

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

API NUMBER: 047 24957

Approval Date: 11/03/2014
Expiration Date: 05/03/2015

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 20 Twp: 20N Rge: 6W

County: GARFIELD

SPOT LOCATION: NW NW NE NW

FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 215 1560

Lease Name: ARLENE

Well No: 17-M2H

Well will be 215 feet from nearest unit or lease boundary.

Operator Name: LONGFELLOW ENERGY LP

Telephone: 9725909885

OTC/OCC Number: 22113 0

LONGFELLOW ENERGY LP
PO BOX 1989
ADDISON, TX 75001-1989

JOHN SIMUNEK
122 W. SUMNER RD.
BISON OK 73270

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

Name	Depth	Name	Depth
1	MISSISSIPPIAN	6	6849
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 621767

Location Exception Orders: 630878

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 11726

Ground Elevation: 1203

Surface Casing: 1000

Depth to base of Treatable Water-Bearing FM: 390

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: Yes

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 located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is BED AQUIFER

Pit Location Formation: SALT PLAINS

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

PERMIT NO: 14-28650

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 17 Twp 20N Rge 6W County GARFIELD

Spot Location of End Point: N2 N2 NE NW

Feet From: NORTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 1980

Depth of Deviation: 6350

Radius of Turn: 271

Direction: 5

Total Length: 4950

Measured Total Depth: 11726

True Vertical Depth: 7200

End Point Location from Lease,
Unit, or Property Line: 165

Notes:

Category	Description
DEEP SURFACE CASING	11/3/2014 - G76 - APPROVED CONTINGENT ON NOTIFYING OCC FIELD STAFF IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING
LOCATION EXCEPTION - 630878	11/3/2014 - G91 - (I.O.) 17-20N-6W X 621767 MSSP SHL 215 FNL, 1560 FWL 20-20N-6W POE NCT 165 FSL, NCT 1980 FWL 17-20N-6W BHL NCT 165 FNL, NCT 1980 FWL 17-20N-6W LONGFELLOW ENERGY, LP. 9-19-2014
SPACING - 621767	11/3/2014 - G91 - (640)(HOR) 17-20N-6W EXT 597250 MSSP, OTHERS POE TO BHL NCT 660' FB (SUPERSEDE NON-DEVELOPED NON-HORIZONTAL SPACING UNITS; COEXIST SP. ORDER # 152191/155445 MSSLM, MGLCS NE4 & SE4, SP. ORDER # 154064/164755 MSSLM NW4, SP. ORDER # 154472 MGLCS, NW4)

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