

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

API NUMBER: 047 25175

Approval Date: 11/05/2018

Expiration Date: 05/05/2020

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 25 Twp: 21N Rge: 6W

County: GARFIELD

SPOT LOCATION:

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 220 335

Lease Name: NORMA

Well No: 25-M1NH

Well will be 220 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

CYNTHIA ANN LAMBERT-SMITH  
601 NORTH CREEK  
DRUMRIGHT OK 74030

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	6515	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 614301

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201807243

Special Orders:

Total Depth: 11468

Ground Elevation: 1087

**Surface Casing: 350**

Depth to base of Treatable Water-Bearing FM: 150

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: KINGMAN

D. One time land application -- (REQUIRES PERMIT)

PERMIT NO: 18-35523

H. CLOSED SYSTEM=STEEL PITS REQUIRED (HACKBERRY 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 25 Twp 21N Rge 6W County GARFIELD

Spot Location of End Point: NE NW NW NW

Feet From: NORTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 400

Depth of Deviation: 5615

Radius of Turn: 573

Direction: 1

Total Length: 4953

Measured Total Depth: 11468

True Vertical Depth: 6515

End Point Location from Lease,

Unit, or Property Line: 165

## 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: [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)

PENDING CD - 201807243

11/5/2018 - G58 - (I.O.) 25-21N-6W  
X614301 MSSP  
COMPL. INT. NCT 165' FSL, NCT 165' FNL, NCT 400' FWL  
NO OP. NAMED  
REC 10/1/2018 (DENTON)

SPACING - 614301

11/5/2018 - G58 - (640)(HOR) 25-21N-6W  
EXT 610578 MSSP, OTHERS  
POE TO BHL NCT 660' FB  
(SUPERCEDE 59432, MISS; 174781, MNNG; 199898, MNNG)

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047 25175 NORMA 25-M1NH



# Well Location Plat

Sec. 25-21N-6W I.M.

Operator: SK NEMAHA

047-25175

Lease Name and No.: NORMA 25-M1NH

Footage: 220' FSL - 335' FWL Gr. Elevation: 1087'

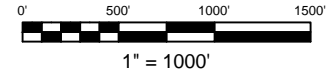
Section: 25 Township: 21N Range: 6W I.M.

County: Garfield State of Oklahoma

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



All bearings shown are grid bearings.



GPS DATUM

NAD 83

NAD 27

OK NORTH ZONE

Surface Hole Loc.:

Lat: 36°15'39.05"N

Lon: 97°47'58.11"W

Lat: 36.26084640

Lon: -97.79947580

X: 2027618

Y: 459033

Surface Hole Loc.:

Lat: 36°15'38.92"N

Lon: 97°47'56.92"W

Lat: 36.26081094

Lon: -97.79914321

X: 2059218

Y: 459008

Landing Point:

Lat: 36°15'38.50"N

Lon: 97°47'57.32"W

Lat: 36.26069526

Lon: -97.79925530

X: 2027683

Y: 458978

Landing Point:

Lat: 36°15'38.38"N

Lon: 97°47'56.12"W

Lat: 36.26065979

Lon: -97.79892273

X: 2059283

Y: 458953

Bottom Hole Loc.:

Lat: 36°16'27.48"N

Lon: 97°47'57.40"W

Lat: 36.27429992

Lon: -97.79927834

X: 2027666

Y: 463931

Bottom Hole Loc.:

Lat: 36°16'27.35"N

Lon: 97°47'56.20"W

Lat: 36.27426466

Lon: -97.79894569

X: 2059266

Y: 463906



-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.

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

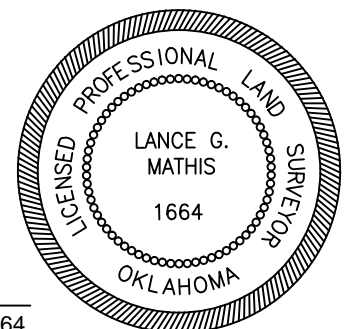
## Certification:

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*  
LANCE G. MATHIS

09/06/18

OK LPLS 1664



Invoice #8047

Date Staked: 08/07/18 By: D.K.

Date Drawn: 08/09/18 By: C.K.

Added LP & BHL: 09/06/18 By: M.K.



# Well Location Plat

Sec. 25-21N-6W I.M.

Operator: SK NEMAHA

Lease Name and No.: NORMA 25-M1NH

Footage: 220' FSL - 335' FWL Gr. Elevation: 1087'

Section: 25 Township: 21N Range: 6W I.M.

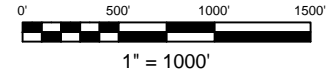
County: Garfield State of Oklahoma

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047-25175



All bearings shown are grid bearings.



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NAD 27

OK NORTH ZONE

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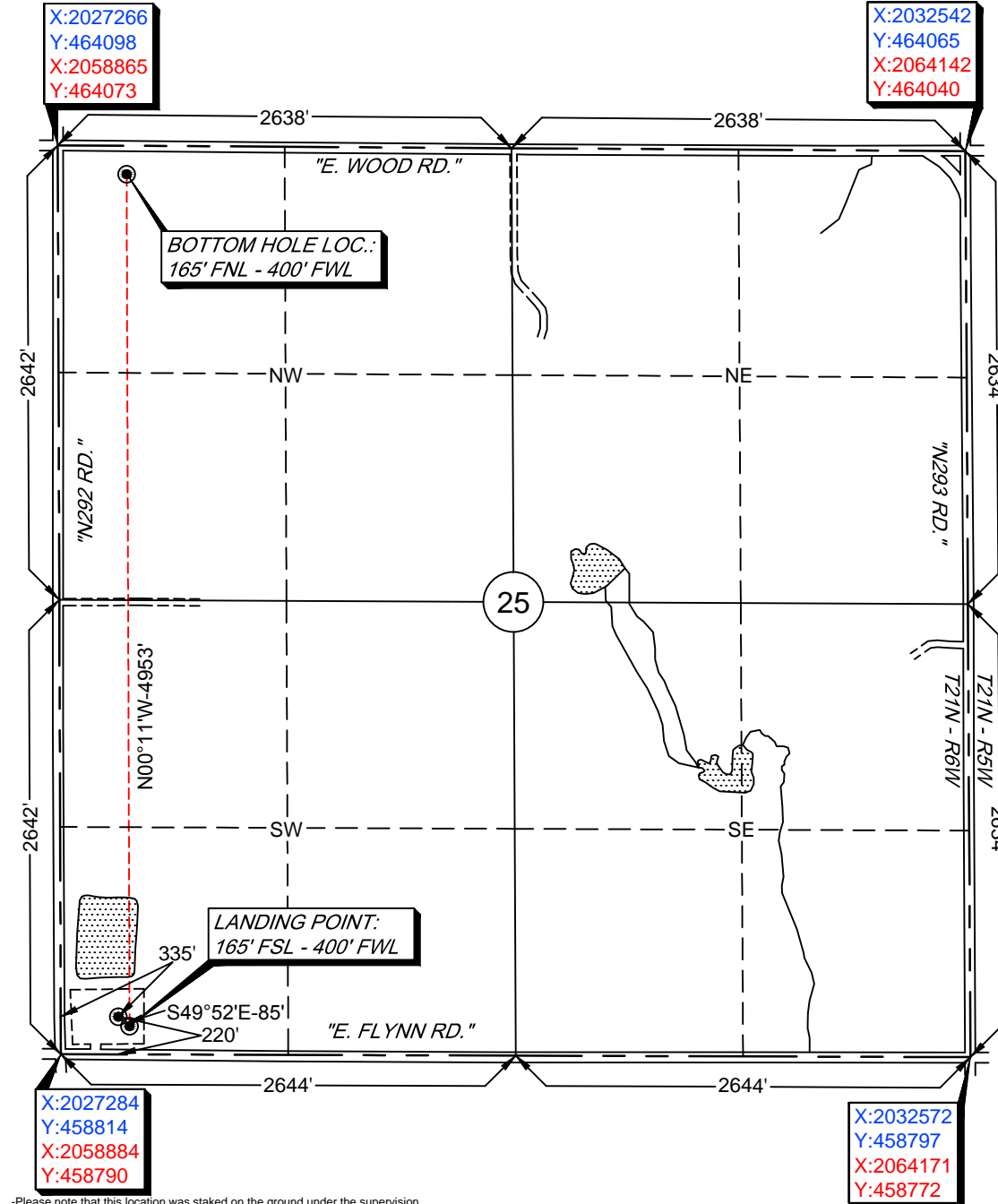
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X: 2059266  
Y: 463906



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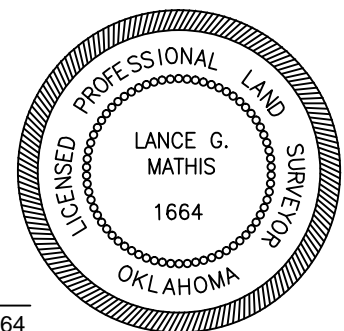
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LANCE G. MATHIS

09/06/18

OK LPLS 1664



Invoice #8047

Date Staked: 08/07/18 By: D.K.

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Added LP & BHL: 09/06/18 By: M.K.





# Topographic Vicinity Map

Operator: SK NEMAHA

Lease Name and No.: NORMA 25-M1NH

Surface Hole Location: 220' FSL - 335' FWL

Landing Point: 165' FSL - 400' FWL

Bottom Hole Location: 165' FNL - 400' FWL

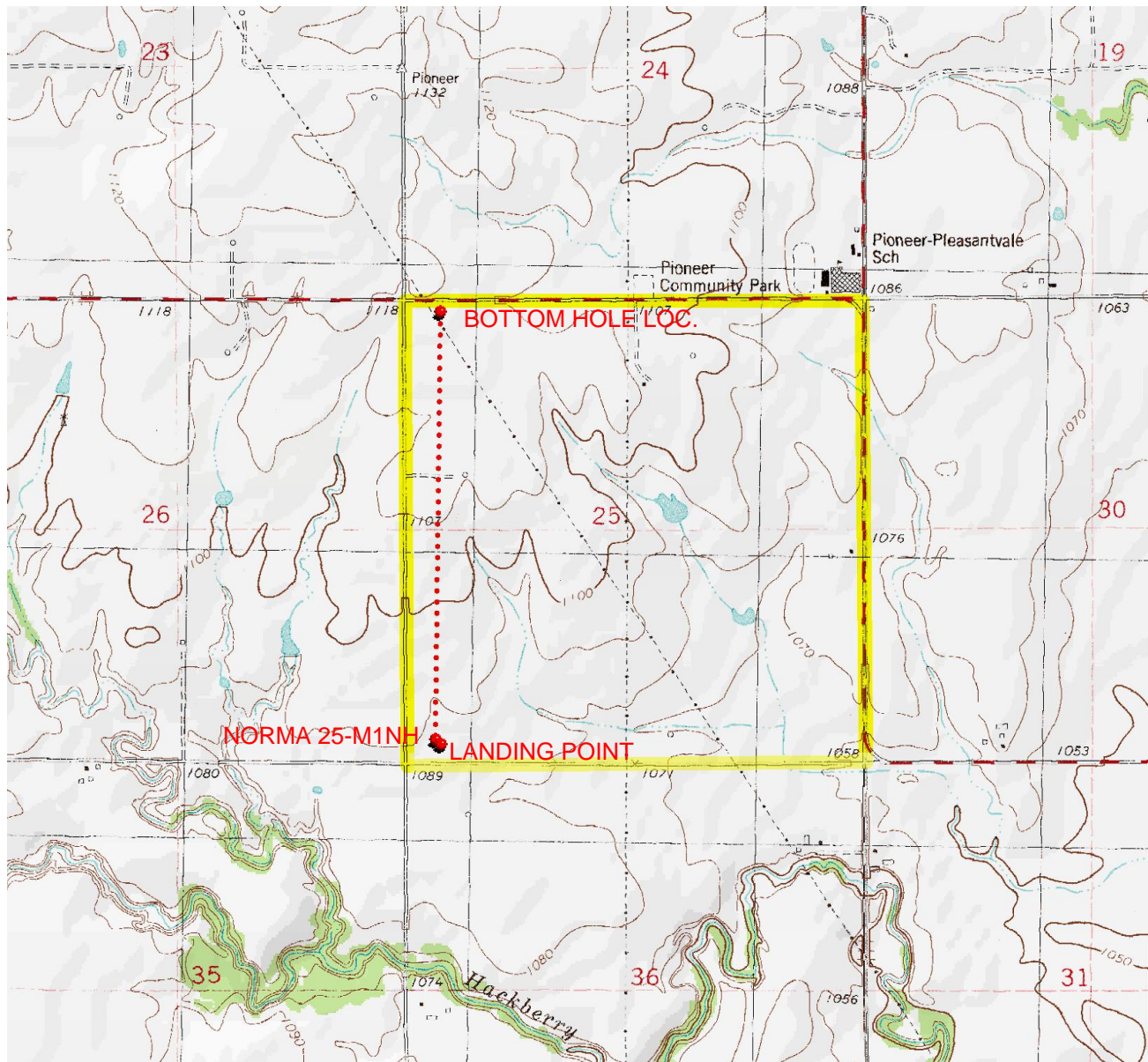
Sec. 25 Twp. 21N Rng. 6W I.M.

County: Garfield State of Oklahoma



Scale 1" = 2000'  
Contour Interval: 10'

Ground Elevation at Surface Hole Location: 1087'



Provided by:

**Arkoma Surveying and Mapping, PLLC**

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Expires June 30, 2020

Date Staked: 08/07/18

The purpose of this map is to verify the location and elevation as staked on the ground and to show the surrounding Topographic features. The footage shown hereon is only as SCALED onto a U.S.G.S. Topographic Map.

Please note that this location was staked carefully 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.

## County Highway Vicinity Map

Job #: 8047

Operator: SK NEMAHA

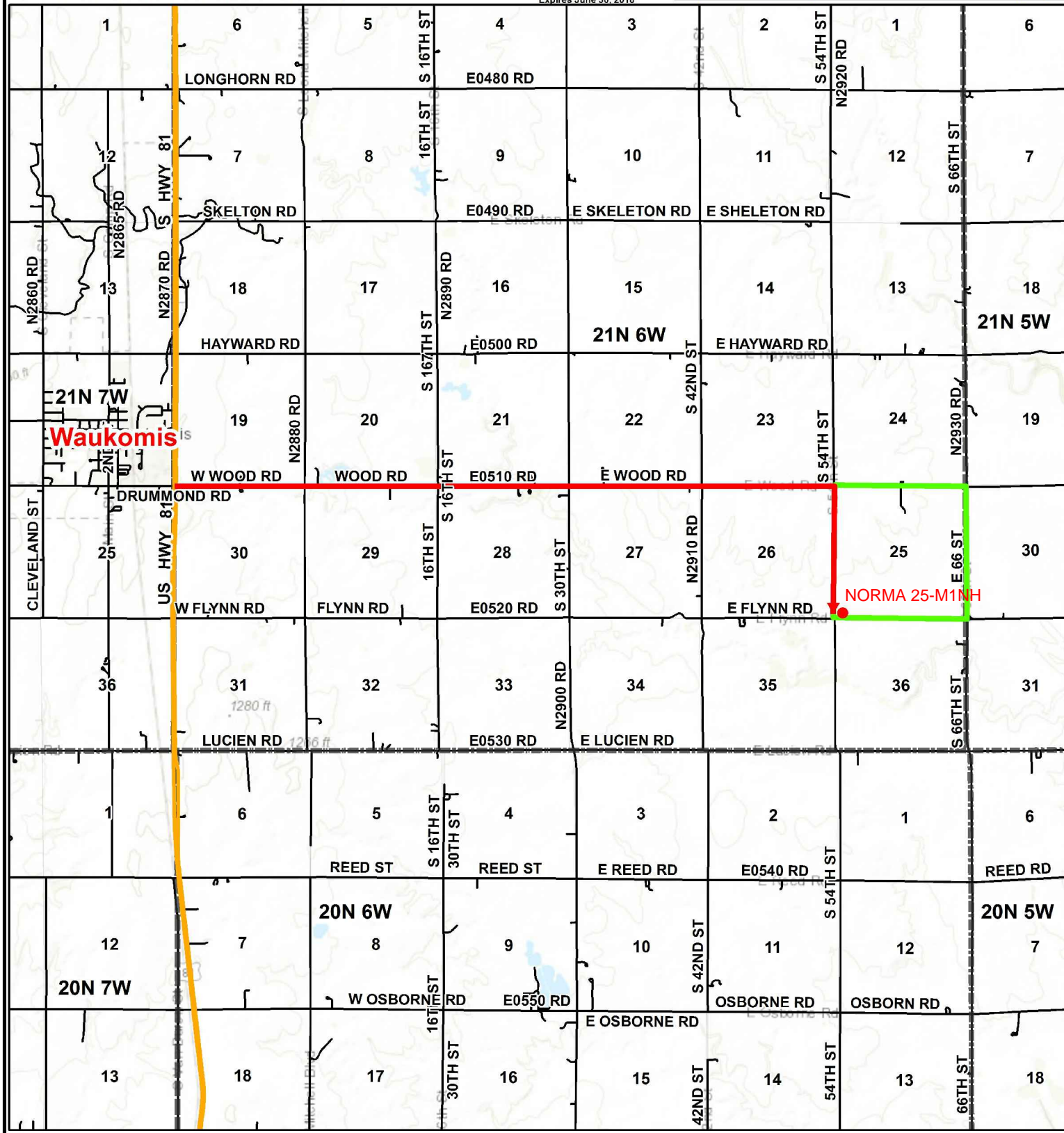
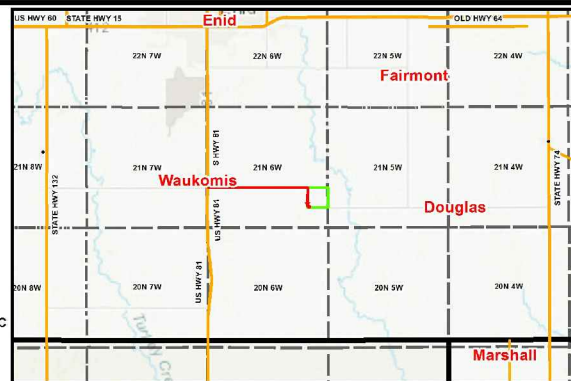
Lease Name and No.: NORMA 25-M1NH

**Accessibility: From the North.**

**Directions: From the junction of US HWY 81 & "EW 51 RD." in the town of Waukomis, OK, go 5.0 miles East on "EW 51 RD.", then go 1.0 mile South on "NS 292 RD." to the Southwest Quarter of Section 25-21N-6W on the East side of the road.**

**1 inch = 1 mile**

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# Anti-Collision

Sec. 25-21N-6W I.M.

Operator: SK NEMAHA

Lease Name and No.: NORMA 25-M1NH

Surface Hole Location: 220' FSL - 335' FWL

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Sec. 25 Twp. 21N Rng. 6W I.M.

County: Garfield State of Oklahoma

