



Company Northern Natural Gas Sec 9 Township 23 Range 34
 County Finney State KS Job Number 02-139 Voltage Used 13.80

Depth	Amps	Geological Log	Depth	Amps	Geological Log	No.	Depth	No. Coke	With Coke
5		0-40 Clay	205			1	140	2.3	8.7
10			210			2	130	1.8	8.5
15			215			3	120	1.9	8.2
20			220			4	110	1.5	7.8
25		29' Top of Coke	225			5	100	1.4	7.3
30	1.5		230			6	90	1.5	7.0
35			235		RECEIVED	7	80	2.3	7.2
40	1.3	40-60 Clay w/Sand	240			8	70	1.5	6.8
45			245		JAN 23 2003	9	60	1.6	6.5
50	1.6		250		KCC RECEIVED	10	50	1.5	5.2
55			255			11			
60	1.5	60-80 Clay	260			12			
65			265			13			
70	1.6		270			14			
75			275			15			
80	2.2	80-110 Clay w/Sand	280			16			
85			285			17			
90	1.6		290			18			
95			295			19			
100	1.4		300			20			
105			305			21			
110	1.6	110-125 Sandy Clay	310			22			
115			315			23			
120	1.8		320			24			
125		125-140 Clay w/Sandy streaks	325			25			
130	1.8		330			26			
135			335			27			
140	2.2	140-150 Clay	340			28			
145			345			29			
150	2.8	150' T.D.	350			30			
155			355			Volts		14.16	
160			360			Amps			
165			365			Ohms			
170			370			Rectifier Information			
175			375			Model			
180			380			Serial			
185			385			DCV	DCA		
190			390			C	F		
195			395			ACV	ACA		
200			400			Shunt			

Interior Plug	10 bags Permaplug	Vent	1" Loresco All-vent	Length	
Hole Dia.	8"	Total Depth	150'	Remarks	Hole possibly caved in on anodes 8,9 and 10.
No. Anodes	10	Size and Type	4" x 80" Graphite		
Lbs. Coke	2250	Coke Type	Loresco SC-3		
Ft. Casing	20'	Casing Diameter	8"	Signature	Brad Brewer
				Date	12/21/02