

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

API NUMBER: 093 25197

Approval Date: 01/29/2019

Expiration Date: 07/29/2020

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 22 Twp: 21N Rge: 15W

County: MAJOR

SPOT LOCATION: ☐ NW ☐ NE ☐ NW ☐ NE

FEET FROM QUARTER: FROM NORTH FROM EAST

SECTION LINES: 240 1800

Lease Name: SUSAN

Well No: 1-15H

Well will be 240 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

STANLEY V. & NORMA STRECKER  
22120 ASH ROAD  
MORRIS OK 74445

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

	Name	Depth	Name	Depth
1	MISSISSIPPI LIME	8420	6	
2			7	
3			8	
4			9	
5			10	

Spacing Orders: 140290

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201810699  
201810697

Special Orders:

Total Depth: 14004

Ground Elevation: 1746

**Surface Casing: 1500**

Depth to base of Treatable Water-Bearing FM: 570

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: 19-36089

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: MARLOW

HORIZONTAL HOLE 1

Sec 15 Twp 21N Rge 15W County MAJOR

Spot Location of End Point: NW NE NW NE

Feet From: NORTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 1979

Depth of Deviation: 8037

Radius of Turn: 580

Direction: 359

Total Length: 5056

Measured Total Depth: 14004

True Vertical Depth: 8607

End Point Location from Lease,  
Unit, or Property Line: 0

Notes:

Category

Description

DEEP SURFACE CASING

1/17/2019 - 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

1/17/2019 - 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

1/17/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201810697

1/29/2019 - G56 - 15-21N-15W  
X140290 MSSLM  
1 WELL  
NO OP NAMED  
REC 1/22/2019 (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 25197 SUSAN 1-15H

Category	Description
PENDING CD - 201810699	1/29/2019 - G56 - (E.O.) 15-21N-15W X140290 MSSLM COMPL INT NCT 165' FNL, NCT 165' FSL, NCT 330' FEL NO OP NAMED REC 1/22/2019 (DENTON)
SPACING - 140290	1/29/2019 - G56 - (640) 15-21N-15W EXT OTHER EXT 132667 MSSLM

# TOPOGRAPHIC LAND SURVEYS OF OKLAHOMA

13800 Wireless Way, Okla. City, OK. 73134 \* LOCAL (405) 843-4847 \* OUT OF STATE (800) 654-3219  
 Certificate of Authorization No. 1293 LS

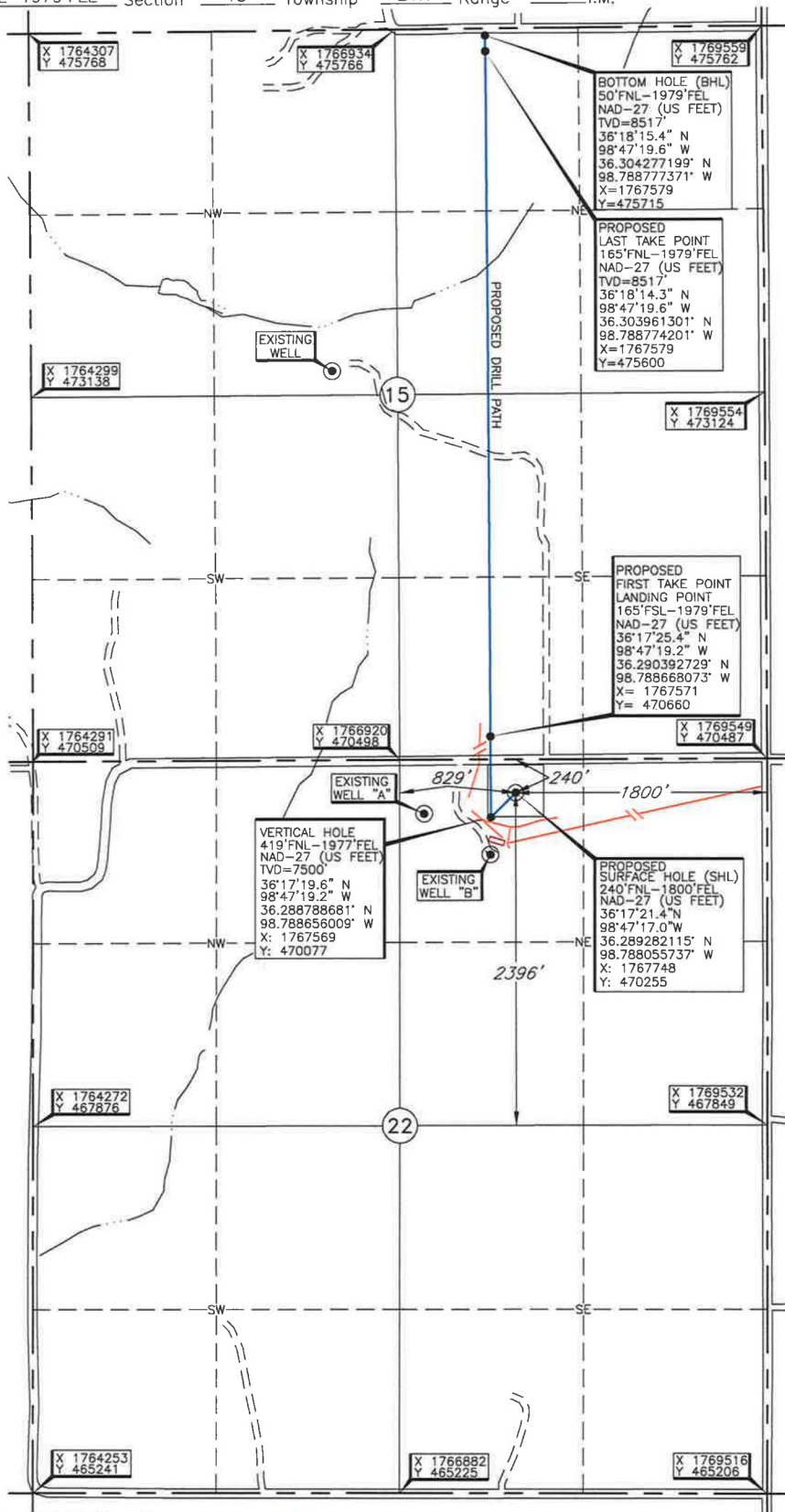
MAJOR

County, Oklahoma

SHL: 240'FNL-1800'FEL Section 22 Township 21N Range 15W I.M.  
 BHL: 50'FNL-1979'FEL Section 15 Township 21N Range 15W I.M.



Operator: RIVERA OPERATING, LLC  
 Lease Name: SUSAN  
 Topography & Vegetation Loc. fell on sloping pasture; between multiple pipelines  
 Good Drill Site? Yes  
 Best Accessibility to Location From North off county road  
 Distance & Direction From US Hwy. 60 at Chester, OK, go ±8.0 mi. East on US Hwy. 60 to Orion, OK,  
 go ±5.0 mi. North to the NE Cor. of Sec. 22-121N-R15W  
 Well No.: 1-15H  
 ELEVATION: 1746' Gr. at Stake



VERTICAL HOLE, FIRST TAKE POINT, LAST TAKE POINT, BOTTOM HOLE AND DRILL PATH INFORMATION PROVIDED BY OPERATOR LISTED, NOT SURVEYED.

Revision ☒ A

Date of Drawing: Jan. 11, 2019

Date Staked: Jan. 09, 2019

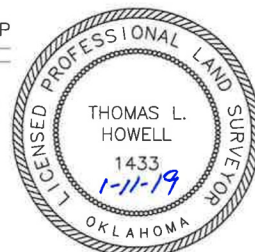
JP

Invoice # 311066

## 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



DATUM: NAD-27  
 LAT: 36°17'21.4" N  
 LONG: 98°47'17.0" W  
 LAT: 36.289282115° N  
 LONG: 98.788055737° W  
 STATE PLANE  
 COORDINATES: (US Feet)  
 ZONE: OK NORTH  
 X: 1767748  
 Y: 470255