dugan production corp

RECEIVED
2007 NOV 19 PM 4 09

11/14/2007

Mr. Will Jones
NMOCD – Engineering Bureau
1220 South St. Francis Street
Santa Fe, NM 87505

Re: Transmittal of Water Sample Administrative Order SWD-1098, Neoprene SWD 1
API No. 30-045-22295

Dear Mr. Jones:

Attached is a copy of the water sample taken from Dugan Production's salt water disposal well referenced in the order above. The sample was taken after perforating the permitted Mesaverde interval from 3594' – 4159' and before any stimulation was done.

Sincerely,

John Alexander

John Alexander
Vice President

Attachment

709 E. MURRAY DR. • P. O. BOX 420 • FARMINGTON, N.M. 87499-0420 • PHONE: (505) 325-1821 • FAX# (505) 327-4613

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

November 13, 2007

Mr. Kurt Fagrelius
Dugan Production
P.O. Box 420
Farmington, New Mexico 87499

Phone: (505) 325-1821

Client No.: 06094-003

Dear Mr. Fagrelius,

Enclosed is the analytical results for the sample collected from the location "Neoprene SWD #1". One water sample was collected by Dugan designated personnel on 11/08/07, and delivered to the Envirotech Laboratory on 11/12/07 for Cation / Anion analysis.

The sample was documented on Envirotech Chain of Custody No. 3606, and assigned Laboratory No. 43628 (Neoprene SWD #1) for tracking purposes.

The sample was analyzed 11/12/07 using USEPA or equivalent methods.

Should you have any questions or require additional information, please do not hesitate to contact us at (505) 632-0615.

Christine M. Walters
Laboratory Coordinator / Environmental Scientist

enclosure

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Dugan Production	Project #:	06094-003
Sample ID:	Formation Water MV	Date Reported:	11-13-07
Laboratory Number:	43628	Date Sampled:	11-08-07
Chain of Custody:	3606	Date Received:	11-12-07
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	N/A	Date Analyzed:	11-12-07
Condition:	Intact		

Parameter	Analytical Result	Units		
pH	**10.75**	s.u.		
Conductivity @ 25° C	**53,600**	umhos/cm		
Total Dissolved Solids @ 180C	**37,100**	mg/L		
Total Dissolved Solids (Calc)	**36,725**	mg/L		
SAR	**136.7**	ratio		
Total Alkalinity as CaCO3	**446**	mg/L		
Total Hardness as CaCO3	**1,880**	mg/L		
Bicarbonate as HCO3	**248**	mg/L	4.06	meq/L
Carbonate as CO3	**198**	mg/L	6.60	meq/L
Hydroxide as OH	**<0.1**	mg/L	0.00	meq/L
Nitrate Nitrogen	**1.2**	mg/L	0.02	meq/L
Nitrite Nitrogen	**0.009**	mg/L	0.00	meq/L
Chloride	**21,800**	mg/L	614.98	meq/L
Fluoride	**7.80**	mg/L	0.41	meq/L
Phosphate	**0.9**	mg/L	0.03	meq/L
Sulfate	**190**	mg/L	3.96	meq/L
Iron	**0.286**	mg/L	0.01	meq/L
Calcium	**751**	mg/L	37.47	meq/L
Magnesium	**<0.1**	mg/L	0.00	meq/L
Potassium	**102**	mg/L	2.61	meq/L
Sodium	**13,600**	mg/L	591.60	meq/L
Cations			631.68	meq/L
Anions			630.06	meq/L
Cation/Anion Difference			**0.26%**	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **Neoprene SWD #1.**

Analyst

Review

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865