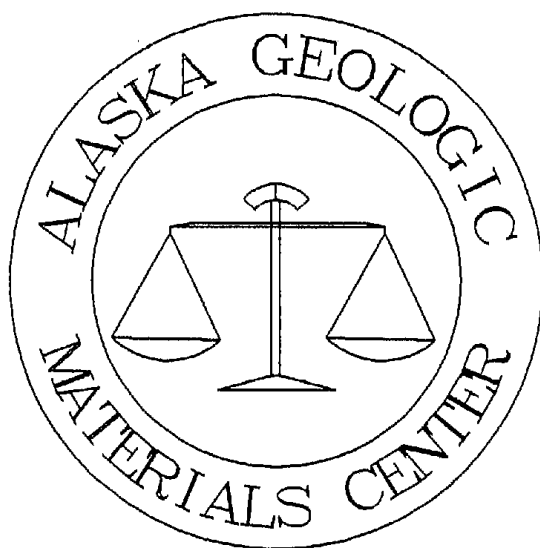


Source rock geochemical and visual kerogen data from cuttings (2,520' - 8,837') of the Union Oil Company of California Tazlina No. 1 well.



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SOURCE ROCK GEOCHEMICAL AND VISUAL KEROGEN DATA

TAZLINA #1

PAGE 1 OF 2

SPL TYP	SAMPLE DEPTH FEET	TOTAL ORGANIC CARBON (TOC)	S1 PEAK (TEH)	S2 PEAK (PI)	THERMAL TION INDEX (TEI)	THERMAL EXTRAC- TION INDEX (TEI)	HYDRO GEN INDEX (HI)	VITRINITE REFLECTANCE (RO)					THERMAL TION INDEX (TAI)	NORMALIZED PERCENT				GEOCHEM SAMPLE CODE
								RO MEAN	STD. DEV.	RO MODE	RO RANGE		PTS	ALG	EXI	VIT	INER	
CUT	2520-2670	.74	.05	.45	.10	7	61						2	35	5	40	20	
KER	2520-2670	57.56	13.54	61.06	.18	24	106											
CUT	2670-2820	.62	.07	.20	.26	11	32						2	40	10	30	20	
KER	2670-2820	57.04	11.15	66.30	.14	20	116											
CUT	2820-2970	.84	.19	.50	.28	23	60	.39	.06	.41	.28	.51	51	2	50	10	20	20
CUT	2970-3120	1.35	.17	.70	.20	13	52						2	35	5	40	20	
KER	2970-3120	53.41	7.50	42.12	.15	14	79											
CUT	3120-3270	1.12	.22	.70	.24	20	62	.37	.06	.32	.27	.48	32	2	8	2	80	10
KER	3120-3270	55.47	5.47	43.54	.11	10	78											
CUT	3270-3420	.94	.23	.78	.23	24	83						2	27	3	40	30	
KER	3270-3420	55.53	7.26	47.72	.13	13	86											
CUT	3420-3570	5.17	.19	2.34	.08	4	45						2	30	3	40	27	
KER	3420-3570	51.56	5.75	41.62	.12	11	81											
CUT	3570-3720	.76	.09	.40	.18	12	53						2	25	3	35	37	
KER	3570-3720	37.84	10.96	49.02	.18	29	130											
CUT	3720-3870	.90	.16	.50	.24	18	56						2	17	3	50	30	
KER	3720-3870	39.57	6.15	43.56	.12	16	110											
CUT	3870-4020	1.26	.08	.52	.13	6	41	.43	.05	.40	.34	.53	27	2	57	3	30	10
KER	3870-4020	39.15	6.80	49.44	.12	17	126											
CUT	4020-4170	3.18	.13	1.26	.09	4	40						2	30	5	40	25	
KER	4020-4170	40.54	6.28	46.00	.12	15	113											
CUT	4170-4320	1.23	.07	.40	.15	6	33						2	25	5	40	30	
KER	4170-4320	40.50	7.10	45.38	.14	18	112											
CUT	4320-4470	1.01	.16	.64	.20	16	63						2	32	3	35	30	
KER	4320-4470	39.23	20.06	60.20	.25	51	153											
CUT	4470-4620	1.00	.11	.48	.19	11	48	.56	.05	.55	.48	.66	24	2	43	2	35	20
KER	4470-4620	41.73	12.55	68.22	.16	30	163											
CUT	4620-4770	.76											2	35	7	30	28	
KER	4620-4770	37.93	10.96	62.79	.15	29	166											
CUT	4770-4920	.67	.07	.32	.18	10	48						2	40	5	30	25	
KER	4770-4920	35.55	9.89	52.52	.16	28	148											
CUT	4920-5070	.73	.08	.38	.17	11	52	.53	.06	.51	.40	.65	43	2	45	5	30	20
KER	4920-5070	51.88	8.86	52.26	.14	17	101											
CUT	5070-5220	.50	.05	.20	.20	10	40						2	55	5	30	10	
KER	5070-5220	49.12	11.84	57.30	.17	24	117											
CUT	5220-5370	.45											2	20	15	30	35	
CUT	5370-5520	.54	.11	.38	.22	20	70						2	40	10	25	25	
KER	5370-5520	53.28	12.30	55.84	.18	23	105											
CUT	5520-5670	.53	.10	.32	.24	19	60						2?	40	5	25	30	
KER	5520-5670	56.82	8.91	56.26	.14	16	99											
CUT	5670-5820	.26											2+?	30	5	25	40	
CUT	5820-5970	.38											2+?	62	3	15	20	
CUT	5970-6120	.46						.49	.06	.48	.38	.63	69	2+?	45	5	20	30

SOURCE ROCK GEOCHEMICAL AND VISUAL KEROGEN DATA

TAZLINA #1

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SPL TYP	SAMPLE DEPTH FEET	TOTAL ORGANIC CARBON (TOC)	S1 PEAK (TEH)	S2 PEAK	PRODUC- TION INDEX (PI)	THERMAL EXTRAC- TION INDEX (TEI)	HYDRO- GEN INDEX (HI)	VITRINITE REFLECTANCE (RO)				THERMAL ALTERA- TION INDEX (TAI)	NORMALIZED PERCENT		GEOCHEM SAMPLE CODE				
								RO MEAN	STD. DEV.	RO MODE	RO RANGE LOW HIGH		PTS	ALG		EXI	VIT	INER	
CUT	6120-6270	.36										2+?	35	10	25	30	[REDACTED]		
CUT	6270-6420	.30										2+	25	15	30	30			
CUT	6420-6570	.30										2+?	25	10	30	35			
CUT	6570-6720	.44										2+	20	15	35	30			
CUT	6720-6870	.42						.49	.04	.50	.41	.57	56	2+?	15	15		40	30
CUT	6870-7020	.52	.05	.26	.16	10	50						2+	15	10	40		35	
KER	6870-7020	48.29	8.84	81.08	.10	18	168												
CUT	7020-7170	.40											2+	15	15	40		30	
CUT	7170-7320	.96	.06	.80	.07	6	83						2+?	20	10	40		30	
KER	7170-7320	50.28	10.51	98.20	.10	21	195												
CUT	7320-7470	.51	.10	.38	.21	20	75						2+	30	10	20		40	
KER	7320-7470	47.24	11.21	65.74	.15	24	139												
CUT	7470-7620	.49						.45	.04	.42	.37	.54	54	2+?	30	5		30	35
CUT	7620-7770	.43											2+?	25	10	30		35	
CUT	7770-7920	.86	.11	.68	.14	13	79						2+	35	10	20		35	
KER	7770-7920	44.52	7.12	77.92	.08	16	175												
CUT	7920-8070	.76	.06	.62	.09	8	82						2	30	10	20		40	
KER	7920-8070	16.87																	
CUT	8070-8220	.61	.09	.44	.17	15	72	.45	.04	.42	.38	.52	56	2+?	40	5		30	25
KER	8070-8220	42.23	8.33	67.92	.11	20	161												
CUT	8220-8370	.39											2+	30	5	35		30	
CUT	8370-8520	.48											2++	20	5	40		35	
CUT	8520-8670	.71	.11	.56	.16	15	79	.53	.05	.52	.44	.63	27	2++	35	5		30	30
KER	8520-8670	54.85	10.82	81.14	.12	20	148												
CUT	8670-8820	.50	.09	.48	.16	18	96	.58	.06	.61	.43	.72	62	2++	45	5		30	20
KER	8670-8837	51.37	14.19	93.74	.13	28	182												

GEOCHEM SAMPLE CODE	TOP DEPTH	BOTTOM DEPTH	SAMPLE TYPE	TMAX (C)
EP94BGV	2520.0	2670.0	CUT	409
EP94BIW	2520.0	2670.0	KER	423
EP94BGW	2670.0	2820.0	CUT	445
EP94BIX	2670.0	2820.0	KER	421
EP94BGX	2820.0	2970.0	CUT	430
EP94BGY	2970.0	3120.0	CUT	438
EP94BIZ	2970.0	3120.0	KER	416
EP94BGZ	3120.0	3270.0	CUT	439
EP94BJA	3120.0	3270.0	KER	411
EP94BHA	3270.0	3420.0	CUT	445
EP94BJB	3270.0	3420.0	KER	415
EP94BHB	3420.0	3570.0	CUT	440
EP94BJC	3420.0	3570.0	KER	419
EP94BHC	3570.0	3720.0	CUT	436
EP94BJD	3570.0	3720.0	KER	419
EP94BHD	3720.0	3870.0	CUT	439
EP94BJE	3720.0	3870.0	KER	419
EP94BHE	3870.0	4020.0	CUT	443
EP94BJF	3870.0	4020.0	KER	420
EP94BHF	4020.0	4170.0	CUT	443
EP94BJG	4020.0	4170.0	KER	412
EP94BHG	4170.0	4320.0	CUT	444
EP94BJH	4170.0	4320.0	KER	411
EP94BHH	4320.0	4470.0	CUT	445
EP94BJI	4320.0	4470.0	KER	419
EP94BHI	4470.0	4620.0	CUT	442
EP94BJJ	4470.0	4620.0	KER	418
EP94BJK	4620.0	4770.0	KER	421
EP94BHK	4770.0	4920.0	CUT	440
EP94BJL	4770.0	4920.0	KER	417
EP94BHL	4920.0	5070.0	CUT	449
EP94BJM	4920.0	5070.0	KER	424
EP94BHM	5070.0	5220.0	CUT	435
EP94BJN	5070.0	5220.0	KER	422
EP94BHO	5370.0	5520.0	CUT	430
EP94BJP	5370.0	5520.0	KER	421
EP94BHP	5520.0	5670.0	CUT	443
EP94BJQ	5520.0	5670.0	KER	424
EP94BHY	6870.0	7020.0	CUT	439
EP94BJZ	6870.0	7020.0	KER	420
EP94BIA	7170.0	7320.0	CUT	443
EP94BKB	7170.0	7320.0	KER	419
EP94BIB	7320.0	7470.0	CUT	433
EP94BQS	7320.0	7470.0	KER	421
EP94BIE	7770.0	7920.0	CUT	436
EP94BQV	7770.0	7920.0	KER	422

TMAX DATA

WELL = TAZLINA #1

GEOCHEM SAMPLE CODE	TOP DEPTH	BOTTOM DEPTH	SAMPLE TYPE	TMAX (C)
EP94BIF	7920.0	8070.0	CUT	440
EP94BIG	8070.0	8220.0	CUT	440
EP94BOX	8070.0	8220.0	KER	426
EP94BIJ	8520.0	8670.0	CUT	433
EP94BRA	8520.0	8670.0	KER	421
EP94BIK	8670.0	8820.0	CUT	430
EP94BRB	8670.0	8837.0	KER	417