

1R - 0474

REPORT

11/07/2007

R. T. HICKS CONSULTANTS, LTD.

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1R0474

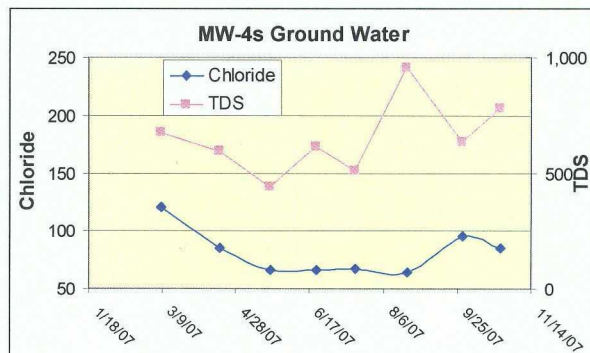
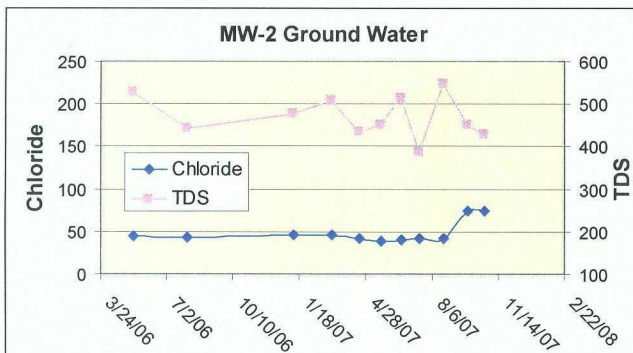
November 7, 2007

Mr. Glenn von Gonten
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

RE: Samson BD-04, T12S-R33E-Section 2, Unit Letter H,
NMOCD #1R0474

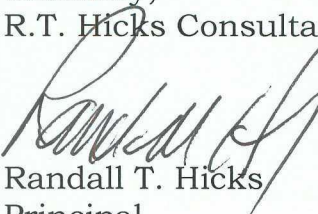
Dear Mr. von Gonten:

Below are two plots of water quality in MW-4s and MW-2 showing all data up to October 24, the most recent sampling event. MW-1 and MW-4d follow a similar



pattern showing a slight increase in chloride concentrations after cessation of source removal pumping. Table 1 presents all the ground water data. All samples from monitored wells remain below WQCC standards for chloride and TDS. With the October sampling event we are ceasing monthly sampling. The next sampling events will be January, April, July and October 2008. We will submit an annual monitoring report in December of 2008.

Sincerely,
R.T. Hicks Consultants, Ltd.


Randall T. Hicks
Principal

Copy: Samson Resources, Scott Rose
New Mexico State Land Office
NMOCD District II

Table 1
Laboratory Results Summary - Groundwater Samples

Monitor Well TOC Elev.	Sample Date	Water Depth	Water Elevation	pH (unitless)	Cond. (uS/cm)	Chloride (mg/L)	TDS (mg/L)	% Cl of TDS
MW-1 4,233.23	5/11/2006	41.18	4,192.05	7.41	1.17	--	--	
	5/12/2006	41.24	4,191.99	7.15	0.88	131	838	16%
	8/2/2006	41.22	4,192.01	7.07	0.99	115	648	18%
	10/17/2006	41.14	4,192.09					
	12/12/2006	41.09	4,192.14					
	1/9/2007	41.07	4,192.16			97		
	2/6/2007	41.32	4,191.91					
	2/6/2007	41.25	4,191.98					
	2/16/2007	41.37	4,191.86		0.985			
	3/8/2007	41.39	4,191.84			83	620	13%
	3/13/2007	41.36	4,191.87		1.025			
	4/17/2007	41.13	4,192.10	7.41	0.82	89.6	674	13%
	5/21/2007	40.99	4,192.24	7.96	0.79	83.8	630	13%
	6/21/2007	41.02	4,192.21	7.52	0.74	76.5	632	12%
	7/18/2007	41.05	4,192.18	7.50	0.80	102	650	16%
	8/22/2007	40.96	4,192.27	7.26	0.86	88.0	672	13%
	9/28/2007	40.94	4,192.29	7.62	0.94	122	606	20%
	10/24/2007	41	4,192.23	7.75	0.93	117	710	16%
MW-2 4,233.87	5/11/2006	41.85	4,192.02	7.80	0.81			
	5/12/2006	41.88	4,191.99	7.50	0.60	44.5	530	8%
	8/2/2006	41.88	4,191.99	7.38	0.67	42.2	444	10%
	10/17/2006	41.82	4,192.05					
	12/12/2006	41.77	4,192.10					
	1/9/2007	41.75	4,192.12			46.0		
	2/6/2007	41.93	4,191.94					
	2/6/2007	41.88	4,191.99					
	2/16/2007	41.97	4,191.90		0.924			
	3/8/2007	42.03	4,191.84			45	510	9%
	3/13/2007	41.99	4,191.88		0.663			
	4/17/2007	41.81	4,192.06	7.93	0.65	41.5	436	10%
	5/21/2007	41.73	4,192.14	8.31	0.63	38.6	452	9%
	6/21/2007	41.73	4,192.14	7.72	0.57	39.7	516	8%
	7/18/2007	41.72	4,192.15	8.16	0.56	41.7	388	11%
	8/22/2007	41.66	4,192.21	7.60	0.68	40.9	550	7%
	9/28/2007	41.65	4,192.22	7.82	0.66	74.4	452	16%
	10/24/2007	41.67	4,192.20	7.64	0.73	74.4	430	17%
MW-3 (Deep) 4,224.52	12/18/2006	--	--		0.87	2,000	3,700	54%
	3/8/2007	--	--		10.28	3,500	6,200	56%
	3/13/2007	42.41	4,182.11		10.06			
MW-3 (RW) 4,224.52	12/12/2006	32.81	4,191.71					
	12/18/2006	32.82	4,191.70			3,900	5,800	67%
	1/9/2007	32.27	4,192.25					
	2/6/2007	32.7	4,191.82					
	2/6/2007	44.47	4,180.05			2,500	4,400	57%
	2/16/2007	44.45	4,180.07		8.71			
	3/8/2007	40.12	4,184.40		10.31	3,400	6,200	55%
	3/13/2007	42.41	4,182.11		10.27			
	4/17/2007	42	4,182.52	8.08	7.45	2,730	4,520	60%
	5/21/2007	41	4,183.52	8.20	8.67	3,340	6,430	52%
	6/21/2007	42	4,182.52	7.78	10.24	4,750	7,960	60%
	7/18/2007	32.48	4,192.04	7.45	10.24	5,730	8,730	66%
	8/22/2007	32.22	4,192.30	--	--	--	--	--
MW-4(D) 4,233.38	9/28/2007	32.24	4,192.28	--	--	--	--	--
	10/24/2007	32.35	4,192.17	--	--	--	--	--
	1/9/2007	--	--			100		
MW-4(S) 4,233.52	2/6/2007	41.61	4,191.77					
	2/6/2007	41.53	4,191.85					
	2/16/2007	41.64	4,191.74		0.95			
	3/8/2007	41.65	4,191.73			52.0	550	9%
	3/13/2007	41.63	4,191.75		0.78			
	4/17/2007	41.42	4,191.96	7.87	0.70	45.7	562	8%
	5/21/2007	41.32	4,192.06	8.33	0.69	44.8	458	10%
	6/21/2007	41.33	4,192.05	7.72	0.61	42.4	610	7%
	7/18/2007	41.34	4,192.04	7.93	0.62	48.2	508	9%
	8/22/2007	41.26	4,192.12	7.53	0.74	50.4	494	10%
	9/28/2007	41.24	4,192.14	7.79	0.75	79.8	474	17%
	10/24/2007	41.29	4,192.09	7.94	0.87	95.7	690	14%
	1/9/2007	--	--			180		
	2/6/2007	41.73	4,191.79					
	2/6/2007	41.80	4,191.72					
	2/16/2007	41.84	4,191.68		0.98			
MW-4(S) 4,233.52	3/8/2007	41.85	4,191.67			120	680	18%
	3/13/2007	41.82	4,191.70		0.988			
	4/17/2007	41.61	4,191.91	7.78	0.79	84.8	598	14%
	5/21/2007	41.50	4,192.02	8.16	0.73	65.7	442	15%
	6/21/2007	41.51	4,192.01	7.79	0.65	65.8	618	11%
	7/18/2007	41.54	4,191.98	7.81	0.68	67.5	514	13%
	8/22/2007	41.44	4,192.08	7.46	0.78	64.0	960	7%
	9/28/2007	41.43	4,192.09	7.89	0.77	95.7	640	15%
	10/24/2007	41.48	4,192.04	7.97	0.84	85.1	786	11%