PETROMOVE
AI Platform

Agentic RAG Intelligence for Petroleum Trading, Movement & Accounting
Real-Time Scenario Builds Powered by Gen AI

Claude (Bedrock) | Databricks | AWS | SQL Server 2022 | Agile · 2-week Sprints

THE PLATFORM

One Platform. Three Core Modules.

PETROMOVE delivers end-to-end AI intelligence across the full petroleum trade lifecycle — from blotter to bank

Petroleum Trading

COMMODITY DEAL MANAGEMENT

Trade blotter, deal capture, Platts/Argus price fixings, counterparty risk scoring, Hormuz exposure analysis, book-out management

Trade Blotter | Hormuz AI | STP Engine

↗ Trades_petroleum_trade_mockup

Petroleum Movement

LOGISTICS & PIPELINE OPERATIONS

Vessel scheduling, port movements, pipeline nominations, cargo tracking, laycan management, demurrage calculation, SPA scheduling

SPA Dashboard | Vessel Ops | Demurrage

↗ movement_petromove_spa_dashboard

Petroleum Accounting

FINANCIAL RECONCILIATION

Invoice generation, SWIFT payment processing, P&L attribution, provisions, bad debt management, regulatory reporting

SWIFT | P&L | Recon

↗ LEDGER_petromove_spa_dashboard

All three modules share a single Agentic RAG data spine — Claude (Bedrock) + Databricks Unity Catalog + SQL Server 2022 + AWS S3 Medallion Architecture. Events in Trading propagate instantly to Movement and Accounting.

USP & BENEFITS

Why PETROMOVE Wins

Six differentiators that no legacy ETRM system can match

⬡

AI-Native from the Start

Claude reasons over complex, unstructured petroleum trade data — Platts pricing, charter parties, SWIFT messages — not just rules-based processing. Every decision explained in plain language.

⚡

Real-Time Scenario Intelligence

Hormuz escalation? Sub-$60 oil? Switch scenario in one click. Claude re-analyses the entire blotter in seconds — replacing hours of manual analyst work per event.

Built for Compliance & Audit

Every AI decision is fully logged — input data, RAG context retrieved, Claude reasoning chain, confidence score. Regulators and auditors see the full chain from raw data to final action.

Progressive Autonomy

Starts with human-in-the-loop approval gates at 60–70% STP. Scales to 95%+ unattended processing as confidence is established — protecting the business while AI earns trust.

No Rip-and-Replace

Built on your existing SQL Server 2022 + AWS infrastructure. PETROMOVE layers AI intelligence on top of current data — Agile delivery in 2-week sprints, value from Sprint 1.

♻️

Self-Improving System

Human corrections feed back into the RAG knowledge base. The platform gets smarter with every exception resolved — 15 years of petroleum trade history already embedded at launch.

LIVE AI DEMO · 1 OF 2

Hormuz Risk — AI Reasoning

Claude analyses 9 Hormuz-exposed cargoes in real time — watch the reasoning chain unfold step by step

🎯 What This Demo Shows

Claude scans 35 blotter cargoes, identifies 9 with Hormuz exposure, cross-references AIS data and IRGC patrol positions, models 5 escalation scenarios (Status Quo through Full Blockade), and generates per-cargo risk scores with recommended actions — all in under 10 seconds.

⛓ 10-Step Reasoning Chain

Signal Detection → Blotter Cross-Reference → Historical Pattern Matching → Scenario Probability Model → Per-Cargo Risk Scoring → Reroute Economics → War Risk Insurance → Portfolio Exposure → Auto-Action → Final Recommendation

9 cargoes flagged | $6.77M exposure | 87% confidence | 3.1s analysis

💡 Why This Matters to Traders

A senior trader manually working through Hormuz exposure across a 35-cargo blotter takes 3–4 hours. PETROMOVE does it in seconds — and shows every step of its reasoning, so the trader can challenge or approve with full context.

PETROMOVE · AI REASONING MODULE

Hormuz Strait Risk Analysis

Live Claude API · Animated reasoning chain · Risk matrix · 5 escalation scenarios

▶️ Launch Hormuz AI Demo ↗

Opens petroleum_trade_ai_reasoning.html

💡 Demo tip: Click "Run AI Analysis" and watch the 10-step reasoning chain animate live. Navigate to the Hormuz Risk tab (Screen 5) to see the source data Claude is reasoning over.

Hormuz Risk — AI Scenario Analysis

- 📍 9 cargoes exposed · $6.77M at risk in current blotter
- 🔗 10-step Claude reasoning chain — fully auditable
- ⚡ 3.1 second analysis vs 3–4 hours of manual trader work
- 🎯 5 escalation scenarios: Status Quo → Full Blockade

CASE STUDY 1 · CARGO BLOTTER

Cargo Blotter — $90 Surge Pricing Active

Petroleum Cargo Blotter · Hormuz Crisis / War Risk / Contango Collapsed · $90 Surge LIVE scenario selected

① Cargo Entry | ② Status Codes | ③ Grades & Locations | ④ Cargo Blotter 36 | ⑤ Hormuz Risk | ⑥ Contango & Storage | ⑦ Distressed & Book-Outs | ⑧ AI Reasoning AI

PETROLEUM CARGO BLOTTER — $90 SURGE ACTIVE (HORMUZ CRISIS / WAR RISK / CONTANGO COLLAPSED / RECOVERY IMPROVING)

OIL PRICE SCENARIO | $60 Base | $90 Surge ▲ LIVE

▲ $90 Surge — Brent $89/bbl, WTI $86 | Hormuz blockade live | Contango collapsed, backwardation setting in | Recovery rates improving on distressed cargoes | War risk premium spiking | OPEC+ increase moot — Strait closed — Claude confidence: 93%

CARGO REF	TYPE	SCENARIO	NOM/D	T/D	S/D	PLATTS CODE	GRADE	COUNTERPARTY	VOLUME (BBL)	CCY	STATUS
CARGO-001	Crude Buy	FOB Cargo	Feb24	Feb26	Apr28	PCAAT00	Dubai M1	Aramco Trading	500,000	USD	OPEN CARGO
CARGO-002	Crude Buy	FOB Cargo	Feb24	Feb26	Apr28	AAKNL00	Murban M1	ADNOC Trading	500,000	USD	OPEN CARGO
CARGO-003	Crude Buy	FOB Cargo	Feb24	Feb26	Apr25	PCABS00	Oman M1	Shell Trading	500,000	USD	OPEN CARGO
CARGO-004	Crude Buy	FOB Cargo	Feb24	Feb26	Apr25	AAOUQ00	Upper Zakum	Vitol SA	500,000	USD	OPEN CARGO
CARGO-005	Crude Buy	FOB Cargo	Feb20	Feb22	Apr21	AAPEV00	Al Shaheen	Trafigura	500,000	USD	AUTHORIZED
CARGO-006	Crude Buy	FOB Cargo	Feb24	Feb26	Apr25	AAKNR00	Qatar Marine	Reliance Ind.	500,000	USD	OPEN CARGO
CARGO-007	Crude Buy	FOB Cargo	Feb24	Feb26	Apr25	AAKNT00	Banoco Arab Med	Unipec	500,000	USD	OPEN CARGO
CARGO-008	Crude Buy	FOB Cargo	Feb24	Feb26	Apr25	BSMAM01	Basrah Medium	ENEOS	1,000,000	USD	OPEN CARGO
CARGO-009	Partial Buy	Partials	Feb24	Feb26	Apr25	PCAAT00	Dubai Partial	Glencore	25,000	USD	PARTIALS ACCUM
CARGO-010	Partial Buy	Partials	Feb24	Feb26	Apr25	PCAAT00	Dubai Partial	Glencore	25,000	USD	PARTIALS ACCUM
CARGO-011	Crude Buy	Term Lift	Feb24	Feb26	Apr25	AUFAA00	Umm Lulu	S-Oil Corp	500,000	USD	AUTHORIZED
CARGO-012	Crude Buy	Float Store	May20	May20	—	AAKNL00	Murban M2	Aramco Trading	500,000	USD	FLOAT STORAGE
CARGO-013	Crude Sale	FOB Cargo	Feb24	Feb26	Apr27	AALZC00	Basrah Heavy	Indian Oil	1,000,000	USD	OPEN CARGO
CARGO-014	Crude Sale	FOB Cargo	Feb24	Feb26	Apr27	AAXOF00	Das Blend	PetroChina	500,000	USD	OPEN CARGO
CARGO-015	Crude Sale	FOB Cargo	Feb24	Feb26	Apr27	AAKNP00	Qatar Land	Formosa Petro	500,000	USD	OPEN CARGO

Connected: PETRO/GSS (Platts MOC Live) — User: NTRRPA\trader01 | Server: PETRO-RT-PROD (10.50 RTM) |

Cargoes Impacted — AI Risk Status

12 cargoes with Hormuz transit identified · 9 actionable · Total cost exposure $11.2M · War risk 0.43% hull

Cargo Entry | Status Codes | Grades & Locations | Cargo Blotter 36 | Hormuz Risk | Contango & Storage | Distressed & Book-Outs | AI Reasoning AI

WEEKLY TRANSITS	AVG DELAY (PROB-WTD)	VLCC COST MULTIPLIER	ESCALATION PROBABILITY	WAR RISK PREMIUM	CARGOES AT RISK
135	5.6d	2.9×	40%	0.43%	12
Down from 182 (-26%)	Rising to 7.8d by Q2	$1.8M → $5.2M per voyage	IRGC harassment scenario	Hull value — 4× pre-crisis	In-transit or pending loading

HORMUZ-EXPOSED CARGO — DISRUPTION SCENARIOS

OIL PRICE SCENARIO | $60 Base | $90 Surge ▲ LIVE

▲ $90 Surge — 9 cargoes exposed | Total cost exposure $11.2M ▲ | War risk premium 0.87% hull (2× base) | Cargo values +50% — every delay more costly | Probability-weighted delay now 9.4d

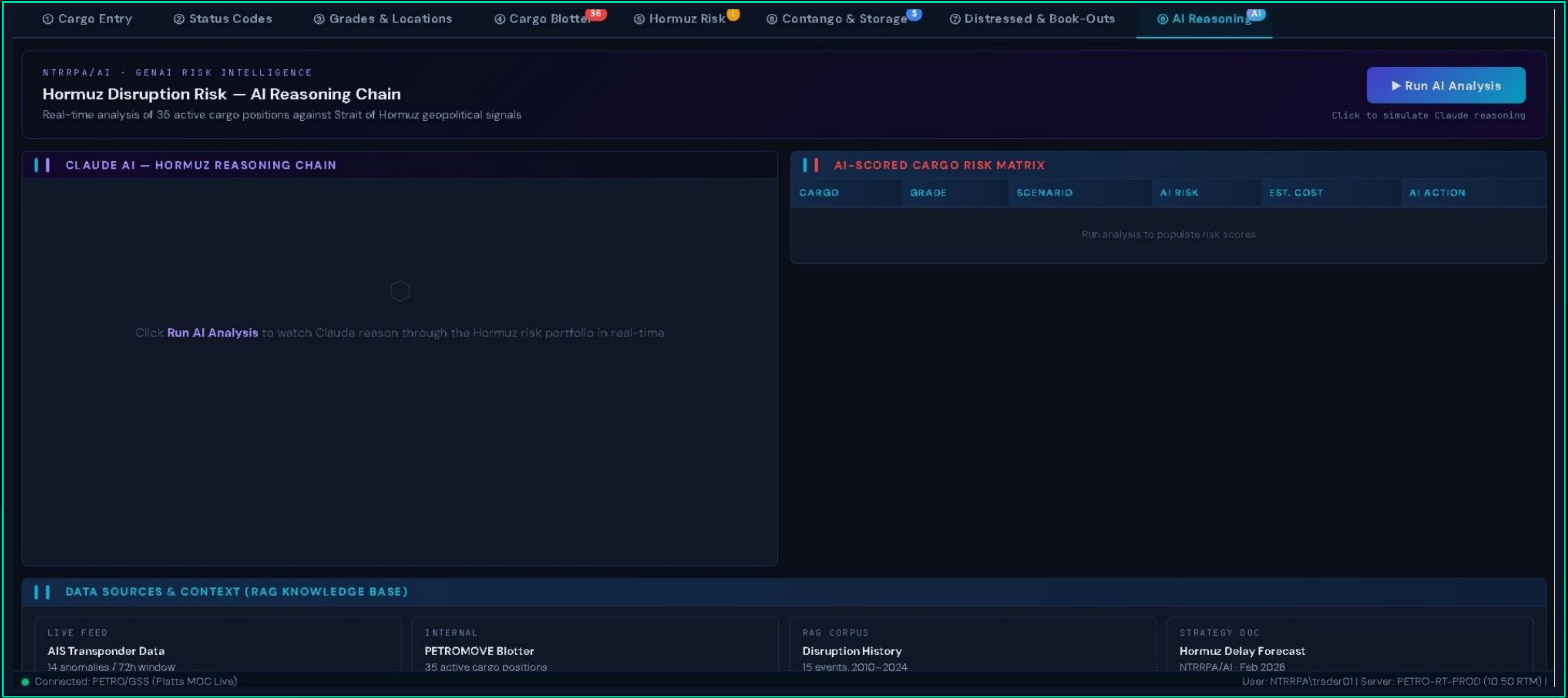
Claude confidence: 93%

CARGO REF	GRADE	COUNTERPARTY	VOL (BBL)	LOAD TERMINAL	SCENARIO	EST. DELAY	ADD'L COST	REROUTE	STATUS
CARGO-020	Dubai M1	Vitol SA	500,000	Fateh (Dubai)	IRGC Harassment	5-8d	$480K	Fujairah Pipeline	DELAYED
CARGO-022	Qatar Marine	Trafigura	500,000	Halul Island	Naval Standoff	8-12d	$720K	Cape of Good Hope	WAR RISK
CARGO-019	Murban M2	ADNOC Trading	500,000	Jebel Dhanna	Pre-emptive Bypass	0d	$85K	Fujairah Direct	REROUTED
CARGO-021	Upper Zakum	Shell Trading	500,000	Zirku Island	Full Reroute	12-18d	$1.2M	CoGH +12d	REROUTED
CARGO-001	Dubai M1	Aramco Trading	500,000	Fateh (Dubai)	Transit Risk	3-5d (est)	$320K	Fujairah STS	AT RISK
CARGO-006	Qatar Marine	Reliance Ind.	500,000	Halul Island	Transit Risk	3-5d (est)	$320K	None	AT RISK
CARGO-008	Basrah Med	ENEOS	1,000,000	BOT (Iraq)	Transit Risk	5-10d (est)	$650K	Alt Source	AT RISK
CARGO-028	Basrah DES	ENEOS	1,000,000	BOT (Iraq)	Active Delay	7d current	$890K	Convoy	IN DELAY
CARGO-034	Iran Heavy	ONGC Videsh	500,000	Kharg Island	Blockade Risk	14-45d	$2.1M	Force Majeure	FM INVOKED

CASE STUDY 1 · AI REASONING

AI Reasoning — Analysis Initiated

Claude cross-referencing 35 blotter positions against AIS transponder data · IRGC patrol coordinates · RAG knowledge base



AI Reasoning — Analysing in Seconds

Historical Pattern Matching in progress · 15 Hormuz disruption events retrieved 2010–2024 · Confidence building to 87%

① Cargo Entry | ② Status Codes | ③ Grades & Locations | ④ Cargo Blotter 36 | ⑤ Hormuz Risk ! | ⑥ Contango & Storage $ | ⑦ Distressed & Book-Outs | ⑧ AI Reasoning AI

NTRRPA/AI · GENAI RISK INTELLIGENCE

Hormuz Disruption Risk — AI Reasoning Chain

Real-time analysis of 35 active cargo positions against Strait of Hormuz geopolitical signals

⌛ Analysing...

Processing: Historical Pattern Matching...

CLAUDE AI — HORMUZ REASONING CHAIN

SIGNAL DETECTION

Geopolitical signal ingestion: 14 AIS transponder anomalies detected in Strait of Hormuz over past 72 hours. IRGC naval patrol vessels identified at grid refs 26.2°N/56.3°E and 26.5°N/56.8°E. Cross-referenced against US NAVCENT advisories and Lloyd's Intelligence feed.

BLOTTER CROSS-REFERENCE

PETROMOVE blotter scan: 35 active cargo positions reviewed. 12 cargoes identified with load terminals requiring Strait of Hormuz transit — Fateh/Dubai (3), Halul Island (2), Basrah Ocean Terminal/Iraq (3), Kharg Island (1), Jebel Dhanna (2), Zirku Island (1). Total exposure: 7.5M barrels.

HISTORICAL PATTERN MATCHING

RAG corpus query: 15 Hormuz disruption events retrieved spanning 2010–2024. Key precedents: 2019 IRGC tanker seizures (avg 22d delay), 2021 Suez/CoGH reroute economics baseline, 2023 naval standoff (war risk premium spike to 0.5% hull). Probability model recalibrated on current escalation pattern.

AI-SCORED CARGO RISK MATRIX

CARGO	GRADE	SCENARIO	AI RISK	EST. COST	AI ACTION
Scoring...					

🔒 Audit trail: AIS feed → PETROMOVE blotter (35 cargoes) → Historical disruption RAG (15 events, 2010–2024) → Scenario model → Cost engine → Reroute optimiser → Confidence: 87%

DATA SOURCES & CONTEXT (RAG KNOWLEDGE BASE)

LIVE FEED	INTERNAL	RAG CORPUS	STRATEGY DOC
AIS Transponder Data	PETROMOVE Blotter	Disruption History	Hormuz Delay Forecast
14 anomalies / 72h window	35 active cargo positions	15 events, 2010–2024	NTRRPA/AI · Feb 2026

CASE STUDY 1 · RESULTS

Impacted Cargo Risk Matrix — Analysis Complete

87% confidence · 3.1s analysis · 9 cargoes flagged · $6.77M exposure · 3 auto-actioned · 2 manual review

① Cargo Entry | ② Status Codes | ③ Grades & Locations | ④ Cargo Blotter 35 | ⑤ Hormuz Risk ! | ⑥ Contango & Storage $ | ⑦ Distressed & Book-Outs | ⑧ AI Reasoning AI

NTRRPA/AI · GENAI RISK INTELLIGENCE

Hormuz Disruption Risk — AI Reasoning Chain

Real-time analysis of 35 active cargo positions against Strait of Hormuz geopolitical signals

✓ Analysis Complete

Claude reasoning complete — 87% confidence

AI CONFIDENCE	ANALYSIS TIME	CARGOES FLAGGED	COST EXPOSURE	AUTO-ACTIONED	MANUAL REVIEW
87%	3.1s	9	$6.77M	3	2
Hormuz risk assessment	vs ~6h manual equiv.	Of 12 Hormuz-exposed	Across 5.5M barrels	Reroutes pre-approved	FM + war risk edge cases

CLAUDE AI — HORMUZ REASONING CHAIN

SIGNAL DETECTION

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SCENARIO PROBABILITY MODEL

5-scenario distribution computed: Status Quo 25% (0d delay), IRGC Harassment 40% (5–8d), Naval Standoff 20% (8–12d), Limited Conflict 10% (14–45d), Full Blockade 5% (45d+). Probability-weighted average delay: 5.6 days, rising to 7.8 days by Q2 2026 per trend extrapolation.

PER-CARGO RISK SCORING

9 cargoes scored as actionable: CARGO-020 (Dubai M1/Vitol) — IRGC harassment, 5–8d, $480K; CARGO-022 (Qatar

AI-SCORED CARGO RISK MATRIX

CARGO	GRADE	SCENARIO	AI RISK	EST. COST	AI ACTION
CARGO-020	Dubai M1	IRGC Harassment	HIGH	$480K	Fujairah Pipeline
CARGO-022	Qatar Marine	Naval Standoff	CRITICAL	$720K	Manual: P&I Review
CARGO-021	Upper Zakum	Full Reroute	HIGH	$1.2M	CoGH Auto-Routed
CARGO-019	Murban M2	Pre-emptive Bypass	LOW	$85K	Fujairah ✓ Done
CARGO-028	Basrah DES	Active Delay	HIGH	$890K	Convoy Routing
CARGO-034	Iran Heavy	Blockade/FM	CRITICAL	$2.1M	Manual: Legal FM
CARGO-001	Dubai M1	Transit Risk	MEDIUM	$320K	Fujairah STS
CARGO-006	Qatar Marine	Transit Risk	MEDIUM	$320K	No Alt Available
CARGO-008	Basrah Medium	Transit Risk	MEDIUM	$650K	Alt Sourcing

AI RECOMMENDATIONS

1 Activate Fujairah pipeline bypass for Murban, Upper Zakum, Das Blend — eliminates Hormuz transit for UAE-origin grades ($85K vs $1.2M+ reroute cost).

Connected: PETRO/GSS (Platts MOC Live)

AI Scorecard Synopsis & Recommendations

Full reasoning chain visible · Per-cargo reroute actions · War risk insurance assessment · Portfolio exposure summary

① Cargo Entry ② Status Codes ③ Grades & Locations ④ Cargo Blotter 36 ⑤ Hormuz Risk ! ⑥ Contango & Storage $ ⑦ Distressed & Book-Outs ⑧ AI Reasoning AI

AI CONFIDENCE	ANALYSIS TIME	CARGOES FLAGGED	COST EXPOSURE	AUTO-ACTIONED	MANUAL REVIEW
87%	3.1s	9	$6.77M	3	2
Hormuz risk assessment	vs ~6h manual equiv.	Of 12 Hormuz-exposed	Across 5.5M barrels	Reroutes pre-approved	FM + war risk edge cases

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SCENARIO PROBABILITY MODEL

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PER-CARGO RISK SCORING

9 cargoes scored as actionable: CARGO-020 (Dubai M1/Vitol) — IRGC harassment, 5–8d, $480K; CARGO-022 (Qatar Marine/Trafigura) — naval standoff, 8–12d, $720K; CARGO-021 (Upper Zakum/Shell) — full reroute, 12–18d, $1.2M; CARGO-028 (Basrah DES/ENEOS) — active delay 7d, $890K; CARGO-034 (Iran Heavy/ONGC) — blockade risk 14–45d, $2.1M FM trigger.

REROUTE ECONOMICS ENGINE

Rerouting cost models applied: Cape of Good Hope adds 8–12 sailing days + $180K additional bunker per VLCC, total cost $1.2–1.8M per cargo. Fujairah bypass via ADCOP pipeline: $85K one-time cost, 0-day delay — economically optimal for UAE-origin grades. CARGO-019 (Murban/ADNOC) pre-emptively rerouted. CARGO-021 (Upper Zakum) CoGH route recommended.

AI-SCORED CARGO RISK MATRIX

CARGO	GRADE	SCENARIO	AI RISK	EST. COST	AI ACTION
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AI RECOMMENDATIONS

1. Activate Fujairah pipeline bypass for Murban, Upper Zakum, Das Blend — eliminates Hormuz transit for UAE-origin grades ($85K vs $1.2M+ reroute cost).
2. Negotiate fleet war risk insurance bulk policy immediately — estimated saving $160K/voyage before crisis premiums exceed 0.5% hull value.
3. Invoke Force Majeure Clause 16 on CARGO-034 (Iran Heavy / Kharg Island) — route to Legal for sign-off. $2.1M exposure, 14–45 day delay probability 10%.

AI-Generated Recommendations

5 prioritised actions · Fujairah pipeline bypass · War risk insurance · Force Majeure invocation · AIS geofence alerts

Cargo Entry · Status Codes · Grades & Locations · Cargo Blotter · Hormuz Risk · Contango & Storage · Distressed & Book-Outs · AI Reasoning

CLAUDE AI — HORMUZ REASONING CHAIN

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WAR RISK INSURANCE ASSESSMENT
War risk premium analysis: Current Hormuz rate 0.43% hull value (4× pre-crisis norm of 0.11%). 9 at-risk cargoes × avg VLCC hull $120M = $465K additional insurance cost per voyage. Pre-emptive multi-voyage bulk policy estimated at $280K — saving $160K/voyage. Recommend immediate broker engagement before next escalation event.

PORTFOLIO EXPOSURE SUMMARY

AI-SCORED CARGO RISK MATRIX

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2. Negotiate fleet war risk insurance bulk policy immediately — estimated saving $160K/voyage before crisis premiums exceed 0.5% hull value.
3. Invoke Force Majeure Clause 16 on CARGO-034 (Iran Heavy / Kharg Island) — route to Legal for sign-off. $2.1M exposure, 14–45 day delay probability 10%.
4. Build 15–21 day crude buffer at Fujairah and Salalah terminals (from current 7–10 days). Pre-position before escalation peaks in Q2 2026.
5. Deploy Vortexa/Kpler AIS geofenced alerts for all VLCCs within 200nm of the Strait. Automated early warning triggers required within 5 business days.

Connected: PETRO/GSS (Platts MOC Live)

User: NTRRPA\trader01 | Server: PETRO-RT-PROD (10.50 RTM) |

Unfulfilled Trade — Live AI Scenario Analysis

- 💰 $102.4M gross exposure across 7 distressed cargoes
- 🎛️ Price scenario toggle: $60 Base · $55 Mid · $48 Bear · $90 Surge
- 🔍 Per-cargo Claude drill-down — live API, nothing hardcoded
- 📊 Recovery modelling · Provision range · Book-out forecasting

LIVE AI DEMO · 2 OF 2

Unfulfilled Trade — AI Scenario Analysis

Price scenario toggle + per-cargo Claude drill-down — the full distressed trade lifecycle, AI-reasoned in real time

🎛️ 3 Features in One Demo

① Scenario Toggle — Switch between $60 Base, $55 Mid, $48 Bear, $90 Surge. Every KPI, recovery estimate and net loss updates instantly across distressed cargoes.

② Per-Cargo Drill-Down — Click any row to isolate that trade. The AI reasoning panel activates for that specific cargo.

③ Live Claude API — The reasoning is genuinely dynamic. Claude receives real cargo data + scenario and generates bespoke analysis — nothing hardcoded.

Portfolio Under Analysis

CARGO-035	Hin Leong	$48M · DEFAULT
CARGO-036	Zhenhua Oil	$26M · FROZEN
CARGO-034	ONGC Videsh	$26M · FM INVOKED
CARGO-033	Unipec	$2.4M · DISPUTE
TOTAL GROSS EXPOSURE		**$102.4M**

PETROMOVE · UNFULFILLED TRADE INTELLIGENCE

📊

Distressed Trade AI Analysis

Scenario toggle · Per-cargo reasoning · Live Claude API · Recovery modelling

▶️ Launch Unfulfilled Trades Demo ↗

Opens unfulfilled_trades_ai.html

💡 Demo tip: Start at $60 Base, click Hin Leong, watch Claude reason through it. Then switch to $90 Surge — notice Claude generates materially different language around recovery probability and counterparty incentives.

AI Scenario Analysis — Pricing Parameters

NTRRPA/AI · Live Claude API · $90 Surge selected · Gross exposure $86M · Est. net loss $16M · Recovery 62% · 93% confidence

NTRRPA/AI · GENAI RISK INTELLIGENCE · LIVE CLAUDE API

Unfulfilled Trade — AI Scenario Analysis

Select a price scenario, then click any cargo for a live Claude-generated drill-down

PRICE SCENARIO

$68 Base | $55 Mid | $48 Bear | $90 Surge ▲

$90 Surge ▲ (90/bbl) — Gross exposure $86.0M | Est. net loss $16M | Book-out forecast 0–1 Q2 | 93% confidence

Claude confidence: 93%

GROSS EXPOSURE	EST. NET LOSS	RECOVERY RATE	BOOK-OUTS (EST.)	PROVISION RANGE	AI CONFIDENCE
$86.0M	$16M	62%	0–1	$16–26M	93%
4 distressed cargoes	Post-recovery estimate	Weighted avg	Q2 2026 forecast	Q1 2026 reporting	This scenario

DISTRESSED CARGO PORTFOLIO — CLICK ROW FOR AI DRILL-DOWN

CARGO REF	TYPE	GRADE	COUNTERPARTY	EXPOSURE	ADJ. EXPOSURE	RECOVERY	NET LOSS	STATUS
CARGO-035	Credit Default	Basrah Heavy	Hin Leong	$48M	$40.3M	38%	$25.0M	DEFAULT
CARGO-036	Sanctions	South Pars	Zhenhua Oil	$26M	$21.8M	61%	$8.5M	FROZEN
CARGO-034	Force Majeure	Iran Heavy	ONGC Videsh	$26M	$21.8M	91%	$2.0M	FM INVOKED
CARGO-033	Quality Dispute	Arab Med	Unipec	$2.4M	$2.0M	100%	$0.0M	DISPUTE
CARGO-030	Book-Out	Dubai M1	Vitol SA	$1.2M	$1.0M	100%	$0.0M	BOOK-OUT
CARGO-031	Book-Out	Murban	Glencore	$0.8M	$0.7M	100%	$0.0M	BOOK-OUT
CARGO-032	Book-Out	Upper Zakum	BP Trading	$0.4M	$0.3M	100%	$0.0M	SETTLED

Adj. Exposure and Recovery columns update with scenario. Click any row → Live Claude analysis.

CLAUDE AI — PER-CARGO REASONING

Select a price scenario and click any cargo row to trigger a live Claude analysis of that specific trade

Live AI — Per-Cargo Drill-Down

CARGO-033 Arab Med / Unipec selected · Quality Dispute · $90 Surge · Claude reasoning in progress — real API call, not scripted

NTRRPA/AI · GENAI RISK INTELLIGENCE · LIVE CLAUDE API

Unfulfilled Trade — AI Scenario Analysis

Select a price scenario, then click any cargo for a live Claude-generated drill-down

PRICE SCENARIO

$60 Base | $55 Mid | $48 Bear | $90 Surge ▲

$90 Surge ▲ (90/bbl) — Gross exposure $86.0M | Est. net loss $16M | Book-out forecast 0–1 Q2 | 93% confidence

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CARGO-034	Force Majeure	Iran Heavy	ONGC Videsh	$26M	$21.8M	91%	$2.0M	FM INVOKED
CARGO-033	Quality Dispute	Arab Med	Unipec	$2.4M	$2.0M	100%	$0.0M	DISPUTE
CARGO-030	Book-Out	Dubai M1	Vitol SA	$1.2M	$1.0M	100%	$0.0M	BOOK-OUT
CARGO-031	Book-Out	Murban	Glencore	$0.8M	$0.7M	100%	$0.0M	BOOK-OUT
CARGO-032	Book-Out	Upper Zakum	BP Trading	$0.4M	$0.3M	100%	$0.0M	SETTLED

Adj. Exposure and Recovery columns update with scenario. Click any row → Live Claude analysis.

CLAUDE AI — PER-CARGO REASONING

CARGO-033 — Arab Med $2.0M

Quality Dispute · Unipec

$90 Surge ▲ scenario · Net loss est. $0.0M

Claude is reasoning through CARGO-033...

Live AI Analysis & Full Recommendation

Exposure mechanics · Scenario risk shift · Counterparty assessment · Recovery path · Recommended action — complete per-cargo Claude output

PETROMOVE Strategy Report AI Analysis LIVE

GROSS EXPOSURE	EST. NET LOSS	RECOVERY RATE	BOOK-OUTS (EST.)	PROVISION RANGE	AI CONFIDENCE
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CARGO-031	Book-Out	Murban	Glencore	$0.8M	$0.7M	100%	$0.0M	BOOK-OUT
CARGO-032	Book-Out	Upper Zakum	BP Trading	$0.4M	$0.3M	100%	$0.0M	SETTLED

Adj. Exposure and Recovery columns update with scenario. Click any row → Live Claude analysis.

CLAUDE AI — PER-CARGO REASONING

CARGO-033 — Arab Med **$2.0M**

Quality Dispute · Unipec

$90 Surge ▲ scenario · Net loss est. $0.0M

EXPOSURE MECHANICS

Original $2.4M exposure based on $4.80/bbl penalty claim on 500K bbls for sulfur content exceeding 2.04% specification by 0.27%. At $90/bbl oil price, the cargo value is $45M, reducing the relative impact of quality penalty to 5.3% of total value versus 10% at $48/bbl scenario.

SCENARIO RISK SHIFT

Under $90 surge scenario, Unipec's incentive structure fundamentally changes from potential rejection to settlement acceptance. High oil prices create strong motivation for Unipec to take physical delivery rather than reject cargo, as replacement costs would be prohibitive at current market levels.

COUNTERPARTY ASSESSMENT

Unipec's A+ credit rating provides payment certainty once settlement terms are agreed. Their position as major Chinese oil trader means they have downstream refining capacity to process slightly off-spec crude, particularly when margins are favorable at $90/bbl pricing environment.

RECOVERY PATH

SGS re-assay pending provides technical basis for penalty negotiation, likely settling at $2.0M adjusted exposure (83% of original claim). 100% recovery probability reflects Unipec's strong credit profile and economic incentive to settle rather than reject valuable physical cargo in tight market conditions.

RECOMMENDED ACTION

Maintain position and accelerate SGS resolution timeline to capitalize on favorable settlement conditions. Prepare negotiation framework targeting 15-20% penalty reduction from original claim, leveraging Unipec's strong motivation to secure physical barrels at current price levels.

SWIFT Message Flows — Per-Cargo Trigger Sequence

MT 103 · MT 202 · MT 700 · MT 760 · MT 999 — automatically triggered by cargo risk tier, sanctions status and distress reason

🔴 CRITICAL · IN STRAIT · 5 CARGOES

MT 999	Force Majeure invocation — BIMCO CONWARTIME 2013 · voyage suspended · counterparty notified
MT 999	War risk premium notice → Lloyd's syndicate · 0.87% hull (4× norm)
MT 103	Payment hold — all settlement obligations suspended · /HOLD/ FM

HRM-001 · HRM-002 · HRM-004 · HRM-006 · HRM-009

🟡 HIGH · PERSIAN GULF · 4 CARGOES

MT 999	Cape of Good Hope reroute advisory · consent request · +14 days · cost quoted
MT 999	Demurrage & laytime suspension notice → shipowner · $45,000/day claim preserved
MT 103	Cape reroute premium payment — fires on counterparty consent only

HRM-003 · HRM-005 · HRM-007 · HRM-008

🟣 DISTRESSED TRADES · 7 TRADES

BLOCKED CP	MT 999 Credit Freeze + ISDA CSA Collateral Call $36M
WATCHLIST	MT 999 EDD Notice + MT 202 via approved correspondent bank only
FORCE MAJ.	MT 999 FM invocation + MT 103 Brent hedge at $89/bbl
GEOPOLITICAL	MT 999 Payment demand + MT 760 Standby LC trigger
DISPUTED	MT 999 Dispute notice + MT 103 Book-out settlement

16	5	$474M	$36M
TOTAL CARGO / TRADE FLOWS	MESSAGE TYPES USED	GROSS DISTRESSED EXPOSURE	ISDA COLLATERAL CALL

IFT fields fully specified — :20: :21: :32A: :50K: :57A: :59: 7

NEXT STEPS

Ready to Transform Petroleum Intelligence?

① Convene Risk Review

Emergency credit risk session — stress-test all 36 open cargoes at $48 bear case using the AI Analysis module

② Sprint 1 Kickoff

Data Foundation sprint — CDC pipeline from SQL Server 2022 to AWS S3, Bronze/Silver/Gold zones, Databricks workspace provisioning

③ RAG Knowledge Base

Embed 15 years of PETROMOVE petroleum trade history into vector store — this becomes Claude's petroleum domain expertise

④ Sanctions Screening

Deploy Refinitiv World-Check real-time OFAC/EU screening — block nominations until compliance clearance received

⑤ Q1 2026 Provisions

Set bad debt provision range $42–60M for Q1 financial reporting. Base case weighted recovery: 41% across distressed portfolio

⑥ Databricks Unity Catalog

Configure Unity Catalog governance across Aramco Pipeline workspace for production readiness · databricks.com

▶️ Hormuz AI Demo ↗

▶️ Unfulfilled Trades Demo ↗

🔶 Databricks Platform ↗

CONTACT

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