

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

API NUMBER: 093 25185

Approval Date: 12/10/2018  
Expiration Date: 06/10/2020

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 17 Twp: 21N Rge: 15W County: MAJOR  
SPOT LOCATION:  NW  NW  NE  NE FEET FROM QUARTER: FROM NORTH FROM EAST  
SECTION LINES: 253 994

Lease Name: PUDDY Well No: 1-8H Well will be 253 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

L BEVERLY HOUK C/O JOE C HOUK  
PO BOX 456  
FAIRVIEW OK 73737

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN (LESS CHESTER)	8200	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201807677  
201807678  
201808362

Special Orders:

Total Depth: 13730 Ground Elevation: 1660 **Surface Casing: 1500** Depth to base of Treatable Water-Bearing FM: 510

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: 18-35770

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 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 08 Twp 21N Rge 15W 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: 7770

Radius of Turn: 582

Direction: 5

Total Length: 5046

Measured Total Depth: 13730

True Vertical Depth: 8326

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 OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY 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](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 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201807677

12/7/2018 - G56 - (640)(HOR) 8-21N-15W  
VAC 217552 MSSLM NW4, W2 SE4, E2 SW4  
EST MSNLC  
POE TO BHL NCT 660' FB  
(COEXIST WITH SP # 217552 MSSLM E2 SE4, NE4, W2 SW4)  
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.

Category	Description
PENDING CD - 201807678	12/7/2018 - G56 - (I.O.) 8-21-15W X201807677 MSNLC COMPL INT NCT 165' FNL, NCT 165' FSL, NCT 330' FEL NO OP NAMED REC 10/16/2018 (P. PORTER)
PENDING CD - 201808362	12/7/2018 - G56 - (I.O.) 8-21N-15W X165:10-3-28(C)(2)(B) MSNLC MAY BE CLOSER THAN 600' FROM THE BAER 1-8 AND HOUK 1-8 LINN OPERATING, INC. (NOW RIVIERA OPERATING LLC) REC 11/6/2018(MINMIER)

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.

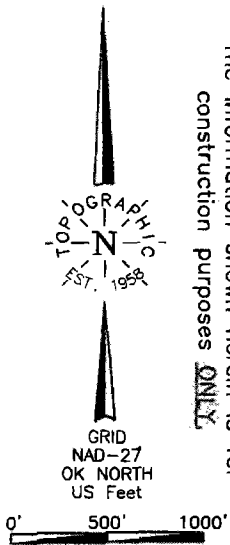
**TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA**

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

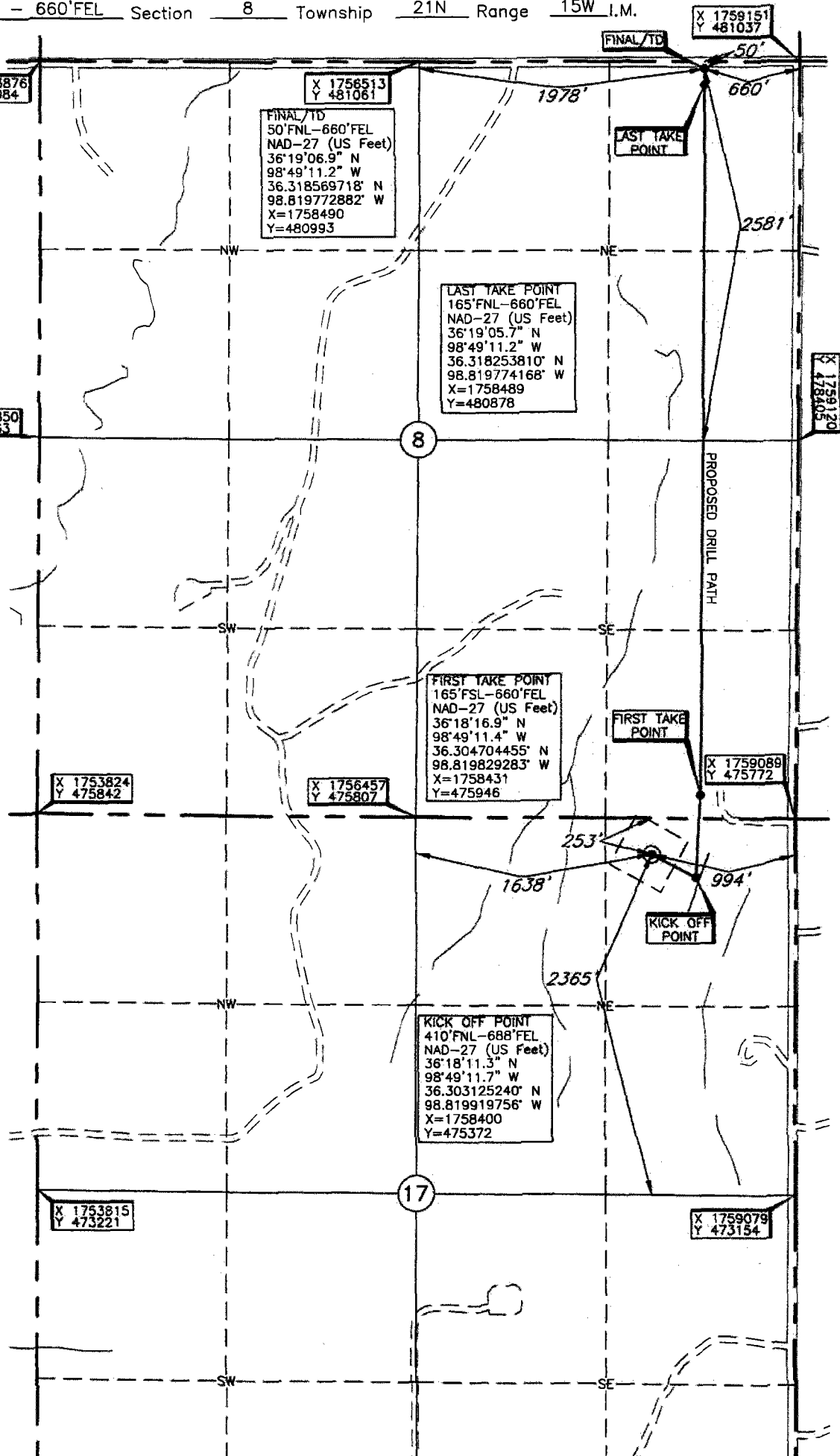
MAJOR

County, Oklahoma

SHL 253'FNL - 994'FEL Section 17 Township 21N Range 15W I.M.  
 BHL 50'FNL - 660'FEL Section 8 Township 21N Range 15W I.M.



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



Operator: RIWERA OPERATING, LLC  
 Lease Name: PUDDY  
 Topography & Vegetation: Loc. fell in sloped gross pasture, possible pipeline in area  
 Well No.: 1-8H  
**ELEVATION:**  
1660' Gr. at Stake

Good Drill Site? Yes  
 Reference Stakes or Alternate Location  
 Stakes Set None

Best Accessibility to Location From East off county road  
 Distance & Direction From Orion, OK, go ±2.0 mi. West, then ±6.0 mi. North to the NE Cor. of Sec. 17-T21N-R15W