

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

API NUMBER: 047 24938

Approval Date: 09/26/2014  
Expiration Date: 03/26/2015

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: 240 1550

Lease Name: ARLENE Well No: 20-M2H Well will be 240 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	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 626203  
631007

Location Exception Orders: 630461

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 11620

Ground Elevation: 1186

**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

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

PERMIT NO: 14-27972

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 BED AQUIFER

Pit Location Formation: BISON

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 20 Twp 20N Rge 6W County GARFIELD

Spot Location of End Point: S2 S2 SE SW

Feet From: SOUTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 1980

Depth of Deviation: 6300

Radius of Turn: 800

Direction: 179

Total Length: 4063

Measured Total Depth: 11620

True Vertical Depth: 7100

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

Notes:

Category	Description
DEEP SURFACE CASING	9/26/2014 - G71 - 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 - 630461	9/26/2014 - G91 - (I.O.) 20-20N-6W X 626203 MSSP SHL 240 FNL, 1550 FWL POE NCT 165 FNL, NCT 1980 FWL BHL NCT 165 FSL, NCT 1980 FWL LONGFELLOW ENERGY, LP. 9-11-2014
SPACING - 626203	9/26/2014 - G91 - (640)(HOR) 20-20N-6W EXT 620714 MSSP, OTHERS POE TO BHL NCT 660' FB (COEXIST SP. ORDER # 154064/164755 MSSLM, NE4, 154472 MGLCS, NW4, 155957 MNNG MSSP, NE4, 175103 MGLCS MSSP, SE4)
SPACING - 631077	9/26/2014 - G91 - NPT 626203 TO CORRECT EXT 620714 TO EXT 602714

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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.