

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

API NUMBER: 047 25174 A

Approval Date: 10/29/2018
Expiration Date: 04/29/2020

Horizontal Hole Oil & Gas

Amend reason: CHANGE SHL, UPDATE BHL & ORDERS

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 31 Twp: 21N Rge: 5W

County: GARFIELD

SPOT LOCATION: ☐ NE ☐ NW ☐ NW ☐ NW

FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 518 231

Lease Name: PIERCE

Well No: 31-M1SH

Well will be 231 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

THE ROBINETTE FAMILY TRUST
12008 S 66TH STREET
WAUKOMIS OK 73773

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	6474	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 610578
689871

Location Exception Orders: 703660

Increased Density Orders: 686283

Pending CD Numbers:

Special Orders:

Total Depth: 11088

Ground Elevation: 1057

Surface Casing: 350

Depth to base of Treatable Water-Bearing FM: 160

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: 18-35480

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 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.

HORIZONTAL HOLE 1

Sec 31 Twp 21N Rge 5W County GARFIELD

Spot Location of End Point: SE SW SW SW

Feet From: SOUTH 1/4 Section Line: 179

Feet From: WEST 1/4 Section Line: 396

Depth of Deviation: 5810

Radius of Turn: 815

Direction: 178

Total Length: 3997

Measured Total Depth: 11088

True Vertical Depth: 6474

End Point Location from Lease,

Unit, or Property Line: 179

Notes:

Category

Description

HYDRAULIC FRACTURING

10/19/2018 - GA8 - 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: OCCWEB.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

INCREASED DENSITY - 686283

10/18/2019 - G56 - 31-21N-5W
X610578 MSSP***
1 WELL
SK NEMAHA, LLC
11/7/2018

***S/B X610578/689871 MSSP, WILL BE CORRECTED VIA NPT PER ATTORNEY FOR OPERATOR

LOCATION EXCEPTION - 703660

10/18/2019 - G56 - (F.O.) 31-21N-5W
X610578 MSSP***
SHL (31-21N-5W) 518' FNL, 231' FWL
COMPL INT (POE) 425' FNL, 380' FWL
COMPL INT (BHL) 179' FSL, 396' FWL
SK NEMAHA, LLC
10/15/2019

***S/B X610578/689871 MSSP, WILL BE CORRECTED VIA NPT PER ATTORNEY FOR OPERATOR

SPACING - 610578

10/24/2018 - G56 - (640)(HOR) 31-21N-5W
EXT. 593034 MSSP, OTHERS
POE TO BHL NCT 660' FB
(SUPERSEDE SP ORDER 170457 MISS)

SPACING - 689871

10/18/2019 - G56 - (640)(HOR) 31-21N-5W
VAC 122929 MSSLM
CONFIRM 610578 MSSP

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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.

047 25174 PIERCE 31-M1SH



Sec. 31-21N-5W I.M.

All bearings shown
are grid bearings.

Surface Hole Loc.:
Lat: 36°15'31.51"N
Lon: 97°46'54.83"W
Lat: 36.25875274
Lon: -97.78189765
X: 2032802
Y: 458282

Surface Hole Loc.:
Lat: 36°15'31.38"N
Lon: 97°46'53.64"W
Lat: 36.25871722
Lon: -97.78156557
X: 2064402
Y: 458257

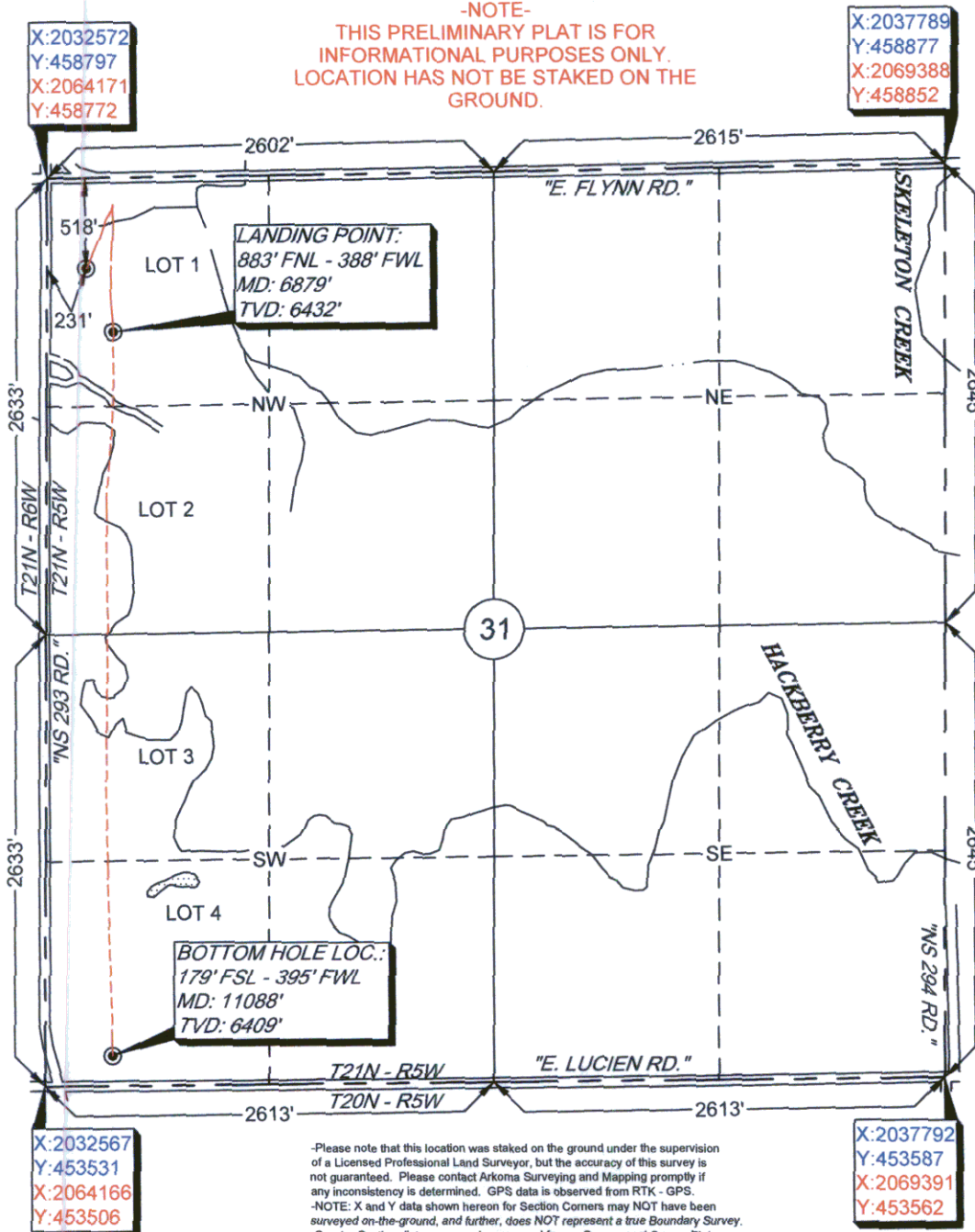
Landing Point:
Lat: 36°15'27.92"N
Lon: 97°46'52.92"W
Lat: 36.25775627
Lon: -97.78136804
X: 2032959
Y: 457920

Landing Point:
Lat: 36°15'27.80"N
Lon: 97°46'51.73"W
Lat: 36.25772194
Lon: -97.78103719
X:2064558
Y:457895

Bottom Hole Loc.:
Lat: 36°14'46.34"N
Lon: 97°46'53.01"W
Lat: 36.24620503
Lon: -97.78139080
X: 2032962
Y: 453715

Bottom Hole Loc.:
Lat: 36°14'46.21"N
Lon: 97°46'51.81"W
Lat: 36.24617064
Lon: -97.78105921
X:2064561
Y:453690

-NOTE-
THIS PRELIMINARY PLAT IS FOR
INFORMATIONAL PURPOSES ONLY.
LOCATION HAS NOT BE STAKED ON THE
GROUND.




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 #8162-A
Date Staked: N/A By:
Date Drawn: 11/01/18 By: E.W.
Added Elev.: 11/05/18 By: R.S.
Added Completion Survey: 02/11/19 By: R.S.

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

02/12/19

OK LPLS 1664

