



STRUCTURAL HIGHS: DETECTING POTENTIAL CHARGE



Geologic Regions of Bolivia



Gas-like hydrocarbon signature vs. geochemical background signature

	EMBOROZU			
TERTIARY	GUANDACAY			
	TARIQUIA			
	YECUA			
	PETACA			
CRETACEOUS	CAJONES			
JURASSIC	TACURU Gr.			
II FEROUS RMIAN	CUEVO Gr. VITIACUA CANGAPI	Setting and		
	JUN SAN TELMO			
	MAND'S ESCARPMENT			
EF	TAIGUATI			
- F	CHARE CHORRO			
C	NAC GE. TUPAMBI			
DEVONIAN				
	LOS MONOS			
	HUAMAMPAMPA			
	ICLA			
	SANTA ROSA			
SILURIAN	TARABUCO			
	KIRUSILLAS			
	CANCAÑIRI	1000m		
ORDOVICIAN				
After Viera, A.F. and Hernandez, R.M., 2001				

Stratigraphic column

Geology:

- Highly faulted anticlines
- Target: Gas in the Devonian Huamampampa Fm. at a depth of 3500 to 5000 m
- Surface terrain has extremely rugged, steep rocky slopes with thick vegetation



92.5 90.0 87.5 85.0 82.5 80.0 77.5 75.0 72.5 70.0 67.5 60.0 62.5 60.0 57.5 55.0

52.5 50.0 47.5 45.0 42.5 40.0 37.5 35.0 32.5 30.0 27.5 25.0 22.5 20.0 17.5 15.0

AGI Survey - 100% Prediction Rate

Well	Predicted Result	Actual Result	Comment
X-2	Gas Well	Gas Well	Geochemical positive yields producing gas well
X-3	Dry Hole	Dry Hole	Formation penetrated below gas/water contact
X-4	Dry Hole	Dry Hole	Formation has <2% porosity, hole P&A
X-8	Dry Hole	Dry Hole	Geochemical negative yields dry hole
X-9	Dry Hole	Dry Hole	Geochemical negative yields dry hole

Survey Summary

- W/E transects across anticlines
- 600 km² coverage
- 1000 m sample spacing

Survey Results

- AGI Survey accurately predicted outcome of five out of five post-survey wells
- Client could have saved \$60 million on dry hole expenses (each well cost ~\$15 million)

AGI Survey results showing high probability areas for finding analogs of Huamampampa gas. White wells were drilled post-survey.



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