Sample Core Analysis for API 21055273120000 Well Name: KENNETT 1 located in 32-27N10W Grand Traverse County

DEPTH	FEET ANA-LYZED	PERM MAX	PER 90 DEG	PERM VERT	PERM FT	PORO-SITY GEX	PORO-SITY FEET	FLUID SAT OIL	FLUID SAT WATER	DENSITY BULK	DENSITY GRAIN	PROB PROD	DESCRIP-TION
5596	0.33	<0.1	<0.1		<0.1	3.0	1.0	0.0	13.3	2.77	2.86	NIL	
5597	1.00	<0.1	Plug*		<0.1	2.1	2.1	3.2	32.0	2.78	2.84	NIL	
5598	1.00	<0.1	Plug*		<0.1	1.8	1.8	0.0	34.0	2.81	2.85	NIL	
5599	0.50	0.3	0.2		0.1	1.9	1.0	0.0	27.8	2.82	2.85	NIL	
5600	0.83	3.9	2.7		3.2	1.7	1.4	TR	19.5	2.83	2.86	NIL	
5601	0.83	0.1	<0.1		<0.1	1.7	1.4	0.0	18.0	2.84	2.88	NIL	
5602	1.00	<0.1	<0.1		<0.1	1.5	1.5	0.0	13.3	2.87	2.91	NIL	FRAC
5603	0.83	5.7	5.7		4.7	2.7	2.2	TR	39.6	2.76	2.85	NIL	
5604	0.50	0.1	<0.1		<0.1	2.2	1.1	TR	28.5	2.83	2.89	NIL	
5605	0.66	<0.1	<0.1		<0.1	1.9	1.2	0.0	0.0	2.83	2.89	NIL	
5606	0.50	<0.1	<0.1		<0.1	2.3	1.1	0.0	0.0	2.80	2.88	NIL	
5607	0.83	<0.1	<0.1		<0.1	1.3	1.1	0.0	15.2	2.81	2.85	NIL	
5608	0.83	0.2	<0.1		0.1	2.1	1.7	0.0	26.4	2.82	2.87	NIL	
5609	0.50	0.6	0.3		0.3	2.8	1.4	TR	12.2	2.82	2.90	NIL	
													VERT
5610	0.50	15.5	0.2		7.7	3.5	1.7	2.4	17.7	2.75	2.84	NIL	FRAC
5611	0.33	<0.1	<0.1		<0.1	4.4	1.5	TR	11.6	2.70	2.82	NIL	
5612	0.33	<0.1	<0.1		<0.1	3.5	1.2	0.0	14.7	2.72	2.83	NIL	
5613	0.33	<0.1	<0.1		<0.1	2.3	0.8	TR	65.5	2.72	2.78	NIL	
5614	0.83	0.3	0.3		0.2	3.5	2.9	TR	53.0	2.76	2.85	NIL	
5615	0.66	8.8	<0.1		5.8	3.6	2.4	0.0	66.0	2.74	2.83	NIL	FRAC
5616	0.66	0.3	<0.1		0.2	3.7	2.4	0.0	81.0	2.75	2.84	NIL	
5617	0.50	0.5	<0.1		0.2	1.8	0.9	0.0	54.0	2.75	2.79	NIL	
5618	0.33	<0.1	<0.1		<0.1	2.1	0.7	0.0	71.8	2.74	2.79	NIL	
5619	0.33	1.4	<0.1		0.5	2.1	0.7	0.0	62.0	2.74	2.80	NIL	
5620	0.83	<0.1	<0.1		<0.1	3.6	3.0	0.0	53.5	2.76	2.85	NIL	
5621	0.66	<0.1	<0.1		<0.1	2.2	1.4	0.0	60.3	2.75	2.81	NIL	
5622	1.00	1.4	0.1		1.4	3.7	3.7	0.0	27.3	2.75	2.84	NIL	
5623	1.00	0.2	<0.1		0.2	2.9	2.9	TR	31.0	2.74	2.81	NIL	
5624	0.83	1.4	<0.1		1.2	3.0	2.5	TR	32.5	2.73	2.81	NIL	
5625	0.50	<0.1	<0.1		<0.1	3.2	1.6	TR	29.2	2.71	2.80	NIL	
5626	0.50	<0.1	<0.1		<0.1	3.7	1.8	TR	33.4	2.71	2.80	NIL	
													**SEE
5627	1.00	0.4	<0.1		0.4	4.2	4.2	2.9	29.0	2.73	2.84	GAS**	NOTE
5628	0.66	0.4	<0.1		0.2	4.5	3.0	0.0	35.2	2.72	2.83	GAS**	
5629	0.66	0.1	0.1		<0.1	4.6	3.0	0.0	36.7	2.72	2.83	GAS**	

5630	0.66	0.1	0.1	<0.1	4.8	3.2	TR	29.9	2.70	2.83	GAS**	
5631	0.50	0.2	0.2	0.1	6.3	3.1	5.0	20.4	2.69	2.85	GAS**	
5632	0.66	1.5	0.2	1.0	5.9	4.0	4.4	22.4	2.68	2.84	GAS**	
5633	0.50	0.2	<0.1	0.1	4.1	2.0	3.6	18.4	2.73	2.85	GAS**	
5634	1.00	<0.1	<0.1	<0.1	4.1	4.1	TR	29.7	2.74	2.84	NIL	
5635	1.00	<0.1	<0.1	<0.1	3.6	3.6	TR	31.8	2.75	2.84	NIL	
5636	0.83	2.7	0.5	2.2	3.0	2.5	0.0	39.1	2.77	2.84	NIL	PARTINGS
5637	0.83	<0.1	<0.1	<0.1	1.1	0.9	TR	78.8	2.78	2.81	NIL	
5638	0.66	<0.1	<0.1	<0.1	2.8	1.9	4.5	46.5	2.76	2.83	NIL	
5639	0.83	0.2	<0.1	0.1	3.6	3.0	0.0	68.0	2.75	2.84	GAS & WTR	**SEE NOTE
5640	1.00	6.8	2.0	6.8	4.0	4.0	TR	47.5	2.75	2.84	GAS & WTR**	
5641	0.83	7.2	0.4	6.0	3.9	3.2	TR	36.7	2.75	2.84	GAS & WTR**	
5642	0.83	6.1	4.5	5.1	6.8	5.6	TR	46.0	2.67	2.84	GAS & WTR**	
5643	0.66	1.4	1.2	1.0	4.5	3.0	0.0	44.4	2.71	2.82	GAS & WTR**	
5644	0.50	6.2	1.6	3.1	4.9	2.5	12.0	48.5	2.71	2.83	GAS & WTR**	VERT FRAC
5645	1.00	32.7	1.3	32.7	4.7	4.7	6.5	45.5	2.73	2.84	GAS & WTR**	VERT FRAC
5646	0.66	0.5	0.2	0.3	7.4	5.0	4.7	47.2	2.65	2.83	GAS & WTR**	
5647	1.00	2.4	1.2	2.4	5.5	5.5	TR	51.6	2.69	2.82	GAS & WTR**	SALT FILLING
5648	0.83	2.2	0.2	1.8	4.8	4.0	TR	55.0	2.73	2.85	GAS & WTR**	
5649	1.00	2.6	1.5	2.6	2.9	2.9	0.0	77.0	2.76	2.82	GAS & WTR**	
5650	1.00	1.1	0.6	1.1	3.3	3.3	0.0	66.2	2.77	2.85	GAS & WTR**	
5651	0.83	0.4	0.4	0.3	4.4	3.7	TR	46.8	2.73	2.86	GAS & WTR**	
5652	1.00	1.1	0.4	1.1	4.6	4.6	0.0	50.2	2.73	2.84	GAS & WTR**	
5653	0.83	140.0	0.5	116.0	5.6	4.6	TR	42.8	2.70	2.84	GAS & WTR**	FRAC
5654	1.00	3.2	2.4	3.2	4.7	4.7	0.0	60.3	2.72	2.83	GAS & WTR**	
5655	0.83	2.7	1.6	2.2	5.8	4.8	TR	40.0	2.69	2.83	GAS & WTR**	
5656	1.00	0.4	0.2	0.4	5.6	5.6	0.0	59.0	2.71	2.83	GAS & WTR**	
5657	0.66	0.1	<0.1	<0.1	5.2	3.4	5.4	54.2	2.71	2.84	NIL	
5658	0.83	<0.1	<0.1	<0.1	4.9	4.1	TR	46.3	2.70	2.82	NIL	
5659	0.83	0.2	0.2	0.1	5.2	4.3	0.0	41.0	2.70	2.84	GAS & WTR**	SEE NOTE
5660	0.50	0.6	0.3	0.3	5.2	2.6	5.0	54.8	2.71	2.82	GAS & WTR**	
5661	0.83	0.4	0.3	0.3	5.3	4.4	0.0	49.3	2.71	2.84	GAS & WTR**	
5662	0.83	0.7	0.2	0.6	6.1	5.1	0.0	51.8	2.70	2.84	GAS & WTR**	
5663	0.83	0.9	0.3	0.7	5.3	4.4	5.0	58.2	2.72	2.85	GAS & WTR**	
5664	0.50	6.2	1.2	3.1	5.7	2.8	5.0	51.0	2.70	2.83	GAS & WTR**	FRAC
5665	1.00	0.9	0.8	0.9	5.2	5.2	TR	59.4	2.71	2.83	GAS & WTR**	
5666	1.00	1.1	0.8	1.1	7.2	7.2	0.0	54.2	2.68	2.83	GAS & WTR**	

5667	0.66	0.5	0.4	0.3	5.7	3.8	0.0	46.2	2.69	2.83	GAS & WTR**	
5668	1.00	0.5	0.2	0.5	6.5	6.5	0.0	44.2	2.68	2.83	GAS & WTR**	
5669	0.50	2.2	1.9	1.1	8.5	4.2	0.0	51.2	2.63	2.83	GAS & WTR**	
5670	1.00	0.6	0.4	0.6	6.8	6.8	TR	51.6	2.69	2.84	GAS & WTR**	
5671	0.66	1.5	0.2	1.0	6.0	4.0	0.0	48.3	2.69	2.83	GAS & WTR**	H.L. FRAC
5672	0.83	0.2	<0.1	0.1	5.4	4.5	0.0	46.3	2.70	2.84	NIL	
5676	0.66	6.5	0.2	4.3	2.9	2.0	0.0	46.5	2.72	2.79	NIL	FRAC
5682	0.83	0.2	0.1	0.1	4.3	3.6	0.0	51.5	2.74	2.85	NIL	
5687	0.50	73.0	0.4	36.5	7.9	4.0	0.0	53.5	2.65	2.83	NIL	FRAC
5693	0.83	<0.1	<0.1	<0.1	4.6	3.8			2.73	2.83		
5698	0.50	0.2	0.2	0.1	5.8	2.9			2.70	2.82		
5703	0.50	0.8	0.1	0.4	4.5	2.2			2.75	2.85		
5708	0.66	<0.1	<0.1	<0.1	2.2	1.4			2.75	2.79		
5713	0.50	11.4	10.4	5.7	5.9	3.0			2.69	2.81		FRACS. SALT
5718	0.50	0.5	0.4	0.2	3.4	1.7			2.70	2.77		FILLING SALT
5723	0.66	4.6	1.8	3.0	6.6	4.4			2.67	2.81		FILLING SALT
5728	0.83	8.2	7.2	6.8	7.5	6.2			2.65	2.81		FILLING
5734	0.83	0.9	0.6	0.7	4.7	3.9			2.68	2.79		
5739	0.83	12.0	12.0	10.0	3.1	2.6			2.72	2.79		FRAC
5744	0.83	6.0	2.0	5.0	5.4	4.5	0.0	66.5	2.71	2.83	WTR	

*** CORE TOO BROKEN FOR FULL DIAMETER ANALYSIS.**

****ECONOMICAL PRODUCTION FROM THIS SECTION APPEARS VERY DOUBTFUL DUE TO ITS VERY LOW PRODUCTIVE CAPACITY AND RESERVOIR PORE SPACE.**