WELL DEVELOPMENT LOG

WELL NAME AND ZONE: BLM-36

DTW PRE-DEVELOPMENT (FT.): 320 (Geophysical Log) DTW POST-DEVELOPMENT SS (FT.): 492.31

DATE	TIME	METHOD	PURGE RATE (GPM)	DELTA VOLUME (GALLONS)	TOTAL VOLUME (GALLONS)	Ph	TEMP (° C)	COND (μMHOS/CM)	TURBIDITY (NTU)	INITIALS	COMMENTS
3/5/99	1245	Bail	6 gallon	0	0					GCG	Water thick, black, with strong odor.
"	1415	"	bailer	192	192					GCG	Thinning out a little. Sulfurous odor.
"	1525	"	capacity	108	300					GCG	As above. Thinning slightly.
"	1730	"	"	168	468					GCG	As above.
"	1800	"	"	36	504					GCG	As above.
3/6/99	0745	Bail	"	96	600					MR	As above.
"	0945	"	"	90	690					MR	As above.
"	1300	"	"	246	936					MR	As above.
3/18/99	0700	Swab	varies	0	936					GCG	Commence swabbing activities.
"	1545	"	"	0	936					GCG	Top zone (Screen #1) dry.
"	"	"	"	50	986					GCG	Screen#2. Limited water.
"	"	"	"	900	1,886					GCG	Screen #3. Gray-black, soapy feel, thinning.
"	1800	"	"	450	2,336					MR	Screen #3.
3/19/99	0900	"	"	300	2,636					MR	Screen #3.
"	1330	"	"	900	3,536					MR	Screen #4. Dark gray-green, oily feel, no odor.
"	1830	"	"	900	4,436					MR	Screen #4. Same as above.
3/20/99	1800	"	"	300	4,736					MR	Screen #4. Same as above.
3/21/99	1715	Pump	7	160	4,896					GCG	Screen #2. Negligible water. Water cleared
				170	5,066						considerably. Slight green hue. Pumped
											dry from bottom of well at 7 gpms.
3/22/99	all day	Jet								MEM	Jetted top screen w/9,600 gallons Well J H2O.
3/23/99	"	"								GCG	Jetted screen #2 w/9,600 gallons Well J H2O.

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					5,066						Continued from previous page.
3/24/99	1500	Pump		140	5,206					MR	Water is gray; relatively clean.
3/29/99	1500	"		80	5,286					MR	Green tinge.
"	1645	"		60	5,346					MR	"
3/30/99	0915	"		70	5,416					MR	"
"	1815	"		60	5,476					MR	Water is clear. 55 gal. w/dark green rust.
3/31/99	1710	"		80	5,556					MR	Water is clear.
4/1/99	0800	"		80	5,636					JWP	Clear discharge wntil gpm<3; then green.
4/2/99	1000	"		80	5,716					GCG	Same as above.
4/6/99	0800	"		80	5,796					JWP	Discharge reported clear.
"	1430	"		45	5,841					JWP	Pale green w/tiny green "floaters".
4/7/99	0800	"		80	5,921					JWP	Pulled pump. Pipe coated green.
4/20/99	1440	Jet		0						JWP	Prepared to jet bottom screen.
4/21/99	0930	"		3,200						LHM	Screen #4. 3,200 gallons.
"	1230	"		3,200						LHM	Screen #4. 6,400 gallons. Water clearing.
"	1730	"		3,200						MR	Screen #4. 9,600 gallons. Water clearing.
4/22/99	1215	Pump		120	6,041					MR	Cloudy, slightly brown.
"	1715	"		50	6,091					MR	Same as above.
4/23/99	0700	"		50	6,141					MR	Cloudy, white, no odor.
"	1245	"		40	6,181					MR	Turned green toward end of pumping.
"	1315	"		40	6,221					MR	Minor cloudiness; white.
4/24/99	0700	"		40	6,261					MR	Same as above.

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					6,261						Continued from previous page.
4/24/99	1810	Pump		40	6,301					MR	Minor cloudiness; white.
4/25/99	0700	"		50	6,351					MR	Same as above.
"	1800	"		40	6,391					MR	Slight green hue.
4/26/99	0800	"		50	6,441					GCG	Same as above.
"	1500	"		50	6,491					GCG	Same as above.
4/27/99	1320	"		40	6,531					JWP	Two pumping episodes. Water looks clear.
"	1730	"		26	6,557					JWP	Water clearing.
4/28/99	1430	"		70	6,627					GCG	Two pumping events. Yellow green hue.
4/29/99	1300	"		30	6,657					JWP	One pumping event.
5/3/99	1500	Camera-log		0	6,657					GCG	Well is extremely turbid.
5/4/99	1200	Pump		50	6,707					GCG	
5/5/99	1300	Flush		3,200						GCG	Flushed 3,200 gal. Well K H2O through well.
"	1500	Camera-log		0	6,707					GCG	Well trubidity higher than cam-log of 5/3/99.
5/6/99	1600	Flush		12,800						GCG	Flushed 12,800 gal. Well K H2O (set at sump).
"	1800	"		6,400						GCG	Flushed 6,400 gal. Well K H2O (set at 700').
5/7/99	0930	"		12,800						GCG	Flushed 12,800 gal. Well K H2O (set at 700').
"	1030	"		3,200						GCG	Flushed 3,200 gal. Well K H2O (set at sump).
"	1200	Camera-log		0	6,707					GCG	
5/8/99	1200	Low Flow								MR	Low flow pump. Cloudy gray-green. Sulphur.
"	1530	Pump		1620	8,327	7.38	27.4	1,097	5.12	MR	Water slightly cloudy.
"	1800	"		810	9,137	7.30	28.5	1,099	13.20	MR	Same as above.

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		Low Flow			9,137						Continued from previous page.
5/9/99	0900	Pump		770	9,907	7.25	29.0	1,088	13.70	MR	Water slightly cloudy.
"	1615	"		2,350	12,257	7.17	26.4	1,103	40.80	MR	Cloudy, white to light gray. Cleared slightly.
5/10/99	0800	"	6.8		12,257	7.24	20.7	1,107	13.50	LHM	Minor cloudiness.
"	0920	"	"	545	12,802	7.30	23.7	1,184	10.50	LHM	Water still slightly cloudy.
"	1100	"	"	680	13,482	7.13	27.6	1,028	6.30	LHM	Water clearing.
"	1245	"	"	715	14,197	7.30	27.4	1,028	2.70	LHM	
"	1420	"		270	14,467	7.10	28.1	1,070	8.30	LHM	
"	1555	"		500	14,967	6.74	29.1	1,009	21.50	MEM	Shut down. Trip out.