ILLINOIS DEPARTMENT OF NATURAL RESOURCES

Office of Oil and Gas Resource Management
One Natural Resources Way Springfield, Illinois 62702-1271

HIGH VOLUME HORIZONTAL HYDRAULIC FRACTURING PERMIT APPLICATION HVHHF-10

References to "1-xx" or "§1-xx" are to the Hydraulic Fracturing Regulatory Act., 225 ILCS 732/1-1 et seq. References to "240.xxx" and "245.xxx" are to 62 Ill. Admin. Code 240 and 245, respectively.

Attachment: TrafficManagementPlan

Please save attachment and use the file name above.

Traffic Management Plan §1-35(b)(15), 245.210(a)(15).

(a) Identify anticipated roads, streets, and highways that will be used during construction, drilling operations, HVHF operations, production, and operations of the site

(b) Attach a scaled map of the routes listed above, including but not limited to any access roads, for at least a 10 mile radius, identifying all highway jurisdictions impacted, as well as any structures or property lines relevant to demonstrating compliance with Section 245.410 and 765 ILCS 530;

(c) state the anticipated start and end dates for construction of the well site, the drilling operations, the HVHF operations, and any other high traffic operations;

(d) identify the management measures used to minimize, mitigate, or compensate for stress to local roads and/or impact on regular traffic flow;

(e) provide the contact information for a person responsible for the traffic management plan;

(f) provide contact information for a representative of each impacted highway authority;

(g) did you submit copies of the traffic management plan to the impacted highway authorities?

☑ YES ☐ NO

Traffic Management Plan:

Well Site:	Woodrow 1H-310408-193
Site Manager:	Ryan Kelley
Health and Safety Representative:	Ryan Kelley
Company preparing TMP:	Shawnee Professional Services
Date of Plan:	10-31-2016
Date of Plan Review:	5-1-2017

INTRODUCTION

This Traffic Management Plan has been prepared for Woolsey Operating Company to describe how they will safely and effectively control, maintain and minimize impacts during the drilling and construction of the Woodrow 1H-310408-193 the area of the well site and also along vehicular routes utilized for material and equipment delivery, employee commutes, and hauling of brine waters from the well site. This plan has also been developed to satisfy requirements of the Hydraulic Fracturing Regulatory Act (Section 1-35(b)(15)). A copy of this plan will be kept on site for periodic review and training of site personnel with route maps given to all drivers to minimize adverse impact on roadways and to local users in the vicinity of the site and haul routes.

TRAFFIC MITIGATION MEASURES

Motorist Information and Construction Area Signs
Informing the road users is one way to help reduce the impacts from construction. Drivers would be informed about the construction and any major delays and/or detours, allowing them to modify their travel choices. Static signs can be used to inform users coming from each direction that there may be increased traffic due to drilling operations, HVHHF operations, or other high traffic operations to the north and south of County Road 1675N along U.S. Route 45.

Construction Staging
To mitigate any traffic impacts attributable to the construction workforce during the project, construction start times could be staggered during peak times such that the entire workforce required for each day could arrive/leave at different times.

Carpooling
While not expected, if needed, carpooling could be used during peak construction periods to reduce the total number of trips entering/leaving the site, and in turn, reduce any traffic congestion. The site manager can coordinate with the workforce to determine the best location and time to coordinate carpooling if needed. Another possible option would be to organize a shuttle that could take the workers from a centralized point.

Public Information and the Media
Updates to the local communities through the local newspaper could provide information to the current local users who could be impacted by construction of the Proposed Project. Newspaper bulletins could also provide information on the upcoming work and areas of impact to local users. Stakeholders such as Illinois Department of Transportation, White County Highway Department, and the Village of Enfield will be informed with outreach letters prior to construction. The letter will provide a description of the project and the time frame as well as outline any short-term restrictions that may impact the stakeholders. The letters will also provide contact information for any stakeholders who may have questions.

Off-Peak Hour Activities
To minimize adding trips during the daily workforce commute, deliveries would attempt to be scheduled during the off-peak hours as feasible.

POTENTIAL ADVERSE EFFECTS TO THE PUBLIC

Noise
County Road 1725 N, County Road 125 E, and County Road 1675 N will be travelled for access from the well site to U.S. Route 45. There are no residences along these roads so there will be minimal noise impact to local residents. The site manager shall ensure that all vehicles are fitted with well-maintained engine mufflers. Engine breaking is also prohibited for all haul trucks to and from the site.

Bicycles and Pedestrians
Bicycles and pedestrians are rare in the vicinity of the Proposed Project but could occasionally be present. The existing routes can accommodate bicycles or pedestrians during construction similarly as the current condition.

Delivery and Service Vehicles
US Route 45 is classified as a minor arterial roadway. It serves commercial trucking and delivery and service vehicles (approximately 525 trucks per day) with a full traffic count of 2000 vehicles per day. Most traffic is from the local area using it as the main connector to the I-64 corridor and the City of Fairfield. The Proposed Project may cause increased traffic volumes on US route 45, but delays are not expected. If delays were to occur, they would be expected to have a minor effect on delivery and service vehicles and local commuters.

Emergency Services
Emergency vehicles dispatched through 911 services for ambulance, sheriff, State Highway Patrol, and the local Fire Departments use the routes within the Project vicinity. The Village of Enfield Fire Department provides fire protection and White County Ambulance Department provides emergency medical services in the vicinity of the well site. Emergency services will not be interrupted by the proposed project. Both entities can be kept informed of construction progress at the site.

Roadway Conditions
During times of high truck traffic to and from the site, roadway condition can deteriorate quickly and cause unsafe conditions for users. Roadway conditions along County Road 1725 N, County Road 125 E, and County Road 1675 N will be monitored periodically by visual inspection of the site manager. Periodic videoing of the road surfaces will also be performed by an outside party to document roadway conditions throughout the project. Any roadway deficiencies caused by traffic related to the drilling operations or HVHHF operations will be addressed by the site operator (or its contractor) and/or the local jurisdiction.

School Transportation
Local elementary and high schools utilize the roadways for bus transportation to and from their facilities. Drivers shall be extra cognizant and aware of the need to take extreme caution during the hours of 7:00 to 8:00 AM and 2:00 to 4:30 PM when the presence of bus transportation is most possible. There shall be no overtaking of school busses unless flagged to do so by the driver of the bus.

RESPONSIBILITY

Site Manager Responsibilities
- Educating all transport operators the requirements of this transportation management plan.
- Enforcing the requirements of this transportation management plan.
- Investigating any community complaints.
- Recording and investigating any transport related accidents, incidents, or near misses.
- After proper investigation, inform transport operators of legitimate community complaints, and modified procedures to be followed to prevent repeat complaints.
- Make changes to procedures, transportation management plan, and/or signage to precent repeat transport related accidents, accidents, or near misses.
- Following inspection of road and safety signage, undertake maintenance as necessary.

Transport Operators (Driver) Responsibilities
- Understanding and following the transportation management plan.
- Reporting any accidents, incidents or near misses to the Site Manager.

ADDITIONAL TRANSPORTATION ITEMS

Roadway information for Primary Route to/from Well Site

The following information is intended to ensure that the transportation of materials to/from the well site is undertaken in a manner that is not excessively harmful to local and state roadways:

- County Road 1725 N (Woodrow #1H-310408-193 to County Road 125 E)
  - Gravel road, local/agriculture traffic only. Weight restrictions: None Posted
- County Road 125 E (County Road 1725 N to County Road 1675 N)
  - Gravel road, local/agriculture traffic only. Weight restrictions: None Posted
- County Road 1675 N (County Road 125 E to U.S. Route 45)
  - Gravel road, local/agriculture traffic only. Weight restrictions: None Posted
- U.S. Route 45 (County Road 1675 N to IL Route 1)
  - Paved road, local and non-local traffic. Weight restrictions: Single Axle: 20,000 lbs; Tandem Axle: 34,000 lbs.
- Illinois Route 1 (U.S. Route 45 to Tru Flow Facility)

Bituminous (High Type), local and non-local traffic. Weight restrictions: Single Axle: 20,000 lbs; Tandem Axle: 34,000 lbs

Pick up/drop off points for materials and speed restrictions *(e.g. vehicles, trucks, etc):*

The following safety features are recommended to ensure that the collection and disposal of materials to/from the well site is undertaken in a safe manner:

- Truck entry and exit signage to the well site should be located at:
  - Entry location to County Road 1675 N on U.S. Route 45.
- Designated loading and unloading areas are located at:
  - Well Site (Woodrow #1H-310408-193)
  - Tru Flo #1 Class II Injection Well (987 Illinois Highway 1, Carmi, IL)
- Speed restriction signage is clearly displayed at the following locations:
  - Upon entering the city limits of Enfield
  - Within Enfield just south of Logan Street
  - School Zone restriction from E Hosick Street to E Main Street
  - Within Enfield: Designated Pedestrian Crossing at E North Street
  - Four-Way stop intersection within Enfield city limits
  - Four-Way stop intersection with Illinois Route 14
  - Upon entering the city limits of Norris City
  - Norris City south of Orchard Street
  - Four-Way stop intersection within Norris City limits.

Bridge information for Primary Route to/from Well Site.

The following information is intended to ensure that the transportation of materials to/from the well site is undertaken in a manner that is not excessively harmful to local and state bridge structures:

- Bridge #097-3242:
  - Located 1.5 miles north of Enfield on County Road 125 N; prestress concrete structure; maximum roadway width 24.0 feet; crosses drainage ditch; weight limit:
- Bridge #097-0024:
  - Located in the town of Enfield on U.S. Route 45; steel structure; maximum roadway width 32.0 feet; crosses L & N Railroad; weight limit: Single Axle: 20,000 lbs; Tandem Axle: 34,000 lbs
- Bridge #097-2012:
  - Located 1.5 miles south of Enfield on U.S. Route 45; concrete structure; maximum roadway width 32.0 feet; crosses Seven Mile Creek; weight limit: Single Axle: 20,000 lbs; Tandem Axle: 34,000 lbs
- Bridge #097-2007:
  - Located in the town of Sacramento on U.S. Route 45; concrete structure; approx. roadway width 24.0 feet; crosses stream; weight limit: Single Axle: 20,000 lbs; Tandem Axle: 34,000 lbs
- Bridge #097-0012:
  - Located 3 miles south of Brownsville on Illinois Route 1; concrete structure; maximum roadway width 33.0 feet; crosses Lick Creek; weight limit: Single Axle: 20,000 lbs; Tandem Axle: 34,000 lbs

Special Events Along the Haul Routes *(e.g. Fairs, Church Gatherings, Sporting Events etc)*

Traffic control requirements for special events may vary. Specific control measures will need to be determined through a risk assessment process taking into consideration learning's from previous special events.

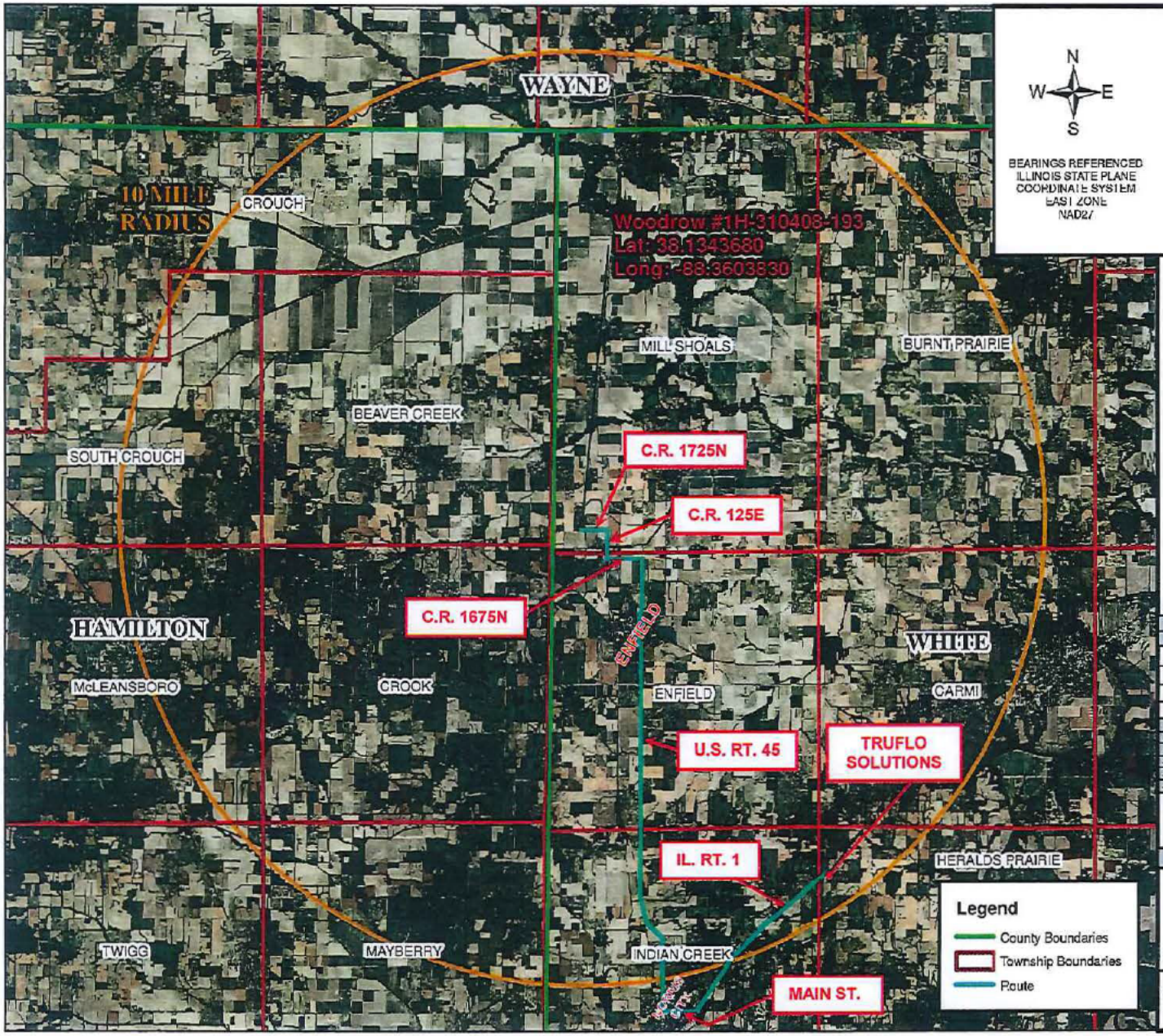
The following broad safety arrangements and features are in place to minimize the risks associated with special events in conjunction with previously documented control measures:

- Appropriate numbers of traffic controllers will be in place for all special events to restrict/direct traffic along the haul routes;
- Additional signage.
- Additional public notice through local newspaper or other means.

Affected Road Jurisdictions

Name	Address	Phone	Point of Contact
IDOT Region 4 District 7	400 W. Wabash Effingham, IL 62401	(217) 342-3951	Jeffrey M. South
IDOT Region 5 District 9	2801 W. Murphysboro Rd. Carbondale, IL 62901	(618) 549-2171	n/a
Hamilton Co. Highway Dept.	100 S. Jackson St. Rm 2 McLeansboro, IL 62859	(618) 643-2714	Kevin Phillips
Beaver Township (Hamilton)		618-383-1387	Vuel York
Crook Township (Hamilton)		618-516-2096	Gene Wheeler
Crouch Township (Hamilton)		618-927-7709	James Coy
Mayberry Township (Hamilton)		618-926-4559	Leeroy Sarris
White Co. Highway Dept.	1103 E. Main St. Carmi, IL 62821	(618) 382-4811	Brian Ray
Mill Shoals Township (White)		618-384-9690	Dennis Woodrow
Enfield Township (White)		618-262-1263	Joe Allen
Indian Creek Township (White)		618-384-7610	Jimmy Hoskins
Wayne Co. Highway Dept.	1309 E. Main St. Fairfield, IL 62837	(618) 847-7343	Dennis Seidel
Barnhill Township		618-842-3123	Ray Smuthers
Big Mound Township		618-847-5404	John Jones

Route Map *[Insert site map below]*



N
W E
S

BEARINGS REFERENCED
ILLINOIS STATE PLANE
COORDINATE SYSTEM
EAST ZONE
NAD27

SHAWNEE

104 S. 4th St.
P.O. Box 125
Vienna, IL 62995
618-658-6065

TRAFFIC MANAGEMENT PLAN
EXHIBIT "B"
WHITE, HAMILTON, WAYNE
COUNTIES, ILLINOIS

Path: S:\2016\2016-363 Trucflo Latham-1342\Access Maps

Revisions

#	Date	Note

Drafted by:	K. FIELD
Date:	11/22/2016
Reviewed by:	B. ABERNATHY
Scale:	1" = 14,000'
Job Number:	2016-363
Sheet:	1 of 1

Drawing Status:
- ■ Preliminary Drawing
- □ Final Drawing

Requested By:

Woolsey COMPANIES

This Professional Service Conforms to The Current Illinois Minimum Standards of Practice Applicable To Boundary Survey

CERTIFICATION[redacted]

[redacted] 5-4-17

Site Manager Date

[redacted] 5-4-17

Health & Safety Representative Date

Prepared by: Shawnee Professional Services

[redacted] 5-2-17

Billy J. Abernathy, PE – License No. 062-067174 Date

WOOLSEY OPERATING COMPANY, LLC
125 NORTH MARKET, SUITE 1000, WICHITA, KANSAS 67202-1775
(316) -267-4379 FAX (316) 267-4383

Woolsey Operating Company, LLC
Woodrow #1H-310408-193
White County, Illinois
High Volume Horizontal Hydraulic Fracturing Permit Application
HVHHF-10: Traffic Management Plan (c)

The following is anticipated start and end dates. Due to the unknowns of weather, surface conditions, farming operations, etc. dates ranges shown may overlap.

ACTIVITY	START DATES	END DATES
Well Site Construction	Sep 1, 2017 to Jan. 15, 2018	Sep. 1, 2017 to Jan. 15, 2018
Drilling Operations	Sep. 1, 2017 to Jan. 15, 2018	Sep. 1, 2017 to Jan. 15, 2018
HVHHF Operations	November 1, 2017	May 31, 2018

WOOLSEY OPERATING COMPANY, LLC
125 NORTH MARKET, SUITE 1000, WICHITA, KANSAS 67202-1775
(316) -267-4379 FAX (316) 267-4383

Woolsey Operating Company, LLC
Woodrow #1H-310408-193
White County, Illinois
High Volume Horizontal Hydraulic Fracturing Permit Application
HVHHF-10: Traffic Management Plan

Copies of the traffic management plan have been submitted to the impacted highway and road authorities as required under 245.210(a)(15).