APPENDIX D

PRESCO GAS WELLS
LUDLUM MODEL 3 SURVEY METER READINGS

	Year
Well Name: BM 26-42	2005
Formation: Green River	
Year	2005
Min	60
Max	160
Average	98.3784
Median	100
Mode	100
Geometric	92.6966
Variance	1089.26
Std Dev	33.004
3 Std Dev	99.0119
4 Std Dev	132.016
Number of Readings:	37

	Year
Well Name: BM 36-13	2005
Green River	
Year	2005
Min	20
Max	240
Average	93.8596
Median	100
Mode	50
Geometric	80.6899
Variance	2476.33
Std Dev	49.7627
3 Std Dev	149.288
4 Std Dev	199.051
Number of Readings:	57

	Year
Well Name: BM 36-23	2005
Green River - Not Evaluated	

	Year
Well Name: BM 34-24	2005
Green River - Not Evaluated	

	Year
Well Name: BM 35-12	2006
Green River - Three Readings	
Green River exposed at the surface to 3069 feet	
Depth (ft)	CPM
450	100
700	80
1030	100

Formation: Wasatch	
Year	2005
Min	20
Max	240
Average	95.6757
Median	100
Mode	100
Geometric	86.2762
Variance	1592.11
Std Dev	39.9013
3 Std Dev	119.704
4 Std Dev	159.605
Number of Readings:	74

Formation: Wasatch	
Year	2005
Min	50
Max	200
Average	124.434
Median	140
Mode	100
Geometric	118.659
Variance	1169.96
Std Dev	34.2047
3 Std Dev	102.614
4 Std Dev	136.819
Number of Readings:	106

Wasatch - Not Evaluated

Wasatch - Not Evaluated

Formation: Wasatch	
Year	2006
Min	60
Max	180
Average	114
Median	110
Mode	100
Geometric Mear	111.04
Variance	707.586
Std Dev	26.6005
3 Std Dev	79.8
4 Std Dev	106.4
No. of Readings	29

Formation: Mesaverde Group	
Year	2005
Min	60
Max	200
Average	132.162
Median	140
Mode	100
Geomean	127.676
Variance	1165.6
Std Dev	34.1408
3 Std Dev	102.422
4 Std Dev	136.563
Number of Readings:	74

Mesaverde Group	
Year	2005
Min	50
Max	260
Average	141.467
Median	140
Mode	140
Geometric	135.33
Variance	1671.18
Std Dev	40.8801
3 Std Dev	122.64
4 Std Dev	163.52
Number of Readings:	75

Mesaverde Group	
Year	2005
Min	20
Max	180
Average	116.087
Median	120
Mode	100
Geometric	111.007
Variance	928.166
Std Dev	30.4658
3 Std Dev	91.3975
4 Std Dev	121.863
Number of Readings:	46

Mesaverde Group	
Year	2005
Min	70
Max	200
Average	106.25
Median	100
Mode	100
Geometric	102.735
Variance	885.938
Std Dev	29.7647
3 Std Dev	89.2941
4 Std Dev	119.059
Number of Readings:	96

Mesaverde Group	
Year	2006
Min	50
Max	140
Average	99.25
Median	100
Mode	100
Geometric Mear	97.35
Variance	325.064
Std Dev	18.0295
3 Std Dev	54.0886
4 Std Dev	72.1181
Number of Readings:	39

BM 26-42 Well Screening
Green River Fm.

Depth (ft)	CPM
354	100
384	140
1243	100
1275	100
1307	140
1338	60
1370	60
1402	60
1433	60
1465	100
1497	100
1528	100
1560	100
1592	60
1624	60
1655	60
1687	60
1717	140
1747	100
1777	100
1807	140
1837	60
1867	100
1897	60
1927	100
1957	100
1987	140
2017	140
2047	60
2077	140
2107	60
2137	140
2167	140
2197	140
2227	60
2257	100
2287	160

Min	60
Max	160
Average	98.3784
Median	100
Mode	100
Geometric Mean	92.6966
Variance	1089.26
Std Dev	33.004
3 Std Dev	99.0119
4 Std Dev	132.016
Number of Readings	37
Normal Distribution:	0.96906

BM 36-13 Well Screening
Green River Fm

Depth (ft)	CPM
136	140
220	140
250	140
280	100
310	140
340	140
664	140
764	100
796	200
823	100
855	100
886	100
917	140
949	140
980	100
1010	100
1040	140
1070	240
1100	100
1160	140
1170	50
1208	240
1233	140
1265	100
1296	140
1328	100
1360	140
1391	100
1423	140
1480	50
1510	20
1540	50
1570	20
1540	50
1570	20
1600	50
1630	50
1660	50
1708	50
1771	50
1803	50
1834	50
1866	50
1898	100
1930	50
1961	100
1993	50
2034	50
2097	50
2132	100
2230	50
2265	50
2298	100
2340	100
2375	50
2397	50
2440	50

Min	20
Max	240
Average	93.8596
Median	100
Mode	50
Geometric Mean	80.6899
Variance	2476.33
Std Dev	49.7627
3 Std Dev	149.288
4 Std Dev	199.051
Number of Readings	57
Normal Distribution:	0.99834

BM 26-42 Screening
Wasatch Fm.

Depth (ft)	CPM
2317	160
2853	100
2916	60
3139	100
3394	100
3424	100
3600	100
3650	100
3700	140
3750	140
3800	140
3850	60
3900	100
3950	160
4000	100
4050	160
4100	140
4150	140
4200	160
4250	160
4300	100
4350	100
4400	100
4450	140
4500	140
4550	100
4600	100
4650	60
4700	100
4750	100
4800	60
4850	100
4900	140
4950	100
5000	140
5050	140
5100	100
5150	100
5500	100
5530	140
5560	100
5590	60
5650	100
5680	100
5710	240
5890	100
5920	60
5950	60
5980	60
6010	60
6040	60
6070	60
6100	60
6130	60
6160	60
6190	60
6220	60
6250	60
6280	60
6310	60
6340	60
6370	60
6400	60
6430	20
6460	20
6490	20
6520	20
6550	60
6580	100
6610	100
6640	100
6670	100
6730	140
6760	100

Min	20
Max	240
Average	95.6757
Median	100
Mode	100
Geometric Mean	86.2762
Variance	1592.11
Std Dev	39.9013
3 Std Dev	119.704
4 Std Dev	159.605
Number of Readings	74
Normal Distribution:	0.99985

BM 36-13
Wasatch Fm

Depth (ft)	CPM
2580	100
2600	50
2650	50
2700	100
2750	50
2800	160
2850	50
2900	50
2950	100
3000	100
3050	160
3100	140
3150	140
3200	100
3250	100
3300	100
3350	100
3400	100
3450	100
3500	160
3550	160
3600	140
3650	140
3700	160
3850	160
3900	160
3950	50
4000	50
4050	100
4100	100
4150	100
4200	100
4250	140
4300	140
4350	100
4400	100
4450	140
4500	100
4550	140
4580	100
4610	140
4640	160
4670	200
4700	160
4730	140
4760	200
4790	160
4820	160
4850	160
4880	140
4910	50
4940	140
4970	160
5000	160
5030	100
5060	100
5090	160
5120	160
5150	140
5180	160
5210	140
5240	160
5270	140
5300	50
5330	140
5360	140
5390	140
5420	100
5450	100
5480	140
5510	140
5540	160
5570	140
5600	140
5630	160
5660	140
5690	140
5720	100
5750	100
5780	160
5810	160
5840	100
5870	140
5900	100
5930	100
5960	160
5990	140
6020	100
6050	100
6080	140
6110	100
6140	160
6170	140
6200	100
6230	160
6320	140
6350	100
6380	160
6410	100
6440	140
6470	140
6500	100
6530	140
6560	100
6590	100
6620	100

Min	50
Max	200
Average	124.434
Median	140
Mode	100
Geometric Mean	118.659
Variance	1169.96
Std Dev	34.2047
3 Std Dev	102.614
4 Std Dev	136.819
Number of Readings:	106
Normal Distribution:	0.98642

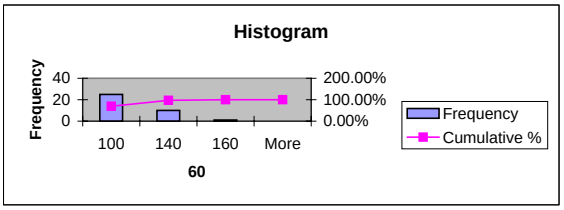
BM 35-12 2006
Wasatch Fm

Depth (ft)	CPM
6000	100
6031	110
6006-6038	110
6062	80
6038-6072	140
6070-6102	100
6102-6133	140
6133-6165	110
6165-6187	160
6197-6229	80
6229-6261	100
6261-6292	100
6292-6324	60
6324-6356	100
6356-6387	140
6387-6419	100
6419-6450	120
6450-6482	100
6482-6514	160
6514-6546	180
6546-6578	140
6578-6610	140
6610-6641	120
6641-6673	120
6673-6704	110
6704-6736	100
6736-6767	100
6767-6798	100
6798-6817	120
6817-6862	80

Min	60
Max	180
Average	114
Median	110
Mode	100
Geometric Mean	111.036
Variance	684
Std Dev	26.1534
3 Std Dev	78.4602
4 Std Dev	104.614
Number of Readings:	29
Normal Distribution:	0.99419

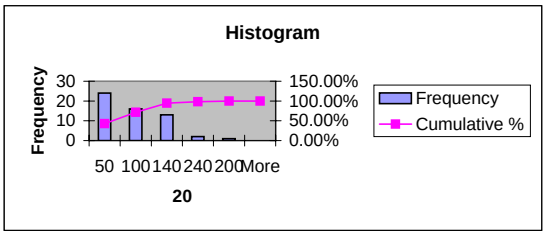
BM 26-42 Ludlum Model 3 Survey Meter/GM Pancake Probe Readings
Green River Fm Drill Cutting Screening Results 2005

	60	*Frequency*	*Cumulative %*
Ludlum Meter Readings in	100	25	69.44%
Counts per minute (CPM)	140	10	97.22%
	160	1	100.00%
More		0	100.00%



BM 36-13 Ludlum Model 3 Survey Meter/GM Pancake Probe Readings
Green River Fm Drill Cutting Screening Results 2005

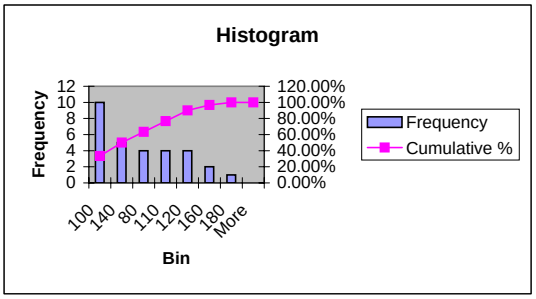
	20	*Frequency*	*Cumulative %*
Ludlum Meter Readings in	50	24	42.86%
Counts per minute (CPM)	100	16	71.43%
	140	13	94.64%
	240	2	98.21%
	200	1	100.00%
More		0	100.00%



BM 35-12 Ludlum Model 3 Survey Meter/GM Pancake Probe Readings
Wasatch Fm Drill Cutting Screening Results 2006

	Bin	*Frequency*	*Cumulative %*
Ludlum Meter Readings in	100	10	33.33%
Counts per minute (CPM)	140	5	50.00%
	80	4	63.33%
	110	4	76.67%
	120	4	90.00%
	160	2	96.67%
	180	1	100.00%
	More	0	100.00%

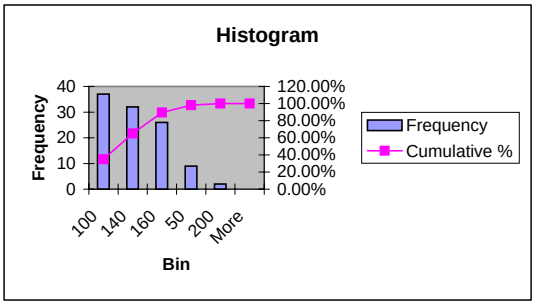
Number of Readings: 29



BM 36-13 Ludlum Model 3 Survey Meter/GM Pancake Probe Readings
Wasatch Fm Drill Cutting Screening Results 2005

	Bin	*Frequency*	*Cumulative %*
Ludlum Meter Readings in	100	37	34.91%
Counts per minute (CPM)	140	32	65.09%
	160	26	89.62%
	50	9	98.11%
	200	2	100.00%
	More	0	100.00%

Number of Readings : 106

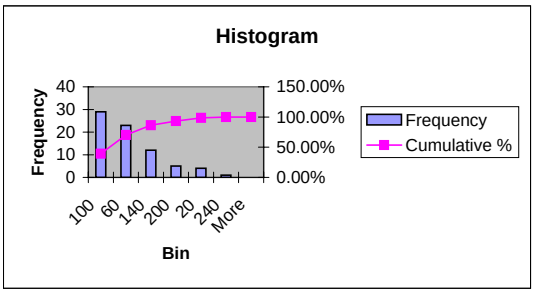


BM 26-42 Ludlum Model 3 Survey Meter/GM Pancake Probe Readings
Wasatch Fm Drill Cutting Screening Results 2005

	Bin	*Frequency*	*Cumulative %*
Ludlum Meter Readings in	100	29	39.19%
Counts per minute (CPM)	60	23	70.27%
	140	12	86.49%
	200	5	93.24%
	20	4	98.65%
	240	1	100.00%
	More	0	100.00%

Number of Readings: 74

Ludlum meter readings were recorded on most sensitive setting X 0.1



BM 26-42
Well Cutting Screening

Mesaverde Group

Depth (ft)	Reading (CPM)
6850	140
6880	200
6970	140
7000	140
7030	140
7060	140
7090	140
7120	100
7150	100
7180	100
7210	160
7240	160
7270	200
7300	160
7330	160
7360	100
7390	100
7420	160
7450	100
7480	200
7510	160
7540	160
7570	100
7600	100
7630	160
7660	140
7690	160
7720	140
7750	100
7780	100
7810	100
7840	140
7870	160
7900	100
7930	100
7960	160
7990	100
8020	140
8050	100
8080	100
8110	100
8140	160
8170	140
8200	160
8230	100
8260	100
8290	100
8320	140
8350	100
8380	100
8410	140
8440	100
8470	100
8500	100
8530	200
8560	160
8590	160
8620	100
8650	100
8680	100
8710	140
8740	200
8770	140
8800	200
8830	200
8860	60
8890	100
8950	140
8980	140
9010	140
9040	160
9070	140
9100	60
9130	140

	Bin	
Min	60	60
Max	200	100
Average	132.1622	140
Median	140	160
Mode	100	200
Variance	1165.595	
Std Dev	34.14082	
3 Std Dev	102.4224	
4 Std Dev	136.5633	
#Reading	74	

BM 36-13
Well Cutting Screening

Mesaverde Group

Depth (ft)	Reading (CPM)
6650	160
6680	160
6710	140
6740	100
6770	140
6800	100
6830	140
6860	140
6890	140
6920	160
6950	140
6980	140
7010	100
7040	160
7070	140
7100	160
7130	100
7160	140
7190	200
7220	160
7250	160
7280	200
7310	50
7340	140
7370	240
7400	160
7430	140
7460	100
7490	140
7520	50
7550	50
7580	100
7610	160
7640	140
7670	140
7700	100
7730	100
7760	140
7790	240
7820	160
7850	100
7880	140
7910	140
7940	140
7970	160
8000	260
8030	260
8060	240
8090	160
8120	140
8150	140
8180	100
8210	100
8240	140
8270	140
8300	140
8330	140
8360	140
8390	140
8420	100
8450	140
8480	160
8510	100
8540	100
8570	140
8600	140
8630	140
8660	160
8690	200
8720	140
8750	140
8780	100
8810	140
8840	160
8870	100

	Bin	
Min	50	50
Max	260	100
Average	141.4667	140
Median	140	160
Mode	140	200
Variance	1671.182	240
Std Dev	40.8801	260
3 Std Dev	122.6403	
4 Std Dev	163.5204	
#Reading	75	

BM 36-23
Well Cutting Screening

Mesaverde Group

Depth (ft)	Reading (CPM)
6760	100
6790	120
6820	100
6850	100
6880	110
6910	120
6940	100
6970	80
7030	100
7060	80
7150	120
7180	130
7210	150
7240	100
7360	120
7480	80
7600	100
7660	130
7840	120
7900	130
7960	100
8020	100
8260	150
8290	150
8320	100
8350	120
8380	100
8410	100
8440	80
8470	80
8500	100
8530	120
8560	180
8590	120
8620	120
8650	120
8680	120
8710	100
8740	150
8770	180
8800	150
8890	20
8920	180
8950	180
8980	100
9020	130

	Bin	
Min	20	20
Max	180	80
Average	116.087	100
Median	120	120
Mode	100	130
Variance	928.1664	150
Std Dev	30.46582	180
3 Std Dev	91.39747	
4 Std Dev	121.8633	
#Reading	46	

BM 34-24
Well Cutting Screening

Mesaverde Group

Depth (ft)	Reading (CPM)
6510	80
6540	120
6570	80
6600	80
6630	80
6660	110
6690	110
6720	100
6750	100
6780	70
6810	100
6840	120
6870	100
6900	100
6930	100
6960	80
6990	100
7030	120
7060	70
7090	100
7120	100
7150	130
7180	80
7210	80
7240	100
7270	100
7300	100
7330	100
7360	120
7390	100
7420	200
7450	100
7480	80
7510	120
7540	80
7570	80
7600	130
7630	100
7660	70
7690	80
7720	80
7750	100
7780	90
7810	80
7840	80
7870	180
7900	180
7930	120
7960	80
7990	140
8020	80
8050	80
8080	120
8110	120
8140	110
8170	130
8200	80
8230	100
8260	80
8290	80
8320	70
8350	120
8380	80
8410	100
8440	100
8470	80
8500	180
8530	110
8560	180
8590	150
8620	100
8650	110
8680	100
8710	80
8740	120
8770	120
8800	80
8830	120
8860	100
8890	100
8920	130
8950	80
8980	90
9010	100
9040	80
9070	120
9100	100
9130	100
9160	120
9190	100
9220	140
9250	180
9280	200
9310	180
9340	80
9370	120

	Bin	
Min	70	70
Max	200	80
Average	106.25	90
Median	100	100
Mode	100	110
Variance	885.9375	120
Std Dev	29.7647	130
3 Std Dev	89.29411	140
4 Std Dev	119.0588	160
#Readings	96	170
		180
		190
		200

BM 35-12
Well Cutting Screening

Mesaverde Group

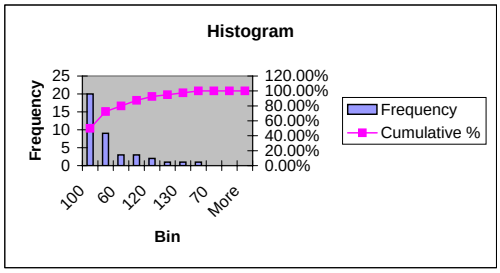
Depth (ft)	Reading (CPM)
7160	60
7269	110
7301	100
7333	100
7397	50
7413	110
7417	100
7475	110
7442	120
7461	100
7485	110
7500	100
7510	100
7525	110
7535	100
7545	80
7555	110
7565	100
7575	100
7585	100
7591	100
7595	110
7623	80
7875	100
7908	100
7939	60
7971	60
8000	130
8003	100
8010	100
8020	120
8030	110
8040	100
8050	100
8060	100
8070	100
8160	110
8192	80
8255	140
8287	100

	Bin	
Min	50	50
Max	140	60
Average	99.25	70
Median	100	80
Mode	100	90
Variance	325.0641	100
Std Dev	18.02953	110
3 Std Dev	54.0886	120
4 Std Dev	72.11814	130
#Readings:	39	140

BM 35-12 Ludlum Model 3 Survey Meter/GM Pancake Probe Readings
Mesaverde Group Drill Cutting Screening Results 2006

	Bin	Frequency	Cumulative %
Ludlum Meter Readings in	100	20	50.00%
Counts per minute (CPM)	110	9	72.50%
	60	3	80.00%
	80	3	87.50%
	120	2	92.50%
	50	1	95.00%
	130	1	97.50%
	140	1	100.00%
	70	0	100.00%
	90	0	100.00%
	More	0	100.00%

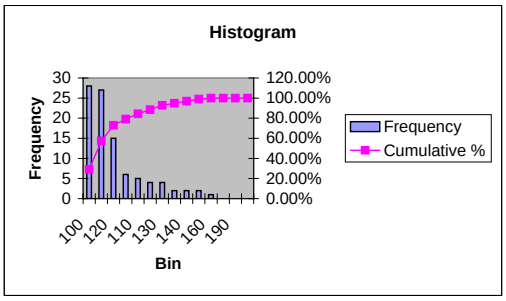
Number of Readings: 39



BM 34-24 Ludlum Model 3 Survey Meter/GM Pancake Probe Readings
Mesaverde Group Drill Cutting Screening Results 2005

	Bin	Frequency	Cumulative %
Ludlum Meter Readings in	100	28	29.17%
Counts per minute (CPM)	80	27	57.29%
	120	15	72.92%
	180	6	79.17%
	110	5	84.38%
	70	4	88.54%
	130	4	92.71%
	90	2	94.79%
	140	2	96.88%
	200	2	98.96%
	160	1	100.00%
	170	0	100.00%
	190	0	100.00%
	More	0	100.00%

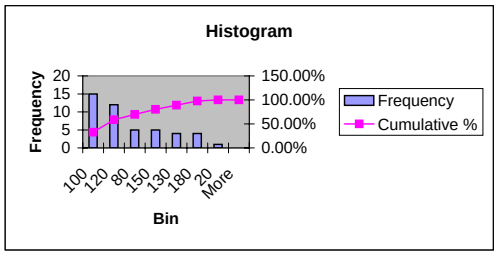
Number of Readings: 96



BM 36-23 Ludlum Model 3 Survey Meter/GM Pancake Probe Readings
Mesaverde Group Drill Cutting Screening Results 2005

	Bin	Frequency	Cumulative %
Ludlum Meter Readings in	100	15	32.61%
Counts per minute (CPM)	120	12	58.70%
	80	5	69.57%
	150	5	80.43%
	130	4	89.13%
	180	4	97.83%
	20	1	100.00%
	More	0	100.00%

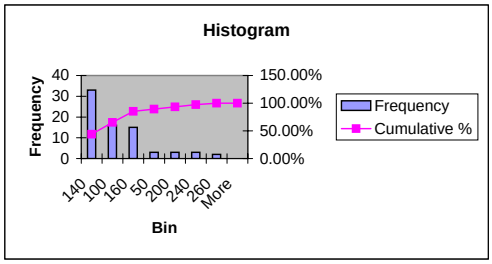
Number of Readings: 46



BM 36-13 Ludlum Model 3 Survey Meter/GM Pancake Probe Readings
Mesaverde Group Drill Cutting Screening Results 2005

	Bin	Frequency	Cumulative %
Ludlum Meter Readings in	140	33	44.00%
Counts per minute (CPM)	100	16	65.33%
	160	15	85.33%
	50	3	89.33%
	200	3	93.33%
	240	3	97.33%
	260	2	100.00%
	More	0	100.00%

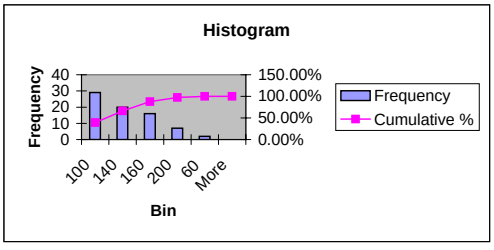
Number of Readings: 75



BM 26-42 Ludlum Model 3 Survey Meter/GM Pancake Probe Readings
Mesaverde Group Drill Cutting Screening Results 2005

	Bin	Frequency	Cumulative %
Ludlum Meter Readings in	100	29	39.19%
Counts per minute (CPM)	140	20	66.22%
	160	16	87.84%
	200	7	97.30%
	60	2	100.00%
	More	0	100.00%

Number of Readings: 74



Readings were recorded on the most sensitive setting of X 0.1

Designer and Manufacturer of Scientific and Industrial Instruments

CERTIFICATE OF CALIBRATION

LUDLUM MEASUREMENTS, INC.
POST OFFICE BOX 810 PH. 325-235-5494
501 OAK STREET FAX NO. 325-235-4672
SWEETWATER, TEXAS 79556, U.S.A.

CUSTOMER CORDILLERAN COMPLIANCE SERV ORDER NO. 256955 / 303100

Mfg. Ludlum Measurements, Inc. Model 3 Serial No. 218381

Mfg. Ludlum Measurements, Inc. Model 44-9 Serial No. PR-229526

Cal. Date 13-Jun-06 Cal Due Date 13-Jun-07 Cal. Interval 1 Year Meterface 202-608

Check mark ☑ applies to applicable instr. and/or detector IAW mfg. spec. T. 69 °F RH 39 % Alt 700.8 mm Hg

☐ New Instrument Instrument Received ☑ Within Toler. +-10% ☐ 10-20% ☐ Out of Tol. ☐ Requiring Repair ☐ Other-See comments

☑ Mechanical ck. ☑ Meter Zeroed ☐ Background Subtract ☐ Input Sens. Linearity
☑ F/S Resp. ck ☑ Reset ck. ☐ Window Operation ☑ Geotropism
☑ Audio ck. ☐ Alarm Setting ck. ☑ Batt. ck. (Min. Volt) 2.2 VDC

☐ Calibrated in accordance with LMI SOP 14.8 rev 12/05/89. ☑ Calibrated in accordance with LMI SOP 14.9 rev 02/07/97.

Instrument Volt Set 900 V Input Sens. 27 mV Det. Oper. 900 V at 27 mV Threshold Dial Ratio = mV

☐ HV Readout (2 points) Ref./Inst. / V Ref./Inst. / V

COMMENTS:

Gamma Calibration: GM detectors positioned perpendicular to source except for M 44-9 in which the front of probe faces source.

RANGE/MULTIPLIER	REFERENCE CAL. POINT	INSTRUMENT REC'D "AS FOUND READING"	INSTRUMENT METER READING*
X 100	150 mR/hr	1.5	1.5
X 100	50 mR/hr	0.5	0.5
X 10	15 mR/hr	1.5	1.5
X 10	5 mR/hr	0.5	0.5
X 1	1.5 mR/hr = 4910 cpm	1.6	1.5
X 1	1.0 mR/hr	1.1	1.0
X 0.1	491 cpm	1.5	1.5
X 0.1	164 cpm	0.5	0.5

*Uncertainty within ± 10% C.F. within ± 20%

X 0.1 **Range(s) Calibrated Electronically**

	REFERENCE CAL. POINT	INSTRUMENT RECEIVED	INSTRUMENT METER READING*
Digital Readout			

	REFERENCE CAL. POINT	INSTRUMENT RECEIVED	INSTRUMENT METER READING*
Log Scale			

Ludlum Measurements, Inc. certifies that the above instrument has been calibrated by standards traceable to the National Institute of Standards and Technology, or to the calibration facilities of other International Standards Organization members, or have been derived from accepted values of natural physical constants or have been derived by the ratio type of calibration techniques. The calibration system conforms to the requirements of ANSI/NCSL Z540-1-1994 and ANSI N323-1978 State of Texas Calibration License No. LO-1963

Reference Instruments and/or Sources: ☐ S-394 ☐ 1122 ☐ 781

Cs-137 Gamma S/N ☑ 1162 ☐ G112 ☐ M565 ☐ 5105 ☐ T1008 ☐ T879 ☑ E552 ☐ E551 ☐ 720 ☐ 734 ☐ 1616 ☐ Neutron Am-241 Be S/N T-304

☐ Alpha S/N ☐ Beta S/N ☐ Other

☑ m 500 S/N 189506 ☐ Oscilloscope S/N ☑ Multimeter S/N 57390613

Calibrated By: William Tinsley Date 13-June-06

Reviewed By: Date 13 June 06

FORM C22A 06/02/2006

AC Inst. Only ☐ Passed Dielectric (Hi-Pot) and Continuity Test ☐ Failed: