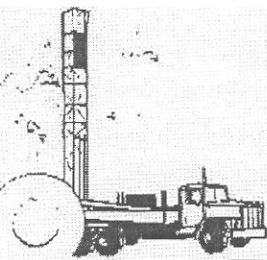


M & M Drilling Co. Ltd.

Box 1, Site 22, RR 2, Strathmore, AB T1P 1K5

(403) 934-4271 • Fax (403) 934-4865



Name: ERNST, JESSICA **Test #:** 1061 - 2211
Address: BOX 753 **Date:** 6/20/2003
Location: ROSEBUD, ALBERTA **Start Time:** 8:45 AM
Post. Code: T0J 2T0 **Phone:** 677-2074 **Static Level:** 28' 5"
Tested For: ENCANA CORP., G. PEKRUL **Well Name:** ECA/ECOG REDLANDS
Well Location/Description: SE-13-27-22-W4 HOUSE WELL **Land Location:** 14-12-27-22-W4
Pumping Rate: STATIC & SAMPLES ONLY **AFE Number:** CD05391
GPS: N-51-18-02.2 W-112-57-41.1 **Readings By:** DAVID SAWYER
 PRE-TEST POST TEST REALESTATE

Well Location On Site: IN OLD BARN NORTH OF HOUSE

Pit Type: WELL HEAD

Pit Condition: N/A

Pump Size and Type: 2 WIRE SUBMERSIBLE

Tank Size and Type: MARK IV CONSTANT PRESSURE

Casing Size and Type:

Liner Size and Type: N/A

Well Depth: N/A

Water: - Appearance Clear Colour

- Odor None Yes SLIGHT H2S

- Suspended Solids: None Yes FEW BLACK PARTICLES

Pumping Procedure: - Open Discharge: No Yes

- Pressure Tank No Yes

- Pressure Reading N/A

- Special Fitting None Yes 3/4" PUMP OUT HOSE

Samples Taken: Chemical23: Other Sample

Chemical51:

Coliform Bacteri.

Heavy Metals:

TOC

H2S:

OilAndGrease:

Lab where samples were tested: WSH Other

Measurement Taken From: CASING TOP

Miscellaneous test information: SAMPLES TAKEN FROM PUMP OUT HOSE
WELL OFF FOR ONE HOUR BEFORE STATIC TAKEN

M & M Drilling Co. Ltd.
 Box 1, Site 22, RR# 2
 Strathmore, AB T1P 1K5
 Attn: Bill Murray

P.O # 2795
 Lab # 39189
 Ph 934-4271
 Fax 934-4865

Client I.D. Jessica Ernest
 Legal SE-13-27-22-W4
 Date Sampled
 Date Received 6/21/03
 Date Reported 6/26/03

WATER RESULTS

Cations		Anions		General Parameters	
	mg/L		mg/L		mg/L
Saturation Index	0.4	Bicarbonates	795	E.C (US/CM)	1480
Calcium	4.9	Bromides	<0.6	Coliform, Total	TNTC CFU/100ml
Iron	1.18	Carbonates	6	Escherichia Co (<i>E.coli</i>)	0 CFU/100ml
Magnesium	0.3	Chlorides	200	H.P.C	(MPN/mL)
Manganese	0.066	Fluorides	1.7	Hardness (CaCO ₃)	13 SGET
Potassium	<0.5	Nitrates	<0.2	pH	8.40
Silicon		Nitrites	<0.3	Sulfides (S)	0.007
Sodium	439	NO ₃ +NO ₂	<0.2	T. Alkalinity (CaCO ₃)	664
Ammonium	<0.1	Phosphates	N/A	TDS (Calculated)	1044
		Sulfates	<0.6	Turbidity (N.T.U)	<0.3
Sum of Cations	19.36			T.O.C	7.1
Sum of Anions	18.95			T.K.N	
Ionic Balance	1.02			T.P	
% Difference	1.05			Ammonia N	
T.D.S. / E.C. Ratio	0.71			Color (T.C.U)	
SAR	51.99	(May limit plant growth)			

Trace Metals Profile

	ug/L		ug/L		ug/L
Phosphorus	188	Cadmium	<0.8	Barium	86
Thallium	<5	Nickel	<2	Lithium	67
Arsenic	<2	Beryllium	<0.8	Tin	1
Selenium	6	Thorium	8	Molybdenum	<1
Chromium	<0.8	Vanadium	1	Antimony	<1
Zinc	6	Bismuth	<2	Titanium	<1
Lead	<2	Silver	<0.8	Zirconium	<1
Copper	5	Aluminum	91	Uranium	
Cobalt	2	Strontium	60	Mercury	

Silty samples may account for higher iron, manganese and silicon content.

*TDS: Total Dissolved Solids

*SAR: Sodium Adsorption Ratio

*TNTC: Too Numerous To Count

*< Denotes Less Than detection limit

The Results above are related only to the items analyzed.

Please See Reverse For Uncertainty of Measurement and Methods used for analyses.

Please See Attached For Canadian Drinking Water Quality Guidelines

Certified By