

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

API NUMBER: 093 25173

Approval Date: 11/06/2018

Expiration Date: 05/06/2020

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 14 Twp: 21N Rge: 16W

County: MAJOR

SPOT LOCATION: ☐ SE ☐ NE ☐ NW ☐ NE

FEET FROM QUARTER: FROM NORTH FROM EAST

SECTION LINES: 500 1580

Lease Name: CZARINA

Well No: 1-11H

Well will be 500 feet from nearest unit or lease boundary.

Operator Name: RIVIERA OPERATING LLC

Telephone: 2818404234; 4052412

OTC/OCC Number: 22182 0

RIVIERA OPERATING LLC  
600 TRAVIS ST STE 1700  
HOUSTON, TX 77002-3005

PITTMAN RANCH  
P.O. BOX 10  
SEILING OK 73663

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

Name	Depth	Name	Depth
1 MISSISSIPPI LIME	8300	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 246217

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201807780

Special Orders:

Total Depth: 13980

Ground Elevation: 1776

**Surface Casing: 740**

Depth to base of Treatable Water-Bearing FM: 490

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: No

**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: 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: MARLOW

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

PERMIT NO: 18-35785

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: 350000 Average: 250000

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

## HORIZONTAL HOLE 1

Sec 11 Twp 21N Rge 16W County MAJOR

Spot Location of End Point: NE NE NW NE

Feet From: NORTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 1580

Depth of Deviation: 7762

Radius of Turn: 750

Direction: 360

Total Length: 5040

Measured Total Depth: 13980

True Vertical Depth: 8607

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

### Notes:

#### Category

#### Description

BOTTOM-HOLE LOCATION

11/6/2018 - G75 - 11-21N-16W PER REVISED STAKING PLAT

HYDRAULIC FRACTURING

11/2/2018 - 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](http://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](http://FRACFOCUS.ORG)

MEMO

11/2/2018 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 2 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT

PENDING CD - 201807780

11/5/2018 - G75 - (I.O.) 11-21N-16W  
XOTHER  
X246217 MSSLM  
COMPL. INT. NCT 165' FSL, NCT 165' FNL, NCT 330' FEL  
NO OP. NAMED  
REC 10-23-2018 (DENTON)

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.

093 25173 CZARINA 1-11H

Category	Description
SPACING - 246217	11/5/2018 - G75 - (640) 11-21N-16W EST OTHERS EXT 145279 MSSLM, OTHERS

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.

County, Oklahoma

## NOTES

construction purposes ONLY.

TOPOGRAPHIC  
N  
EST. 1958

GRID  
NAD-27  
OK NORTH  
US Feet

0' 500' 1000'

Operator: RIVIERA OPERATING, LLC  
Lease Name: CZARINA

Well No.: 1-11H

## ELEVATIONS:

1776' Gr. at Stake

--- KICK OFF POINT, FIRST TAKE POINT, LAST TAKE POINT, FINAL/TD AND  
--- DRILL PATH INFORMATION PROVIDED BY OPERATOR LISTED, NOT SURVEYED.

AC

Thorne L. Newas  
Oklahoma Lic. No. 1433

This information was gathered with a GPS receiver with  $\pm 1$  foot Horiz./Vert. accuracy.

