

MINERBIOLOGY OF  
WELLS NOT IN FOLDER

Well Name GMF 31-17  
 Latitude  
 Longitude  
 TVD ft 8787

Earth Science Laboratory  
 University of Utah Research Inst.  
 1988

Clay XRD								
depth ft	Smectite	* Chlorite & Chlorite-Smectite Union	Chlorite	Mixed layer chlorite-Smectite	Mixed layer illite-Smectite	Biotite	Talc	* Mostly chlorite but may contain some chlorite rich (80-90%) chlorite-smectite
800-10	100							^ may include some illite or ioamica.
1100-10	100							
1300-10	100							
1790-1800	98	2						
2100-20	32	68						
2300-20	23	2			75			
2840-60	Tr	78			^22			
3240-60		100						
3870-80	10	90						
4220-30	1	53			46			
4480-90			100					
4940-50	4	96						
5230-40			64	34			2	
5320-30		100			Tr		Tr	
5780-90		100						
6080-90	1	99						
6560-70		100						
7020-30		98		2				
7450-60		86		14				
8030-40		80		6		#14	Tr	
8090-8100		22		24		19	35	
8250-60		66		34				
8787		29		35		#23	13	
8420		11		21		19	49	
8422		15		7		78		

# may include some mixed layer ill-smec.

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Clay XRD					
depth ft	Actinolite	% Chl in layered chl / Smec	% Ill. in layered Ill. / Smec.	Basal Spacing (A) of A.D. Smectite	Ch.-Smec. ordered superlattice
17-1				14.7	
17-2				15	
17-3				14.7	
17-4				13.8	
17-5					
17-6			70	14.3	
17-7			90		
17-8					
17-9				12.8	Tr
17-10			90		
17-11					
17-12					
17-13	Tr				Tr
17-14	Tr				Tr
17-15	/				
17-16	/				
17-17	/				
17-18	Tr				
17-19	Tr				
17-20	/				
17-21	/				
17-22					
17-23	Tr				/
17-24					/
17-25	Tr				

Well Name GMF 44-33 Unocal memorandum  
 Latitude 4607640.55 Daniel L carrier  
 Longitude 624145.77 1989  
 TD ft 2263

depthft	Temperature_F	depth_m	Temperature_C
800	77	244	25
1000	120	305	49
1250	185	381	85
1275	212	389	100
1500	392	457	200
1750	392	533	200
2240	385	683	196
2263	378	690	192

depth (ft)	Temperature (°F)	depth (m)	Temperature (C)
0	68	0	20
700	68	213	20
750	68	229	20
800	77	244	25
900	91	274	33
950	117	290	47
1000	120	305	49
1100	131	335	55
1200	180	366	82
1250	185	381	85
1300	275	396	135
1400	367	427	186
1500	392	457	200
1550	397	472	203
1600	392	488	200
1650	395	503	202
1750	392	533	200
1900	390	579	199
2000	388	610	198
2100	387	640	197
2240	385	683	196
2263	378	690	192

To Convert	Into	Multiply by
feet	meters	0.304799
Fahrenheit (°F)-32	Celsius	0.555556

Well Name GMF 1-81 Unocal memorandum  
 Latitude 4598644.26 Daniel L carrier  
 Longitude 608342.55 1989  
 TD ft 600

depth_ft	Temperature_F	depth_m	Temperature_C

depth_ft	Temperature_F	depth_m	Temperature_C
25	44	8	7
50	44	15	7
75	44	23	7
100	42	30	6
125	43	38	6
150	41	46	5
175	41	53	5
200	41	61	5
225	46	69	8
250	41	76	5
275	46	84	8
300	41	91	5
350	40	107	4
400	40	122	4
450	40	137	4
500	40	152	4
550	41	168	5
575	46	175	8
600	40	183	4

To Convert	Into	Multiply by
feet	meters	0.304799
Fahrenheit (°F)-32	Celsius	0.555556

Well Name	GMF 87-13	Unocal memorandum
Latitude	4602417.24	Daniel L carrier
Longitude	619804.83	1989
TD ft	918	

depth_ft	Temperature_F	depth_m	Temperature_C
50	41	15	5
558	122	170	50
600	167	183	75
646	212	197	100

depth (ft)	Temperature (°F)	depth (m)	Temperature (C)
50	41	15	5
100	54	30	12
150	61	46	16
200	73	61	23
250	77	76	25
300	88	91	31
350	95	107	35
400	91	122	33
450	97	137	36
500	110	152	43
550	130	168	54
600	167	183	75
650	235	198	113
700	246	213	119
750	260	229	127
918	309	280	154

To Convert	Into	Multiply by
feet	meters	0.304799
Fahrenheit (°F)- 32	Celsius	0.555556

Well Name 86-23  
 Latitude  
 Longitude  
 TVD ft

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depth_ft	mineralogy						
	MM= Predominant	M= Major	m= Minor	<m= <5wt%			
	Quartz	Cristobal.	Tridimite	K-Spar	Plagioclase	Ilmenite	Hematite
694					MM		<m
1085					MM		<m
1554					MM		<m
2258					MM		<m
3157					MM		<m
3497					M		

depth_ft	mineralogy						
	Magnetite	Smectite	Illite/ Mica	Chlorite	Koal./ Serptn.	Calcite	Glass
694		<m					m?
1085		<m					m?
1554		<m					m?
2258		<m					m?
3157		M					m?
3497		M					m?

depth_ft	mineralogy			
	Analcime or Wairakite	clinoptilol.	Opal - Ct	Trace amts.
694				cpx, ap
1085				cpx, ap, opx
1554				cpx, ap
2258				cpx, ap
3157				cpx, ap, opx
3497				cpx, ap

Well Name 68-16 Earth Science Laboratory  
 Latitude 4612432.12 University of Utah Research Inst.  
 Longitude 614307.16 1988  
 TVD ft

depth_ft	mineralogy						
	MM= Predominant	M= Major	m= Minor	<m= <5wt%			
	Quartz	Cristobal.	Tridimite	K-Spar	Plagioclase	Ilmenite	Hematite
508		M		MM	m		<m
1039		M		MM	m		<m
1338					m		
1740					M		
1857					m		
2227					MM		<m?
2599		MM	m	M			<m
2936		MM		M			<m

depth_ft	mineralogy						
	Magnetite	Smectite	Illite/ Mica	Chlorite	Coal./ Serptn	Calcite	Glass
508							
1039		<m?					
1338							MM
1740		<m					M
1857		<m	<m?				MM
2227		m					m?
2599							
2936		<m					

depth_ft	mineralogy				
	Limonite	clinoptilol.	Opal - Ct	Zeolite	Trace amts.
508					
1039					
1338					
1740					cpx
1857					
2227					cpx, ap
2599					
2936					



Well Name 62-21  
 Latitude  
 Longitude  
 TVD ft

Earth Science Laboratory  
 University of Utah Research Inst.  
 1988

mineralogy		MM= Predominant	M= Major	m= Minor	<m= <5wt%			
depth_ft		Quartz	Cristobal.	Tridimite	K-Spar	Plagioclase	Ilmenite	Hematite
530						MM	<m	<m
1035						MM		<m
1700						MM		
1973						MM		<m
2123						MM	<m?	<m

mineralogy								
depth_ft		Magnetite	Smectite	Illite/ Mica	Chlorite	Koal./ Serpnt.	Calcite	Glass
530			<m					m?
1035			M					m?
1700			M				<m	m?
1973		<m?	M				<m?	m?
2123			M					m?

mineralogy						
depth_ft		Limonite	clinoptilol.	Opal - Ct	Zeolite	Trace amts. cpx, opx, ap
530						
1035			<m	<m?		
1700						cpx, ap
1973			<m			cpx, ap
2123						cpx, ap

Well Name 27-27 Earth Science Laboratory  
 Latitude 4599066.41 University of Utah Research Inst.  
 Longitude 625335.68 1988  
 TVD ft

mineralogy		MM= Predominant	M= Major	m= Minor	<m= <5wt%			
depth_ft		Quartz	Cristobal.	Tridimite	K-Spar	Plagioclase	Ilmenite	Hematite
619						MM		
1266						MM		<m?
1635						M		
2145						MM	<m	<m?
2543						MM	<m	<m?
3000						MM		<m?

mineralogy							
depth_ft		Magnetitie	Smectite	Illite/ Mica	Chlorite	Koal./ Serptn.	Calcite
619							
1266							
1635							
2145							
2543		<m?					
3000			<m				

mineralogy							
		Glass	Limonite	Pyrite	Clay	Zeolite	Trace amts.
		m?					cpx, ap
		m?					ap, olv
		M					olv
		m?					cpx, ap, olv
		m?					cpx, ap, olv
		m?					ap, olv

Well Name 18-34 Earth Science Laboratory  
 Latitude 4597734.03 University of Utah Research Inst.  
 Longitude 614998.15 1988  
 TVD ft

		<b>mineralogy</b>						
		M= Major		m= Minor		<m= <5wt%		
depth_ft		Quartz	Cristobal.	Tridimite	K-Spar	Plagioclase	Ilmenite	Hematite
	583							
	1289					M	<m	
	1983	m	M	m	M			<m
	2507		M		M	m		
	2932					M	<m	<m
	3498					M	<m	<m?

		<b>mineralogy</b>					
depth_ft		Magnetite	Smectite	Illite/ Mica	Chlorite	Koal./ Serptn.	Calcite
	583		<m	<m?			
	1289						
	1983		m				
	2507		m				
	2932						
	3498						

		M= Major		m= Minor		<m= <5wt%	
		Glass	Limonite	Pyrite	Clay	Zeolite	Trace amts.
		m?					ap, olv
		M					
		m?					
		m?					ap
		m?					ap, opx