

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

API NUMBER: 047 25189

Approval Date: 02/05/2019

Expiration Date: 08/05/2020

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 32 Twp: 20N Rge: 6W

County: GARFIELD

SPOT LOCATION: ☐ SW ☐ NW ☐ NE

FEET FROM QUARTER: FROM NORTH FROM EAST

SECTION LINES: 395 2320

Lease Name: BETTY 29

Well No: M3NH

Well will be 395 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--1222

MALY FAMILY TRUST  
204 E IOWA ST  
JOSEPH M MALY TRUSTEE  
HENNESSEY OK 73742

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	6847	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 602714

Location Exception Orders:

Increased Density Orders: 689324

Pending CD Numbers: 201809300

Special Orders:

Total Depth: 12500

Ground Elevation: 1142

**Surface Casing: 440**

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: 18-35985

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 29 Twp 20N Rge 6W County GARFIELD

Spot Location of End Point: NW NE NW NE

Feet From: NORTH 1/4 Section Line: 165

Feet From: EAST 1/4 Section Line: 1900

Depth of Deviation: 6400

Radius of Turn: 461

Direction: 360

Total Length: 4900

Measured Total Depth: 12500

True Vertical Depth: 7300

End Point Location from Lease,

Unit, or Property Line: 165

## Notes:

### Category

### Description

HYDRAULIC FRACTURING

12/29/2018 - 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)

INCREASED DENSITY - 689324

2/5/2019 - G58 - 29-20N-6W  
X602714 MSSP  
4 WELLS  
SK NEMAHA  
1/1/2019

PENDING CD - 201809300

2/5/2019 - G58 - (I.O.) 29-20N-6W  
X602714 MSSP  
COMPL. INT. NCT 165' FSL, NCT 165' FNL, NCT 1850' FEL  
NO OP. NAMED  
REC 11/26/2018 (P. PORTER)

SPACING - 602714

1/31/2019 - G58 - (640)(HOR) 29-20N-6W  
EST MSSP, OTHERS  
POE TO BHL NCT 660' FB  
(SUPERSEDE SP. ORDER 63882 MSSLM NW4, SE4, SP. ORDER 46581 MNNG; COEXIST SP. ORDER 63882 MSSLM NE4, SW4)

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047 25189 BETTY 29 M3NH



# Well Location Plat

S.H.L. Sec. 32-20N-6W I.M.

B.H.L. Sec. 29-20N-6W I.M.

Operator: SK NEMAHA

Lease Name and No.: BETTY 29-M3NH

Footage: 395' FNL - 2320' FEL Gr. Elevation: 1142'

Section: 32 Township: 20N Range: 6W I.M.

County: Garfield State of Oklahoma

Terrain at Loc.: Location fell in a flat open field.

047-25189



All bearings shown  
are grid bearings.



1" = 1320'

GPS DATUM

NAD 83

NAD 27

OK NORTH ZONE

Surface Hole Loc.:  
Lat: 36°10'22.60"N  
Lon: 97°51'41.81"W  
Lat: 36.17294346  
Lon: -97.86161344  
X: 2009345  
Y: 427002

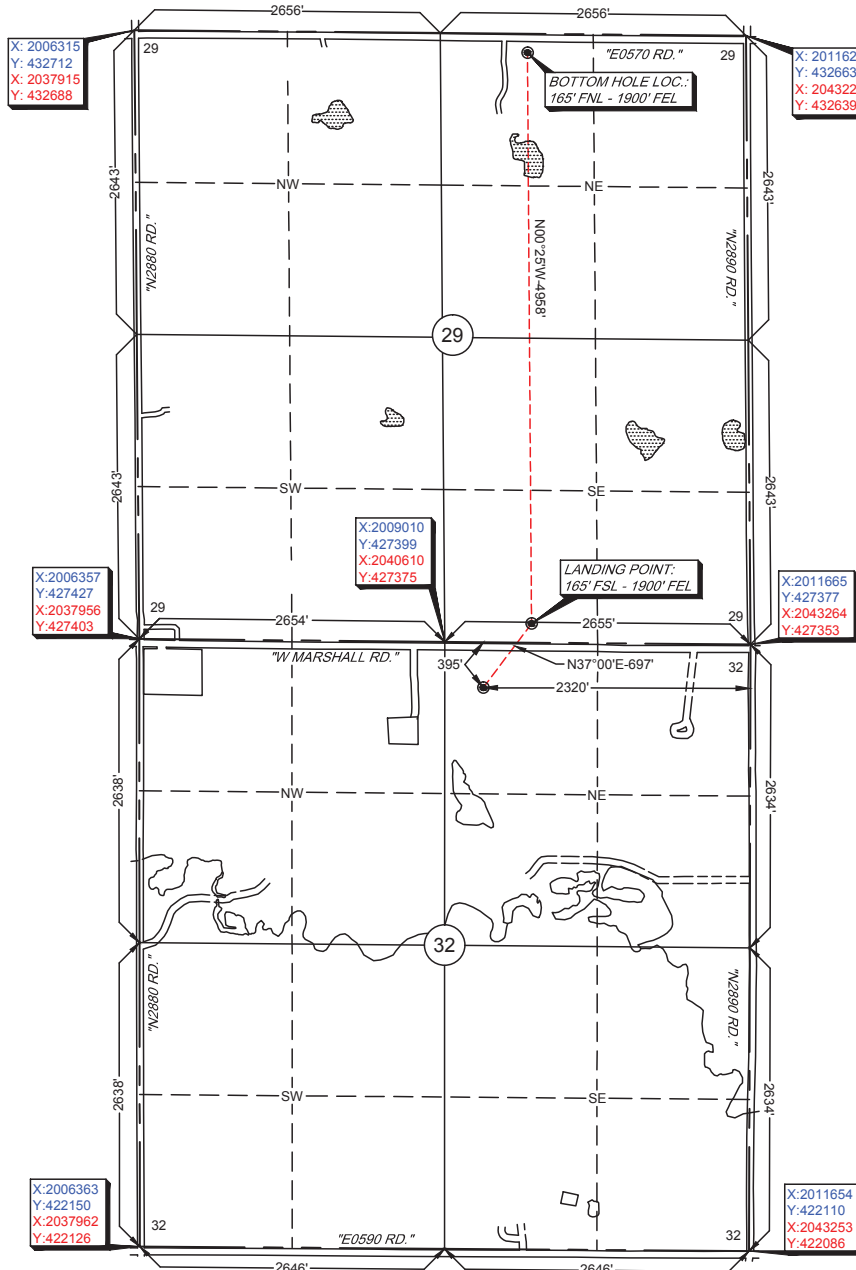
Surface Hole Loc.:  
Lat: 36°10'22.46"N  
Lon: 97°51'40.61"W  
Lat: 36.17290657  
Lon: -97.86127977  
X: 2040944  
Y: 426977

Landing Point:  
Lat: 36°10'28.09"N  
Lon: 97°51'36.68"W  
Lat: 36.17447054  
Lon: -97.86018962  
X: 2009764  
Y: 427558

Landing Point:  
Lat: 36°10'27.96"N  
Lon: 97°51'35.48"W  
Lat: 36.17443367  
Lon: -97.85985597  
X: 2041364  
Y: 427534

Bottom Hole Loc.:  
Lat: 36°11'17.12"N  
Lon: 97°51'37.03"W  
Lat: 36.18808969  
Lon: -97.86028573  
X: 2009729  
Y: 432516

Bottom Hole Loc.:  
Lat: 36°11'16.99"N  
Lon: 97°51'35.83"W  
Lat: 36.18805307  
Lon: -97.85995197  
X: 2041328  
Y: 432491



-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.

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

-Quarter Section distances may be assumed from a Government Survey Plat or assumed at a proportionate distance from opposing section corners, or occupation thereof, 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. 5348

Expires June 30, 2020

Invoice #8315-A

Date Staked: 11/20/18

By: D.K.

Date Drawn: 11/26/18

By: E.W.

Rev LP/BHL: 01/07/19

By: R.S.

Rev LP/BHL: 01/30/19

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*  
LANCE G. MATHIS

01/31/19

OK LPLS 1664

