line: 700

Depth of Deviation: 9430

Radius of Turn: 573

Direction: 360

Total Length: 4920

Measured Total Depth: 15250

True Vertical Depth: 10000

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

Notes:

Category	Description
DEEP SURFACE CASING	7/15/2016 - 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	7/15/2016 - G71 - OCC 165:10-3-10 REQUIRES: 1) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS BE REPORTED TO FRACFOCUS USING THE FOLLOWING LINK HTTP://FRACFOCUS.ORG/ WITH NOTICE GIVEN 48 HOURS IN ADVANCE OF FRACTURING TO THE LOCAL OCC DISTRICT OFFICE; AND, 2) PRIOR TO COMMENCEMENT OF FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE ALSO GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE.
LOCATION EXCEPTION - 649371	7/15/2016 - G60 - (I.O.) 20-11N-12W X321787 MRCD SHL 165' FSL, 330' FWL ** COMPLT. INT. NCT 165' FSL, NCT 165' FNL, NCT 330' FWL EXCALIBUR RESOURCES, LLC. 2-2-16 **SHL LOCATION ON ITD IS 400' FNL, 1908' FWL 29-11N-12W, WILL BE CORRECTED AT HEARING FOR FINAL ORDER LOCATION EXCEPTION PER OPERATOR
MEMO	7/15/2016 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
SPACING - 371787	7/15/2016 - G60 - (640) 20-11N-12W EXT OTHERS EST OTHERS EXT 112925 MRCD

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