

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

API NUMBER: 047 25147

Approval Date: 05/17/2018

Expiration Date: 11/17/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 33 Twp: 20N Rge: 6W

County: GARFIELD

SPOT LOCATION:

FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 288 350

Lease Name: BETTY

Well No: 33-M1BH

Well will be 288 feet from nearest unit or lease boundary.

Operator Name: LONGFELLOW ENERGY LP

Telephone: 9725909900

OTC/OCC Number: 22113 0

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

ROBERT FUXA  
1919 ARAPAHO DR.  
ENID OK 73703

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	6792	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 629250

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201802185

Special Orders:

Total Depth: 12474

Ground Elevation: 1118

**Surface Casing: 500**

Depth to base of Treatable Water-Bearing FM: 390

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: No

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: SALT PLAINS

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

PERMIT NO: 18-34538

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 33 Twp 20N Rge 6W County KINGFISHER

Spot Location of End Point: S2 SE SW SW

Feet From: SOUTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 990

Depth of Deviation: 6672

Radius of Turn: 550

Direction: 180

Total Length: 4939

Measured Total Depth: 12474

True Vertical Depth: 7257

End Point Location from Lease,

Unit, or Property Line: 165

## Notes:

### Category

### Description

HYDRAULIC FRACTURING

5/17/2018 - G71 - OCC 165:10-3-10 REQUIRES:

1) PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE;

2) WITH NOTICE ALSO GIVEN 48 HOURS IN ADVANCE OF HYDRAULIC FRACTURING ALL WELLS TO BOTH THE OCC CENTRAL OFFICE AND LOCAL DISTRICT OFFICES, USING THE "FRAC NOTICE FORM" FOUND AT THE FOLLOWING LINK: [OCCEWEB.COM/OG/OGFORMS.HTML](http://OCCEWEB.COM/OG/OGFORMS.HTML); AND,

3) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS TO BE REPORTED TO FRACFOCUS WITHIN 60 DAYS AFTER THE CONCLUSION THE HYDRAULIC FRACTURING OPERATIONS, USING THE FOLLOWING LINK: [FRACFOCUS.ORG](http://FRACFOCUS.ORG)

PENDING CD - 201802185

5/17/2018 - G58 - (I.O.) 33-20N-6W

X629250 MSSP

SHL NCT 250' FNL, NCT 255' FWL OF 33-20N-6W

COMPL. INT. NCT 165' FNL, NCT 165' FSL, NCT 660' FWL

NO OP. NAMED

REC 4/13/2018 (M. PORTER)

SPACING - 629250

5/17/2018 - G58 - (640)(HOR) 33-20N-6W

EXT 619047 MSSP, OTHERS

COMPL. INT. NCT 660' FB

(SUPERSEDE NON-PRODUCING, NON-HORIZONTAL SPACING UNITS; COEXIST WITH PRODUCING, NON-HORIZONTAL SPACING UNITS)



# Well Location Plat

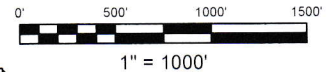
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Operator: LONGFELLOW ENERGY, LP  
Lease Name and No.: BETTY 33-M1BH  
Footage: 288' FNL - 350' FWL Gr. Elevation: 1118'  
Section: 33 Township: 20N Range: 6W I.M.  
County: Garfield State of Oklahoma  
Terrain at Loc.: Location fell on existing level pad site.

047-25147



All bearings shown  
are grid bearings.

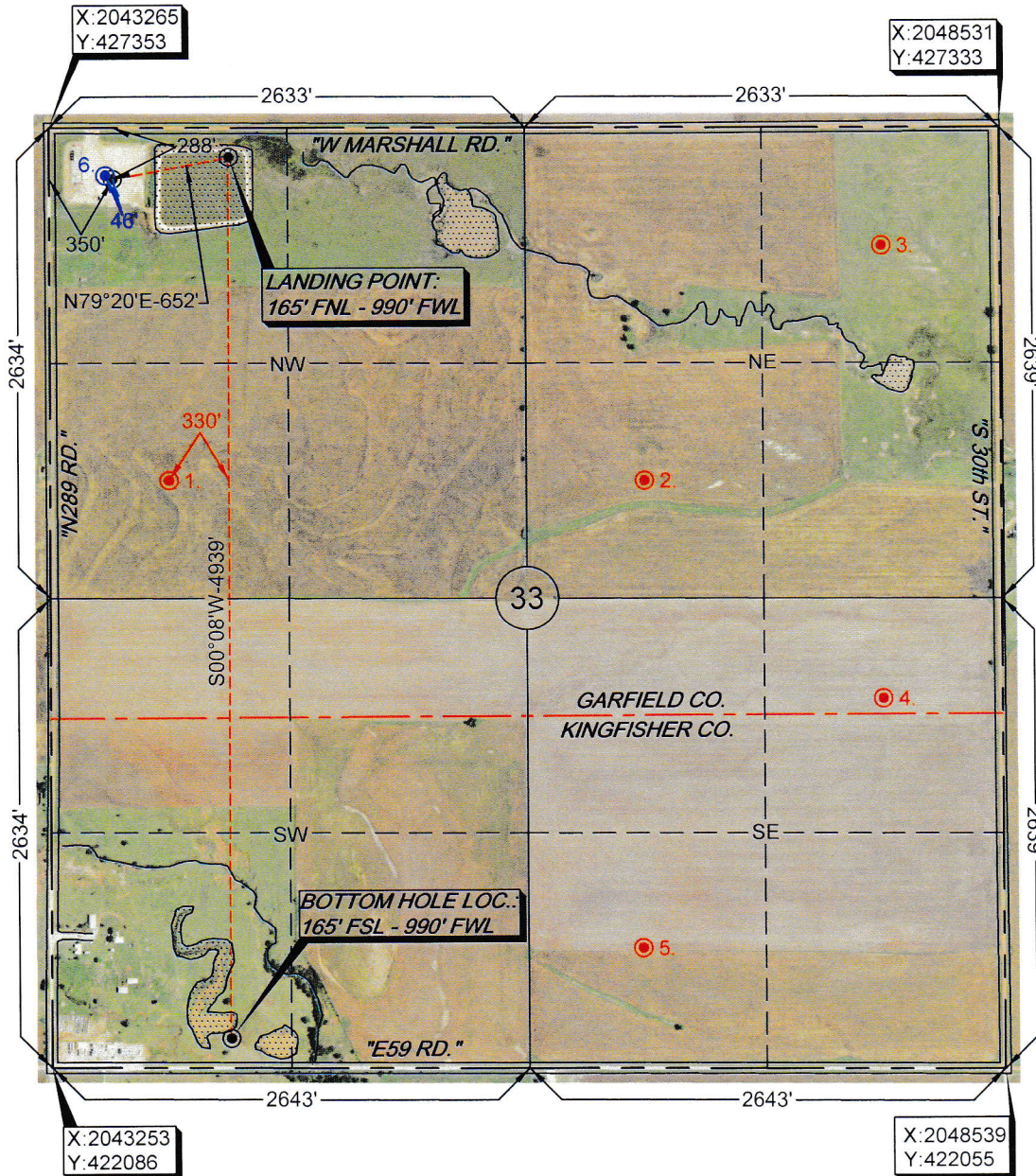


GPS DATUM  
NAD 27  
OK NORTH ZONE

Surface Hole Loc.:  
Lat: 36°10'23.28"N  
Lon: 97°51'08.04"W  
X: 2043614  
Y: 427063

Landing Point:  
Lat: 36°10'24.46"N  
Lon: 97°51'00.23"W  
X: 2044254  
Y: 427184

Bottom Hole Loc.:  
Lat: 36°09'35.61"N  
Lon: 97°51'00.45"W  
X: 2044244  
Y: 422245



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, 2018

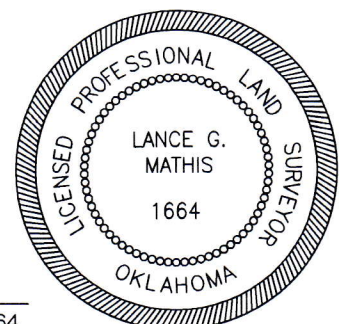
## Certification:

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.

LANCE G. MATHIS

03/28/18

OK LPLS 1664



Invoice #7734

Date Staked: 03/21/18 By: J.W.  
Date Drawn: 03/22/18 By: J.K.





# Well Location Plat

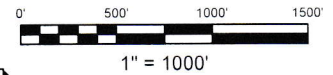
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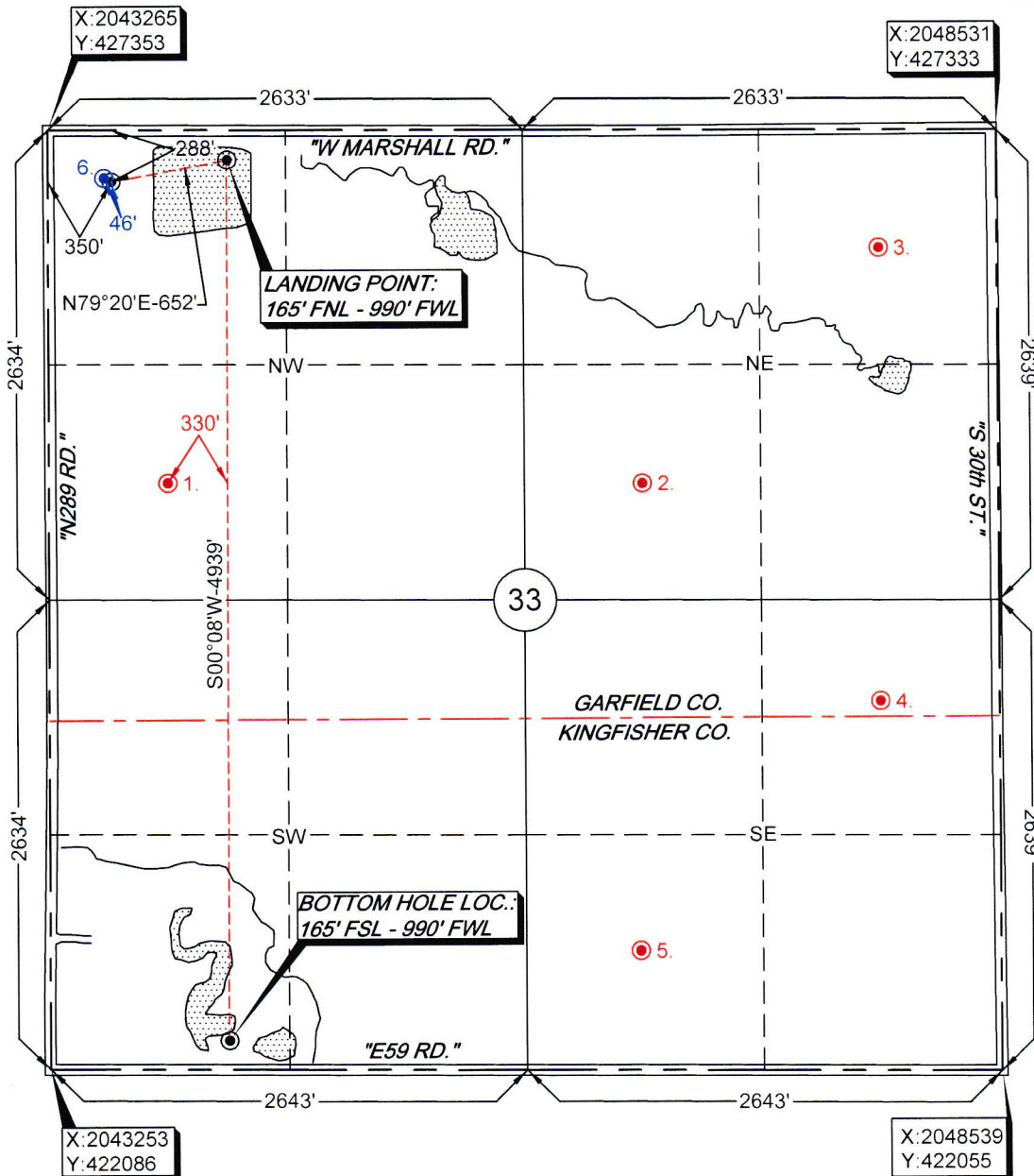


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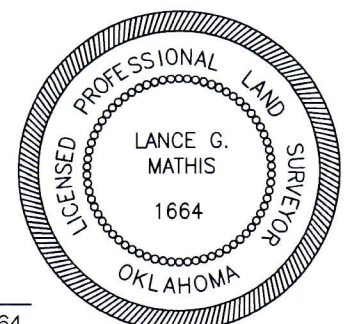
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# Anti-Collision Info

Sec. 33-20N-6W I.M.

Operator: LONGFELLOW ENERGY, LP  
Lease Name and No.: BETTY 33-M1BH  
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Landing Point: 165' FNL - 990' FWL  
Bottom Hole Location: 165' FSL - 990' FWL  
Section: 33 Township: 20N Range: 6W I.M.  
County: Garfield State of Oklahoma

## SECTION 33-20N-6W

1. OTC/OCC NA <i>FUXA 33-1</i> 660' FSL - 660' FWL (NW/4) TVD: 7134' OCC STATUS: PA	2. WELLCO ENERGY INC. <i>HUNTER 33-1</i> 660' FSL - 660' FWL (NE/4) TVD: 7888' OCC STATUS: PA	3. OTC/OCC NA <i>CHESTER T HUNTER 1</i> 1980' FSL - 1980' FWL (NE/4) TVD: 6968' OCC STATUS: PA	4. OTC/OCC NA <i>F J SHIMANEK 2</i> 2080' FSL - 4620' FWL (SE/4) TVD: 6776' OCC STATUS: PA
5. OTC/OCC NA <i>F S SHIMANEK 1</i> CSW/4-SE/4 TVD: N/A OCC STATUS: PA	6. LONGFELLOW ENERGY <i>BETTY 29-M4H</i> 265' FNL - 310' FWL (NW/4) TVD: 6914' OCC STATUS: AC		

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ANTI-COLLISION DATA SHOWN HEREON:  
BLUE BOX: FOUND AND SHOT ON GROUND.  
RED BOX: PLACED FROM FOOTAGES ON OCC WEBSITE.





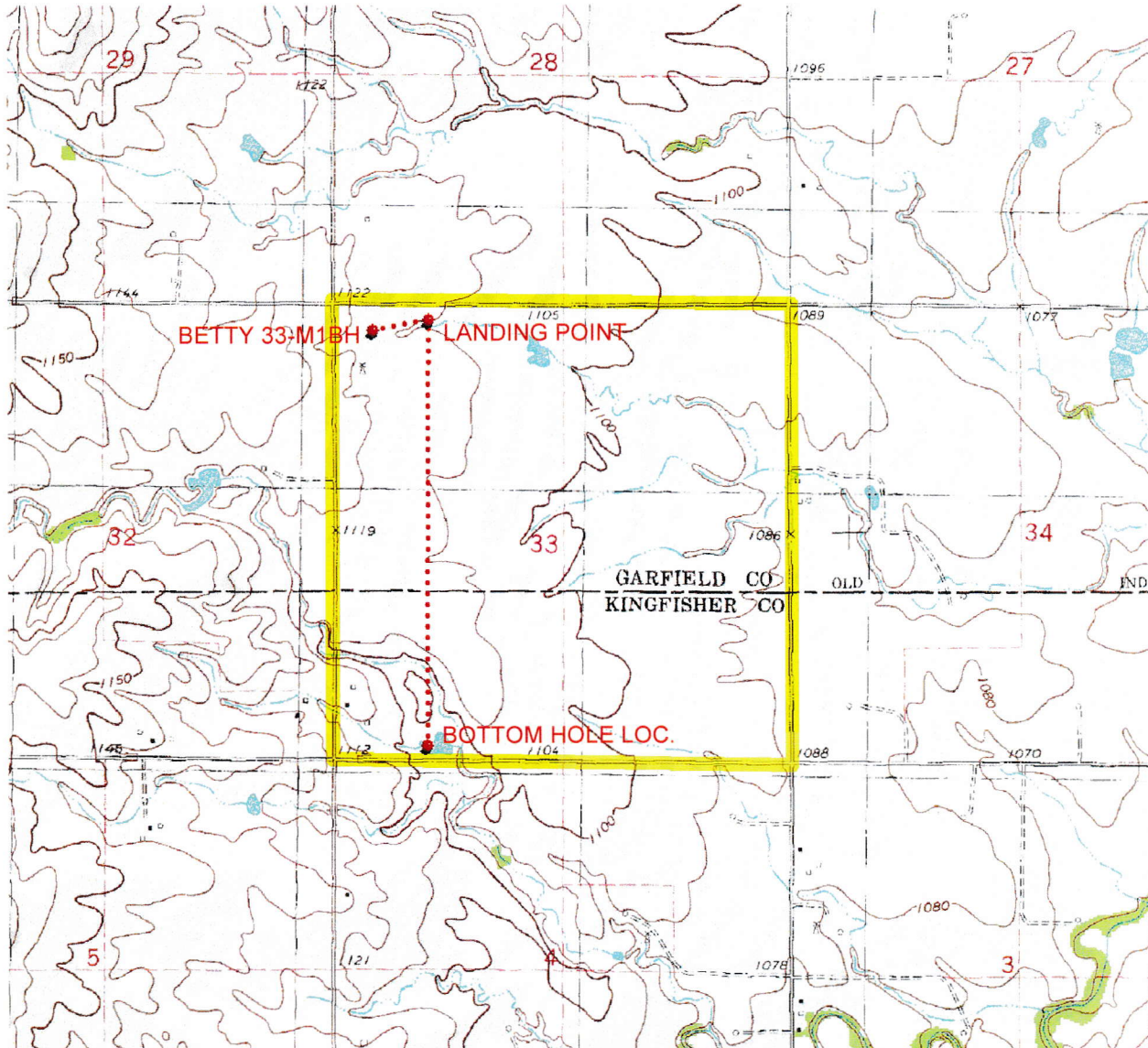
# Topographic Vicinity Map

Lease Name and No.: BETTY 33-M1BH  
Surface Hole Location: 288' FNL - 350' FWL  
Landing Point: 165' FNL - 990' FWL  
Bottom Hole Location: 165' FSL - 990' FWL  
Sec. 33 Twp. 20N Rng. 6W I.M.  
County: Garfield State of Oklahoma



Ground Elevation at Surface Hole Location: 1118'

Scale 1" = 2000'  
Contour Interval: 10'



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Expires June 30, 2018

Date Staked: 3/21/18

The purpose of this map is to verify the location and elevation as staked on the ground and to show the surrounding Topographic features. The footage shown hereon is only as SCALED onto a U.S.G.S. Topographic Map.

Please note that this location was staked carefully 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.

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