

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

API NUMBER: 047 24924

Approval Date: 09/04/2014  
Expiration Date: 03/04/2015

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 27 Twp: 20N Rge: 6W

County: GARFIELD

SPOT LOCATION:  SE  SE  SE  SE

FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 265 325

Lease Name: T-MACK

Well No: 27-M4H

Well will be 265 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

TED MACK  
3722 E. BISON RD.  
BISON OK 73720

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	6622	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 619047

Location Exception Orders: 627691

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 11269

Ground Elevation: 1085

**Surface Casing: 1000**

Depth to base of Treatable Water-Bearing FM: 410

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: 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: KINGMAN

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

PERMIT NO: 14-27993

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 27 Twp 20N Rge 6W County GARFIELD

Spot Location of End Point: NE NW NE NE

Feet From: NORTH 1/4 Section Line: 165

Feet From: EAST 1/4 Section Line: 700

Depth of Deviation: 6000

Radius of Turn: 800

Direction: 359

Total Length: 4012

Measured Total Depth: 11269

True Vertical Depth: 6800

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

Notes:

Category

Description

DEEP SURFACE CASING

9/3/2014 - 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 - 627691

9/3/2014 - G91 - (I.O.) 27-20N-6W  
X 619047 MSSP  
SHL 260 FSL, 327 FEL\*\*  
POE NCT 165 FSL, NCT 700 FEL  
BHL NCT 165 FNL, NCT 700 FEL  
7-10-2014

\*\*S/B SHL 265 FSL, 325 FEL; TO BE CORRECTED IN FINAL ORDER PER OPERATOR\*\*

SPACING - 619047

9/3/2014 - G91 - (640)(HOR) 27-20N-6W  
EXT 597321 MSSP, OTHERS  
POE TO BHL NCT 660' FB  
(SUPERSEDE SP. # 45588/47301 MSSP, N2 & SE4; COEXIST SP. ORDER # 45588/47301 MSSP, SW4, HIXON 27-1)