

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 A

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

Horizontal Hole Oil & Gas

Amend reason: CHANGE SURFACE CASING FROM 1000' TO 3000'

AMEND 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	6849	6	
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: 3000**

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

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

Approved Method for disposal of Drilling Fluids:

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	11/10/2014 - G76 - APPROVED CONTINGENT ON (1) NOTIFYING OCC FIELD STAFF IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING (2) 2-STAGE CEMENTING TOOL TO BE SET AT 100' BELOW BTW
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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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.

# Well Location Plat

S.H.L. Sec. 20-20N-6W I.M.  
B.H.L. Sec. 17-20N-6W I.M.

047-24957

Operator: LONGFELLOW ENERGY, LP  
Lease Name and No.: ARLENE 17-M2H  
Footage: 215' FNL - 1560' FWL GR. ELEVATION: 1189' Good Site? YES  
Section: 20 Township: 20N Range: 6W I.M.  
County: Garfield State of Oklahoma  
Alternate Loc.: N/A  
Terrain at Loc.: Stake fell in pasture.

Accessibility: From the North.  
Directions: From the City of Enid, OK, from the intersection of U.S. Highway 81 and U.S. Highway 64, go 13.0 miles South on U.S. Highway 81, then go .85 miles East on "EW 56 Road" to the Northwest Corner of Section 20-20N-6W.

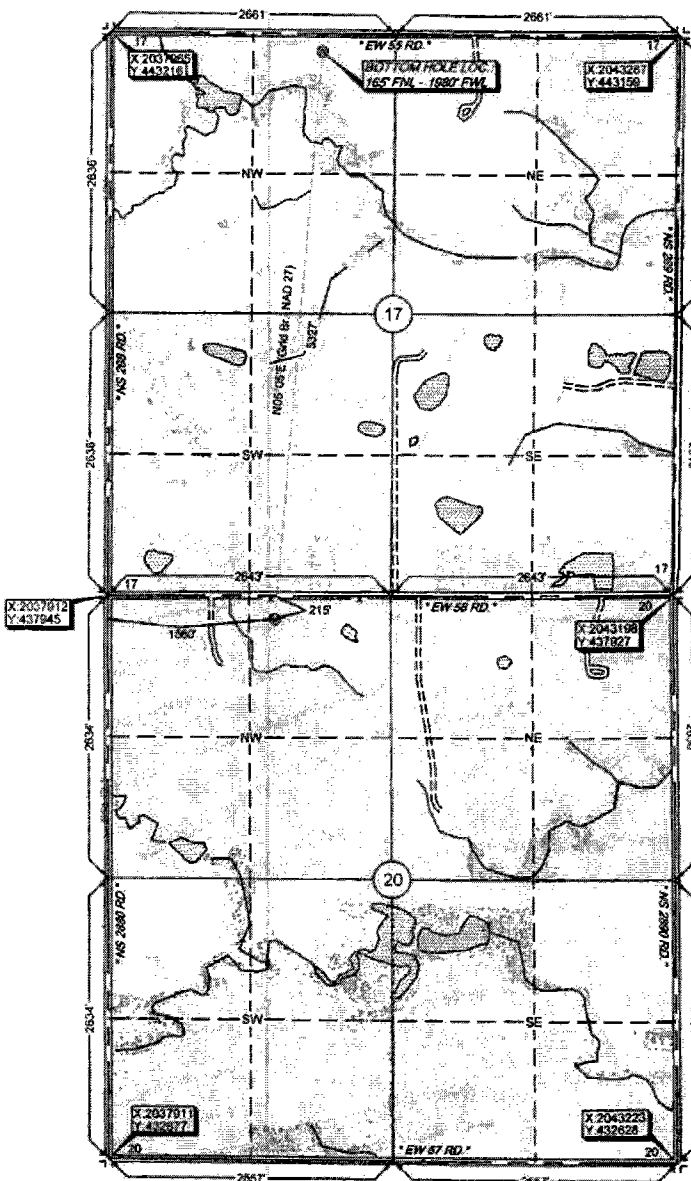


1"=1000'

GPS DATUM  
NAD 83  
OK NORTH ZONE

Surface Hole Loc.:  
Lat: 36°12'08.77"N  
Lon: 97°51'58.38"W  
X: 2039472  
Y: 437724

Bottom Hole Loc.:  
Lat: 36°13'01.23"N  
Lon: 97°51'52.54"W  
X: 2039944  
Y: 443030



Quarter Section distances may be assumed from a Government Survey Plat or assumed as a proportionate distance from opposing section corners, or occupation inhereof, and may not have been measured on-the-ground, and further, does not represent a true boundary survey.

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.

Please note that this location was staked on the ground under the supervision of a Licensed Professional Land Surveyor, but the accuracy of this survey is not guaranteed. Please contact Arkoma Surveying and Mapping promptly if any inconsistency is determined. 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, 2014

Invoice #4608-B  
Date Staked: 05/14/14 By: J.W.  
Date Drawn: 05/20/14 By: E.D.

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* 5/20/14  
STAN DRANNON OK LPLS 1672

