

**IMPLAN**

# **Using IMPLAN to Advocate at the State and Congressional District Level within the Energy Industry**



**April 2025**

# Interviewer

Candi Clouse, Ph.D.

- » *Vice President of Customer Success and Education Services at IMPLAN*



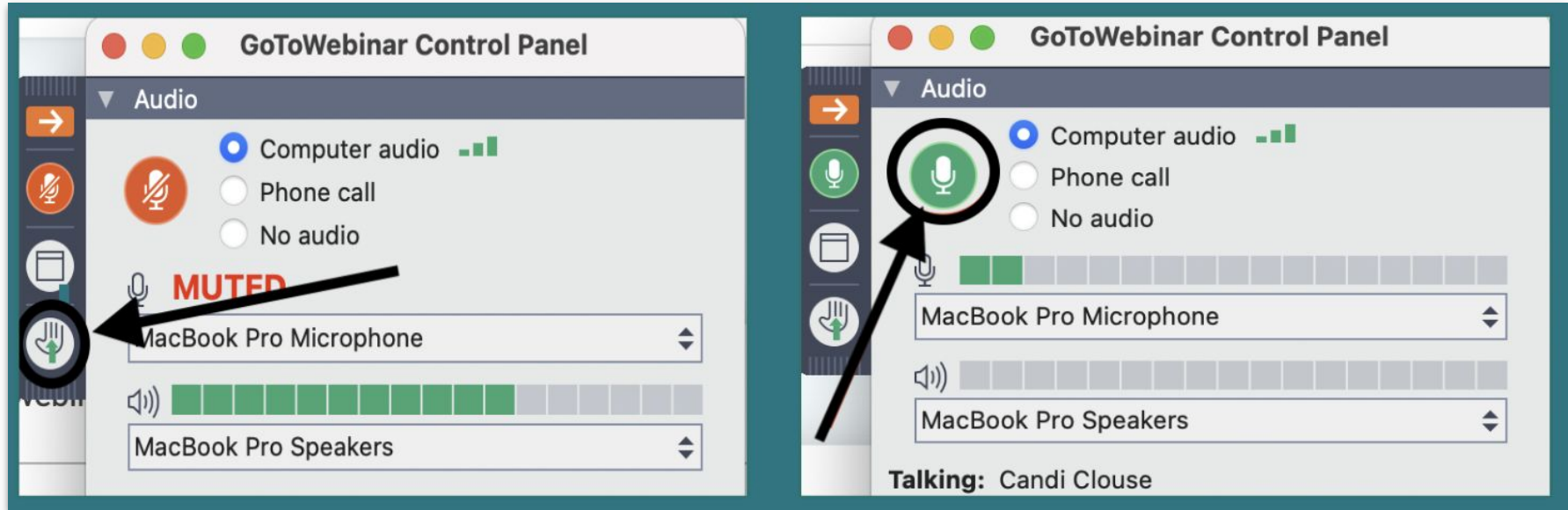
# Interviewee

Geoffrey N. Brand, Ph.D.

- *Certified IMPLAN Economist*
- *Oil & Natural Gas Market & Policy Specialist*



# Have a question?



# Overview of Today's Discussion



Learn from Geoff Brand's expertise in using IMPLAN for policy advocacy and analyzing current economic events.



Explore how economic impact data supports oil and natural gas industry advocacy at the state and district levels.



Examine the economic implications of steel tariffs on drilling operations and industry costs.

“...IMPLAN can model the impact of projects in the energy sector like offshore drilling, renewable energy investments, and infrastructure development.”

# 1

Introduction with Geoffrey Brand, Ph.D

# Getting to know Geoff



- ❖ Geoff, tell me a little bit about your personal and professional background.
- ❖ How did you first get involved with API and your use of IMPLAN?
- ❖ What types of projects did you analyze?
- ❖ We briefly touched on this in the introduction but can you elaborate on your experience with IMPLAN's Certified Economist Program?
  - What has been most beneficial to you as a member?

# 2

## IMPLAN Expertise & Economic Impact Analysis



# Leveraging IMPLAN



- ❖ What initially led you to IMPLAN and how long have you used the software?
- ❖ What questions were you looking to answer with IMPLAN when you originally sought it out? How have those questions evolved over the years?
- ❖ Why do you prefer IMPLAN over other economic modeling tools?

# 3

## Application in Policy & Advocacy

# For Policy & Advocacy



- ❖ How does your work in IMPLAN help industries advocate for projects or policies?
- ❖ Can you give an example of how you have used IMPLAN data has been used in policymaking or public messaging?
- ❖ Why is location-specific analysis (state, county, congressional district) critical in economic impact studies?

# 4

## Case Study Deep Dive

# API's Key Advocacy Report (since 2008)

## Economic Impact of the US Oil and Gas Industry

### *Impacts of the Oil and Natural Gas Industry on the US Economy in 2021*

April 2023

Prepared for

**American Petroleum  
Institute**



### Executive Summary Table #1

**Table ES-1.- Total Operational and Capital Investment Impacts of the Oil and Natural Gas Industry on the US Economy, 2021**

Item	Direct Impacts	Indirect and Induced Impacts		Total Impacts	Percent of US Total
		Operational Impacts	Capital Investment Impacts		
Employment (millions)*	2.3	7.1	1.4	10.8	5.4%
Labor Income (\$ billions)**	278.5	526.9	103.3	\$908.7	6.4%
Value Added (\$ billions)	773.6	844.5	156.0	\$1,774.1	7.6%

Source: PwC calculations using the IMPLAN modeling system. Details may not add up to totals due to rounding.

\* Employment is defined as the number of payroll and self-employed jobs, including part-time jobs.

\*\* Labor income is defined as wages and salaries and benefits as well as proprietors' income.

### Statement at the bottom of every API press release:

API represents all segments of America's natural gas and oil industry, which supports nearly 11 million U.S. jobs and is backed by a growing grassroots movement of millions of Americans. Our approximately 600 members produce, process and distribute the majority of the nation's energy, and participate in API Energy Excellence®, which is accelerating environmental and safety progress by fostering new technologies and transparent reporting. API was formed in 1919 as a standards-setting organization and has developed more than 800 standards to enhance operational and environmental safety, efficiency and sustainability.

# These are the sectors that API defines as the “US Oil and Natural Gas Industry”

**Table A-1. Direct Impact of the Oil and Natural Gas Industry on the US Economy by Subsector, 2021**

NAICS Code	Subsector Description	Employment <sup>(1)</sup> (000's)	Labor Income <sup>(2)</sup> (\$ billions)	Value Added (\$ billions)
211	Oil and gas extraction (including NGL extraction)	428	\$79	\$239
213111	Drilling oil and gas wells	44	\$5	\$6
213112	Support activities for oil and gas operations	210	\$21	\$26
2212	Natural gas distribution	129	\$26	\$76
23712	Oil and gas pipeline and related structures construction	137	\$14	\$16
32411	Petroleum refineries	64	\$19	\$112
32412	Asphalt paving, roofing and saturated materials manufacturing	29	\$6	\$11
324191	Petroleum lubricating oil and grease manufacturing	12	\$2	\$5
4247	Petroleum and petroleum products merchant wholesalers	100	\$11	\$153
44711, 44719	Gasoline stations	980	\$46	\$76
45431	Fuel dealers	76	\$5	\$9
486	Pipeline transportation	49	\$43	\$45
	<b>Total US Oil and Natural Gas Industry</b>	<b>2,258</b>	<b>\$279</b>	<b>\$774</b>

Source: Estimates based on 2021 employment data from the US Bureau of Economic Analysis and supplemented by data from the US Bureau of Labor Statistics and US Census Bureau and 2021 input-output relationships from the IMPLAN modeling system.

Note: Details may not add up to totals due to rounding.

(1) Employment is defined as the number of payroll and self-employed jobs, including part-time jobs.

(2) Labor income is defined as wages and salaries and benefits as well as proprietors' income.

# The report includes a comprehensive table detailing the economic impact of oil & gas in each state.

**Table B-41. The Economic Impact of the Oil and Natural Gas Industry in Pennsylvania, 2021**

Sector Description	Direct	Indirect	Induced	Total	As a % of State Total
<b>Employment*</b>					
<b>Industry Direct Impact</b>	<b>93,060</b>			<b>93,060</b>	<b>1.2%</b>
<b>Indirect/Induced Impacts on Other Industries</b>					
Services		62,410	110,330	172,740	
Finance, insurance, real estate, rental and leasing		15,020	23,240	38,260	
Wholesale and retail trade		11,180	26,070	37,250	
Transportation and warehousing		20,040	10,080	30,120	
Manufacturing		13,560	8,650	22,210	
Construction		14,430	1,340	15,770	
Government		2,670	2,370	5,040	
Information		2,080	2,490	4,570	
Agriculture		560	1,910	2,470	
Utilities		1,010	530	1,540	
Mining		560	90	650	
<b>Total Impact on Employment</b>	<b>93,060</b>	<b>143,530</b>	<b>187,110</b>	<b>423,700</b>	<b>5.6%</b>
<b>Labor Income** (\$ Millions)</b>					
<b>Industry Direct Impact</b>	<b>\$14,285</b>			<b>\$14,285</b>	<b>2.7%</b>
<b>Indirect/Induced Impacts on Other Industries</b>					
Services		\$5,785	\$7,345	\$13,130	
Finance, insurance, real estate, rental and leasing		\$1,306	\$1,658	\$2,963	
Wholesale and retail trade		\$1,043	\$1,485	\$2,528	
Transportation and warehousing		\$1,299	\$672	\$1,971	
Manufacturing		\$1,218	\$750	\$1,968	
Information		\$629	\$656	\$1,285	
Construction		\$1,108	\$108	\$1,216	
Government		\$252	\$235	\$487	
Utilities		\$198	\$105	\$303	
Agriculture		\$25	\$73	\$98	
Mining		\$46	\$7	\$53	
<b>Total Impact on Labor Income</b>	<b>\$14,285</b>	<b>\$12,908</b>	<b>\$13,093</b>	<b>\$40,286</b>	<b>7.5%</b>

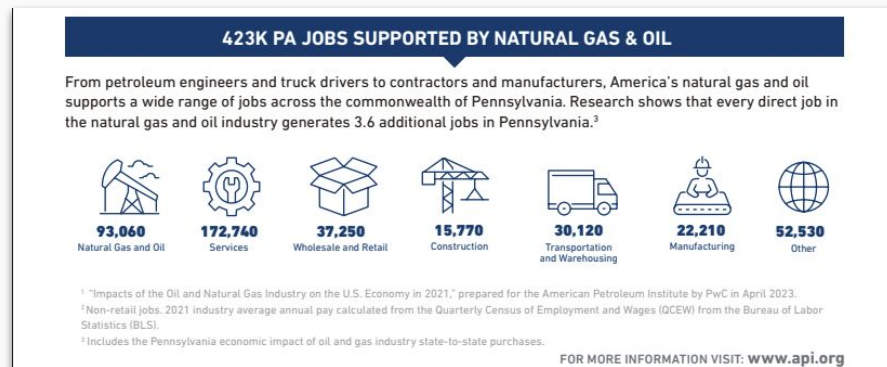
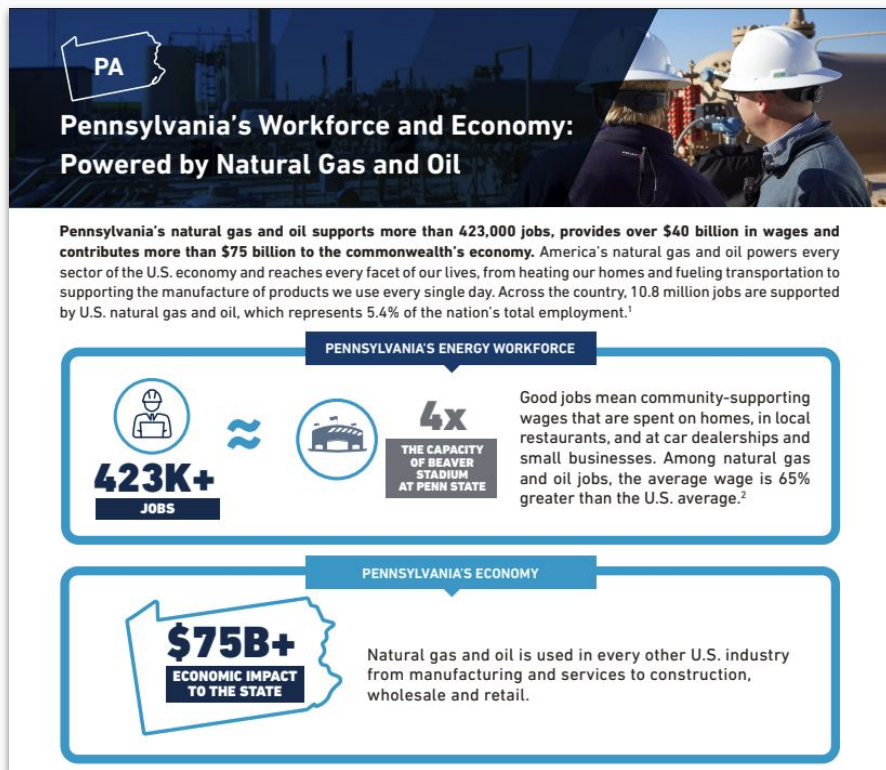
Value Added (\$ Millions)					
Industry Direct Impact	\$35,895			\$35,895	4.3%
Indirect/Induced Impacts on Other Industries					
Services		\$6,533	\$8,511	\$15,045	
Finance, insurance, real estate, rental and leasing		\$3,277	\$5,676	\$8,953	
Wholesale and retail trade		\$1,569	\$2,429	\$3,997	
Manufacturing		\$2,099	\$1,480	\$3,579	
Transportation and warehousing		\$1,460	\$860	\$2,320	
Information		\$1,006	\$1,159	\$2,166	
Construction		\$1,135	\$125	\$1,259	
Utilities		\$609	\$327	\$936	
Government		\$332	\$312	\$643	
Agriculture		\$30	\$100	\$131	
Mining		\$91	\$15	\$106	
Total Impact on Value Added	\$35,895	\$18,141	\$20,994	\$75,030	8.9%

Source: PwC calculations based on the IMPLAN modeling system (2021 database). Details may not add up to totals due to rounding.

\* Employment is defined as the number of payroll and self-employed jobs, including part-time jobs.

\*\* Labor income is defined as wages and salaries and benefits as well as proprietors' income.

# State data is transformed into concise, easy-to-read one-page handouts for stakeholders and the public.





# Economic impacts by Congressional District are also compiled, providing data that can be used for advocacy targeting specific representatives.

**Table C-39. Economic Impact of the Oil and Natural Gas Industry in Pennsylvania, 2021**

State / Congressional District	Employment (Jobs) <sup>(1)</sup>			Labor Income (\$Million) <sup>(2)</sup>			Value Added (\$Million)		
	Direct	Total <sup>(3)</sup>	Total as a % of State / District	Direct	Total <sup>(3)</sup>	Total as a % of State / District	Direct	Total <sup>(3)</sup>	Total as a % of State / District
<b>Pennsylvania</b>	<b>93,060</b>	<b>423,700</b>	<b>5.6%</b>	<b>\$14,285</b>	<b>\$40,286</b>	<b>7.5%</b>	<b>\$35,895</b>	<b>\$75,030</b>	<b>8.9%</b>
PA-1	2,430	22,720	4.5%	\$655	\$2,336	6.4%	\$1,054	\$3,747	6.3%
PA-2	1,300	15,900	4.1%	\$640	\$1,985	6.2%	\$666	\$2,501	5.1%
PA-3	1,140	20,160	4.5%	\$2,342	\$4,564	10.3%	\$3,230	\$6,294	10.1%
PA-4	2,980	23,740	4.8%	\$866	\$2,752	6.8%	\$1,075	\$4,103	6.0%
PA-5	2,700	23,830	4.9%	\$696	\$2,483	6.8%	\$2,265	\$5,042	8.9%
PA-6	3,580	25,800	5.2%	\$547	\$2,712	6.5%	\$1,468	\$5,282	8.3%
PA-7	3,390	23,020	5.1%	\$516	\$1,997	6.5%	\$1,263	\$3,369	7.1%
PA-8	3,870	21,590	5.1%	\$325	\$1,399	5.9%	\$947	\$2,502	6.7%
PA-9	7,970	25,910	6.3%	\$673	\$1,956	7.4%	\$2,402	\$4,201	10.1%
PA-10	4,480	23,560	5.4%	\$1,035	\$2,474	8.1%	\$1,535	\$3,608	7.8%
PA-11	3,760	23,000	4.7%	\$622	\$1,981	6.2%	\$1,132	\$3,214	6.6%
PA-12	5,220	25,570	5.4%	\$345	\$1,628	6.1%	\$2,663	\$4,657	10.6%
PA-13	5,370	21,930	5.2%	\$496	\$1,492	6.3%	\$885	\$2,324	6.3%
PA-14	14,100	35,540	8.3%	\$1,490	\$3,055	10.7%	\$5,936	\$8,326	17.0%
PA-15	11,650	31,700	7.8%	\$750	\$1,970	8.8%	\$3,878	\$5,635	14.8%
PA-16	7,020	25,240	6.2%	\$564	\$1,715	7.2%	\$2,119	\$3,839	10.3%
PA-17	12,130	34,480	7.5%	\$1,722	\$3,787	10.2%	\$3,375	\$6,384	11.0%

Source: PwC calculations using the IMPLAN model and data from the Census Bureau and the Bureau of Labor Statistics.

Note: Details may not add up to totals due to rounding.

(1) Employment is defined as the number of payroll and self-employed jobs, including part-time jobs.

(2) Labor income is defined as wages and salaries and benefits as well as proprietors' income.

(3) Total impact includes direct, indirect, and induced impacts. Direct impacts are those occurring directly within the oil and natural gas industry. Indirect impacts are those occurring within other businesses as part of the supply chain to the oil and natural gas industry. Induced impacts are those arising from household spending of income earned from the oil and natural gas industry or its supply chain.



# 5

## Current Event Analysis

# Steel tariff impacts on well drilling.

## How to approach the problem? Key questions to consider.

- ❖ **What types of steel products are used in drilling oil and gas wells?**
  - *Primarily well casing – Oil Country Tubular Goods (OCTG)*
- ❖ **What is the average cost of OCTG for a typical well?**
  - *Just over \$1 million per well, accounting for 15% of the total well cost*
  - *Source: **Rystad Energy, ShaleWellCube (2025)***
- ❖ **How much OCTG does the U.S. import annually?**
  - *The average over the past two years is \$3.6 billion, making up 24% of the market*
  - *Source: U.S. Census Bureau*
- ❖ **How can rising OCTG import costs impact well drilling?**
  - *With many capital budgets already set, higher costs will lead to a reduction in the # of wells drilled.*

# Total U.S. Well Costs by Category

Averages for 2023 & 2024

Average number of wells drilled per year: 14,575

<u>Detailed Well Cost</u>	<u>Per well cost</u> <u>(\$millions)</u>	<u>Annual Cost</u> <u>(\$Billions)</u>	<u>Percent</u> <u>Well Cost</u>	<u>IMPLAN Sector</u>	
OCTG	\$1.04	\$15.2	15%	3207	Iron and steel and ferroalloy products
Drilling Services	\$0.25	\$3.6	3%	30	Drilling oil and gas wells
Rig	\$0.39	\$5.7	5%	30	
Stimulation	\$1.94	\$28.3	27%	31	Support activities for oil and gas operations
Other Drilling Cost	\$0.85	\$12.4	12%	31	
Other Completion Cost	\$0.43	\$6.3	6%	31	
Facilities	\$0.58	\$8.5	8%	3256	Oil and gas field machinery
Proppant	\$0.64	\$9.4	9%	27	Sand and gravel mining
Fuel and Power	\$0.42	\$6.1	6%	3146	Refined petroleum products
<u>Water</u>	<u>\$0.62</u>	<u>\$9.0</u>	<u>9%</u>	3044	Water, sewage, and other systems
Total average well cost	\$7.17	\$104.5	100%		

**Source: Rystad ShaleWellCube Data (2025)**

# Impact Screen - Total U.S. Well Costs

IMPLAN

US Drilling Impact 2023 2024

Events 7

+ ADD NEW EVENT

FILTER TAGS

0/7

SAVE

...

Title	Type	Specification	Value
<input type="checkbox"/> Casing Pipe OCTG	Commodity Output	3207 - Iron and steel and ferroal...	\$15,209,000,000
<div>Commodity Output</div> <div>Local Purchase Percentage 76% SAM</div>			
<input type="checkbox"/> Drilling	Industry Output	30 - Drilling oil and gas... NAICS	\$9,313,870,000
<input type="checkbox"/> Equipment	Commodity Output	3256 - Oil and gas field machin...	\$8,478,400,000
<input type="checkbox"/> Diesel	Commodity Output	3146 - Refined petroleum produ...	\$6,113,980,000
<input type="checkbox"/> Support and Fracking	Industry Output	31 - Support activities f... NAICS	\$46,970,590,000
<input type="checkbox"/> Sand	Industry Output	27 - Sand and gravel m... NAICS	\$9,340,210,000
<input type="checkbox"/> Water	Commodity Output	3044 - Water, sewage and other...	\$8,981,630,000

528 Unaggregated

Groups 1

+ ADD NEW GROUP

MIRIO

Title

United States (US Totals) Group

...

Dollar Year

2024

Date Year

2023

Scale

1

...

Region

United States (US Totals)

...

SHOW EVENTS

7

...

VIEW RESULTS

## Impact Results Overview

Dollar Year \* 2024 Region GD is any value Impact is any value Group Name GD is any value Event Name GD is any value

### Economic Indicators by Impact

Impact	Employment	Labor Income	Value Added	Output
1 - Direct	264,605.26	\$32,274,943,990.71	\$57,813,838,392.22	\$99,380,007,953.82
2 - Indirect	209,089.15	\$19,245,693,629.17	\$32,259,440,974.66	\$64,673,393,296.65
3 - Induced	326,243.55	\$22,110,535,543.43	\$40,973,409,110.03	\$68,861,252,567.78
Totals	799,937.96	\$73,631,173,163.31	\$131,046,688,476.91	\$232,914,653,818.25

## Summary Overview Results Total Oil and Gas Well Drilling (Average 2023/24)

## Employment Results by Industry

### Industries by Impact

Industry Display	Impact Employment (1 - Direct)	Impact Employment (2 - Indirect)	Impact Employment (3 - Induced)	Total Impact Employment
1 31 - Support activities for oil and gas operations	140,402.90	67.97	4.05	140,474.98
2 30 - Drilling oil and gas wells	51,286.62	0.33	0.02	51,286.96
3 27 - Sand and gravel mining	29,106.61	380.05	12.10	29,498.77
4 516 - Other local government enterprises	15,510.48	604.85	1,469.35	17,584.72
5 256 - Oil and gas field machinery and equipmen...	15,375.39	131.09	1.51	15,507.99
6 207 - Iron and steel mills and ferroalloy manufac...	4,301.25	1,479.88	38.04	5,819.17
7 44 - Water, sewage and other systems	3,485.80	53.78	104.15	3,643.73
8 208 - Iron, steel pipe and tube manufacturing fr...	1,352.59	478.31	11.47	1,842.37
9 513 - Other state government enterprises	1,304.18	51.41	123.44	1,479.03
10 209 - Rolled steel shape manufacturing	1,085.70	370.70	9.31	1,465.71
11 20 - Oil and gas extraction	546.92	2,926.66	454.81	3,928.39
12 146 - Petroleum refineries	533.77	148.18	83.49	765.43
13 254 - Construction machinery manufacturing	57.87	117.08	0.74	175.70
14 255 - Mining machinery and equipment manufa...	49.67	60.35	0.31	110.33
15 234 - Metal tank (heavy gauge) manufacturing	37.31	33.08	2.14	74.53
16 286 - Scales, balances, and miscellaneous gener...	32.69	14.19	1.31	48.19
17 244 - Valve and fittings, other than plumbing, m...	17.13	214.65	23.68	255.47
Totals	264,605.26	209,089.15	326,243.55	799,937.96

# How to estimate steel tariff impacts?

**A 25% tariff on \$3.6 billion in OCTG imports (average for 2023/2024) would result in an additional \$900 million per year, assuming quantity and price remain unchanged.**

❖ **Should the \$900 million be added to the OCTG event line?**

**This would increase the OCTG event total from \$15.2 billion to \$16.1 billion.**

- *Probably not. The model is based on 2023 economic relationships. It would show increases in employment and labor income based. When production quantity has not increased.*

❖ **Should total well expenditures be reduced by \$900 million in the 2023 model?**

- *Probably not. All OCTG costs for well developers are likely to increase, as domestic suppliers are expected to raise pipe prices to match the cost of marginal supply—foreign imports.*

❖ **Should total well expenditures be reduced by the estimated \$3.7 billion increase in OCTG costs (25% of \$15.2 billion)?**

- *Probably. All OCTG pipe costs are expected to go up. Foreign imports will set the market price.*
- *A 2023 IMPLAN model run with \$3.7 billion would produce a good estimate of employment and labor income impacts. GDP impacts are a little more complicated.*



# Modeling the economic impact of rising OCTG costs under a fixed capital budget.

IMPLAN industry or commodity	Base annual expenditures	Same number of wells with 25% tariff	New cost with tariff same capital budget	IMPLAN 2023 Cost Relationships	Delta from Base 2023 Cost Relationships
3207 Iron and steel and ferroalloy products (OCTG)	\$15.2	\$19.0	\$18.4	\$14.7	(\$0.5)
30 Drilling oil and gas wells	\$9.3	\$9.3	\$9.0	\$9.0	(\$0.3)
31 Support activities for oil and gas operations	\$47.0	\$47.0	\$45.4	\$45.4	(\$1.7)
3256 Oil and gas field machinery	\$8.5	\$8.5	\$8.2	\$8.2	(\$0.3)
27 Sand and gravel mining	\$9.4	\$9.4	\$9.0	\$9.0	(\$0.3)
3146 Refined petroleum products	\$6.1	\$6.1	\$5.9	\$5.9	(\$0.2)
<u>3044 Water, sewage, and other systems</u>	<u>\$9.0</u>	<u>\$9.0</u>	<u>\$8.7</u>	<u>\$8.7</u>	<u>(\$0.3)</u>
Total	\$104.5	\$108.3	\$104.5	\$100.9	(\$3.7)
Number of wells drilled	14,575	14,575	14,063	14,063	(512)



# Impact Screen – Steel Tariff Impacts

IMPLAN

US Drilling Impact 2023 2024 Delta

Events 7

+ ADD NEW EVENT

FILTER TAGS 0/7 SAVE

United States (US Totals) Group

Dollar/Year 2024 Date Year 2023 Scale 1

Region United States (US Totals)

SHOW EVENTS 7

Title

Type

Specification

Value

Casing Pipe OCTG

Commodity Output

3207 - Iron and steel and ferroal...

\$534,822,000

Commodity Output

Local Purchase Percentage 76% SAM

Drilling

Industry Output

30 - Drilling oil and gas...

NAICS \$326,619,000

NAICS

Equipment

Commodity Output

3256 - Oil and gas field machin...

\$297,814,000

NAICS

Diesel

Commodity Output

3146 - Refined petroleum produ...

\$215,331,000

NAICS

Support and Fracking

Industry Output

31 - Support activities f...

NAICS \$1,652,365,000

NAICS

Sand

Industry Output

27 - Sand and gravel m...

NAICS \$329,005,000

NAICS

Water

Commodity Output

3044 - Water, sewage and other...

\$316,443,000

528 Unaggregated

VIEW RESULTS

IMPLAN

25

SUMMARY	OUTPUT	EMPLOYMENT	VALUE ADDED	TAX	OCCUPATION	ENVIRONMENTAL
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### Impact Results Overview

Dollar Year: 2024  
 Region: is any value  
 Impact: is any value  
 Group Name: is any value  
 Event Name: is any value  
 Event Tag: No match

#### Economic Indicators by Impact

Impact	Employment	Labor Income	Value Added	Output
1 - Direct	5,304.34	\$1,134,621,907.83	\$2,033,490,663.96	\$3,495,576,612.74
2 - Indirect	7,354.64	\$676,975,688.93	\$1,134,761,656.21	\$2,274,890,993.83
3 - Induced	11,472.77	\$777,545,207.31	\$1,440,881,967.94	\$2,421,593,320.06
Totals	28,131.75	\$2,589,342,804.13	\$4,609,134,288.11	\$8,192,060,926.63

## Summary Overview Results

### Steel Tariff Impacts

#### (Average 2023/24)

## Employment Results by Industry

Industries by Impact						
	Industry Display	Impact Employment (1 - Direct)	Impact Employment (2 - Indirect)	Impact Employment (3 - Induced)	Total Impact Employment	
1	31 - Support activities for oil and gas operations	4,939.20	2.89	0.14	4,941.73	
2	30 - Drilling oil and gas wells	1,798.52	0.01	0.00	1,798.53	
3	27 - Sand and gravel mining	1,025.27	13.38	0.43	1,039.08	
4	516 - Other local government enterprises	546.47	21.28	51.67	619.43	
5	256 - Oil and gas field machinery and equipment...	540.08	4.61	0.05	544.74	
6	207 - Iron and steel mills and ferroalloy manufac...	151.25	52.03	1.34	204.62	
7	44 - Water, sewage and other systems	127.81	1.96	3.66	128.44	
8	208 - Iron, steel pipe and tube manufacturing fro...	47.56	16.82	0.40	64.78	
9	513 - Other state government enterprises	45.95	1.81	4.34	52.10	
10	209 - Rolled steel shape manufacturing	38.18	13.03	0.33	51.54	
11	20 - Oil and gas extraction	19.25	103.05	15.99	138.30	
12	146 - Petroleum refineries	18.80	5.21	2.94	26.95	
13	254 - Construction machinery manufacturing	2.03	4.12	0.03	6.18	
14	255 - Mining machinery and equipment manufa...	1.74	2.12	0.01	3.88	
15	234 - Metal tank (heavy gauge) manufacturing	1.31	1.23	0.08	2.62	
16	286 - Scales, balances, and miscellaneous gener...	1.15	0.50	0.05	1.69	
17	244 - Valve and fittings, other than plumbing, ma...	0.60	7.55	0.83	8.98	
18	333 - Petrochemical manufacturing	0.00	0.00	0.00	0.00	
Totals		9,304.34	7,354.64	11,472.77	28,131.75	

# Steel tariff impacts on well drilling.

## Top line results:

### ❖ **Economic impact of US oil and natural gas drilling.**

- *14,500 wells drilled annually (2023/24 avg.) at a \$104 billion cost*
- *Supports 800,000 jobs, generating \$74 billion in labor income and \$131 billion in GDP*
- *Direct impact: 265,000 jobs, \$32 billion in labor income, and \$58 billion in GDP*

### ❖ **OCTG Steel Imports & Tariffs**

- *The U.S. imports \$3.6 billion of OCTG pipe (24% of the market)*
- *A 25% tariff on imported OCTG steel would generate \$900 million in revenue*
- *Domestic OCTG prices could rise 25%, increasing drilling costs by up to \$3.7 billion*

# Steel tariff impacts on well drilling.

## Top line results (continued):

### ❖ **Economic Consequences of Higher OCTG Costs.**

- 3.7 billion less available for drilling if budgets remain constant
- *500 fewer wells drilled due to increased costs*
- *28,000 fewer jobs and a \$2.6 billion reduction in labor income across the U.S. economy*
- *GDP impacts (its complicated)*

# Caveats and Disclaimers

- ❖ Other market factors, especially price, will impact the number of wells drilled.
- ❖ Drillers may adjust their capital budgets in response to cost changes.
- ❖ Foreign OCTG suppliers might lower prices to remain competitive in the U.S. market. (they probably won't like it, but they still might do it)
- ❖ Additional supply chain costs from steel and other tariffs are not included in this analysis.

"IMPLAN's software is a powerful, data-driven tool that provides precise, reliable insights into job creation and economic impact. It allows you to drill down into specific industries, occupations, and locations using trusted government data from sources like the Bureau of Economic Analysis and BLS.

Whether you're analyzing historical trends or exploring 'what if' scenarios, it's a versatile and trustworthy resource for economic analysis—especially in the energy sector, where it can model the impact of projects like offshore drilling, renewable energy investments, and infrastructure development."

- Geoffrey Brand, Ph.D.

# Questions?

# Additional Resources

- ❖ Check out our energy resource page on the [www.IMPLAN.com](http://www.IMPLAN.com) website.

## RESOURCES



Examining the IMPLAN Energy Industries:  
A Look at Renewables



Electric Vehicles: Industry on the Move



Utility Purchases & Energy Rebates

## THE WORLD OF ENERGY MEETS ECONOMIC IMPACTS

Find out how you can use IMPLAN Cloud to show the economic impact of all the changes happening within energy sectors.

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## IMPLAN CLOUD HELPS YOU...

- Keep up with a fast changing industry using the most up-to-date economic data
- Evaluate the risks and benefits of varying energy sources
- Measure your economic impact to qualify for tax credits
- Make informed decisions backed up by deep economic insights
- Demonstrate your impact to stakeholders with trusted analysis and reporting



# Let's Schedule A Demo

- ❖ Contact us at [sales@implan.com](mailto:sales@implan.com) to learn how IMPLAN can add value to your organization
- ❖ After you submit the form, schedule a time that's most convenient for you

## READY TO MAKE AN IMPACT?

We'll contact you within one business day to schedule your personalized demo.

First Name\*

Last Name\*

Email\*

Phone Number\*

Organization\*

Which of these best describes you?\*

Please Select

Message

Submit

# Connect with Geoff

- ❖ If you're interested, feel free to connect with Geoff on **LinkedIn** to keep the conversation going

- [linkedin.com/in/geoffrey-brand-phd-379a152](https://www.linkedin.com/in/geoffrey-brand-phd-379a152)
- [geoffrey.brand@gmail.com](mailto:geoffrey.brand@gmail.com)



**Thank You!**