

Co: NATIVE NAVIGATION					Units: Feet, ± 7100ft		VS Az: 180.00		Method: Minimum Curvature			
Drillers: 0					Elevation:		Map System: NAD 83, CO North					
Well Name: Grimm 34-3H					Northing:		Latitude:					
Location: Arapahoe County (35 4S 64W)					Easting:		Longitude:					
Grimm 34-3H												
No.	MD	CL	Inc.	Azi.	TVD	VS	+N/S-	+E/W-	BR	WR	DLS	Comments
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				SHL
2	100.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	
3	200.00	100.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
4	300.00	100.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
5	400.00	100.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	
6	500.00	100.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	
7	600.00	100.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	
8	700.00	100.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	
9	800.00	100.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	
10	900.00	100.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00	
11	1000.00	100.00	0.00	0.00	1000.00	0.00	0.00	0.00	0.00	0.00	0.00	
12	1100.00	100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00	0.00	
13	1200.00	100.00	0.00	0.00	1200.00	0.00	0.00	0.00	0.00	0.00	0.00	
14	1300.00	100.00	0.00	0.00	1300.00	0.00	0.00	0.00	0.00	0.00	0.00	
15	1400.00	100.00	0.00	0.00	1400.00	0.00	0.00	0.00	0.00	0.00	0.00	
16	1500.00	100.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.00	0.00	0.00	
17	1600.00	100.00	0.00	0.00	1600.00	0.00	0.00	0.00	0.00	0.00	0.00	
18	1700.00	100.00	0.00	0.00	1700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 Fox Hills Top
19	1787.99	88.00	0.00	0.00	1787.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00 Fox Hills Base
20	1800.00	12.01	0.00	0.00	1800.00	0.00	0.00	0.00	0.00	0.00	0.00	
21	1900.00	100.00	0.00	0.00	1900.00	0.00	0.00	0.00	0.00	0.00	0.00	
22	2000.00	100.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	
23	2100.00	100.00	0.00	0.00	2100.00	0.00	0.00	0.00	0.00	0.00	0.00	
24	2200.00	100.00	0.00	0.00	2200.00	0.00	0.00	0.00	0.00	0.00	0.00	
25	2300.00	100.00	0.00	0.00	2300.00	0.00	0.00	0.00	0.00	0.00	0.00	
26	2400.00	100.00	0.00	0.00	2400.00	0.00	0.00	0.00	0.00	0.00	0.00	
27	2500.00	100.00	0.00	0.00	2500.00	0.00	0.00	0.00	0.00	0.00	0.00	
28	2600.00	100.00	0.00	0.00	2600.00	0.00	0.00	0.00	0.00	0.00	0.00	
29	2700.00	100.00	0.00	0.00	2700.00	0.00	0.00	0.00	0.00	0.00	0.00	
30	2800.00	100.00	0.00	0.00	2800.00	0.00	0.00	0.00	0.00	0.00	0.00	
31	2900.00	100.00	0.00	0.00	2900.00	0.00	0.00	0.00	0.00	0.00	0.00	
32	3000.00	100.00	0.00	0.00	3000.00	0.00	0.00	0.00	0.00	0.00	0.00	
33	3100.00	100.00	0.00	0.00	3100.00	0.00	0.00	0.00	0.00	0.00	0.00	
34	3200.00	100.00	0.00	0.00	3200.00	0.00	0.00	0.00	0.00	0.00	0.00	
35	3300.00	100.00	0.00	0.00	3300.00	0.00	0.00	0.00	0.00	0.00	0.00	
36	3400.00	100.00	0.00	0.00	3400.00	0.00	0.00	0.00	0.00	0.00	0.00	
37	3500.00	100.00	0.00	0.00	3500.00	0.00	0.00	0.00	0.00	0.00	0.00	
38	3600.00	100.00	0.00	0.00	3600.00	0.00	0.00	0.00	0.00	0.00	0.00	
39	3700.00	100.00	0.00	0.00	3700.00	0.00	0.00	0.00	0.00	0.00	0.00	
40	3800.00	100.00	0.00	0.00	3800.00	0.00	0.00	0.00	0.00	0.00	0.00	
41	3900.00	100.00	0.00	0.00	3900.00	0.00	0.00	0.00	0.00	0.00	0.00	
42	4000.00	100.00	0.00	0.00	4000.00	0.00	0.00	0.00	0.00	0.00	0.00	
43	4100.00	100.00	0.00	0.00	4100.00	0.00	0.00	0.00	0.00	0.00	0.00	
44	4200.00	100.00	0.00	0.00	4200.00	0.00	0.00	0.00	0.00	0.00	0.00	
45	4300.00	100.00	0.00	0.00	4300.00	0.00	0.00	0.00	0.00	0.00	0.00	
46	4400.00	100.00	0.00	0.00	4400.00	0.00	0.00	0.00	0.00	0.00	0.00	
47	4500.00	100.00	0.00	0.00	4500.00	0.00	0.00	0.00	0.00	0.00	0.00	
48	4600.00	100.00	0.00	0.00	4600.00	0.00	0.00	0.00	0.00	0.00	0.00	
49	4700.00	100.00	0.00	0.00	4700.00	0.00	0.00	0.00	0.00	0.00	0.00	
50	4800.00	100.00	0.00	0.00	4800.00	0.00	0.00	0.00	0.00	0.00	0.00	
51	4900.00	100.00	0.00	0.00	4900.00	0.00	0.00	0.00	0.00	0.00	0.00	
52	5000.00	100.00	0.00	0.00	5000.00	0.00	0.00	0.00	0.00	0.00	0.00	
53	5100.00	100.00	0.00	0.00	5100.00	0.00	0.00	0.00	0.00	0.00	0.00	
54	5187.99	87.99	0.00	0.00	5187.99	-0.01	0.01	0.00	0.00	0.00	0.00	0.00 Sussex
55	5200.00	12.01	0.00	0.00	5200.00	-0.01	0.01	0.00	0.00	0.00	0.00	
56	5300.00	100.00	0.00	0.00	5300.00	-0.01	0.01	0.00	0.00	0.00	0.00	
57	5400.00	100.00	0.00	0.00	5400.00	-0.01	0.01	0.00	0.00	0.00	0.00	
58	5500.00	100.00	0.00	0.00	5500.00	-0.01	0.01	0.00	0.00	0.00	0.00	
59	5600.00	100.00	0.00	0.00	5600.00	-0.01	0.01	0.00	0.00	0.00	0.00	
60	5700.00	100.00	0.00	0.00	5700.00	-0.01	0.01	0.00	0.00	0.00	0.00	
61	5800.00	100.00	0.00	0.00	5800.00	-0.01	0.01	0.00	0.00	0.00	0.00	
62	5900.00	100.00	0.00	0.00	5900.00	-0.01	0.01	0.00	0.00	0.00	0.00	
63	6000.00	100.00	0.00	0.00	6000.00	-0.01	0.01	0.00	0.00	0.00	0.00	
64	6100.00	100.00	0.00	0.00	6100.00	-0.01	0.01	0.00	0.00	0.00	0.00	
65	6200.00	100.00	0.00	0.00	6200.00	-0.01	0.01	0.00	0.00	0.00	0.00	
66	6300.00	100.00	0.00	0.00	6300.00	-0.01	0.01	0.00	0.00	0.00	0.00	
67	6400.00	100.00	0.00	0.00	6400.00	-0.01	0.01	0.00	0.00	0.00	0.00	
68	6500.00	100.00	0.00	0.00	6500.00	-0.01	0.01	0.00	0.00	0.00	0.00	
69	6600.00	100.00	0.00	0.00	6600.00	-0.01	0.01	0.00	0.00	0.00	0.00	
70	6635.00	35.00	0.00	0.00	6635.00	-0.01	0.01	0.00	0.00	0.00	0.00	0.00 Build 11deg/100ft
71	6700.00	65.00	7.15	296.82	6699.83	-1.83	1.83	-3.61	11.00	-97.20	11.00	
72	6800.00	100.00	18.15	296.82	6797.25	-11.70	11.70	-23.13	11.00	0.00	11.00	
73	6900.00	100.00	29.15	296.82	6888.72	-29.77	29.77	-58.87	11.00	0.00	11.00	
74	7000.00	100.00	40.15	296.82	6970.85	-55.39	55.39	-109.53	11.00	0.00	11.00	
75	7041.60	41.60	44.72	296.82	7001.55	-68.05	68.05	-134.57	11.00	0.00	11.00	Hold
76	7100.00	58.40	44.72	296.82	7043.04	-86.59	86.59	-171.25	0.00	0.00	0.00	
77	7154.60	54.60	44.72	296.82	7081.84	-103.93	103.93	-205.54	0.00	0.00	0.00	0.00 Build 11deg/100ft
78	7200.00	45.40	43.24	289.95	7114.52	-116.45	116.45	-234.43	-3.27	-15.13	11.00	
79	7300.00	100.00	41.54	273.80	7188.60	-130.37	130.37	-299.91	-1.70	-16.15	11.00	
80	7400.00	100.00	42.18	257.31	7263.31	-125.18	125.18	-365.94	0.64	-16.49	11.00	
81	7500.00	100.00	45.06	241.89	7335.91	-101.05	101.05	-430.11	2.88	-15.42	11.00	
82	7600.00	100.00	49.78	228.37	7403.72	-58.88	58.88	-490.04	4.72	-13.52	11.00	
83	7700.00	100.00	55.85	216.83	7464.25	-0.21	0.21	-543.55	6.07	-11.54	11.00	
84	7800.00	100.00	62.85	206.95	7515.29	72.80	-72.80	-588.66	7.00	-9.88	11.00	
85	7900.00	100.00	70.46	198.28	7554.95	157.46	-157.46	-623.71	7.61	-8.67	11.00	
86	8000.00	100.00	78.44	190.41	7581.77	250.67	-250.67	-647.42	7.98	-7.87	11.00	
87	8100.00	100.00	86.62	182.99	7594.78	348.99	-348.99	-658.91	8.18	-7.42	11.00	
88	8141.00	41.00	90.00	180.00	7595.98	389.95	-389.95	-659.98	8.24	-7.29	11.00	Land Niobrara
89	8200.00	59.00	90.00	180.00	7595.98	448.95	-448.95	-659.98	0.00	0.00	0.00	
90	8300.00	100.00	90.00	180.00	7595.98	548.95	-548.95	-659.98	0.00	0.00	0.00	
91	8400.00	100.00	90.00	180.00	7595.98	648.95	-648.95	-659.98	0.00	0.00	0.00	
92	8500.00	100.00	90.00	180.00	7595.98	748.95	-748.95	-659.98	0.00	0.00	0.00	
93	8600.00	100.00	90.00	180.00	7595.98	848.95	-848.95	-659.98	0.00	0.00	0.00	
94	8700.00	100.00	90.00	180.00	7595.98	948.95	-948.95	-659.98	0.00	0.00	0.00	
95	8800.00	100.00	90.00	180.00	7595.98	1048.95	-1048.95	-659.98	0.00	0.00	0.00	
96	8900.00	100.00	90.00	180.00	7595.98	1148.95	-1148.95	-659.98	0.00	0.00	0.00	
97	9000.00	100.00	90.00	180.00	7595.98	1248.95	-1248.95	-659.98	0.00	0.00	0.00	

100	9300.00	100.00	90.00	180.00	7595.99	1548.95	-1548.95	-659.98	0.00	0.00	0.00
101	9400.00	100.00	90.00	180.00	7595.99	1648.95	-1648.95	-659.98	0.00	0.00	0.00
102	9500.00	100.00	90.00	180.00	7595.99	1748.95	-1748.95	-659.98	0.00	0.00	0.00
103	9600.00	100.00	90.00	180.00	7595.99	1848.95	-1848.95	-659.98	0.00	0.00	0.00
104	9700.00	100.00	90.00	180.00	7595.99	1948.95	-1948.95	-659.99	0.00	0.00	0.00
105	9800.00	100.00	90.00	180.00	7595.99	2048.95	-2048.95	-659.99	0.00	0.00	0.00
106	9900.00	100.00	90.00	180.00	7595.99	2148.95	-2148.95	-659.99	0.00	0.00	0.00
107	10000.00	100.00	90.00	180.00	7595.99	2248.95	-2248.95	-659.99	0.00	0.00	0.00
108	10100.00	100.00	90.00	180.00	7595.99	2348.95	-2348.95	-659.99	0.00	0.00	0.00
109	10200.00	100.00	90.00	180.00	7595.99	2448.95	-2448.95	-659.99	0.00	0.00	0.00
110	10300.00	100.00	90.00	180.00	7595.99	2548.95	-2548.95	-659.99	0.00	0.00	0.00
111	10400.00	100.00	90.00	180.00	7595.99	2648.95	-2648.95	-659.99	0.00	0.00	0.00
112	10500.00	100.00	90.00	180.00	7595.99	2748.95	-2748.95	-659.99	0.00	0.00	0.00
113	10600.00	100.00	90.00	180.00	7595.99	2848.95	-2848.95	-659.99	0.00	0.00	0.00
114	10700.00	100.00	90.00	180.00	7595.99	2948.95	-2948.95	-659.99	0.00	0.00	0.00
115	10800.00	100.00	90.00	180.00	7595.99	3048.95	-3048.95	-659.99	0.00	0.00	0.00
116	10900.00	100.00	90.00	180.00	7595.99	3148.95	-3148.95	-659.99	0.00	0.00	0.00
117	11000.00	100.00	90.00	180.00	7595.99	3248.95	-3248.95	-659.99	0.00	0.00	0.00
118	11100.00	100.00	90.00	180.00	7595.99	3348.95	-3348.95	-659.99	0.00	0.00	0.00
119	11200.00	100.00	90.00	180.00	7595.99	3448.95	-3448.95	-659.99	0.00	0.00	0.00
120	11300.00	100.00	90.00	180.00	7595.99	3548.95	-3548.95	-660.00	0.00	0.00	0.00
121	11400.00	100.00	90.00	180.00	7595.99	3648.95	-3648.95	-660.00	0.00	0.00	0.00
122	11500.00	100.00	90.00	180.00	7595.99	3748.95	-3748.95	-660.00	0.00	0.00	0.00
123	11600.00	100.00	90.00	180.00	7595.99	3848.95	-3848.95	-660.00	0.00	0.00	0.00
124	11700.00	100.00	90.00	180.00	7595.99	3948.95	-3948.95	-660.00	0.00	0.00	0.00
125	11800.00	100.00	90.00	180.00	7595.99	4048.95	-4048.95	-660.00	0.00	0.00	0.00
126	11900.00	100.00	90.00	180.00	7595.99	4148.95	-4148.95	-660.00	0.00	0.00	0.00
127	12000.00	100.00	90.00	180.00	7596.00	4248.95	-4248.95	-660.00	0.00	0.00	0.00
128	12100.00	100.00	90.00	180.00	7596.00	4348.95	-4348.95	-660.00	0.00	0.00	0.00
129	12115.10	15.10	90.00	180.00	7596.00	4364.05	-4364.05	-660.00	0.00	0.00	0.00 PBHL