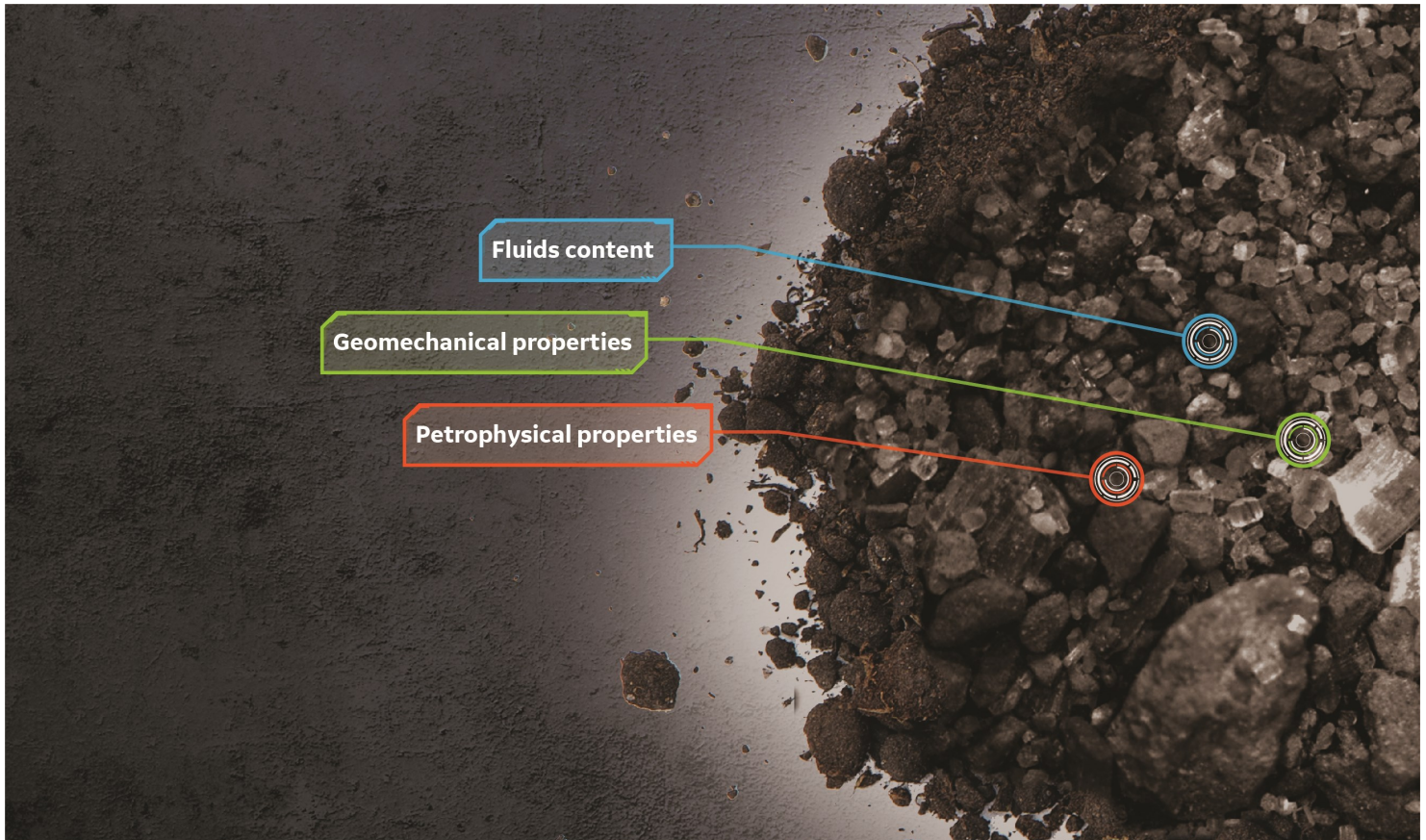


Volatiles Analysis Services



Company: **Hilcorp**

Field: **Cook Inlet**

State: **Alaska**

Latitude:

API#: **5012110000x0000**

Sample Type: **Lab Loaded Legacy Cuttings and Core**

Well: **3 Alaska Iniskin Wells**

County: **Cook Inlet**

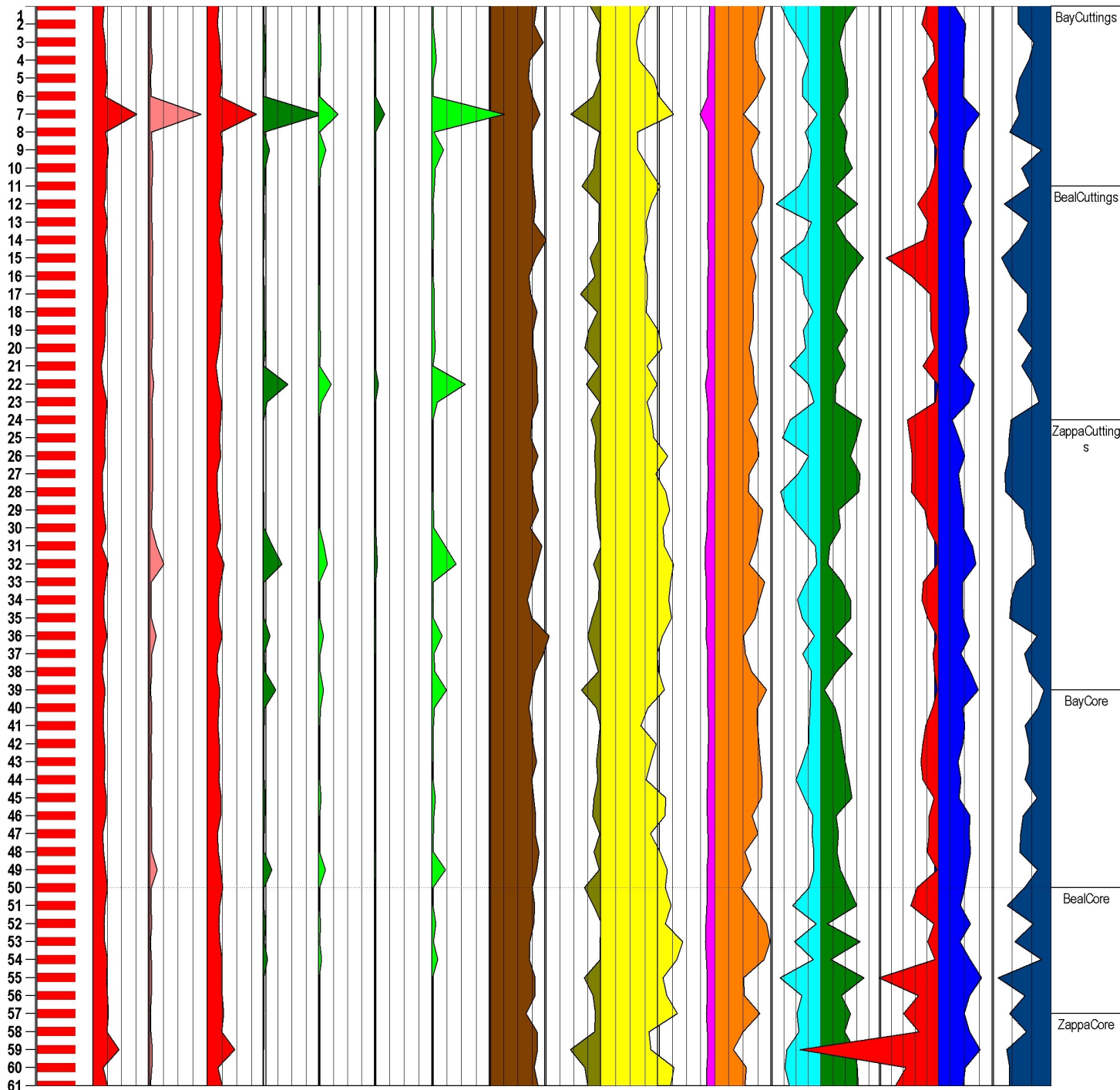
Country: **USA**

Longitude:

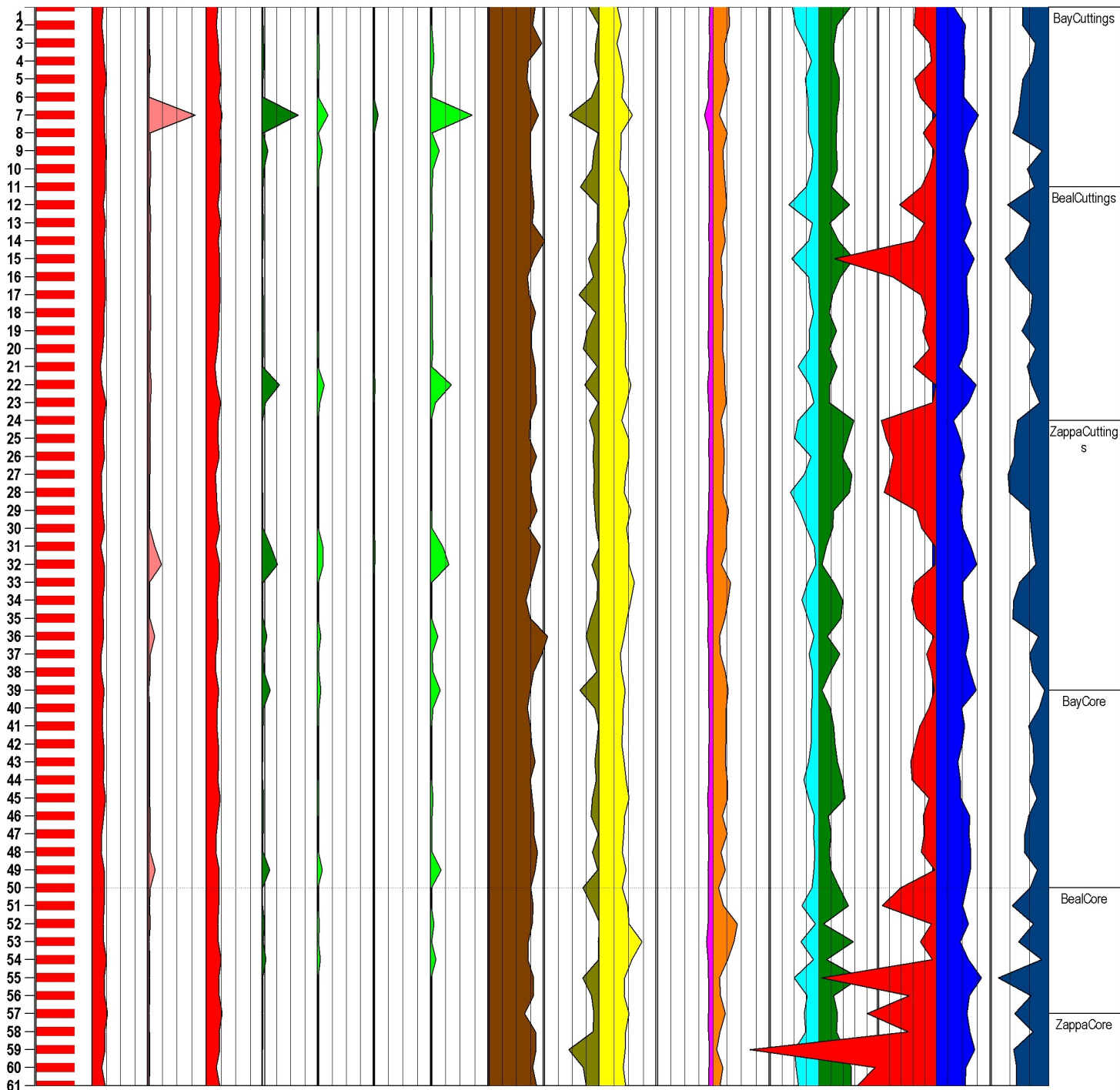
Date Analyzed: **3 NOV 2020**

In making interpretations of VAS and other logs, our employees and associates will give the customer the benefit of their best judgment. But since all interpretations are opinions based on inferences from electrical, analytical, and other measurements, we cannot, and we do not, guarantee the accuracy or correctness of any interpretation. We shall not be liable or responsible for any loss, cost, damages, or expenses whatsoever incurred or sustained by the customer resulting from any interpretation made by any of our employees or associates.

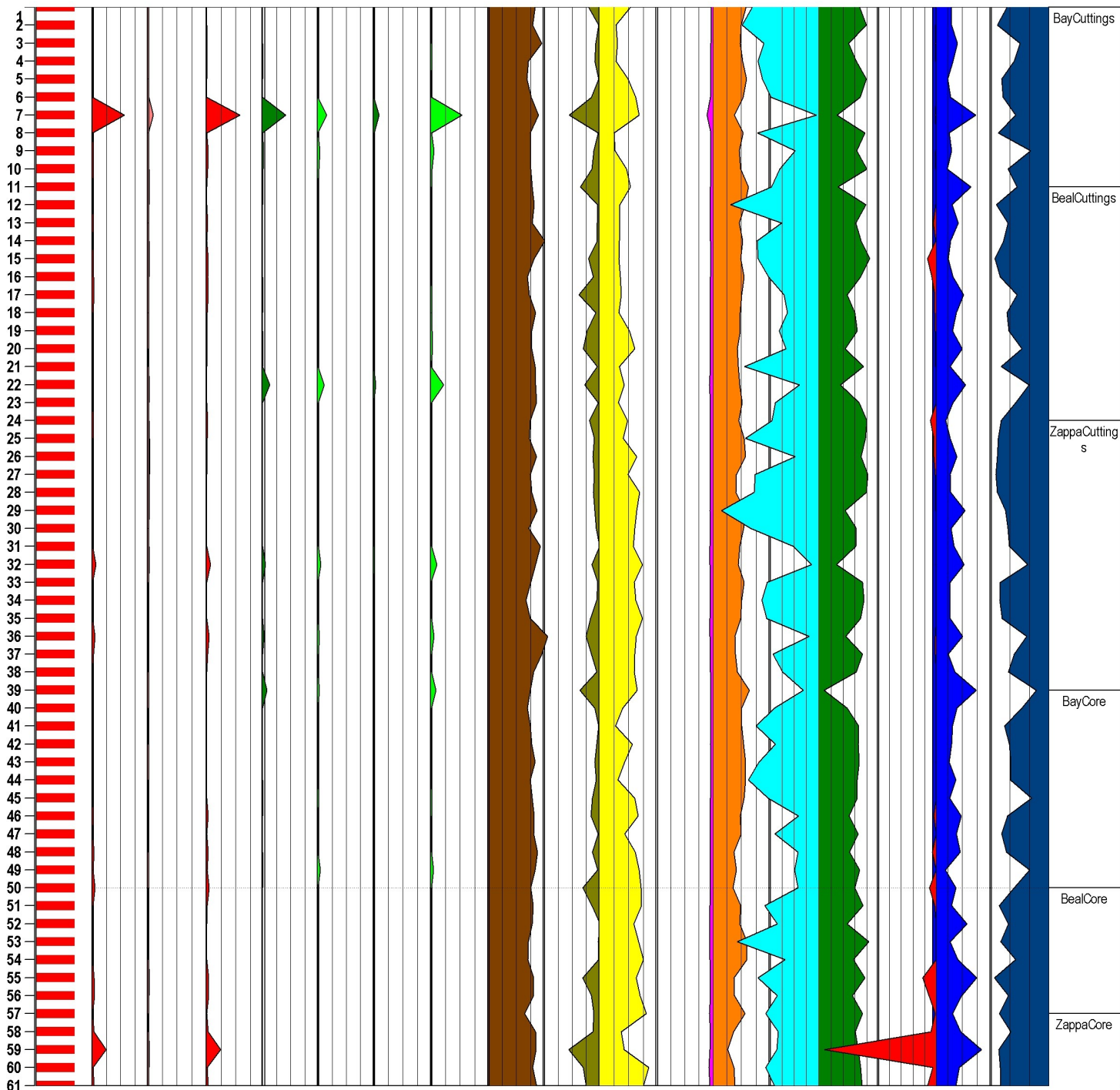
DEPTH	SAMPLES	METHANE Volume	C2 to C4 Volume	TOTAL GAS Volume	C5 to C10 Paraffins	C6 to C10 Naphthenes	C6 to C8 Aromatics	TOTAL OIL Volume	Mechanical Strength	Permeability Aliquot 2 vs 1	Formic Acid Proximity to Pay	Acetic Acid Proximity to Pay	Total Water Absolute	Benzene/ Toluene	(C9+C10)/ (C5+..+C10)	GOR Subject to Gas Loss	Paraffins/ (Paraffins+ Naphthenes)	Aromatics/ (Aromatics+ Naphthenes)	TOPS
		0 200000	0 1500	0 200000	0 1500	0 1500	0 1500	0 5000	0.0 2.0	100 100	0 5000	5000 0	0 500	25 0	0 100	1500000	0 100	100 0	0
GAS <-Analytical Values, ppm(Rock Volume) THIS ALIQUOT->					OIL RESERVOIR (THIS ALIQUOT)					PRODUCT (THIS ALIQUOT)									



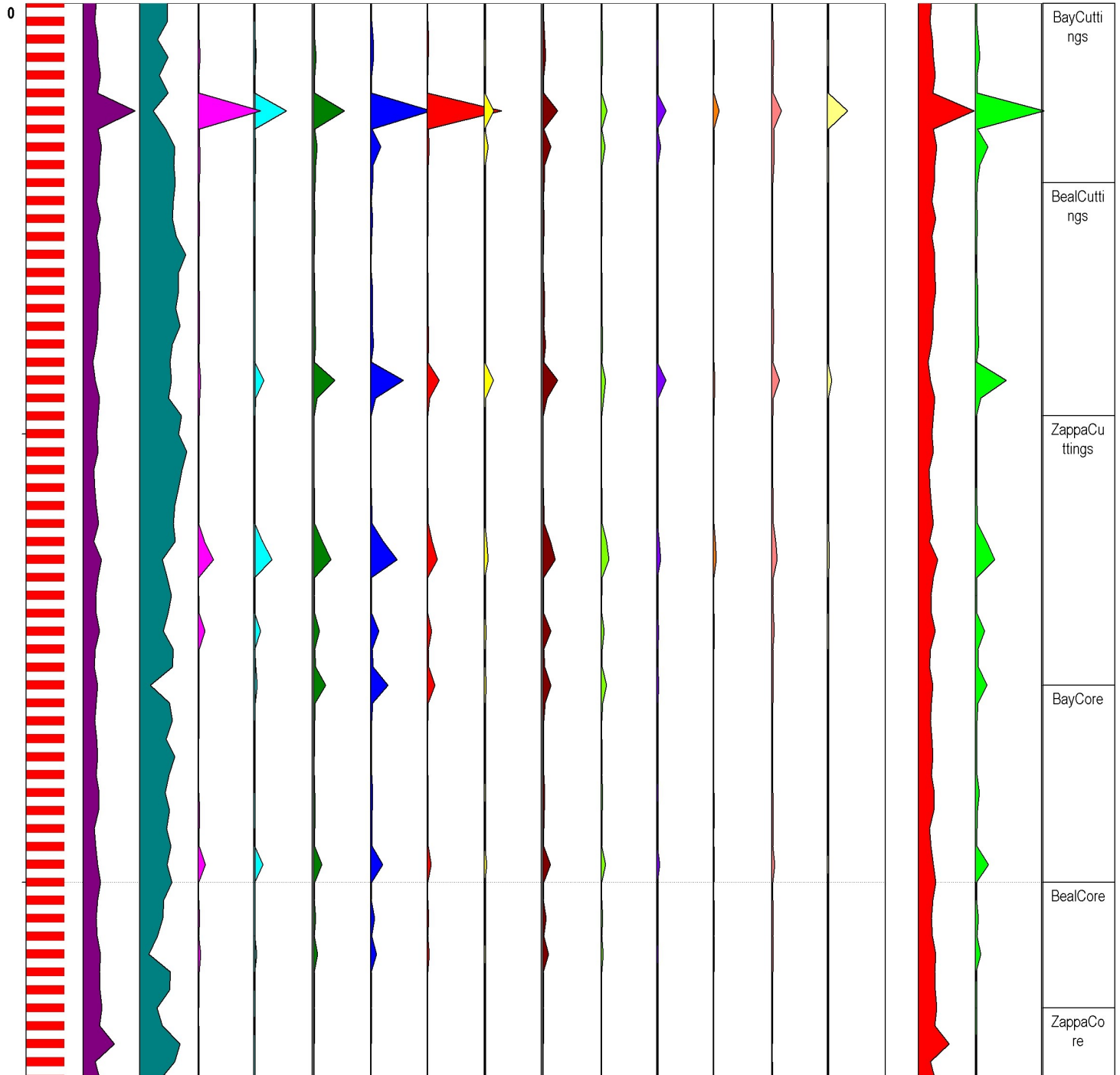
DEPTH	SAMPLES	METHANE Volume	C2 to C4 Volume	TOTAL GAS Volume	C5 to C10 Paraffins	C6 to C10 Naphthenes	C6 to C8 Aromatics	TOTAL OIL Volume	Mechanical Strength	Permeability Aliquot 2 vs 1	Formic Acid Proximity to Pay	Acetic Acid Proximity to Pay	Total Water Absolute	Toluene/ Benzene	(C9+C10)/ (C5+..+C10)	GOR Subject to Gas Loss	(Paraffins/ Naphthenes)	(Aromatics/ Naphthenes)	TOPS
		0 20000	0 1500	0 20000	0 1500	0 1500	0 1500	0 5000	0.0 2.0	100-100	0 5000	5000 0	0 500	25 0	0 100	1500000	0 100	100 0	0 0
GAS <-Analytical Values, ppm(Rock Volume) THIS ALIQUOT->										OIL RESERVOIR (THIS ALIQUOT) PRODUCT (THIS ALIQUOT)									



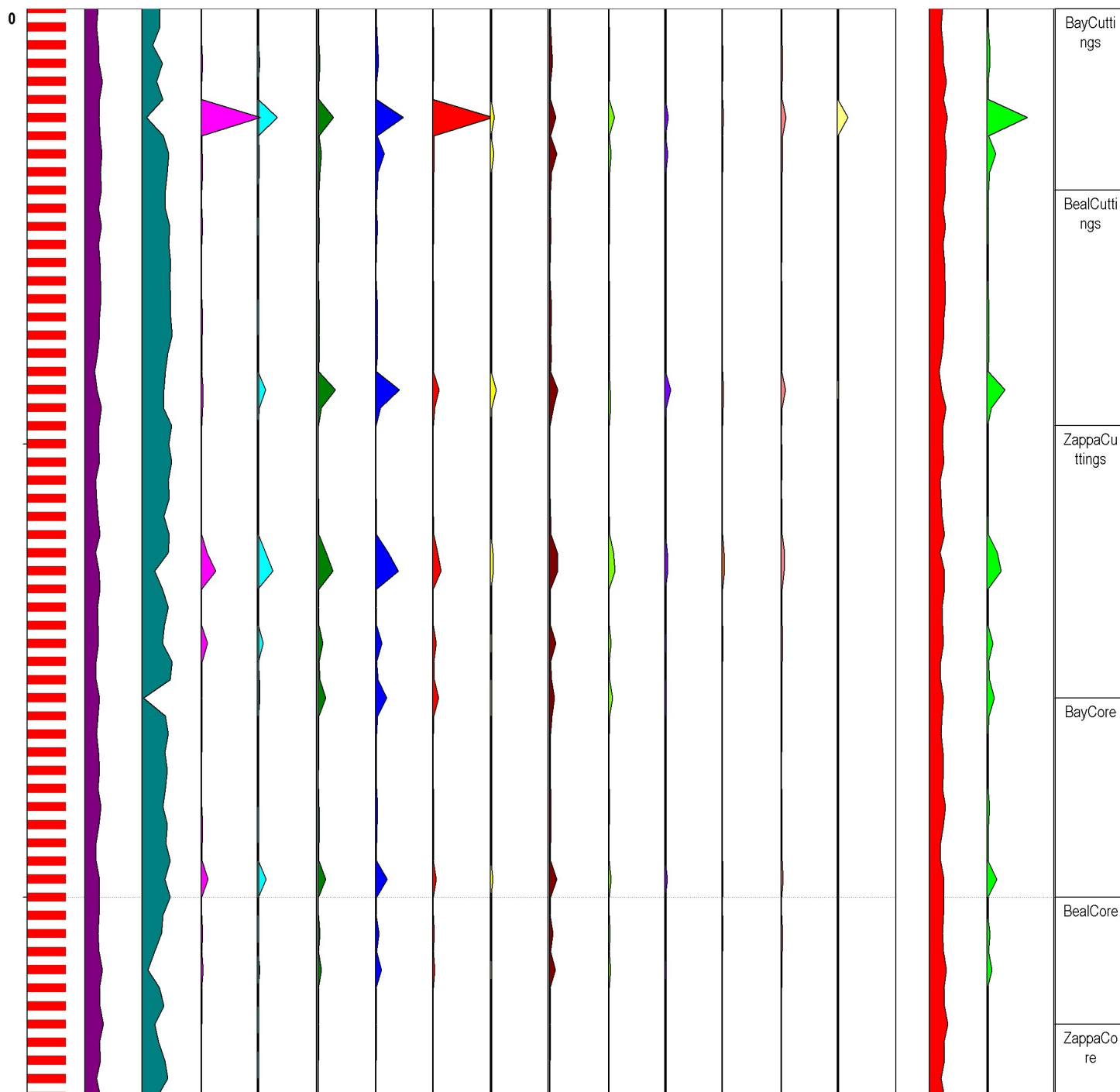
DEPTH	SAMPLES	METHANE Volume	C2 to C4 Volume	TOTAL GAS Volume	C5 to C10 Paraffins	C6 to C10 Naphthenes	C6 to C8 Aromatics	TOTAL OIL Volume	Mechanical Strength	Permeability Aliquot 2 vs 1	Formic Acid Proximity to Pay	Acetic Acid Proximity to Pay	Total Water Absolute	Toluene/ Benzene	(C9+C10)/ (C5+..+C10)	GOR Subject to Gas Loss	(Paraffins+ Naphthenes)	(Aromatics+ Naphthenes)	TOPS
		0 20000	0 1500	0 20000	0 1500	0 1500	0 1500	0 5000	0.0 2.0	100-100	0 5000	5000 0	0 500	25 0	0 100	1500000	0 100	100 0	0 0
GAS <-Analytical Values, ppm(Rock Volume) THIS ALIQUOT->										OIL RESERVOIR (THIS ALIQUOT)			PRODUCT (THIS ALIQUOT)						



DEPTH	SAMPLES	METHANE	ETHANE	PROPANE	BUTANES	PENTANES	HEXANES	HEPTANES	OCTANES	NAPHTHENES C6	NAPHTHENES C7	NAPHTHENES C8	BENZENE	TOLUENE	AROMATICS C8	Oil Mbbbls/SLV Calculated Using HC Standards	MCF Gas/SLV	TOPS
		0 50000	0 1000	0 10000	0 1500	0 1500	0 1500	0 1500	0 1500	0 1500	0 1500	0 1500	0 1500	0 1500	0 1500	0 200	0 4000	0 0
ANALYTICAL VALUES																EQUIV. PRODUCTION		
NanoMoles Hydrocarbon per 400 microLiters Cuttings																		



DEPTH	SAMPLES	METHANE	ETHANE	PROPANE	BUTANES	PENTANES	HEXANES	HEPTANES	OCTANES	NAPHTHENES C6	NAPHTHENES C7	NAPHTHENES C8	BENZENE	TOLUENE	AROMATICS C8	Oil Mbls/slv Calculated Using HC Standards	MCF Gas/slv	TOPS
		0 50000	0 1000	0 10000	0 1500	0 1500	0 1500	0 1500	0 1500	0 1500	0 1500	0 1500	0 1500	0 1500	0 1500	0 200	0 4000	0 0
ANALYTICAL VALUES																EQUIV. PRODUCTION		
NanoMoles Hydrocarbon per 400 microLiters Cuttings																		



DEPTH	SAMPLES	METHANE	ETHANE	PROPANE	BUTANES	PENTANES	HEXANES	HEPTANES	OCTANES	NAPHTHENES C6	NAPHTHENES C7	NAPHTHENES C8	BENZENE	TOLUENE	AROMATICS C8	Oil Mbls/slv Calculated Using HC Standards	MCF Gas/slv	TOPS
		0 50000	0 1000	0 10000	0 1500	0 1500	0 1500	0 1500	0 1500	0 1500	0 1500	0 1500	0 1500	0 1500	0 1500	0 200	0 4000	0 0
ANALYTICAL VALUES																EQUIV. PRODUCTION		
NanoMoles Hydrocarbon per 400 microLiters Cuttings																		

