

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

API NUMBER: 047 24954

Approval Date: 10/23/2014

Expiration Date: 04/23/2015

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 04 Twp: 20N Rge: 5W

County: GARFIELD

SPOT LOCATION: ☐ SW ☐ SE ☐ SE ☐ SE

FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 255 338

Lease Name: HAMM

Well No: 4-M4H

Well will be 255 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

SHERMAN HAMM
3318 GOLDFINCH LANE
ENID OK 73703

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	6153	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 625844

Location Exception Orders: 631127

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 10633

Ground Elevation: 1073

Surface Casing: 1000

Depth to base of Treatable Water-Bearing FM: 290

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 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: FAIRMONT

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

PERMIT NO: 14-28657

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 04 Twp 20N Rge 5W 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: 5550

Radius of Turn: 213

Direction: 358

Total Length: 4748

Measured Total Depth: 10633

True Vertical Depth: 6400

End Point Location from Lease,

Unit, or Property Line: 165

Notes:

Category

Description

DEEP SURFACE CASING

10/23/2014 - 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 - 631127

10/23/2014 - G91 - (I.O.) 4-20N-5W
X 625844 MSSP
SHL 255 FSL, 323 FEL **
POE NCT 150 FSL, NCT 660 FEL
BHL NCT 150 FNL, NCT 660 FEL
LONGFELLOW ENERGY, L.P.
9-25-2014

** SHL TO BE CORRECTED IN FINAL ORDER PER OPERATOR**

SPACING - 625844

10/23/2014 - G91 - (640)(HOR) 4-20N-5W
EXT 623344 MSSP, OTHERS
POE TO BHL NCT 660' FB
(SUPERCEDE NON-DEVELOP NON-HORIZONTAL SPACING UNITS; COEXIST PRODUCING NON-HORIZONTAL (SPACING UNITS & LEASE BASIS))

This permit does not address the right of entry or settlement of surface damages.

047 24954 HAMM 4-M4H

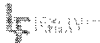
The duration of this permit is SIX MONTHS, except as otherwise provided by Rule 165: 10-3-1.

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.

047-24954

Sec. 4-20N-5W I.M.

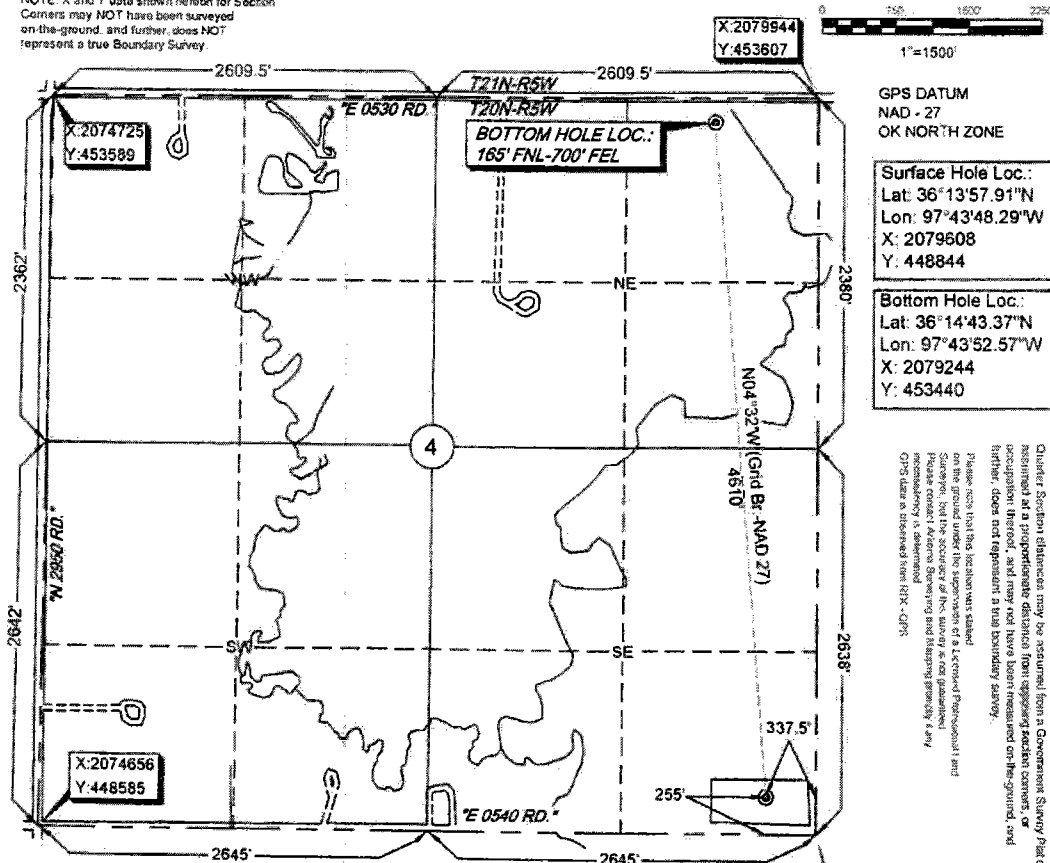


Well Location Plat

Operator: LONGFELLOW ENERGY, LP
 Lease Name and No.: HAMM 4-M4H
 Footage: 255' FSL - 337.5' FEL PAD ELEVATION: 1058' Good Site? YES
 Section: 4 Township: 20N Range: 5W I.M.
 County: Garfield State of Oklahoma
 Alternate Loc.: N/A
 Terrain at Loc.: Stake fell on an existing pad.

Accessibility: From the West.
 Directions: From the Junction of U.S. Highway 81 and State Highway 51 in Hennessey, OK, go 8.5 miles East on Highway 51 then 8 miles North on "NS 295 Road", then East 1.0 mile on "EW 54 Road" to the Southeast Corner of Section 4-20N-5W.

NOTE: X and Y data shown herein for Section Corners may NOT have been surveyed on-the-ground, and further, does NOT represent a true Boundary Survey.



GPS DATUM
 NAD - 27
 OK NORTH ZONE

Surface Hole Loc.:
 Lat: 36°13'57.91"N
 Lon: 97°43'48.29"W
 X: 2079608
 Y: 448844

Bottom Hole Loc.:
 Lat: 36°14'43.37"N
 Lon: 97°43'52.57"W
 X: 2079244
 Y: 453440

Under Section distance may be returned from a Government Survey Plat or measured at a proportionate distance from adjacent section corners or occupation thereof, and may not have been measured on-the-ground, and further, does not represent a true boundary survey.
 Please note that this location was established on the ground under the supervision of a Licensed Professional Land Surveyor, and the accuracy of this survey is not guaranteed. The accuracy of this survey is dependent on the accuracy of the surveying instruments used, and the accuracy of the surveying data is not guaranteed. GPS data is observed from RTK-GPS.

survey and plat by:
 Arkoma Surveying and Mapping, PLLC
 P.O. Box 238 Wilburton, OK 74578
 Ph. 918-465-5711 Fax 918-465-5030

Certificate of Authorization No. 5348
 Expires June 30, 2016

Invoice #4970
 Date Staked: 10/03/14 By: CK
 Date Drawn: 10/09/14 By: RM

Certification:

This is to certify that this Well Location Plat represents the results of a survey made on the ground performed under the supervision of the undersigned.

Stan Drannon 10/9/14
 STAN DRANNON OK LPLS 1672

