

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

API NUMBER: 047 25197

Approval Date: 04/08/2019

Expiration Date: 10/08/2020

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 27 Twp: 20N Rge: 5W

County: GARFIELD

SPOT LOCATION:

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 198 209

Lease Name: CAROLYN

Well No: 34-M1SH

Well will be 198 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

FRANCES I PEACH TRUST
3507 EDGEWATER DR.
ENID OK 73703

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	6700	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 641001

Location Exception Orders: 693588

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 11666

Ground Elevation: 1000

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: 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 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: 19-36136

H. CLOSED SYSTEM=STEEL PITS (REQUIRED - SKELETON CREEK)

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 34 Twp 20N Rge 5W County KINGFISHER

Spot Location of End Point: SE SW SW SW

Feet From: SOUTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 450

Depth of Deviation: 5900

Radius of Turn: 509

Direction: 178

Total Length: 4966

Measured Total Depth: 11666

True Vertical Depth: 6700

End Point Location from Lease,
Unit, or Property Line: 165

Notes:

Category

Description

HYDRAULIC FRACTURING

1/15/2019 - 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; 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

LOCATION EXCEPTION - 693588

2/12/2019 - G56 - (I.O.) 34-20N-5W
X641001 MSSP
COMPL INT NCT 165' FNL, NCT 165' FSL, NCT 330' FWL
SK NEMAHA, LLC
3/27/2019

SPACING - 641001

2/12/2019 - G56 - (640)(HOR) 34-20N-5W
VAC 44986 MSSSD
VAC 146659 MNNG
EXT 606732 MSSP, OTHERS
COMPL INT NCT 660' FB
(COEXIST WITH SP # 44986 MSSSD NW4)



Well Location Plat

S.H.L. Sec. 27-20N-5W I.M.

B.H.L. Sec. 34-20N-5W I.M.

Operator: SK NEMAHA

Lease Name and No.: CAROLYN 34-M1SH

Footage: 198' FSL - 209' FWL Pad Elevation: 1000'

Section: 27 Township: 20N Range: 5W I.M.

County: Garfield State of Oklahoma

Terrain at Loc.: Location fell on an existing pad site.

All bearings shown
are grid bearings.

0' 660' 1320' 1980'

1" = 1320'

GPS DATUM

NAD 83

NAD 27

OK NORTH ZONE

Surface Hole Loc.:
Lat: 36°10'28.21"N
Lon: 97°43'42.17"W
Lat: 36.17450202
Lon: -97.72838182
X: 2048666
Y: 427652

Surface Hole Loc.:
Lat: 36°10'28.07"N
Lon: 97°43'40.99"W
Lat: 36.17446468
Lon: -97.72805196
X: 2080265
Y: 427627

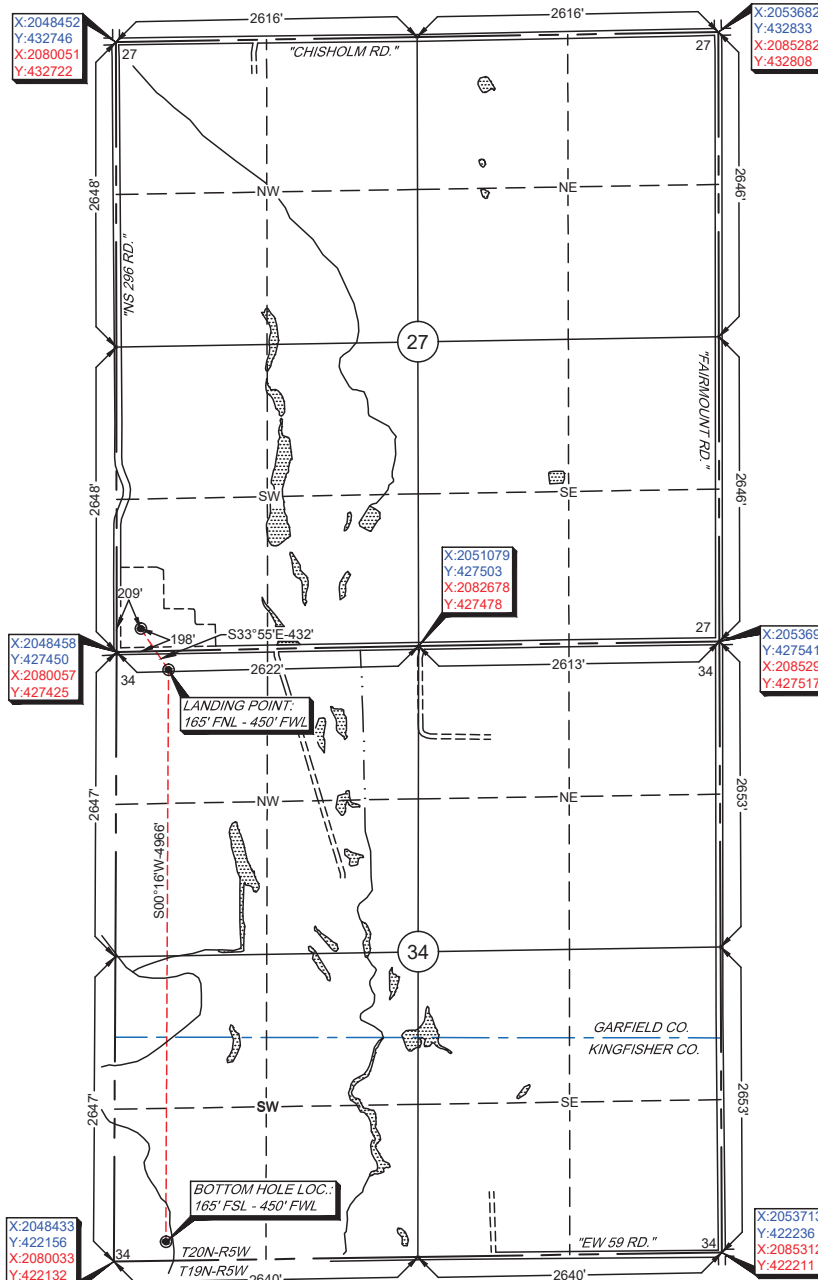
Landing Point:
Lat: 36°10'24.66"N
Lon: 97°43'39.25"W
Lat: 36.17351638
Lon: -97.72756912
X: 2048907
Y: 427294

Landing Point:
Lat: 36°10'24.52"N
Lon: 97°43'38.06"W
Lat: 36.17347901
Lon: -97.72723928
X: 2080506
Y: 427269

Bottom Hole Loc.:
Lat: 36°09'35.55"N
Lon: 97°43'39.70"W
Lat: 36.15987475
Lon: -97.72769314
X: 2048884
Y: 422328

Bottom Hole Loc.:
Lat: 36°09'35.41"N
Lon: 97°43'38.51"W
Lat: 36.15983711
Lon: -97.72736342
X: 2080484
Y: 422303

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 inaccuracy is determined. GPS data is obtained from RTK - GPS. 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 #8327-B

Date Staked: 01/08/19 By: J.W.

Date Drawn: 01/10/19 By: J.H.

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

01/14/19

OK LPLS 1664

