

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

API NUMBER: 093 25174

Approval Date: 11/07/2018

Expiration Date: 05/07/2020

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 16 Twp: 21N Rge: 15W

County: MAJOR

SPOT LOCATION: ☐ SW ☐ NE ☐ NW ☐ NW

FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 600 880

Lease Name: ELAINE

Well No: 1-9H

Well will be 600 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

CAROLYN V. HOUK
419 N. 9TH AVENUE
FAIRVIEW OK 73737

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	8100	6	
2			7	
3			8	
4			9	
5			10	

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201807679
201807681
201809242

Special Orders:

Total Depth: 13850

Ground Elevation: 1597

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 520

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 not located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is NON HSA

Pit Location Formation: DOG CREEK

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

PERMIT NO: 18-35422

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 not located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is NON HSA

Pit Location Formation: DOG CREEK

HORIZONTAL HOLE 1

Sec 09 Twp 21N Rge 15W County MAJOR

Spot Location of End Point: NW NE NW NW

Feet From: NORTH 1/4 Section Line: 50

Feet From: WEST 1/4 Section Line: 839

Depth of Deviation: 7739

Radius of Turn: 750

Direction: 359

Total Length: 4933

Measured Total Depth: 13850

True Vertical Depth: 8235

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

Notes:

Category

Description

DEEP SURFACE CASING

11/2/2018 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY FOR ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON CONDUCTOR OR SURFACE CASING

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; 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

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 - 201807679

11/5/2018 - G75 - (640)(HOR) 9-21N-15W
EST MSSP
POE TO BHL NCT 660' FB
(COEXIST SP. ORDER # 217552/283067 CSTR, MSSLM SW4 & ORDER # 289490 CSTR, MSSLM N2 & SE4)
REC 10-16-2018 (P. PORTER)

This permit does not address the right of entry or settlement of surface damages.

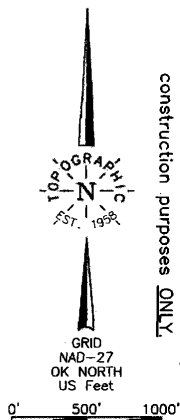
The duration of this permit is SIX MONTHS, except as otherwise provided by Rule 165: 10-3-1.

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.

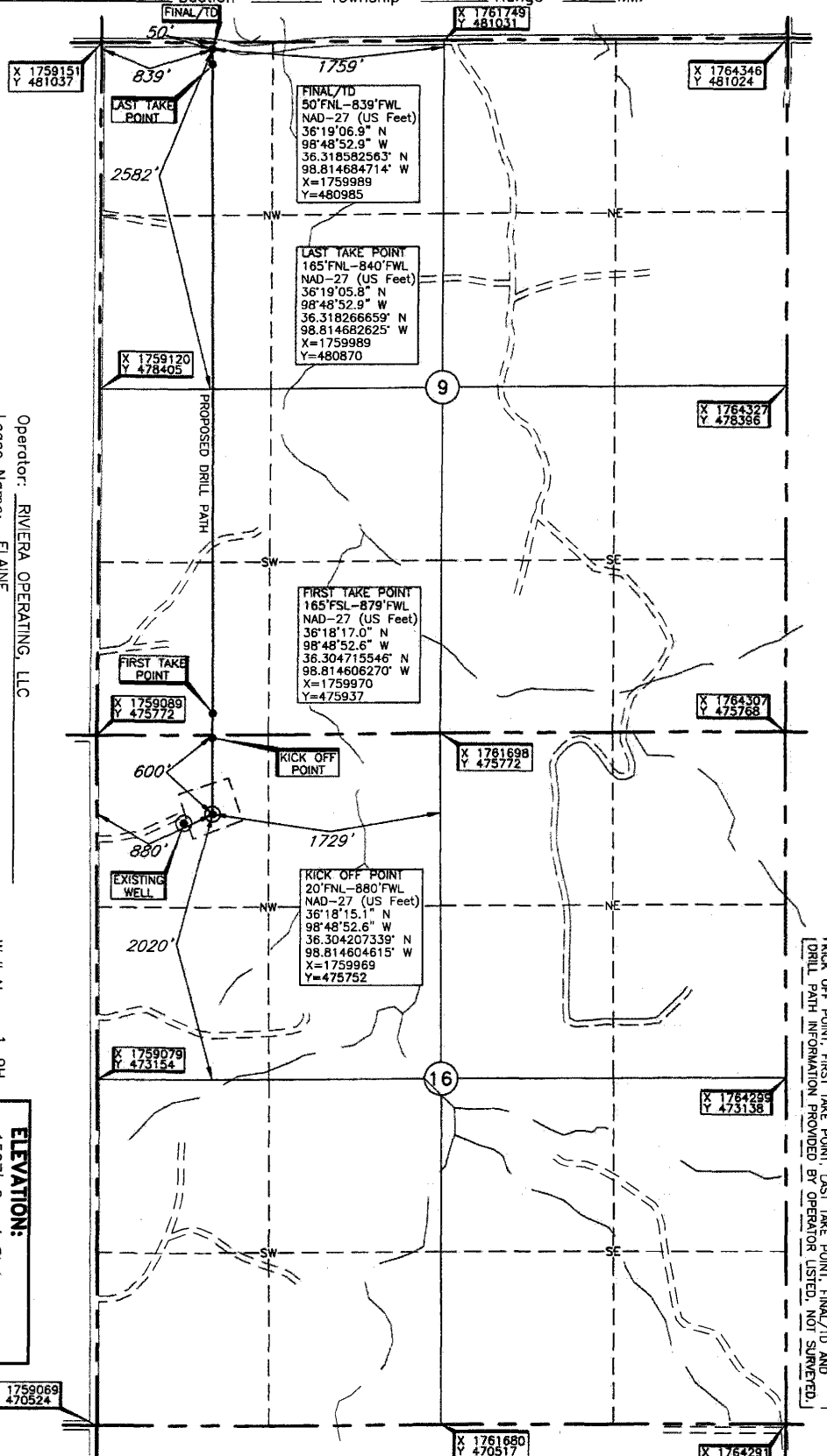
093 25174 ELAINE 1-9H

Category	Description
PENDING CD - 201807681	<p>11/5/2018 - G75 - (I.O.) 9-21N-15W X201807679 MSSP X165:10-3-28(C)(2)(B) MAY BE CLOSER THAN 600' TO HOUK 3-9 (API 093-24064) & HOUK 1-9 (API 093-23002) COMPL. INT. NCT 165' FSL, NCT 165' FNL, NCT 330' FWL NO OP. NAMED REC 10-30-2018 (MILLER)</p>
PENDING CD - 201809242	<p>11/7/2018 - G75 - (E.O.) 9-21N-15W X165:10-3-28(C)(2)(B) MSSP (ELAINE 1-9H) MAY BE CLOSER THAN 600' TO HOUK 2-9 (API 093-23932) RIVIERA OP., LLC HEARING 11-16-2018 (OK'D PER HULLINGER)</p>

SHL 600'FNL - 880'FWL Section 16 Township 21N Range 15W I.M.
BHL 50'FNL - 839'FWL Section 9 Township 21N Range 15W I.M.



NOTE:
The information shown herein is for construction purposes ONLY.



Operator: RIVERA OPERATING, LLC
Lease Name: ELAINE
Topography & Vegetation: Loc. fell in sloped grass pasture, ±231' NE of existing well
Good Drill Site? Yes
Reference Stakes or Alternate Location: Stakes Set
Best Accessibility to Location: From Orion, OK, go ±2.0 mi. West, then ±6.0 mi. North to the NW Cor. of Sec. 16-T21N-R15W
Distance & Direction from Hwy Jct or Town: From Orion, OK, go ±2.0 mi. West, then ±6.0 mi. North to the NW Cor. of Sec. 16-T21N-R15W
Well No.: 1-9H
ELEVATION: 1597' Gr. at Stake

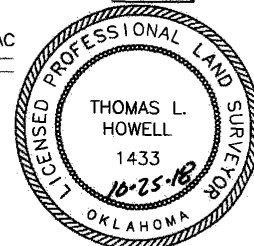
Proposed SHL

Revision ☒ B Date of Drawing: Oct. 24, 2018
Invoice # 300813 Date Staked: Sep. 06, 2018 AC

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°18'09.4"N
LONG: 98°48'52.5"W
LAT: 36.302613313° N
LONG: 98.814596892° W
STATE PLANE
COORDINATES: (US Feet)
ZONE: OK NORTH
X: 1759966
Y: 475172