

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

API NUMBER: 093 25212

Approval Date: 03/26/2019

Expiration Date: 09/26/2020

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 18 Twp: 20N Rge: 14W

County: MAJOR

SPOT LOCATION:

FEET FROM QUARTER: FROM NORTH FROM EAST

SECTION LINES: 700 990

Lease Name: T-BONE

Well No: 1-7H

Well will be 700 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

RUTHANNE SHEREE MILLER
208 VONA DRIVE
FAIRVIEW OK 73737

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

	Name	Depth	Name	Depth
1	MISSISSIPPI SOLID	8700	6	
2			7	
3			8	
4			9	
5			10	

Spacing Orders: 150399

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201901030
201901029

Special Orders:

Total Depth: 14308

Ground Elevation: 1783

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

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 AP/TE DEPOSIT

Pit Location Formation: TERRACE

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

PERMIT NO: 19-36348

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 AP/TE DEPOSIT

Pit Location Formation: TERRACE

HORIZONTAL HOLE 1

Sec 07 Twp 20N Rge 14W County MAJOR

Spot Location of End Point: N2 N2 NE NE

Feet From: NORTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 660

Depth of Deviation: 8358

Radius of Turn: 578

Direction: 5

Total Length: 5042

Measured Total Depth: 14308

True Vertical Depth: 8915

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

Notes:

Category

Description

DEEP SURFACE CASING

3/13/2019 - 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

3/13/2019 - 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; 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

INTERMEDIATE CASING

3/13/2019 - G71 - DUE TO THE KNOWN POTENTIAL RISK OF ENCOUNTERING AN OVER-PRESSURED ZONE IN THE MORROW SERIES IN THIS AREA, THE TECHNICAL MANAGER RECOMMENDS SETTING AN INTERMEDIATE STRING OF CASING IMMEDIATELY ABOVE THE MORROW SERIES

MEMO

3/13/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

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 25212 T-BONE 1-7H

Category	Description
PENDING CD - 201901029	3/26/2019 - G56 - 7-20N-14W X150399 MSSSD, OTHER 1 WELL NO OP NAMED HEARING 4/2/2019
PENDING CD - 201901030	3/26/2019 - G56 - (I.O.) 7-20N-14W X150399 MSSSD, OTHER X165:10-3-28(C)(2)(B) MSSSD MAY BE CLOSER THAN 600' TO KELLY 1-7 WELL COMPL INT NCT 165' FNL, NCT 165' FSL, NCT 330' FEL NO OP NAMED REC 3/12/2019 (P. PORTER)
SPACING - 150399	3/26/2019 - G56 - (640) 7-20N-14W EXT OTHERS EXT 126547/144522 MSSSD

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

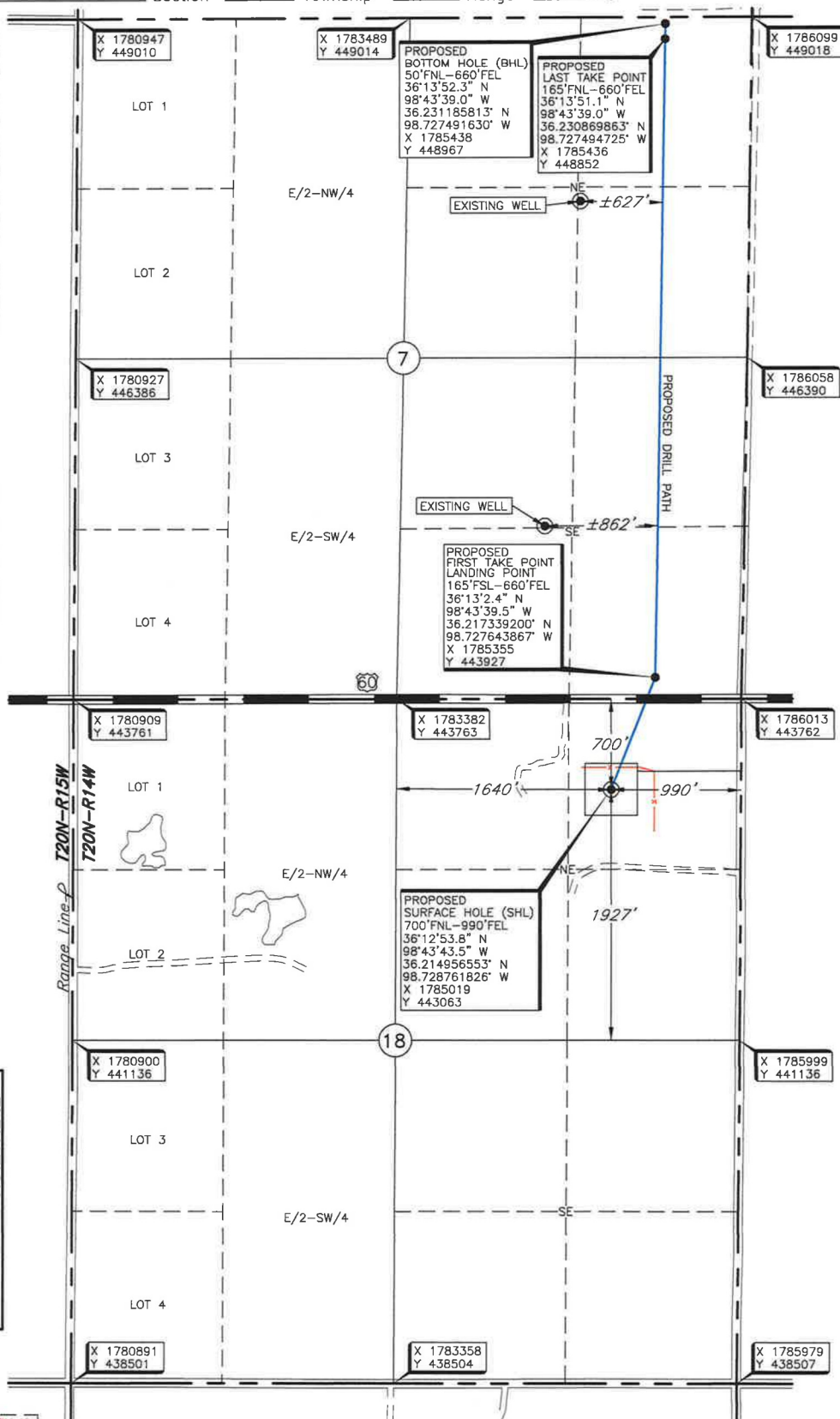
13800 Wireless Way, Okla. City, OK. 73134 * LOCAL (405) 843-4847 * OUT OF STATE (800) 654-3219
Certificate of Authorization No. 1293 LS

MAJOR

County, Oklahoma

SHL: 700'FNL-990'FEL Section 18 Township 20N Range 14W I.M.
BHL: 50'FNL-660'FEL Section 7 Township 20N Range 14W I.M.

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



Operator: RIVERA OPERATING, LLC
 Lease Name: T-BONE
 Topography & Vegetation: Location fell in heavy timber.
 Good Drill Site? Yes
 Best Accessibility to Location: From the North off US Hwy 60.
 Distance & Direction: From Cedar Springs, Oklahoma, go West ± 8 miles on US Hwy 60 to the Northeast corner of Section 18, T20N-R14W.
 Reference Stakes or Alternate Location: Stakes Set None
 Well No.: 1-7H
 ELEVATION: 1783' Cr. at Stake

THE INFORMATION SHOWN HEREIN IS FOR CONSTRUCTION PURPOSES ONLY

DATUM: NAD-27
 LAT: 36°12'53.8"N
 LONG: 98°43'43.5"W
 LAT: 36.214956553° N
 LONG: 98.728761826° W
 STATE PLANE
 COORDINATES (US FEET):
 ZONE: OK NORTH
 X: 1785019
 Y: 443063

Invoice # 311276 Date of Drawing: Jan. 24, 2019
 Date Staked: Jan. 18, 2019 KH

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

