

API NUMBER: 047 25147 A

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

Approval Date: 05/17/2018  
Expiration Date: 11/17/2018

Horizontal Hole Oil & Gas

Amend reason: UPDATE SHL, BHL, ORDERS

**AMEND PERMIT TO DRILL**

WELL LOCATION: Section: 33 Township: 20N Range: 6W County: GARFIELD

SPOT LOCATION:  NE  NW  NW  NW FEET FROM QUARTER: FROM NORTH FROM WEST  
SECTION LINES: 288 430

Lease Name: BETTY Well No: 33-M1BH Well will be 288 feet from nearest unit or lease boundary.

Operator Name: SK NEMAHA LLC Telephone: 7133955141 OTC/OCC Number: 24221 0

SK NEMAHA LLC  
11700 KATY FWY STE 900  
HOUSTON, TX 77079

ROBERT FUXA  
1919 ARAPAHO DR.  
ENID OK 73703

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

Name	Code	Depth
1 MISSISSIPPIAN	359MSSP	6792

Spacing Orders: 629250

Location Exception Orders: 712754

Increased Density Orders: No Density Orders

Pending CD Numbers: No Pending

Working interest owners' notified: \*\*\*

Special Orders: No Special Orders

Total Depth: 11940

Ground Elevation: 1117

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

**Approved Method for disposal of Drilling Fluids:**

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 18-34538  
H. (Other) CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST

**PIT 1 INFORMATION**

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

**HORIZONTAL HOLE 1**

Section: 33 Township: 20N Range: 6W Meridian: IM  
County: KINGFISHER

Total Length: 3845

Measured Total Depth: 11940

Spot Location of End Point: SE SW SW SW

True Vertical Depth: 7276

Feet From: SOUTH 1/4 Section Line: 176

End Point Location from  
Lease, Unit, or Property Line: 176

Feet From: WEST 1/4 Section Line: 439

**NOTES:**

This permit does not address the right of entry or settlement of surface damages. The duration of this permit is 18 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.

Category	Description
HYDRAULIC FRACTURING	<p>5/17/2018 - G71 - OCC 165:10-3-10 REQUIRES:</p> <p>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;</p> <p>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: <a href="http://OCCWEB.COM/OG/OGFORMS.HTML">OCCWEB.COM/OG/OGFORMS.HTML</a>; AND,</p> <p>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: <a href="http://FRACFOCUS.ORG">FRACFOCUS.ORG</a></p>
LOCATION EXCEPTION - 712754 (201802185)	<p>10/6/2020 - G56 - (F.O.) 33-20N-6W  X629250 MSSP  SHL 288' FNL, 430' FWL  POE 176' FNL, 477' FWL  BHL 176' FSL, 439' FWL  SK NEMAHA, LLC  7/1/2020</p>
SPACING - 629250	<p>10/6/2020 - G56 - (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)</p>

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# Well Location Plat

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

Operator: SK NEMAHA

Lease Name and No.: BETTY 33 - M1BH

Footage: 288' FNL - 430' FWL Gr. Elevation: 1117'

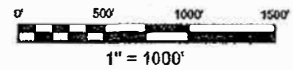
Section: 33 Township: 20N Range: 6W I.M.

County: Garfield State of Oklahoma

Terrain at Loc.: Location fell on existing pad.



All bearings shown  
are grid bearings.



GPS DATUM

NAD 83

NAD 27

OK NORTH ZONE

Surface Hole Loc.:

Lat: 36°10'23.41"N

Lon: 97°51'08.26"W

X: 2012095

Y: 427088

Surface Hole Loc.:

Lat: 36°10'23.27"N

Lon: 97°51'07.06"W

X: 2043694

Y: 427063

Bottom Hole Loc.:

Lat: 36°09'35.79"N

Lon: 97°51'08.48"W

X: 2012084

Y: 422272

Bottom Hole Loc.:

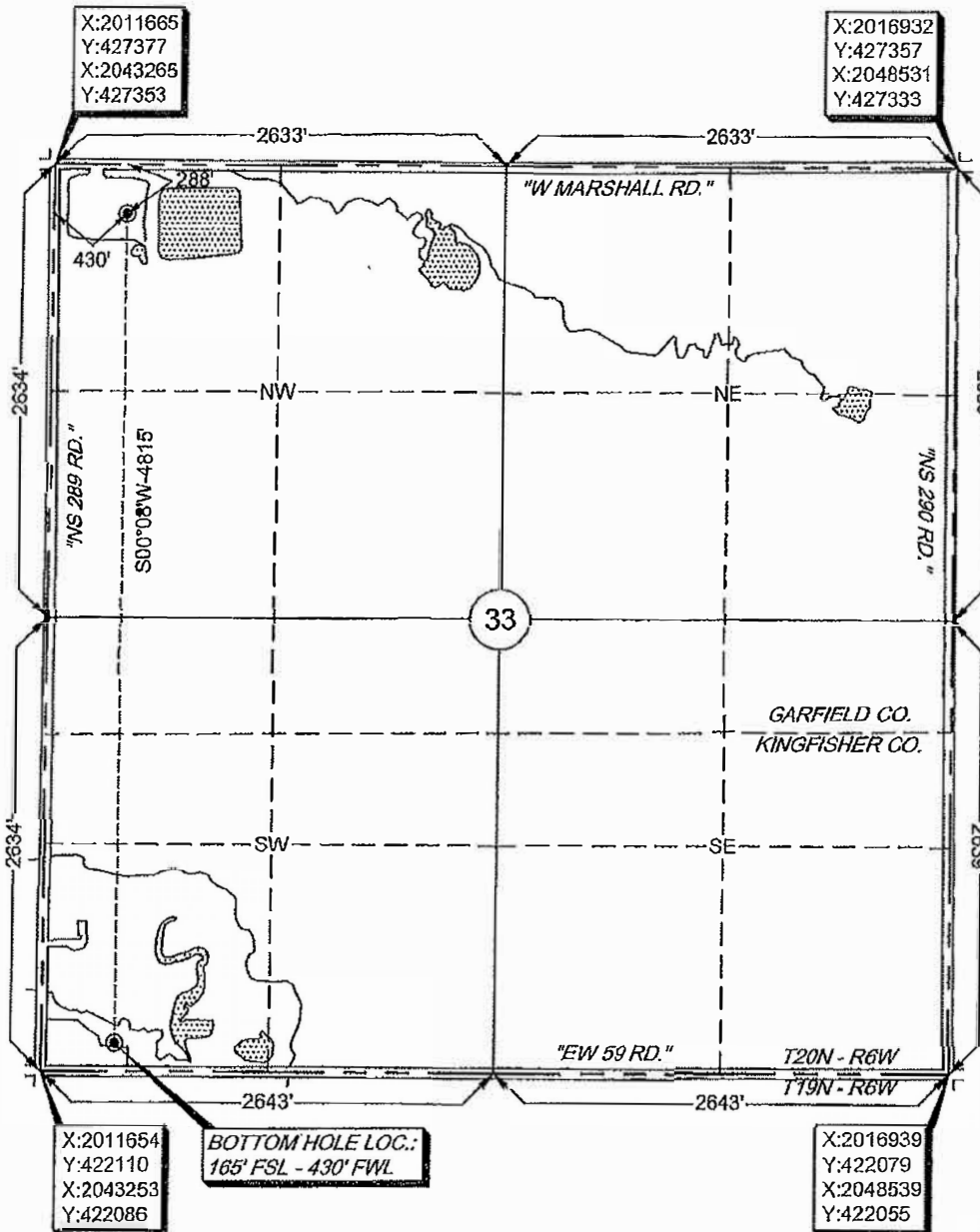
Lat: 36°09'35.65"N

Lon: 97°51'07.28"W

X: 2043684

Y: 422248

Please note that this location was called on the ground under the supervision of a Licensed Professional Land Surveyor, but the accuracy of this survey is not guaranteed. Please note that this location was observed from RTK - GPS. NOTE: X and Y data shown for Section Corners may NOT have been surveyed on-the-ground, and further, does NOT represent a true Boundary Survey. Section distances may be assumed from a Government Survey and are assumed as a approximate distance from opposing section corner to section corner, and may not have been measured on-the-ground, and further, does not represent a true boundary survey.



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. 6348

Expires June 30, 2020

Invoice #7959-C

Date Staked: 06/29/18

By: D.A.

Date Drawn: 07/03/18

By: J.K.

Revised SHL: 07/24/18

By: J.K.

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

07/25/18

OK LPLS 1664

