



JOB NO. 340310430 INSTALLATION DATE 7/25/13

JOB TITLE CATHODIC PROTECTION SYSTEMS FOR STATION PIPING

JOB SITE COFFEYVILLE STATION

COMPANY MAGELLAN MIDSTREAM

DRILLING COMPANY GILES ENVIRONMENTAL

DRILLER NAME CLARK GILES

Rotary(Air/Mud): MUD Cable Tool: N/A Casing: 20' OF 10" PVC

Pump/Top Load: PUMP Type Coke SC-3 Anodes: 6 EA. - 2.7" X 84" ANOTEC 2684Z ANODES

Depth of Coke _____ Coke(Vol) _____

Groundbed Depth: 100' Diameter: 10"

Depth Ft.	Exploring Anode Log And Driller's Log	TO STRUCTURE			Without Coke	With Coke	Depth Top of Anode	
		E	I		14.2V	3.166V	No.	Ft.
			14.2V					
	HOLE # 3							
0	CLAY & FILL							
10	SANDY CLAY							
20	SAND & GRAVEL							
30	LIMESTONE WITH STREAKS OF SHALE		1.2					
40	LIMESTONE WITH STREAKS OF SHALE		2.1		1.1	0.2	6	40'
50	LIMESTONE WITH STREAKS OF SHALE		2.1		2.0	0.1	5	50'
60	LIMESTONE WITH STREAKS OF SHALE		2.3		2.2	0.3	4	60'
70	LIMESTONE WITH STREAKS OF SHALE		2.7		2.3	0.3	3	70'
80	LIMESTONE		1.2		2.6	0.2	2	80'
90	LIMESTONE		1.7		2.0	0.3	1	90'
100	LIMESTONE / CHERT		1.1					
						1.4 Amps		
	HOLE # 4							
0	CLAY & FILL	13.5			13.5V	3.166V		
10	SANDY CLAY							
20	SAND & GRAVEL		0.2					
30	LIMESTONE WITH STREAKS OF SHALE		1.3					
40	LIMESTONE WITH STREAKS OF SHALE		2.1		2.1	0.2	6	40'
50	LIMESTONE WITH STREAKS OF SHALE		2.2		2.2	0.1	5	50'
60	LIMESTONE WITH STREAKS OF SHALE		2.4		2.4	0.4	4	60'
70	LIMESTONE WITH STREAKS OF SHALE		2.9		2.9	0.3	3	70'
80	LIMESTONE		1.3		1.3	0.3	2	80'
90	LIMESTONE		1.7		1.7	0.4	1	90'
100	LIMESTONE / CHERT		1.1					
						1.7 Amps		