

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

API NUMBER: 017 25266

Approval Date: 09/07/2018

Expiration Date: 03/07/2019

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 01 Twp: 11N Rge: 8W

County: CANADIAN

SPOT LOCATION: ☐ SW ☐ NE ☐ NE ☐ NE

FEET FROM QUARTER: FROM NORTH FROM EAST

SECTION LINES: 580 370

Lease Name: HMB 1108

Well No: 1-12-1-MH

Well will be 370 feet from nearest unit or lease boundary.

Operator Name: CAMINO NATURAL RESOURCES LLC

Telephone: 7204052706

OTC/OCC Number: 24097 0

CAMINO NATURAL RESOURCES LLC
1401 17TH ST STE 1000
DENVER, CO 80202-1247

CURTIS BLANC
7650 SOUTH REFORMATORY ROAD
EL RENO OK 73036

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	10281	6	
2			7	
3			8	
4			9	
5			10	

Spacing Orders: 668123
659658

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201804601
201804602

Special Orders:

Total Depth: 21010

Ground Elevation: 1393

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 430

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: 5000 Average: 3000

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: 18-34941
H. CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST

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.

HORIZONTAL HOLE 1

Sec 12 Twp 11N Rge 8W County CANADIAN

Spot Location of End Point: SW SE SE SE

Feet From: SOUTH 1/4 Section Line: 100

Feet From: EAST 1/4 Section Line: 380

Depth of Deviation: 9727

Radius of Turn: 573

Direction: 181

Total Length: 10383

Measured Total Depth: 21010

True Vertical Depth: 10468

End Point Location from Lease,
Unit, or Property Line: 100

Notes:

Category	Description
DEEP SURFACE CASING	9/4/2018 - 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	9/4/2018 - 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
PENDING CD - 201804601	9/7/2018 - G75 - (I.O.) 1 & 12-11N-8W EST MULTIUNIT HORIZONTAL WELL X668123 MSSP 1-11N-8W X659658 MSSP 12-11N-8W 50% 1-11N-8W 50% 12-11N-8W CAMINO NATURAL RESOURCES, LLC REC 7-3-2018 (FOREMAN)
PENDING CD - 201804602	9/7/2018 - G75 - (I.O.) 1 & 12-11N-8W X668123 MSSP 1-11N-8W X659658 MSSP 12-11N-8W COMPL. INT. (1-11N-8W) NCT 165' FNL, NCT 0' FSL, NCT 330' FEL COMPL. INT. (12-11N-8W) NCT 0' FNL, NCT 165' FSL, NCT 330' FEL CAMINO NATURAL RESOURCES, LLC REC 7-3-2018 (FOREMAN)
SPACING - 659658	9/7/2018 - G75 - (640)(HOR) 12-11N-8W EST MSSP, OTHER POE TO BHL NCT 660' FB (COEXIST SP. ORDER # 129232 MSSLM)
SPACING - 668123	9/7/2018 - G75 - (640)(HOR) 1-11N-8W EST MSSP, OTHER COMPL. INT. NLT 660' FB (COEXIST SP. ORDER # 134019 MSSP)

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017 25266 HMB 1108 1-12-1-MH

