

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

API NUMBER: 051 24115 A

Approval Date: 03/15/2017
Expiration Date: 09/15/2017

Horizontal Hole Oil & Gas

Amend reason: OPERATOR NAME CHANGE

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 03 Twp: 6N Rge: 8W

County: GRADY

SPOT LOCATION: SW SE SW SW

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 245 710

Lease Name: NMU

Well No: 1-3H

Well will be 245 feet from nearest unit or lease boundary.

Operator Name: LIME ROCK RESOURCES III-A LP

Telephone: 7132929535

OTC/OCC Number: 23577 0

LIME ROCK RESOURCES III-A LP
1111 BAGBY ST STE 4600
HOUSTON, TX 77002-2559

MARY J DUNKIN TRUSTEE
2577 COUNTY STREET 2760
CHICKASHA OK 73018

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

	Name	Depth	Name	Depth
1	MARCHAND	10572	6	
2			7	
3			8	
4			9	
5			10	

Spacing Orders: 103387
100904

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 16500

Ground Elevation: 1254

Surface Casing: 980

Depth to base of Treatable Water-Bearing FM: 730

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: MARLOW

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

PERMIT NO: 17-32269

H. CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST

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.

HORIZONTAL HOLE 1

Sec 34 Twp 7N Rge 8W County GRADY

Spot Location of End Point: SW NE SW SW

Feet From: SOUTH 1/4 Section Line: 800

Feet From: WEST 1/4 Section Line: 710

Depth of Deviation: 10200

Radius of Turn: 296

Direction: 360

Total Length: 5835

Measured Total Depth: 16500

True Vertical Depth: 10810

End Point Location from Lease,
Unit, or Property Line: 710

Notes:

Category	Description
HYDRAULIC FRACTURING	3/9/2017 - 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
SPACING - 100904	3/14/2017 - G60 - (UNIT) 3-6N-8W & 34-7N-8W EST NORGE MARCHAND UNIT
SPACING - 103387	3/14/2017 - G60 - (UNIT) 3-6N-8W & 34-7N-8W CONFIRM 100904 NORGE MARCHAND UNIT

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