

Supplementary material

Table S1: Parameters for the Armas-1 pseudowell

Fm.	Top (ft)/thickness	Age	Geological event	Lithology	%TOC	IH (mg HC/g TOC)
Hiatus	0	1	H	sh100		
Erosion 3	0/-25,000	3	E	sh100		
Real	0/9,800	5	D	ss100		
Erosion 2	0/-300	12	E	sh100		
Colorado Eroded	0/300	15	D	ss80, cg20		
Colorado	0/1,900	18	D	ss80, cg20		
Mugrosa	0/1,600	23	D	ss80, sh20		
Esmeraldas	0/1,900	32	D	ss60, sh40		
La Paz	0/1,900	35	D	ss80, cg20		
Erosion 1	0/-300	45	E			
Lisama Eroded	0/300	50	D	ss10, sh90		
Lisama	0/2,100	55	D	ss10, sh90		
Umir	0/3,200	65	D	ss2, sh98		
La Luna	0/2,600	80	D	sh20, ls80		
Simití	0	95	N	ss20, sh80		
Tablazo	5,576	108	N	sh40, ls60	5	500
Paja	8,282	120	N	ss10, sh90		
Rosablanca	11,890	130	N	ls100		
Cumbre	12,595	135	N	ss80, sh20		
Arcabuco/Girón	16,695	140	N	ss80, sh20		
Bottom	17,056	145				
		% Ro data				
		Depth (ft)	% Ro			
		10,305	2.2			

Table S2: Parameters for the Bolívar-1 pseudowell

Fm.	Top (ft)/thickness	Age	Geological event	Lithology	%TOC	IH (mg HC/g TOC)
Hiatus	0	0	H			
Erosion 2	0/–2,500	3	E			
Neógeno	0/2,500	5	D	sh90, ss10		
Eroded						
Erosion 1	0/–500	25	E			
Concentración	0/500	26	D	sh90, ss10		
Eroded						
Concentración	0	28	N	sh90, ss10		
Picacho	2,530	41	N	sh90, si10		
Socha	3,600	48	N	ss30, sh70		
Guaduas	4,800	61	N	sh70, ss20, cg10		
Guadalupe	5,800	72	N	ss60, sh15, si25		
Chipaque	6,853	75	N	sh80, ss10, si10		
Chipaque RG	7,700	93	N	sh100	3	450
Une	8,053	101	N	ss80, sh20		
Tibasosa RG	9,653	125	N	ls60, sh40	4	500
Bottom	11,153	139	N			

Table S3: Parameters for the Nunchía-1 pseudowell

Fm.	Top (ft)/thickness	Age	Geological event	Lithology	%TOC	IH (mg HC/g TOC)
Q	0	0	N	ss90, sh10		
Erosion 2	100/~3,300	3	E			
Guayabo Eroded	100/3,300	4	D	ss70, sh30		
Guayabo	100	6	N	ss70, sh30		
León	8,313	10	N	sh100		
C1	10,108	12	N	ss90, sh10		
C2	11,100	15	N	ss10, sh90		
C3	12,716	18	N	ss90, sh10		
C4	13,200	21	N	ss10, sh90		
Erosion 1	13,628/~50	22	E			
C5 Eroded	13,628/50	23	D	ss90, sh10		
C5	13,628	24	N	ss90, sh10		
C6	14,500	27	N	ss10, sh90		
C7	16,138	30	N	ss90, sh10		
C8	16,500	32	N	ss10, sh90		
Mirador	17,339	34	N	ss90, sh10		
Cuervos	17,972	54	N	ss60, sh40		
Barco	18,395	56	N	ss59, sh41		
Hiato 1	18,930/0	60	H			
Guadalupe	18,930	74	N	ss85, sh15		
Gachetá	19,389	88	N	ss10, sh90	3.5	400
Une	20,006	95	N	ss50, sh50		
Fómeque	20,354	100	N	sh40, ls60	5	550
Las Juntas	20,800	110	N	ss70, sh30		
Bottom	21,197	135				