

Casey A. Furey  
100 West Broadway, Suite 250  
P.O. Box 2798  
Bismarck, ND 58502-2798  
701.223.6585  
cfurey@crowleyfleck.com

November 10, 2023

***Via Electronic Mail & U.S. Mail***

Mr. Steve Kahl  
Executive Director  
North Dakota Public Service Commission  
600 E. Boulevard, Dept. 408  
Bismarck, ND 58505-0480  
[ndpsc@nd.gov](mailto:ndpsc@nd.gov)

In re: ONEOK Rockies Midstream, L.L.C.  
Cherry Creek Extension Pipeline Project  
McKenzie County  
Case No. PU-23-015  
Our File No. 072530-000018

Dear Mr. Kahl:

Enclosed for filing on behalf of ONEOK Rockies Midstream, L.L.C. in the above-referenced matter, please find eight copies of McKenzie County Utility Permit No. OB231106TG which updates the project description previously included in Utility Permit No. OR231001TG submitted on October 17, 2023 as Docket No. 31.

Please feel free to contact me if you have any questions. Thank you.

Sincerely,

*/s/ Casey A. Furey*

Casey A. Furey

CAF/lh  
enc.

cc: Michael Dailey (via email)

**McKenzie County**1300 12<sup>th</sup> Street SE, Suite 240

Watford City, ND 58854

Ph. 701-444-2600

[county.mckenziecounty.net](http://county.mckenziecounty.net)PERMIT #:  
OB231106TG**UTILITY PERMIT APPLICATION**

All applications must be legible, printed in ink or typed, and suitable for reproduction. A completed Utility Permit Application is to be submitted to the Engineering Department for permanent and temporary utilities. The Utility Permit Application Review Checklist is to be filled out by the Applicant and is to accompany all Applications.

**APPLICATION TYPE**
 TEMPORARY      PERMANENT
**UTILITY OWNER INFORMATION**

UTILITY OWNER NAME:

ONEOK Bakken Pipeline, L.L.C.

EMAIL:

tom.giltner@oneok.com

PHONE NUMBER:

406-433-8505

MAILING ADDRESS:

896 25th Street SE, Sidney, MT 59270

**PERMIT APPLICATION INFORMATION**

APPLICANT NAME:

Tom Giltner

EMAIL:

tom.giltner@oneok.com

PHONE NUMBER:

406-433-8505

MAILING ADDRESS:

896 25th Street SE, Sidney, MT 59270

**CONTRACTOR INFORMATION**

CONTRACTOR NAME:

Jomax Construction

EMAIL:

steve.barrow@jomaxgb.us

PHONE NUMBER:

701-842-2685

MAILING ADDRESS:

12274 26th F St. NW, Watford City, ND 58854

**ORGANIZED TOWNSHIP INFORMATION**

If proposed utility is in an organized township, approval may be required by the township. Check the County website to see which townships require approval.

TOWNSHIP:     YES     NO

If yes, which township?

Alex and Arnegard

**UTILITY INFORMATION**

Please give a brief description of the proposed facility. A sketch, drawing, or engineered plans along with maps associated with the location(s) and route of the proposed work must be submitted with this application. Detailed location maps showing lateral and longitudinal offsets from roadway centerlines are required for a permit.

carbon steel line for the transport of natural gas liquids

This permit is an update to permit OR231001TG



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**UTILITY INFORMATION (CONTINUED)**

Complete the following information, as applicable.

SIZE OF UTILITY: 12"	NUMBER OF CABLES: n/a	LENGTH OF GUY DOWNS: n/a
PIPELINE PRESSURE: MAOP of 1,440 psig	CASING SIZE: n/a	CASING LENGTH: n/a
LOCATION OF POLE(S): n/a	NUMBER OF APPURTENANCES IN ROW: n/a	TYPE OF MATERIAL: carbon steel
CULVERT CROSSING SIZE: n/a	LOCATION – OTHERS:	

TYPE OF WORK: Select all that apply.

- MULTI-FAMILY   
  SINGLE FAMILY   
  AGRICULTURE   
  COMMERCIAL   
  INDUSTRIAL  
 ROAD BORE   
  CABLE BORE   
  SECTION LINE CROSSING   
  OVERHEAD  
 ELECTRIC   
  TELECOM   
  GAS   
  OIL   
  WATER  
 OTHER natural gas liquids

**INSTALLATION**

START DATE: 10 / 2 / 2023      END DATE: 1 / 2 / 2024

**LOCATION INFORMATION**

Use additional sheet provided, as needed.

ROAD OR SECTION LINE	ALONG OR ACROSS	SECTION		TOWNSHIP		RANGE		OFFICE USE ONLY	
		FROM	TO	FROM	TO	FROM	TO	TYPE	FEE
138th Ave. NW	Across	36	31	150N	150N	101W	100W	Permit OR	231001TG
137th Ave. NW	Across	31	32	150N	150N	101W	100W	Permit OR	231001TG
24th Street NW	Across	32	5	150N	149N	100W	100W	Permit OR	231001TG
137th Ave. NW	Across	5	5	149N	149N	100W	100W		
137th Ave. NW	Across	5	5	149N	149N	100W	100W		
Section Line	Across	5	8	149N	149N	100W	100W	Permit OR	231001TG
Fees paid on permit OR231001TG								TOTAL FEE:	\$0



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### **TERMS AND CONDITIONS**

Facility Owner, as noted on reverse hereinafter referred to as "Utility Company", having requested permission from McKenzie County, a political subdivision of the State of North Dakota, to cross an existing road, run within its right-of-way easement, or section line with a buried or overhead transmission facility designed to carry or conduct oil, gas, water, electricity, telephone or any other substance or service whatsoever, and McKenzie County having considered the request does grant consent to cross the existing road or section line, or run within its right-of-way or easement as noted on reverse, upon the terms and conditions herein stated.

Consent to cross such existing road or section line is granted on these terms and conditions:

1. Utility company must pay for all damage to the existing road caused by its activities, including but not limited to slumping in of trenches and collapse of pipe. Utility company is responsible for restoring and reclaiming any land used for temporary or permanent utilities to their original condition.
2. Utility company is responsible for any and all claims of damage, personal injury, or bodily injury that is the fault of the utility company. Furthermore, utility company agrees to indemnify and hold harmless McKenzie County for any and all claims of damage, either personal injury or property or any type of claim for damages of any nature whatsoever, whether valid or invalid, that is made against McKenzie County on account of the activities conducted by the utility company in crossing any existing road or section line.
3. When the utility company crosses an existing road or section line, or places a line parallel to the road in the right-of-way, the utility company shall be responsible to pay for all costs of moving, relocating, or reconstructing the temporary or permanent utility facility should McKenzie County deem it necessary or advisable in its sole discretion. Roads may be built on the section line or off the section line as allowed by North Dakota law. Should the utility company fail to take the necessary steps to relocate or reconstruct its permanent or temporary utility facility, the County may take steps to have the same accomplished, and the utility company agrees to reimburse the County for all expenses incurred by McKenzie County in moving, relocating, or reconstructing the utility facility so the existing roads may be repaired or reconstructed, or new roads may be built on the section line or off of the section line as allowed by North Dakota Law.
4. The buried or overhead transmission facility to be installed by the utility company in crossing any existing road shall, at a minimum, comply with the following engineering standards:
  - a. Pipe shall be cased or heavy wall pipe used.
  - b. All overhead powerlines crossing over public streets, roads, and non-residential driveways with truck traffic must maintain a minimum height of 18ft.
  - c. All bores under county roads must be approved by the Road and Bridge Department.
  - d. All crossings of existing roads not trenched as in Section 5 below shall be bored to a depth of five (5) feet below original ground or ditch elevations.
  - e. All parallel borings must be a minimum of thirty (30) feet from road centerline.
  - f. Vent pipes must be outside existing right-of-way lines.
  - g. All disturbed ground within right-of-way must be rehabilitated by covering with black dirt and seeding with an approved mix approved by the Road and Bridge Department.
  - h. If vent pipes are not used within the (10) feet of both sides of right-of-way, the transmission facility must have markers on the right-of-way line or 33-foot line, whichever is greater, on both sides of the road.
  - i. The Company's plan to bury a transmission facility filed with the County Engineer must show, at a minimum, in plain view and cross sectional view, the location of the crossing from a section or quarter line; section, township and range the crossing is located in; the location of vent pipes, if any, in proximity to the crossing; and the angle of crossing.
  - j. The Company's plan must be submitted to the Office of the County Engineer for review at least two (2) weeks prior to the commencement of the project.
5. Any crossing installed by trenching or plowing in may be no more than eight (8) inches in width. The Company will apply surfacing materials and compact the site, returning it as close as possible to the original compaction. The Utility Company will be responsible for all such crossings for a period of three (3) years, repairing during those three (3) years any damages to the road resulting from their activity. Any crossing which cannot be accomplished with this method must be bored. All road trenching and reconstruction shall be inspected and approved by the Road and Bridge Department.
6. Temporary utility lines that are parallel to a county-maintained road must exist outside the clear zone. The clear zone on a gravel road is 30 feet from the outside edge of the shoulder of the road. The clear zone on a paved road is 30 feet from the outside edge of the shoulder of the road. Applicants are required to permit temporary lines that parallel a county-maintained road, pass through culverts or cattle guards, as well as cross section lines. Application fees are non-refundable. When a permit is requested the fee that is distributed by the Road and Bridge Department is considered the application fee. If the utility is not implemented, the fee MUST still be paid. Accounts will not be credited for unused or expired permits. Any refunds will be at the discretion of the Road and Bridge Department.
7. Utility company must comply with all terms and conditions stated herein, with particular attention to the required engineering standards. McKenzie County shall give written notice to utility company in the event it believes the utility company has failed to meet any of the terms or conditions of the permit. Utility company representative shall meet with McKenzie County engineer or his representative within three (3) days of such notice (unless a longer time is requested by McKenzie County) to discuss and review the alleged violation of terms and conditions: if utility company agrees with McKenzie County that terms and conditions have been violated, utility company shall begin work within 24 hours (or such longer time as McKenzie County might allow) to correct such violations of terms and conditions and shall work diligently until such violations are



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corrected. If utility company fails to begin work timely or diligently to correct such violations, utility company shall be deemed to have failed to comply with the **CONDITIONAL CONSENT**. Failure to comply with this **CONDITIONAL CONSENT** shall cause the consent to be rescinded and utility company must remove facility from right-of-way immediately or be responsible for the costs incurred by the County in removing the same. The County specifically reserves the right to remove the buried, overhead, or temporary transmission facility from right-of-way for non-compliance and reimbursement will be made to the County by utility company for doing the same. If utility company disagrees with McKenzie that it is in violation of the terms and conditions as outlined in the permit, utility company shall nevertheless comply with the demands of McKenzie County; but, if it is later determined that McKenzie County was in error in its position, McKenzie County will reimburse utility company for its costs in complying with McKenzie County's demands.

8. For purposes of this permit "highway right-of-way" shall mean the highway right-of-way as it exists on the date of execution of this permit and shall also include that area within seventy-five feet of the center of the highway right-of-way over which the Board of McKenzie County Commission has control pursuant to North Dakota Century Code 24-01-42.
9. Permanent utility applications are valid for one year upon approval. After one year the applicant must reapply for the permit.
10. Temporary utility applications are valid for 180 days upon approval. After 180 days the applicant must reapply for the permit.
11. It is the Applicant's responsibility to verify the legal ownership of property authorized herein. Any information provided to the County regarding legal property ownership is in this regard shall not be considered as official legal information. Such official legal information is maintained in the records of the County Recorder's Office.
12. No inherent or retained right or privilege of any abutting property owner is affected by this permit nor is the County responsible for any claims which may develop between the permittee and any property owner concerning use of the right-of-way. Permittee is responsible for maintaining ingress/egress of private driveways during the installation of its facilities and for restoration of driveways during installation of its facilities and for restoration of driveways to the owners' satisfaction.
13. This permit has been approved based on information provided by the applicant. It is the applicant's responsibility to ensure that the information on the approved permit is correct. Any deviation from the approved permit will constitute it as an unauthorized permit and fees will apply

**SIGNATURE**

**AUTHORIZED AGENT OF THE UTILITY COMPANY**

I, the undersigned, being an authorized agent of the Utility Company described above, do hereby agree on behalf of the utility company that all terms and conditions listed on the reverse will be complied with, and any assignment of this utility facility described above shall include an assignment of this liability to comply with the Terms and Conditions as stated herein.

DocuSigned by:  APPLICANT SIGNATURE	11/6/2023 DATE
--	-------------------

**OFFICE USE ONLY**

**APPROVAL STAMP**



**CONDITIONS:**



**APPROVED**

By Tim Pickering at 11:42 am, Nov 08, 2023



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## UTILITY PERMIT APPLICATION REVIEW CHECKLIST

### PROJECT INFORMATION

PERMIT NUMBER:  
OB231106TG

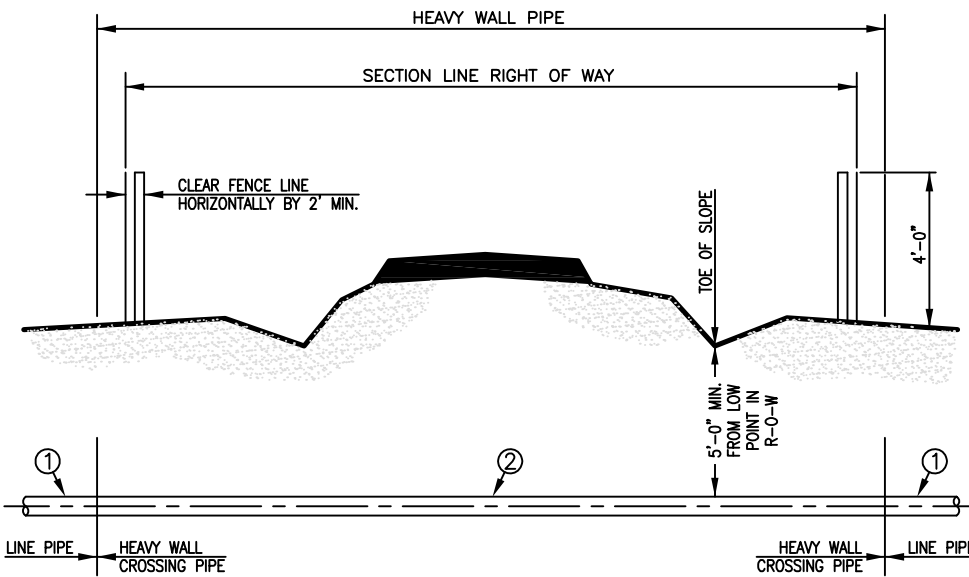
UTILITY OWNER:  
ONEOK Bakken Pipeline, L.L.C.

### REVIEW CHECKLIST

SUBMITTAL REQUIREMENTS	APPLICANT CHECKLIST	COUNTY STAFF REVIEW
Map of entire project. Map is to include the facility locations and distances off of the centerline of the road and/or section line, including pipe, appurtenances, types of crossing, etc.	X	
Bore profile of all crossings to include depth of bore, beginning and ending location of bore, and centerline of road and/or section line.	X	
Landowner Agreements and/or Easements.	X	
Approved Federal, State, and Local permits, as applicable.		
Completed and signed approach permit for any temporary and/or permanent approaches needed.		
Completed and signed Township Approval Form, if applicable.		
For temporary utilities, the County's Planning and Zoning Department has been notified.		

# McKENZIE COUNTY, NORTH DAKOTA

## T150N-R100W, SECTION 36 & T150N-R100W, SECTION 31, 5TH P.M.

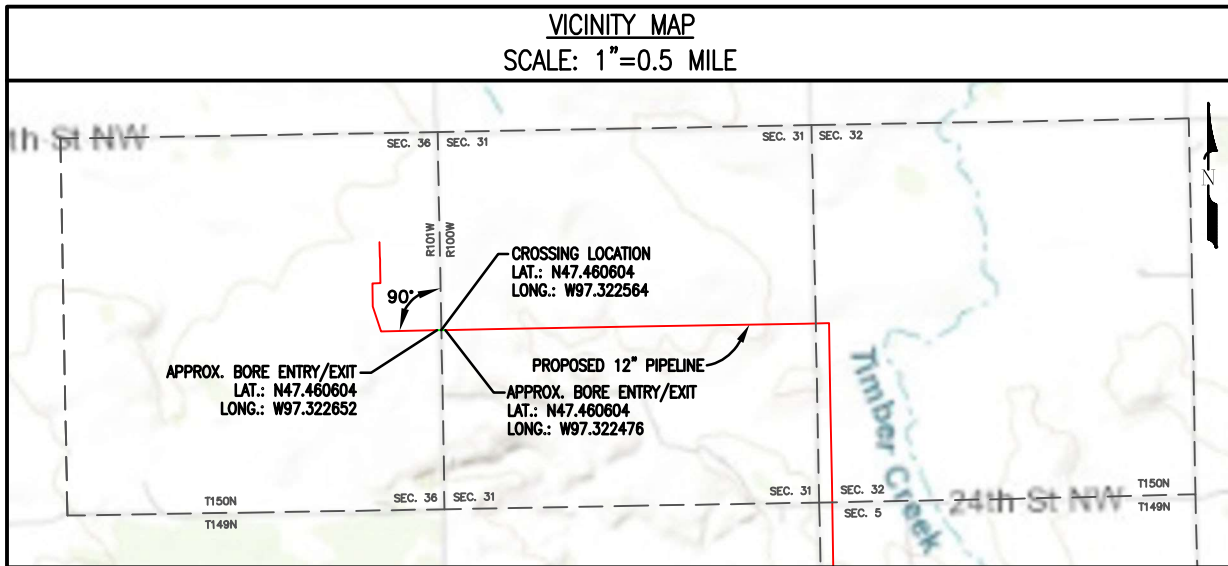


LEGEND	
①	LINE PIPE: 12.750" O.D. x 0.375" W.T. API, 5L, ERW, X-60, 14-16 MILS FBE, TRL
②	HEAVY WALL PIPE: 12.750" O.D. x 0.375" W.T., API, 5L, ERW, X-60, 14-16 MILS FBE, 30 MILS ARO, DRL

DESCRIPTION	CARRIER PIPE
CONTENTS TO BE HANDLED	NATURAL GAS LIQUID (NGL's)
PIPE MATERIAL	CARBON STEEL
SPECIFICATION AND GRADE	API-5L-X60
DESIGN PRESSURE	1480 PSI

ISSUED FOR PERMIT  
NOT FOR CONSTRUCTION,  
RECORDING PURPOSES, OR  
IMPLEMENTATION

**TYPICAL BORED ROAD CROSSING - UNCASD**



**NOTES:**

1. CROSSING SHALL BE IN ACCORDANCE WITH APPLICABLE PERMIT.
2. CROSSING PIPE SHALL EXTEND AT A MINIMUM TO RIGHT OF WAY LINE. THE TYPE AND MINIMUM REQUIRED LENGTH OF PIPE FOR CROSSING SHALL BE AS SPECIFIED ON ALIGNMENT SHEETS.
3. PIPELINE MARKER & TEST STATIONS TO BE INSTALLED ON R.O.W. LINE NEXT TO FENCE IF POSSIBLE.
4. THE CROSSING PIPE SHALL BE STRAIGHT WITH NO VERTICAL OR HORIZONTAL BENDS WITHIN THE COUNTY ROAD RIGHT OF WAY.
5. BORE ENTRY AND EXIT WILL BE LOCATED OUTSIDE OF THE COUNTY ROAD RIGHT OF WAY.

**EnSiteUSA**  
12101 EAST 51st STREET SUITE  
104 TULSA, OK 74146 TEL:  
(918) 307-7600  
www.ensiteusa.com

**ONEOK**  
BAKKEN PIPELINE  
A SUBSIDIARY OF ONEOK

DRAWN EUSA	DATE 09/07/2022
CHK'D ESC	DATE 09/07/2022
APP'D AJB	DATE 09/07/2022
SCALE N.T.S.	JOB NO. 7476.0000

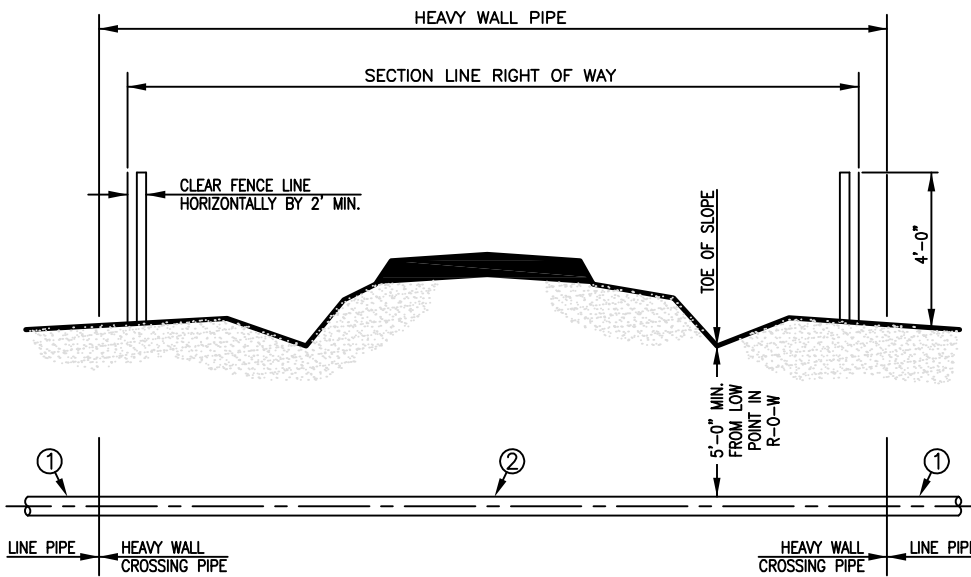
### PERMIT

**ONEOK BAKKEN PIPELINE, LLC**  
**PROPOSED CCE 12" PIPELINE CROSSING**  
**138th AVENUE NW**  
McKENZIE COUNTY, NORTH DAKOTA

SHEET 1 OF 1	DWG NO. NDMK.CC.003.00	REV 1
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# McKENZIE COUNTY, NORTH DAKOTA

## T150N-R100W, SECTION 31 & 32, 5TH P.M.

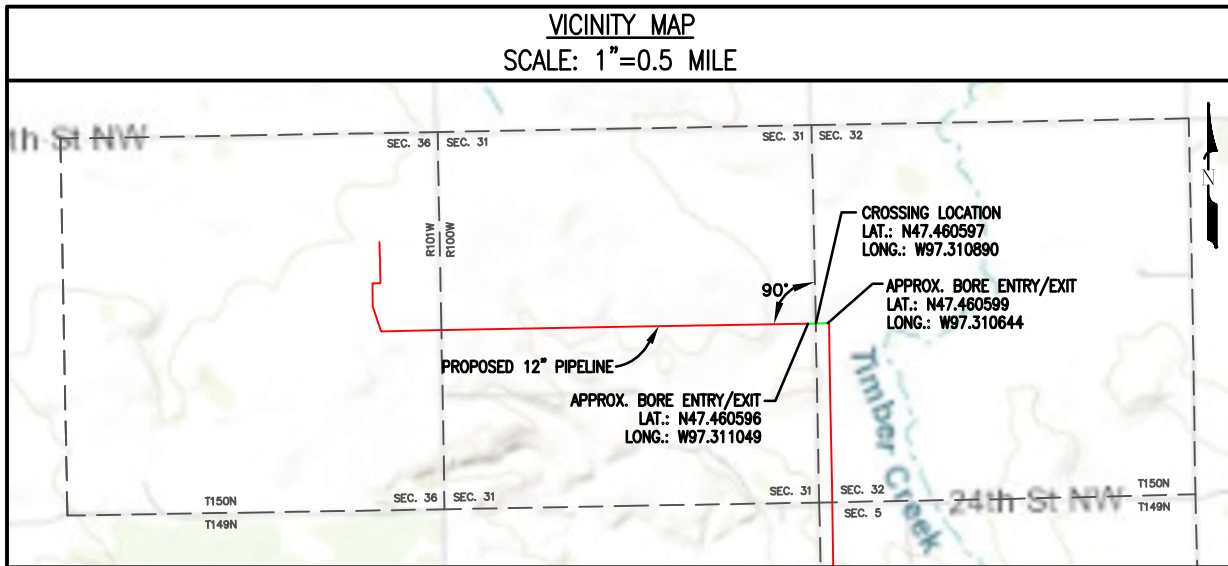


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DRAWN EUSA	DATE 09/07/2022
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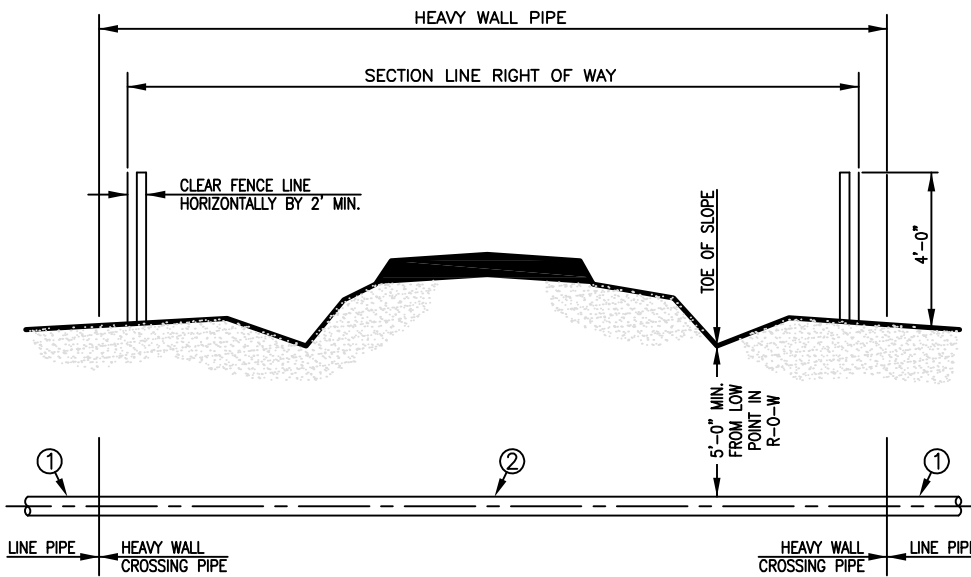
### PERMIT

**ONEOK BAKKEN PIPELINE, LLC**  
**PROPOSED CCE 12" PIPELINE CROSSING**  
**137th AVENUE NW**  
McKENZIE COUNTY, NORTH DAKOTA

SHEET 1 OF 1	DWG NO. NDMK.CC.005.00	REV 1
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# McKENZIE COUNTY, NORTH DAKOTA

## T150N-R100W, SECTION 32 & T149N-R100W, SECTION 5, 5TH P.M.

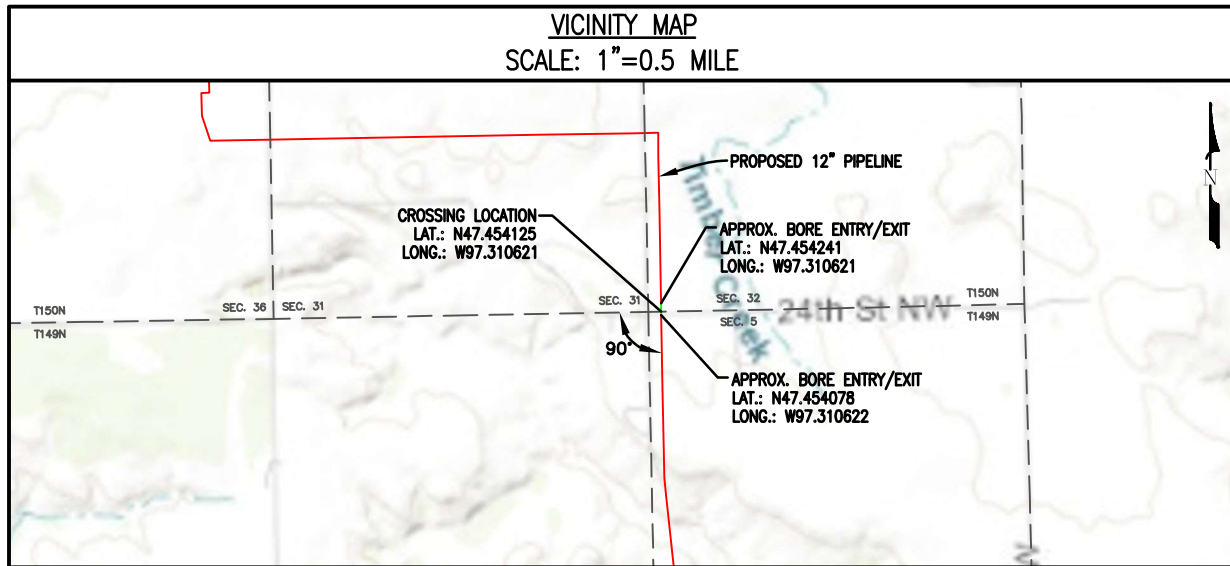


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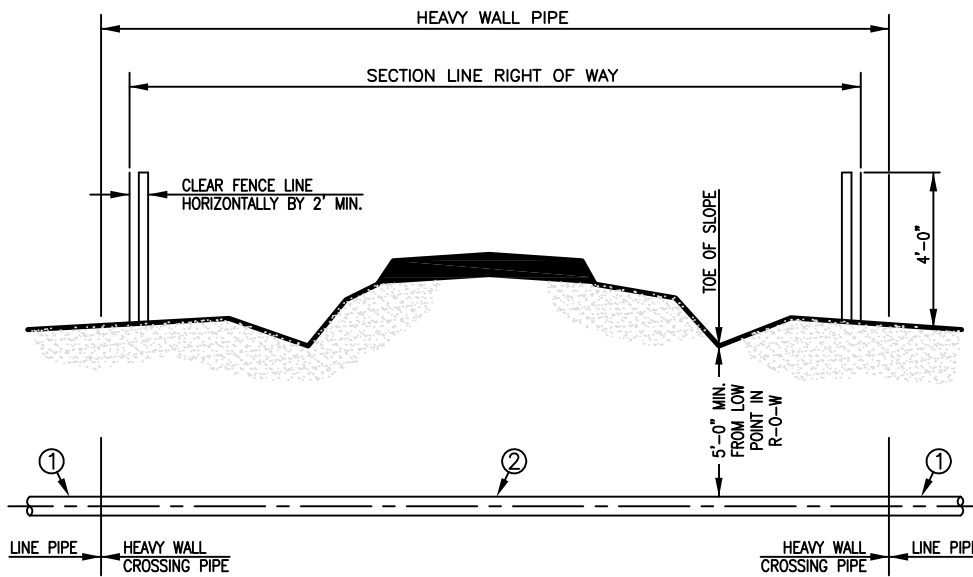
**PERMIT**

**ONEOK BAKKEN PIPELINE, LLC**  
**PROPOSED CCE 12" PIPELINE CROSSING**  
**24th STREET NW**  
McKENZIE COUNTY, NORTH DAKOTA

SHEET 1 OF 1	DWG NO. NDMK.CC.007.00	REV 1
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# McKENZIE COUNTY, NORTH DAKOTA

## T149N-R100W, SECTION 5 & 8, 5TH P.M.



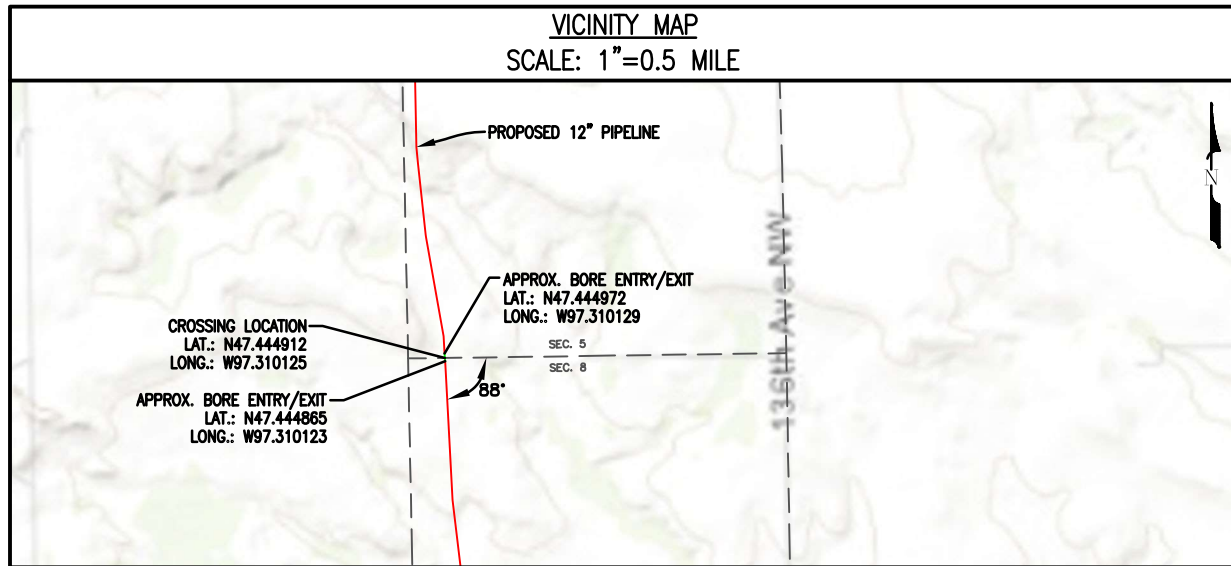
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SPECIFICATION AND GRADE	API-5L-X60
DESIGN PRESSURE	1480 PSI

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SCALE N.T.S.	JOB NO. 7476.0000

**PERMIT**

**ONEOK BAKKEN PIPELINE, LLC**  
**PROPOSED CCE 12" PIPELINE CROSSING**  
**23rd STREET NW (NOT OPEN)**

McKENZIE COUNTY, NORTH DAKOTA

SHEET 1 OF 1	DWG NO. NDMK.CC.011.00	REV 1
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Case:23RD STREET NW	Project:ONEOK BAKKEN PIPELINE
API 1102 - Pipeline Crossing Highway (Liquid)	Date:11/2/2023

Pipe Description:			
Entity: N/A			
Pipe Type	Pipe Line - API Specification 5L	Location Class	
Nominal Pipe Diameter	12-3/4 inch	Design Factor	0.72
Outside Diameter	12.750 inch	Joint Type	Electric Resistance Welded and Flash Welded
Wall Thickness	0.375 inch	Longitudinal Joint Factor	1.0
Wall Thickness in Analysis	NA	Youngs Modulus of Elasticity	29000000.00 psi
Pipe Grade	X60	Poisson's Ratio	0.3
SMYS	60000 psi	Coefficient of Thermal Expansion	0.0000065 1/deg F

Operational Parameters:		T - Temperature Derating Factor:	
Operating Temperature	60.0 deg F	Temperature	250.0 or less deg F
Operating Pressure	1480.00 psi	Temperature Derating Factor	1.000

Installation and Site Characteristics:			
Soil Characteristics:		Soft to medium clays and silts with high plasticities	
E' - Modulus of Soil Reaction	200.00 psi	Pipe Depth	5.00 ft
Er - Resilient Modulus	5000.00 psi	Bored Diameter	18.000 inch
Average Unit Weight of Soil	120.00 lb/ft3	Allowable Total Stress Factor	0.72
Pavement Type:	Flexible	Installation Temperature	60.0 deg F
Impact Factor Method:	ASCE - Highway	Design Wheel Load from Single Axle	20000.00 lbf
		Design Wheel Load from Tandem Axles	34000.00 lbf

Stress Check Method:		
API 1102 Procedure		

Results			
Hoop Stress	33576.53 psi	Highway Stiffness Factor for Cyclic Longitudinal Stress	13.9
Allowable Hoop Stress	43200.00 psi	Highway Geometry Factor for Cyclic Longitudinal Stress	1.08
Stiffness Factor for Earth Load Circumferential Stress	2669	Cyclic Longitudinal Stress	5316.00 psi
Burial Factor for Earth Load Circumferential Stress	0.91	Maximum Circumferential Stress	43374.60 psi
Excavation Factor for Earth Load Circumferential Stress	1.65	Maximum Longitudinal Stress	16225.28 psi
Circumferential Stress from Earth Load	3525.60 psi	Maximum Radial Stress Result	-1480.00 psi
Impact Factor	1.5	Total Effective Stress	39131.18 psi
Critical Case: Tandem Axles	236.1	Allowable Effective Stress	43200.00 psi
Highway Stiffness Factor for Cyclic Circumferential Stress	18	Fatigue Resistance of Girth Welds	8640.00 psi
Highway Geometry Factor for Cyclic Circumferential Stress	1.1	Fatigue Resistance of Longitudinal Welds	16560.00 psi
Cyclic Circumferential Stress	7012.00 psi		

Stress	Calculated psi	Allowable psi	PASS/FAIL
Barlow Stress	33577.00	43200.00	PASS
Effective Stress	39131.20	43200.00	PASS
Girth Welds	5316.50	8640.00	PASS
Long. Welds	7012.00	16560.00	PASS

**Notes:**

**Reference:** API RP 1102 "Steel Pipelines Crossing RailRoads And Highways"

Case:24TH STREET NW	Project:ONEOK BAKKEN PIPELINE
API 1102 - Pipeline Crossing Highway (Liquid)	Date:11/2/2023

Pipe Description:			
Entity: N/A			
Pipe Type	Pipe Line - API Specification 5L	Location Class	
Nominal Pipe Diameter	12-3/4 inch	Design Factor	0.72
Outside Diameter	12.750 inch	Joint Type	Electric Resistance Welded and Flash Welded
Wall Thickness	0.375 inch	Longitudinal Joint Factor	1.0
Wall Thickness in Analysis	NA	Youngs Modulus of Elasticity	29000000.00 psi
Pipe Grade	X60	Poisson's Ratio	0.3
SMYS	60000 psi	Coefficient of Thermal Expansion	0.0000065 1/deg F

Operational Parameters:		T - Temperature Derating Factor:	
Operating Temperature	60.0 deg F	Temperature	250.0 or less deg F
Operating Pressure	1480.00 psi	Temperature Derating Factor	1.000

Installation and Site Characteristics:			
Soil Characteristics:	Soft to medium clays and silts with high plasticities		
E' - Modulus of Soil Reaction	200.00 psi	Pipe Depth	5.00 ft
Er - Resilient Modulus	5000.00 psi	Bored Diameter	18.000 inch
Average Unit Weight of Soil	120.00 lb/ft3	Allowable Total Stress Factor	0.72
Pavement Type:	Flexible	Installation Temperature	60.0 deg F
Impact Factor Method:	ASCE - Highway	Design Wheel Load from Single Axle	20000.00 lbf
		Design Wheel Load from Tandem Axles	34000.00 lbf

Stress Check Method:		
API 1102 Procedure		

Results			
Hoop Stress	33576.53 psi	Highway Stiffness Factor for Cyclic Longitudinal Stress	13.9
Allowable Hoop Stress	43200.00 psi	Highway Geometry Factor for Cyclic Longitudinal Stress	1.08
Stiffness Factor for Earth Load Circumferential Stress	2669	Cyclic Longitudinal Stress	5316.00 psi
Burial Factor for Earth Load Circumferential Stress	0.91	Maximum Circumferential Stress	43374.60 psi
Excavation Factor for Earth Load Circumferential Stress	1.65	Maximum Longitudinal Stress	16225.28 psi
Circumferential Stress from Earth Load	3525.60 psi	Maximum Radial Stress Result	-1480.00 psi
Impact Factor	1.5	Total Effective Stress	39131.18 psi
Critical Case: Tandem Axles	236.1	Allowable Effective Stress	43200.00 psi
Highway Stiffness Factor for Cyclic Circumferential Stress	18	Fatigue Resistance of Girth Welds	8640.00 psi
Highway Geometry Factor for Cyclic Circumferential Stress	1.1	Fatigue Resistance of Longitudinal Welds	16560.00 psi
Cyclic Circumferential Stress	7012.00 psi		

Stress	Calculated psi	Allowable psi	PASS/FAIL
Barlow Stress	33577.00	43200.00	PASS
Effective Stress	39131.20	43200.00	PASS
Girth Welds	5316.50	8640.00	PASS
Long. Welds	7012.00	16560.00	PASS

**Notes:**

**Reference:** API RP 1102 "Steel Pipelines Crossing RailRoads And Highways"

Case:137TH AVENUE NW	Project:ONEOK BAKKEN PIPELINE
API 1102 - Pipeline Crossing Highway (Liquid)	Date:11/2/2023

Pipe Description:			
Entity: N/A			
Pipe Type	Pipe Line - API Specification 5L	Location Class	
Nominal Pipe Diameter	12-3/4 inch	Design Factor	0.72
Outside Diameter	12.750 inch	Joint Type	Electric Resistance Welded and Flash Welded
Wall Thickness	0.375 inch	Longitudinal Joint Factor	1.0
Wall Thickness in Analysis	NA	Youngs Modulus of Elasticity	29000000.00 psi
Pipe Grade	X60	Poisson's Ratio	0.3
SMYS	60000 psi	Coefficient of Thermal Expansion	0.0000065 1/deg F

Operational Parameters:		T - Temperature Derating Factor:	
Operating Temperature	60.0 deg F	Temperature	250.0 or less deg F
Operating Pressure	1480.00 psi	Temperature Derating Factor	1.000

Installation and Site Characteristics:			
Soil Characteristics:	Soft to medium clays and silts with high plasticities		
E' - Modulus of Soil Reaction	200.00 psi	Pipe Depth	5.00 ft
Er - Resilient Modulus	5000.00 psi	Bored Diameter	18.000 inch
Average Unit Weight of Soil	120.00 lb/ft3	Allowable Total Stress Factor	0.72
Pavement Type:	Flexible	Installation Temperature	60.0 deg F
Impact Factor Method:	ASCE - Highway	Design Wheel Load from Single Axle	20000.00 lbf
		Design Wheel Load from Tandem Axles	34000.00 lbf

Stress Check Method:		
API 1102 Procedure		

Results			
Hoop Stress	33576.53 psi	Highway Stiffness Factor for Cyclic Longitudinal Stress	13.9
Allowable Hoop Stress	43200.00 psi	Highway Geometry Factor for Cyclic Longitudinal Stress	1.08
Stiffness Factor for Earth Load Circumferential Stress	2669	Cyclic Longitudinal Stress	5316.00 psi
Burial Factor for Earth Load Circumferential Stress	0.91	Maximum Circumferential Stress	43374.60 psi
Excavation Factor for Earth Load Circumferential Stress	1.65	Maximum Longitudinal Stress	16225.28 psi
Circumferential Stress from Earth Load	3525.60 psi	Maximum Radial Stress Result	-1480.00 psi
Impact Factor	1.5	Total Effective Stress	39131.18 psi
Critical Case: Tandem Axles	236.1	Allowable Effective Stress	43200.00 psi
Highway Stiffness Factor for Cyclic Circumferential Stress	18	Fatigue Resistance of Girth Welds	8640.00 psi
Highway Geometry Factor for Cyclic Circumferential Stress	1.1	Fatigue Resistance of Longitudinal Welds	16560.00 psi
Cyclic Circumferential Stress	7012.00 psi		

Stress	Calculated psi	Allowable psi	PASS/FAIL
Barlow Stress	33577.00	43200.00	PASS
Effective Stress	39131.20	43200.00	PASS
Girth Welds	5316.50	8640.00	PASS
Long. Welds	7012.00	16560.00	PASS

**Notes:**

**Reference:** API RP 1102 "Steel Pipelines Crossing RailRoads And Highways"

Case:138TH AVENUE NW	Project:ONEOK BAKKEN PIPELINE
API 1102 - Pipeline Crossing Highway (Liquid)	Date:11/2/2023

Pipe Description:			
Entity: N/A			
Pipe Type	Pipe Line - API Specification 5L	Location Class	
Nominal Pipe Diameter	12-3/4 inch	Design Factor	0.72
Outside Diameter	12.750 inch	Joint Type	Electric Resistance Welded and Flash Welded
Wall Thickness	0.375 inch	Longitudinal Joint Factor	1.0
Wall Thickness in Analysis	NA	Youngs Modulus of Elasticity	29000000.00 psi
Pipe Grade	X60	Poisson's Ratio	0.3
SMYS	60000 psi	Coefficient of Thermal Expansion	0.0000065 1/deg F

Operational Parameters:		T - Temperature Derating Factor:	
Operating Temperature	60.0 deg F	Temperature	250.0 or less deg F
Operating Pressure	1480.00 psi	Temperature Derating Factor	1.000

Installation and Site Characteristics:			
Soil Characteristics:		Soft to medium clays and silts with high plasticities	
E' - Modulus of Soil Reaction	200.00 psi	Pipe Depth	5.00 ft
Er - Resilient Modulus	5000.00 psi	Bored Diameter	18.000 inch
Average Unit Weight of Soil	120.00 lb/ft3	Allowable Total Stress Factor	0.72
Pavement Type:	Flexible	Installation Temperature	60.0 deg F
Impact Factor Method:	ASCE - Highway	Design Wheel Load from Single Axle	20000.00 lbf
		Design Wheel Load from Tandem Axles	34000.00 lbf

Stress Check Method:		
API 1102 Procedure		

Results			
Hoop Stress	25160.01 psi	Highway Stiffness Factor for Cyclic Longitudinal Stress	11.9
Allowable Hoop Stress	43200.00 psi	Highway Geometry Factor for Cyclic Longitudinal Stress	1.08
Stiffness Factor for Earth Load Circumferential Stress	1542	Cyclic Longitudinal Stress	4552.00 psi
Burial Factor for Earth Load Circumferential Stress	0.91	Maximum Circumferential Stress	31754.90 psi
Excavation Factor for Earth Load Circumferential Stress	1.65	Maximum Longitudinal Stress	12488.60 psi
Circumferential Stress from Earth Load	2036.90 psi	Maximum Radial Stress Result	-1480.00 psi
Impact Factor	1.5	Total Effective Stress	28903.89 psi
Critical Case: Tandem Axles	236.1	Allowable Effective Stress	43200.00 psi
Highway Stiffness Factor for Cyclic Circumferential Stress	13.6	Fatigue Resistance of Girth Welds	8640.00 psi
Highway Geometry Factor for Cyclic Circumferential Stress	1.1	Fatigue Resistance of Longitudinal Welds	16560.00 psi
Cyclic Circumferential Stress	5298.00 psi		

Stress	Calculated psi	Allowable psi	PASS/FAIL
Barlow Stress	25160.00	43200.00	PASS
Effective Stress	28903.90	43200.00	PASS
Girth Welds	4551.50	8640.00	PASS
Long. Welds	5298.00	16560.00	PASS

**Notes:**

**Reference:** API RP 1102 "Steel Pipelines Crossing RailRoads And Highways"

## Tim Pickering

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**From:** Brady Trudell <brady@btruenergy.com>  
**Sent:** Monday, November 6, 2023 4:15 PM  
**To:** Tim Pickering  
**Cc:** Cindy Glover; Fallon A. Sanford  
**Subject:** Re: Invoice 656 from McKenzie R&B 2021  
**Attachments:** Cherry Creek Extension - Utility Permit Application signed by Tom Giltner - 11062023.pdf; NDMK.CC.007.00-ONEOK-BAKKEN-PIPELINE,-LLC-PROPOSED-CCE-12-PIPELINE-CROSSING-24TH-STREET-NW-Rev.1 (1).pdf; NDMK.CC.003.00-ONEOK-BAKKEN-PIPELINE,-LLC-PROPOSED-CCE-12-PIPELINE-CROSSING-138TH-AVENUE-NW-Rev.1.pdf; NDMK.CC.011.00-ONEOK-BAKKEN-PIPELINE,-LLC-PROPOSED-CCE-12-PIPELINE-CROSSING-23RD-STREET-NW-(NOT-OPEN)-Rev.1 (1).pdf; NDMK.CC.005.00-ONEOK-BAKKEN-PIPELINE,-LLC-PROPOSED-CCE-12-PIPELINE-CROSSING-137TH-AVENUE-NW-Rev.1 (1).pdf; 137TH AVENUE NW 0.375WT CALCS.pdf; 24TH STREET NW 0.375WT CALCS.pdf; 138TH AVENUE NW 0.375WT CALCS.pdf; 23RD STREET NW 0.375WT CALCS.pdf

Tim,

Revised Application is attached along with the revised bore profiles and requested information regarding the line. Please let me know if you need anything further. Thanks!

Brady Trudell  
Contract ROW Agent representing ONEOK Rockies Midstream, L.L.C.  
Mobile: 406-580-7625  
[brady@btruenergy.com](mailto:brady@btruenergy.com)

On Thu, Nov 2, 2023 at 10:22 AM Brady Trudell <[brady@btruenergy.com](mailto:brady@btruenergy.com)> wrote:  
Thank you, Tim!

Brady

On Nov 2, 2023, at 10:21 AM, Tim Pickering <[tpickering@co.mckenzie.nd.us](mailto:tpickering@co.mckenzie.nd.us)> wrote:

Hello Brady, you add the permit info under the UTILTY Information on Page 1:

<image002.jpg>

Regards,

Tim

---

**From:** Brady Trudell <[brady@btruenergy.com](mailto:brady@btruenergy.com)>  
**Sent:** Thursday, November 2, 2023 10:57 AM  
**To:** Tim Pickering <[tpickering@co.mckenzie.nd.us](mailto:tpickering@co.mckenzie.nd.us)>  
**Cc:** Cindy Glover <[csmith@co.mckenzie.nd.us](mailto:csmith@co.mckenzie.nd.us)>; Fallon A. Sanford <[fallon.sanford@oneok.com](mailto:fallon.sanford@oneok.com)>  
**Subject:** Re: Invoice 656 from McKenzie R&B 2021

Tim,

I am waiting on information from the company to be able to answer some of your questions. How would you like me to reference the other permits on the form? Thanks!

Brady

On Nov 1, 2023, at 12:09 PM, Tim Pickering <[tpickering@co.mckenzie.nd.us](mailto:tpickering@co.mckenzie.nd.us)> wrote:

Hello Brady, I do not see any updated exhibits, and none of the other permits are referenced on the permit.

Will the bore pipe have any sort of coatings? Usually they are coated for the boring process.

Also, what is pressure rating of pipe and the anticipated operating pressure?

Was the NDDOT ok with not using a heavier walled pipe?

I have load analysis for the HDPE, but I do not have one for the steel. Please provide that. I have attached the copy of the poly pipe load evaluations.

Regards,

Tim

**From:** Brady Trudell <[brady@btruenergy.com](mailto:brady@btruenergy.com)>  
**Sent:** Tuesday, October 31, 2023 9:09 AM  
**To:** Tim Pickering <[tpickering@co.mckenzie.nd.us](mailto:tpickering@co.mckenzie.nd.us)>  
**Cc:** Cindy Glover <[csmith@co.mckenzie.nd.us](mailto:csmith@co.mckenzie.nd.us)>; Fallon A. Sanford <[fallon.sanford@oneok.com](mailto:fallon.sanford@oneok.com)>  
**Subject:** Re: Invoice 656 from McKenzie R&B 2021

Tim,

Revised form is attached. Thanks!

Brady Trudell  
Contract ROW Agent representing ONEOK Rockies Midstream, L.L.C.  
Mobile: 406-580-7625  
[brady@btruenergy.com](mailto:brady@btruenergy.com)

On Mon, Oct 30, 2023 at 1:28 PM Brady Trudell <[brady@btruenergy.com](mailto:brady@btruenergy.com)> wrote:

Tim,

The pipe doesn't have heavier wall thickness as the mainline wall thickness is heavier than it is on most jobs, so in this particular job both the mainline and the bore pipe 0.375" are the same. No casing for the road bores is correct. Thanks!

Brady

On Oct 30, 2023, at 12:09 PM, Tim Pickering  
<[tpickering@co.mckenzie.nd.us](mailto:tpickering@co.mckenzie.nd.us)> wrote:

Does the bore pipe have thicker walls than the rest of the pipe. I am assuming there is no casing, so that would mean a heavier walled pipe for the road bores.

Tim

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**From:** Brady Trudell <[brady@btruenergy.com](mailto:brady@btruenergy.com)>  
**Sent:** Monday, October 30, 2023 1:06 PM  
**To:** Tim Pickering <[tpickering@co.mckenzie.nd.us](mailto:tpickering@co.mckenzie.nd.us)>  
**Cc:** Cindy Glover <[csmith@co.mckenzie.nd.us](mailto:csmith@co.mckenzie.nd.us)>; Fallon A. Sanford <[Fallon.Sanford@oneok.com](mailto:Fallon.Sanford@oneok.com)>  
**Subject:** Re: Invoice 656 from McKenzie R&B 2021

Tim,

My manager is on the road today, so waiting on his signature on the revised application. Hoping to have it later this afternoon. The permit will be the same other than the two spots on the permit that said poly will now say steel. With that in mind, are we okay to proceed with construction? Thanks!

Brady

Sent from my iPhone

On Oct 30, 2023, at 8:20 AM, Tim Pickering  
<[tpickering@co.mckenzie.nd.us](mailto:tpickering@co.mckenzie.nd.us)> wrote:

You can submit an updated permit with updated exhibits. It appears they represent POLY as well.

Tim

---

**From:** Brady Trudell <[brady@btruenergy.com](mailto:brady@btruenergy.com)>  
**Sent:** Monday, October 30, 2023 8:57 AM  
**To:** Tim Pickering <[tpickering@co.mckenzie.nd.us](mailto:tpickering@co.mckenzie.nd.us)>  
**Cc:** Cindy Glover <[csmith@co.mckenzie.nd.us](mailto:csmith@co.mckenzie.nd.us)>  
**Subject:** Re: Invoice 656 from McKenzie R&B 2021

Tim,

Everything else on the permit is correct. The only difference would be that the line is steel instead of poly. I can send in a revised and corrected permit application if that is the best way to go about it. Just let me know. Thanks!

Brady

On Oct 30, 2023, at 7:20 AM, Tim Pickering <[tpickering@co.mckenzie.nd.us](mailto:tpickering@co.mckenzie.nd.us)> wrote:

I will review. Please send me the details of the line. Size, thickness, material being carried, etc.

Tim

**From:** Brady Trudell <[brady@btruenergy.com](mailto:brady@btruenergy.com)>