

M C P S E R V E R

N O C O D E

C L O U D H O S T E D

Depletion Allowance Calculator MCP

Get accurate tax deductions for oil and gas properties.

Depletion Allowance Calculator MCP handles the math for natural resource tax deductions. Your AI client uses this to run cost depletion based on reserves or percentage depletion based on gross income. It compares both methods to find the best tax outcome and tracks your remaining property basis.

A+ Quality Score 100/100

tax

depletion

oil

gas

accounting

irs



The connectivity layer between AI and the world's software.

Vinkius sits between AI and every application. All communication passes through Vinkius Cloud via the Model Context Protocol (MCP) — with governance, observability, and security at every layer.

Your AI Connections Run Through Vinkius Cloud

The world's largest
managed MCP catalog

Vinkius is the connectivity layer where AI connects to the software your business already runs. We handle the hosting, the security, the credentials, the uptime — you get agents that actually do things.

We operate the world's largest managed MCP catalog. Major SaaS platforms, CRMs, databases, and cloud providers — running, monitored, production-ready. This MCP server is hosted and maintained by the Vinkius Cloud for AI Agents.

The agent doesn't manage credentials, doesn't manage uptime, doesn't manage security. Vinkius does.

— Architecture principle

Four Pillars of the Vinkius Runtime

01 — Security by design

Credentials stay encrypted at rest via AES-256. The AI agent never touches raw keys — they're injected into a sandboxed V8 isolate at runtime. Actions are logged, and connections have an emergency kill switch.

03 — Deterministic observability

Eight immutable metrics per endpoint: request volume, p95 latency, error rate, active connections, cost attribution. A live payload feed logs every tool call with mutation detection.

02 — Built on MCP Fusion

This MCP server was built with **MCP Fusion**, the open-source framework (Apache 2.0) that powers the entire Vinkius catalog. Schema-as-firewall strips undeclared fields, compiled PII redaction runs at zero overhead, and cryptographic lockfiles produce git-diffable audit trails.

04 — Autonomous operations

Servers are deployed, monitored, and patched autonomously. New capabilities and security patches ship weekly. Zero-downtime deployments ensure continuous availability across all managed MCP servers.

AES-256

Encryption at rest

Ed25519

PKI vault signatures

24h TTL

Ephemeral session keys

V8 Isolate

Sandboxed execution

One Token. Instant Access.

Every MCP server on Vinkius is accessed through a **Connection Token**. Tokens are generated in the cloud dashboard and produce a unique MCP endpoint URL. Paste this URL into any MCP-compatible client — no SDK required.

A single token can serve **multiple AI clients simultaneously**, or you can issue separate tokens per client for granular access control. Each token tracks its own request count, last activity timestamp, and can be individually enabled or revoked.

MCP ENDPOINT`https://edge.vinkius.com/{token}/mcp`

Claude



Cursor



VS Code



Windsurf



Grok



Gemini

Security Is the Architecture

Security in Vinkius is not a feature — it's the foundation of the runtime. The gateway enforces multiple independent protection layers between AI agents and third-party APIs.

01 — Ed25519 PKI Vault

Every workspace has an Ed25519 Master Key. Session keys are generated ephemerally (24h TTL) and signed by the Master Key. Credentials never leave the vault boundary.

02 — V8 Isolate Sandboxing

Tool code runs inside isolated-vm V8 isolates with 64 MB memory caps and per-request timeouts. No filesystem access, no network access except through the SSRF-guarded fetch bridge.

03 — SSRF Guard

All outbound HTTP requests are DNS-resolved and validated before execution. Private IP ranges (10.x, 172.16-31.x, 192.168.x, AWS metadata 169.254.x) are blocked at the network layer.

05 — Cryptographic Audit Trail

Every request is signed into a SHA-256 hash chain with Ed25519 signatures. Events form a tamper-proof, SIEM-exportable forensic record.

04 — DLP & PII Redaction

A ResponseGuard pipeline intercepts every tool response. Configurable redaction patterns strip sensitive fields (emails, SSNs, card numbers) before data reaches the AI agent.

06 — Honeypot Trap System

Phantom credentials are injected into isolated environments. If a honeypot is used outside Vinkius infrastructure, the server is quarantined instantly.

Emergency Kill Switch

EU AI Act Art. 14(1)
Compliant

The kill switch is an **emergency halt** mechanism — not a simple toggle. When triggered, it executes three actions atomically:

01 — Server deactivated

The MCP server is immediately taken offline across the entire cluster.

02 — All tokens revoked

Every connection token is invalidated. Total lockout — reconnection blocked until new tokens are issued.

03 — WebSocket connections killed

Active connections terminated via Redis pubsub broadcast. Propagates to every runtime node in the cluster.

Full Visibility. Zero Guesswork.

The Vinkius cloud dashboard includes a full MCP Governance suite — real-time analytics and security controls for production AI operations.

Control Plane

KPI dashboard with request volume, latency, success rate, token consumption, and AI-generated operational briefings.

FinOps

Cost tracking per tool, payload compression savings, budget optimization signals, and consumption trends.

Firewall & DLP

PII redaction activity, sensitive data protection counters, and security event timeline.

Agent Activity

Which AI clients are connecting, how often, and what they're doing — real-time session tracking.

Tool Health

Slowest and most error-prone tools, with actionable root-cause insights and performance baselines.

Incident Log

Error trends, failure rates, status-code breakdowns, and forensic audit trail access.

Get started at cloud.vinkius.com — connect your AI agent in under 60 seconds.

Depletion Allowance Calculator MCP

4 tools available

Cloud-hosted on Vinkius

Calculating depletion for oil and gas properties is tedious and prone to error. This MCP gives your AI client the specific financial logic needed to handle these calculations accurately. You can switch between Cost Depletion and Percentage Depletion methods depending on your property's specific situation. Instead of manually calculating rates against gross income or dividing costs by total reserves, you just provide the data to your agent. It can determine which method leaves you with the largest deduction and keep a running tally of your remaining basis. This takes the guesswork out of resource accounting and ensures your tax math stays consistent.

Core Capabilities

01 — Method Comparison

Your agent compares cost and percentage methods to find the highest deduction.

02 — Basis Tracking

The MCP monitors your remaining property basis after deductions are applied.

03 — Income Based Math

Your AI client calculates deductions using gross income and statutory percentage rates.

04 — Reserve Based Math

The tool calculates deductions by dividing property cost by total reserves.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/en/ai-agent-connect/depletion-allowance-calculator — connect your AI agent in three steps.

- 01 Connect your AI client to the Vinkius hosted MCP.
- 02 Provide property details like cost, reserves, or gross income to your agent.
- 03 The agent calls the specific depletion tool needed for the data.
- 04 Your agent receives the calculation and presents the result to you.

You connect the MCP to your AI client and start asking for calculations.

Built For

This MCP is built for professionals managing natural resource assets and tax liabilities.

Oil and Gas Accountants

They hand off reserve and income data to the AI to generate deduction reports.

Tax Professionals

They use the tool to compare depletion methods for client tax planning.

Resource Asset Managers

They use the property summary to track investment recovery over time.

What Changes When You Connect

- 01 Eliminates manual math errors in depletion calculations.
- 02 Identifies the most tax-efficient depletion method automatically.
- 03 Maintains an accurate record of remaining property basis.

04 Provides instant comparisons between different tax approaches.

Real-World Applications

Annual Tax Planning

Compare cost and percentage depletion to maximize deductions for the year.

Investment Tracking

Use property summaries to see how much of the initial investment has been recovered.

Reserve Management

Calculate cost depletion based on current barrel reserves and production levels.

Income Reporting

Apply statutory rates to gross income to find the percentage depletion amount.

4 Tools Available

#	TOOL	DESCRIPTION
01	calculate_percentage_depletion	This tool calculates your deduction using the Percentage Depletion method. It uses gross income and statutory rates to find the amount.
02	compare_methods	This tool compares Cost Depletion against Percentage Depletion. It identifies which approach provides the better tax result for your specific numbers.
03	get_property_summary	This tool provides a summary of your property investment. It tracks how much basis you have left and your current recovery progress.
04	calculate_cost_depletion	This tool handles Cost Depletion calculations. It uses the property cost and total reserves to determine the deduction.

See It in Action

Real prompts you can use once this MCP is connected to your AI agent through Vinkius Cloud.

- U** Calculate the cost depletion for a property with an original cost of \$500,000, total reserves of 100,000 barrels, and an annual production of 5,000 barrels, with a current basis of \$500,000.



The annual depletion deduction is \$2,500.00, and the remaining basis is \$497,500.00.

- U** What is the percentage depletion for a production with \$100,000 gross income, a current basis of \$200,000, and a depletion rate of 15%?



The annual depletion deduction is \$15,000.00, and the remaining basis is \$185,000.00.

- U** Compare cost depletion of \$5,000 and percentage depletion of \$7,000 with a marginal tax rate of 24%.



The optimal method is Percentage Depletion, providing an annual deduction of \$7,000. This results in a tax savings difference of \$480.00 compared to Cost Depletion.

Frequently Asked Questions

01 How does this MCP help with oil and gas taxes?

It automates the calculation of both cost and percentage depletion deductions for natural resource properties.

02 Can I compare different depletion methods?

Yes, the compare_methods tool lets you see which method provides a better tax outcome based on your specific figures.

03 What information do I need for cost depletion?

You will need to provide the property cost, total reserves, and current basis to the agent.

04 What information is needed for percentage depletion?

You need to provide the gross income and the applicable statutory depletion rate.

05 Does this track my remaining property basis?

Yes, the `get_property_summary` tool tracks the remaining basis and your investment recovery progress.

Go Live in 60 Seconds

Get your connection token from cloud.vinkius.com, then paste the endpoint URL into any MCP-compatible client.

YOUR MCP ENDPOINT

`https://edge.vinkius.com/[TOKEN]/mcp`

CLIENT	WHERE TO CONFIGURE
 Claude AI	Profile → Customize → Connectors → "+" → Add custom connector → Paste endpoint
 Cursor	Settings → Features → MCP Servers → "+ Add New MCP Server" → Type: SSE → Paste endpoint
 VS Code	Ctrl/Cmd+Shift+P → "MCP: Add Server" → add <code>"depletion-allowance-calculator": { "url": "..." }</code>
 Windsurf	MCP Settings → <code>mcp_settings.json</code> → Add endpoint URL
 ChatGPT	Settings → Tools & plugins → Add MCP server → Paste endpoint
 Gemini	Extensions → Add MCP Server → Paste endpoint URL

ASK AN AI ABOUT THIS

Let your preferred AI explain this MCP server

-  Ask ChatGPT 
-  Ask Claude 
-  Ask Perplexity 
-  Ask Gemini 
-  Ask Grok 

READY TO CONNECT

Depletion Allowance Calculator is live on Vinkius Cloud.

Get your connection token, paste it into your AI agent, and
start building. No SDK. No deployment. Just results.

Start at cloud.vinkius.com →

vinkius.com · support@vinkius.com

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DOCUMENT INFORMATION

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Platform	Vinkius Cloud for AI Agents
Endpoint	<code>https://edge.vinkius.com/{token}/mcp</code>

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