

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

API NUMBER: 073 26285

Approval Date: 09/26/2018

Expiration Date: 03/26/2020

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 20 Twp: 19N Rge: 5W

County: KINGFISHER

SPOT LOCATION:

FEET FROM QUARTER: FROM NORTH FROM EAST

SECTION LINES: 420 2000

Lease Name: BRETT

Well No: 20-M3SH

Well will be 420 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

MICHAEL BLAKELEY  
24329 EAST 630 ROAD  
HENNESSEY OK 73742

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	6720	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 612883

Location Exception Orders:

Increased Density Orders: 683312

Pending CD Numbers: 201806168

Special Orders:

Total Depth: 12084

Ground Elevation: 1043

**Surface Casing: 350**

Depth to base of Treatable Water-Bearing FM: 260

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: 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 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: 18-35229  
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 20 Twp 19N Rge 5W County KINGFISHER

Spot Location of End Point: SE SE SE SW

Feet From: SOUTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 2405

Depth of Deviation: 6400

Radius of Turn: 472

Direction: 360

Total Length: 4943

Measured Total Depth: 12084

True Vertical Depth: 7184

End Point Location from Lease,

Unit, or Property Line: 165

## Notes:

### Category

### Description

HYDRAULIC FRACTURING

8/22/2018 - 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 - 683312

9/26/2018 - G58 - 20-19N-5W  
X612883 MSSP  
4 WELLS  
SK NEMAHA, LLC  
9/19/2018

PENDING CD - 201806168

9/26/2018 - G58 - (I.O.) 20-19N-5W  
X612883 MSSP  
COMPL. INT. NCT 165' FNL, NCT 165' FSL, NCT 2405' FWL  
NO OP. NAMED  
REC 8/21/2018 (MURER)

SPACING - 612883

9/26/2018 - G58 - (640)(HOR) 20-19N-5W  
EST MSSP, OTHERS  
COMPL. INT. NLT 660' FB  
(COEXIST SP. ORDER 106369 MSSLM SE4)

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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.

073 26285 BRETT 20-M3SH



# Well Location Plat

073-26285

Sec. 20-19N-5W I.M.

Operator: SK NEMAHA

Lease Name and No.: BRETT 20-M3SH

Footage: 420' FNL - 2000' FEL Gr. Elevation: 1043'

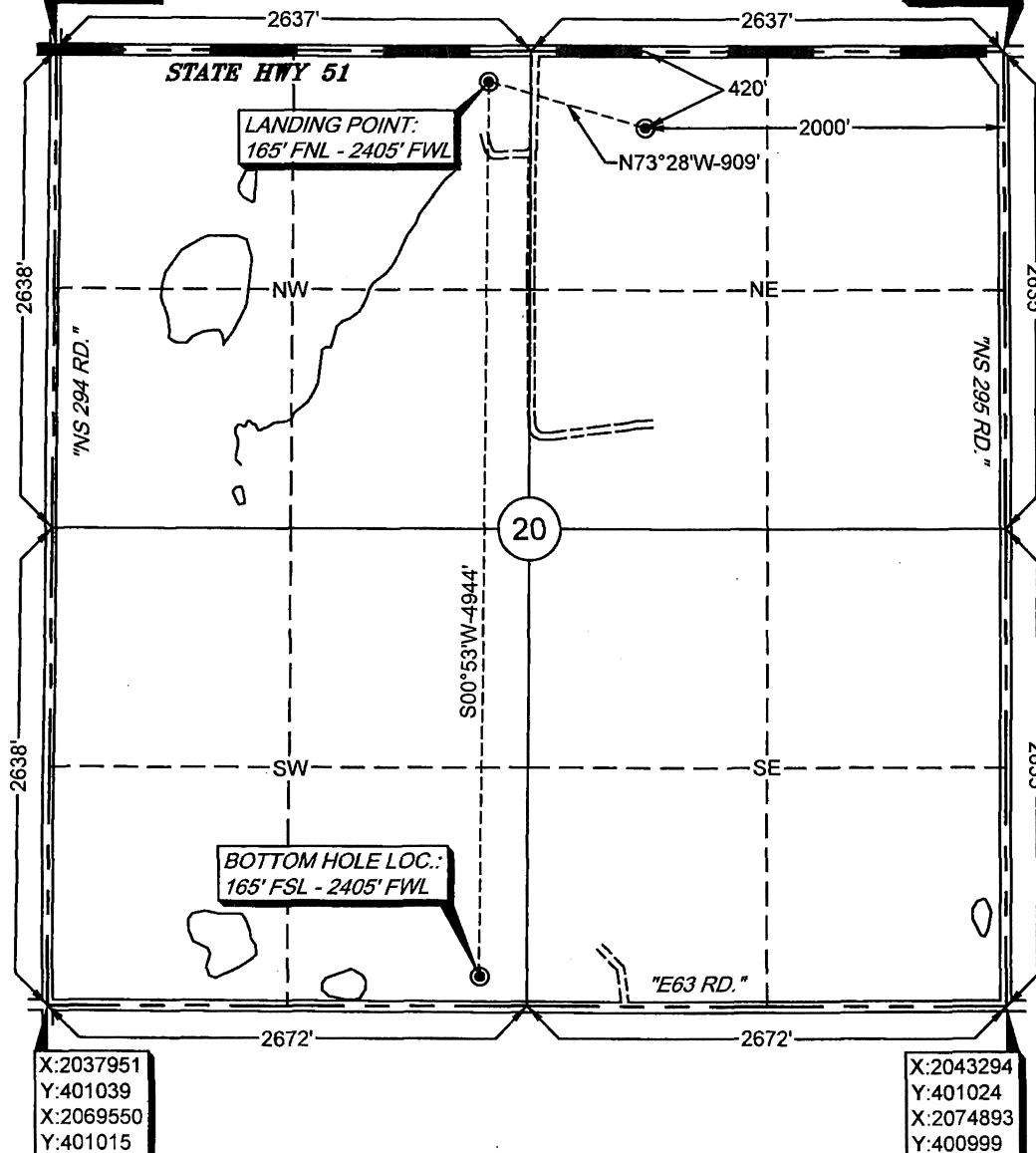
Section: 20 Township: 19N Range: 5W I.M.

County: Kingfisher State of Oklahoma

Terrain at Loc.: Location fell in a pasture, South of an existing fence.

X:2038033  
Y:406315  
X:2069632  
Y:406291

X:2043307  
Y:406293  
X:2074907  
Y:406268



All bearings shown  
are grid bearings.



1" = 1000'

GPS DATUM

NAD 83

NAD 27

OK NORTH ZONE

Surface Hole Loc.:

Lat: 36°06'53.10"N

Lon: 97°45'12.62"W

X: 2041306

Y: 405881

Surface Hole Loc.:

Lat: 36°06'52.97"N

Lon: 97°45'11.43"W

X: 2072906

Y: 405857

Landing Point:

Lat: 36°06'55.68"N

Lon: 97°45'23.23"W

X: 2040435

Y: 406140

Landing Point:

Lat: 36°06'55.55"N

Lon: 97°45'22.04"W

X: 2072034

Y: 406116

Bottom Hole Loc.:

Lat: 36°06'06.80"N

Lon: 97°45'24.31"W

X: 2040358

Y: 401197

Bottom Hole Loc.:

Lat: 36°06'06.66"N

Lon: 97°45'23.13"W

X: 2071958

Y: 401173

-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

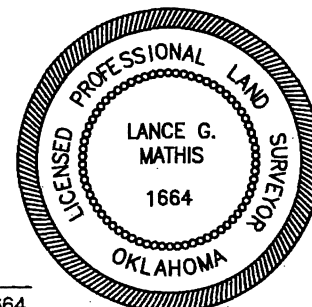
## Certification:

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

08/10/18

OK LPLS 1664



Invoice #7970-C

Date Staked: 07/31/18 By: J.W.

Date Drawn: 08/06/18 By: C.K.