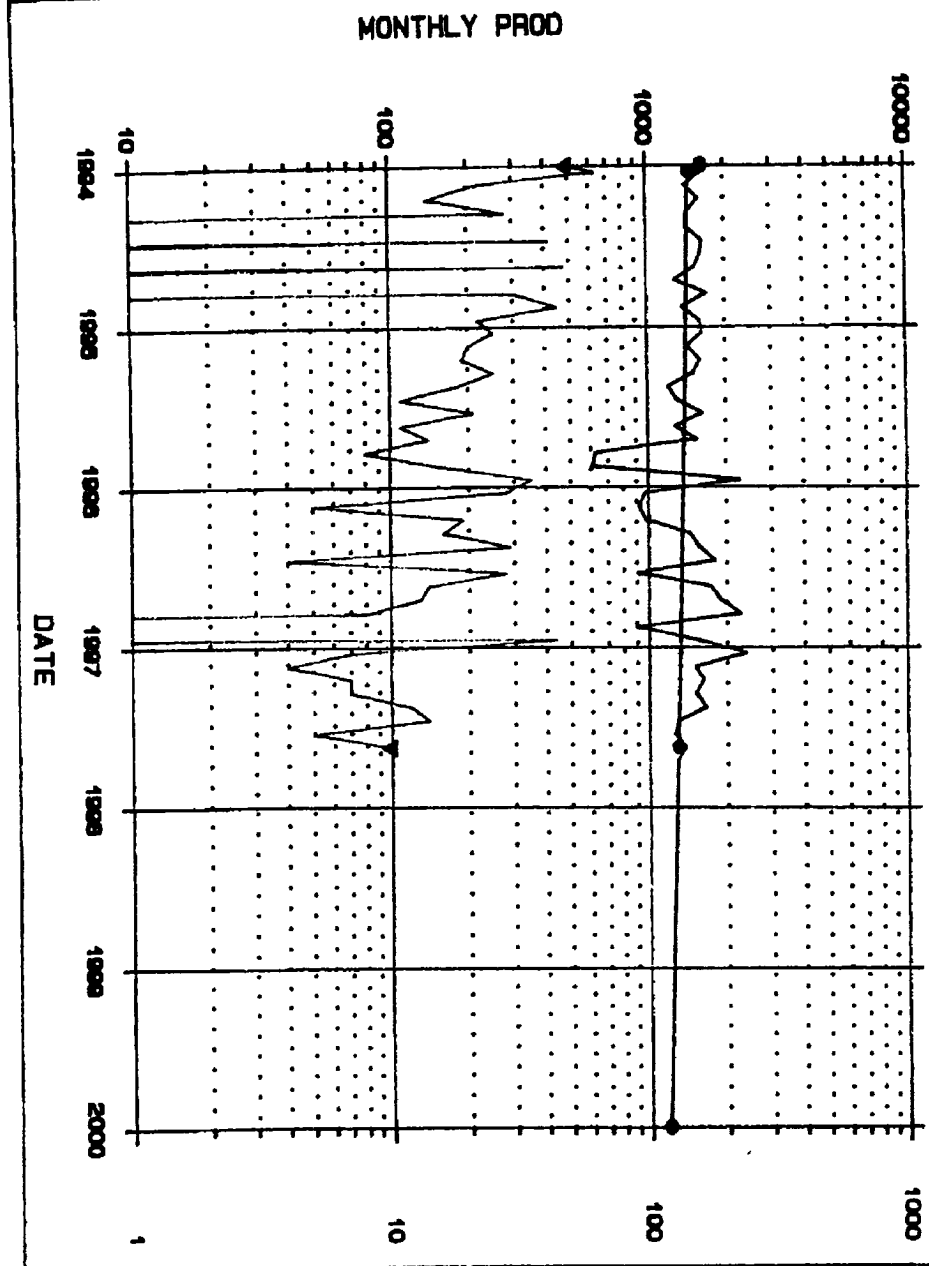
Attachment #3

KHM
Multiphase Curve Analysis
Rate vs Time

ROBERT L. BAYLESS
HELEN HARTMAN #1
DAKOTA PRODUCTION

11/14/1997
Project:
HHD HARTMAN DAK



Production Curves

GAS: ▪ GAS PROD PROJECTION 1/70 - 8/97
0 History
1 CPD
01 : 1000.000 MCF/M 8/97 - 8/17
02 : 3.000 %
03 : 850.188 MCF/M
04 : 850.888 MCF
05 : ▪ HISTORICAL DATA FIT 1/84 - 8/97
CPD
01 : 1470.000 MCF/M
02 : 3.000 %
03 : 1000.888 MCF/M
04 : 80.888 MCF
CND: ▼ CONDENSATE DATA 1/70 - 8/97
0 History

C-115 - Operator's Monthly Report (Continuation Page)

2 Operator: CHATEAU OIL AND GAS, INC. | 3 OGRID: 159819 | 4 Month/Year 11/97 | 6 Page 28 of 42

		INJECTION			PRODUCTION				DISPOSITION OF OIL, GAS, AND WATER							
7 POOL NO. AND NAME Property No. and Name Well No. & U-L-S-T-R API No.	8 C O D E	9 Volume	10 Pressure	11 C O D E	12 Barrels Of Oil/Condensate Produced	13 Barrels Of Water Produced	14 MCF Gas Produced	15 Days Produced	16 C O D E	17 Point Of Disposition	18 Gas BTU or Oil Gravity	19 Oil On Hand at beginning of month	20 Volume Bbls/Mcf	21 Transporter OGRID	22 C O D E	23 Oil on hand at end of month
30-039-06592	F				0	0	1000	30								
001M K-11-26N-04W																
30-039-21609	F				0	0	1194	30								
									G	2296930	1318		915	025244		
									G	2304930	1279		1138	025244		
									G				141		U	
020534 MONTOYA (MV)																
001M I-35-32N-13W																
30-045-23008	F				0	2	713	11								
									O	2281810		12				11
									O	2281810			1		S	
									G	2281930	1218		682	007057		
									G				31		U	
									W				2		P	
020537 NCRA (MV)																
001E G-22-26N-07W																
30-039-22102	F				12	58	696	29								
									O	2282310		95				107
									G	2282330	1111		696	025244		
									W				58		P	
020540 NORTHWEST (MV)																
001 G-07-26N-04W																
30-039-07126	F				3	0	1272	17								
001A O-07-26N-04W																
30-039-21618	F				5	0	1209	27								
									O	2297110		12				15
									O	2304310		193				198
									G	2297130	1286		1224	025244		
									G	2304330	1305		1118	025244		
									G				139		U	

Attachment #5
P.1

ROBERT L. BAYLESS				
HELEN HARTMAN #1				
DAKOTA FORMATION FUTURE PRODUCTION				
FORECAST USING HISTORICAL TREND				
Initial Rate (September 1997):			1285 MCFM	11.9 BCPM*
Effective Decline Rate:			3.5%	
* - Condensate production is projected using GOR of 107,920				
SCF/BBL calculated from 1996-1997 actual production				
			GAS	COND*
	YEAR	MONTH	(MCF)	(BBLS)
1	1997	SEP	1,283	12
2	1997	OCT	1,279	12
3	1997	NOV	1,275	12
4	1997	DEC	1,272	12
5	1998	JAN	1,268	12
6	1998	FEB	1,264	12
7	1998	MAR	1,260	12
8	1998	APR	1,257	12
9	1998	MAY	1,253	12
10	1998	JUN	1,249	12
11	1998	JUL	1,246	12
12	1998	AUG	1,242	12
13	1998	SEP	1,238	11
14	1998	OCT	1,235	11
15	1998	NOV	1,231	11
16	1998	DEC	1,227	11
17	1999	JAN	1,224	11
18	1999	FEB	1,220	11
19	1999	MAR	1,216	11
20	1999	APR	1,213	11
21	1999	MAY	1,209	11
22	1999	JUN	1,206	11
23	1999	JUL	1,202	11
24	1999	AUG	1,198	11
25	1999	SEP	1,195	11
26	1999	OCT	1,191	11
27	1999	NOV	1,188	11
28	1999	DEC	1,184	11
29	2000	JAN	1,181	11
30	2000	FEB	1,177	11
31	2000	MAR	1,174	11
32	2000	APR	1,170	11
33	2000	MAY	1,167	11
34	2000	JUN	1,163	11
35	2000	JUL	1,160	11
36	2000	AUG	1,156	11
37	2000	SEP	1,153	11
38	2000	OCT	1,150	11
39	2000	NOV	1,146	11
40	2000	DEC	1,143	11

C-115 - Operator's Monthly Report (Continuation Page)

2 Operator: CHATEAU OIL AND GAS, INC. | 3 OGRID: 159819 | 4 Month/Year 11/97 | 6 Page 27 of 42

		INJECTION			PRODUCTION				DISPOSITION OF OIL, GAS, AND WATER							
7 POOL NO. AND NAME Property No. and Name Well No. & U-L-S-T-R API No.	8 C O D E	9 Volume	10 Pressure	11 C O D E	12 Barrels Of Oil/Condensate Produced	13 Barrels Of Water Produced	14 MCF Gas Produced	15 Days Produced	16 C O D E	17 Point Of Disposition	18 Gas BTU or Oil Gravity	19 Oil On Hand at beginning of month	20 Volume Bbls/Mcf	21 Transporter OGRID	22 C O D E	23 Oil on hand at end of month
									W				24		P	
020519 JICARILLA C (MV)																
001 P-11-26N-04W																
30-039-06546	F				0	0	1700	30								
001A A-11-26N-04W																
30-039-21345	F				0	0	1282	30								
									G	2296630	1302		1569	025244		
									G	2296730	1242		1197	025244		
									G				216		U	
020523 LANDAUER (MV)																
001E I-03-31N-13W																
30-045-23791	S				0	0	0	0								
									O	2305910		1				1
020527 LINDA (MV)										-						
001A D-31-27N-08W																
30-045-23410	F				100	30	5946	30								
									O	2807179	49.0	201	194	009018		107
									G	2807180	1334		5861	025244		
									G				85		U	
									W				30		P	
020530 MARRON WN FED COM																
006A I-24-27N-08W																
30-045-22517	F				0	0	746	30								
									O	2303610		160				160
									G	2303630	1342		661	007057		
									G				85		U	
020531 MCINTYRE (MV)																
001 F-11-26N-04W																

Attachment #5
P.2

ROBERT L. BAYLESS				
HELEN HARTMAN #1				
DAKOTA FORMATION FUTURE PRODUCTION				
FORECAST USING HISTORICAL TREND				
Initial Rate (September 1997):			1285 MCFM	11.9 BCPM*
Effective Decline Rate:			3.5%	
* - Condensate production is projected using GOR of 107,920 SCF/BBL calculated from 1996-1997 actual production				
	YEAR	MONTH	GAS (MCF)	COND* (BBLS)
41	2001	JAN	1,139	11
42	2001	FEB	1,136	11
43	2001	MAR	1,133	10
44	2001	APR	1,129	10
45	2001	MAY	1,126	10
46	2001	JUN	1,123	10
47	2001	JUL	1,119	10
48	2001	AUG	1,116	10
49	2001	SEP	1,113	10
50	2001	OCT	1,109	10
51	2001	NOV	1,106	10
52	2001	DEC	1,103	10
53	2002	JAN	1,100	10
54	2002	FEB	1,096	10
55	2002	MAR	1,093	10
56	2002	APR	1,090	10
57	2002	MAY	1,087	10
58	2002	JUN	1,083	10
59	2002	JUL	1,080	10
60	2002	AUG	1,077	10
61	2002	SEP	1,074	10
62	2002	OCT	1,071	10
63	2002	NOV	1,067	10
64	2002	DEC	1,064	10
65	2003	JAN	1,061	10
66	2003	FEB	1,058	10
67	2003	MAR	1,055	10
68	2003	APR	1,052	10
69	2003	MAY	1,049	10
70	2003	JUN	1,045	10
71	2003	JUL	1,042	10
72	2003	AUG	1,039	10
73	2003	SEP	1,036	10
74	2003	OCT	1,033	10
75	2003	NOV	1,030	10
76	2003	DEC	1,027	10
77	2004	JAN	1,024	9
78	2004	FEB	1,021	9
79	2004	MAR	1,018	9
80	2004	APR	1,015	9
81	2004	MAY	1,012	9

C-115 - Operator's Monthly Report (Continuation Page)

2 Operator: CHATEAU OIL AND GAS, INC. | 3 OGRID: 159819 | 4 Month/Year 11/97 | 6 Page 26 of 42

		INJECTION			PRODUCTION				DISPOSITION OF OIL, GAS, AND WATER							
7 POOL NO. AND NAME Property No. and Name Well No. & U-L-S-T-R API No.	8 COD E	9 Volume	10 Pressure	11 COD E	12 Barrels Of Oil/Condensate Produced	13 Barrels Of Water Produced	14 MCF Gas Produced	15 Days Produced	16 COD E	17 Point Of Disposition	18 Gas BTU or Oil Gravity	19 Oil On Hand at beginning of month	20 Volume Bbls/Mcf	21 Transporter OGRID	22 COD E	23 Oil on hand at end of month
020516 JENNEY (MV)																
001 B-13-26N-04W																
30-039-06493	F				3	15	949	30								
001M P-13-26N-04W																
30-039-21513	F				4	15	1231	30								
									O	2281210		16				19
									O	2281410		77				81
									G	2281230	1347		950	025244		
									G	2281530	1249		1129	025244		
									G				101		U	
									W				30		P	
020517 JICARILLA (MV)																
004 E-08-26N-05W																
30-039-06612	F				10	0	694	28								
004A A-08-26N-05W																
30-039-21611	F				11	45	3062	30								
									O	2296510		64				74
									O	2305110		113				124
									G	2807181	1253		3499	025244		
									G				257		U	
									W				45		P	
020518 JICARILLA B (MV)																
001A P-26-26N-04W																
30-039-21610	F				0	3	1034	30								
081 B-26-26N-04W																
30-039-06330	F				1	21	1006	30								
									O	2281610	57.7	33	10	009018		24
									G	2281730	1271		950	025244		
									G	2305030	1277		978	025244		
									G				112		U	

Attachment #5
P.3

ROBERT L. BAYLESS				
HELEN HARTMAN #1				
DAKOTA FORMATION FUTURE PRODUCTION				
FORECAST USING HISTORICAL TREND				
Initial Rate (September 1997):			1285 MCFM	11.9 BCPM*
Effective Decline Rate:			3.5%	
* - Condensate production is projected using GOR of 107,920				
SCF/BBL calculated from 1996-1997 actual production				
			GAS	COND*
	YEAR	MONTH	(MCF)	(BBLS)
82	2004	JUN	1,009	9
83	2004	JUL	1,006	9
84	2004	AUG	1,003	9
85	2004	SEP	1,000	9
86	2004	OCT	997	9
87	2004	NOV	994	9
88	2004	DEC	991	9
89	2005	JAN	988	9
90	2005	FEB	985	9
91	2005	MAR	982	9
92	2005	APR	979	9
93	2005	MAY	976	9
94	2005	JUN	974	9
95	2005	JUL	971	9
96	2005	AUG	968	9
97	2005	SEP	965	9
98	2005	OCT	962	9
99	2005	NOV	959	9
100	2005	DEC	956	9
101	2006	JAN	953	9
102	2006	FEB	951	9
103	2006	MAR	948	9
104	2006	APR	945	9
105	2006	MAY	942	9
106	2006	JUN	939	9
107	2006	JUL	937	9
108	2006	AUG	934	9
109	2006	SEP	931	9
110	2006	OCT	928	9
111	2006	NOV	926	9
112	2006	DEC	923	9
113	2007	JAN	920	9
114	2007	FEB	917	9
115	2007	MAR	915	8
116	2007	APR	912	8
117	2007	MAY	909	8
118	2007	JUN	907	8
119	2007	JUL	904	8
120	2007	AUG	901	8
121	2007	SEP	899	8
122	2007	OCT	896	8

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2 Operator: CHATEAU OIL AND GAS, INC. | 3 OGRID: 159819 | 4 Month/Year 11/97 | 6 Page 25 of 42

		INJECTION			PRODUCTION				DISPOSITION OF OIL, GAS, AND WATER							
7 POOL NO. AND NAME Property No. and Name Well No. & U-L-S-T-R API No.	8 COD E	9 Volume	10 Pressure	11 COD E	12 Barrels Of Oil/Condensate Produced	13 Barrels Of Water Produced	14 MCF Gas Produced	15 Days Produced	16 COD E	17 Point Of Disposition	18 Gas BTU or Oil Gravity	19 Oil On Hand at beginning of month	20 Volume Bbls/Mcf	21 Transporter OGRID	22 COD E	23 Oil on hand at end of month
									G	2304130	1245		923	025244		
									G				505		U	
									W				30		P	
020512 HURON (MV)																
001 M-02-26N-04W																
30-039-06651	F				0	0	521	30								
001A E-02-26N-04W																
30-039-21511	F				0	0	833	30								
003 A-02-26N-04W																
30-039-06750	F				0	0	1029	25								
003A I-02-26N-04W																
30-039-21500	F				0	0	826	30								
									O	2296310			15		S	
									O	2296310		137				122
									G	2296030	1228		438	025244		
									G	2296130	1234		748	025244		
									G	2296330	1224		724	025244		
									G	2300130	1270		944	025244		
									G				355		U	
020515 JACQUEZ (MV)																
001 K-02-31N-13W																
30-045-11044	F				0	0	895	30								
001A F-02-31N-13W																
30-045-23005	F				2	0	1242	30								
									O	2304210		59				61
									G	2296430	1191		840	007057		
									G	2304230	1196		1140	007057		
									G				157		U	

Attachment #5
P.5

ROBERT L. BAYLESS				
HELEN HARTMAN #1				
DAKOTA FORMATION FUTURE PRODUCTION				
FORECAST USING HISTORICAL TREND				
Initial Rate (September 1997):			1285 MCFM	11.9 BCPM*
Effective Decline Rate:			3.5%	
* - Condensate production is projected using GOR of 107,920				
SCF/BBL calculated from 1996-1997 actual production				
			GAS	COND*
	YEAR	MONTH	(MCF)	(BBLS)
163	2011	MAR	793	7
164	2011	APR	791	7
165	2011	MAY	788	7
166	2011	JUN	786	7
167	2011	JUL	784	7
168	2011	AUG	782	7
169	2011	SEP	779	7
170	2011	OCT	777	7
171	2011	NOV	775	7
172	2011	DEC	772	7
173	2012	JAN	770	7
174	2012	FEB	768	7
175	2012	MAR	765	7
176	2012	APR	763	7
177	2012	MAY	761	7
178	2012	JUN	759	7
179	2012	JUL	756	7
180	2012	AUG	754	7
181	2012	SEP	752	7
182	2012	OCT	750	7
183	2012	NOV	747	7
184	2012	DEC	745	7
185	2013	JAN	743	7
186	2013	FEB	741	7
187	2013	MAR	739	7
188	2013	APR	736	7
189	2013	MAY	734	7
190	2013	JUN	732	7
191	2013	JUL	730	7
192	2013	AUG	728	7
193	2013	SEP	726	7
194	2013	OCT	723	7
195	2013	NOV	721	7
196	2013	DEC	719	7
197	2014	JAN	717	7
198	2014	FEB	715	7
199	2014	MAR	713	7
200	2014	APR	711	7
201	2014	MAY	709	7
202	2014	JUN	706	7
203	2014	JUL	704	7

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2 Operator: CHATEAU OIL AND GAS, INC. | 3 OGRID: 159819 | 4 Month/Year 11/97 | 6 Page 24 of 42

		INJECTION			PRODUCTION				DISPOSITION OF OIL, GAS, AND WATER							
7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
POOL NO. AND NAME Property No. and Name Well No. & U-L-S-T-R API No.	C O D E	Volume	Pressure	C O D E	Barrels Of Oil/Condensate Produced	Barrels Of Water Produced	MCF Gas Produced	Days Produced	C O D E	Point Of Disposition	Gas BTU or Oil Gravity	Oil On Hand at beginning of month	Volume Bbls/Mcf	Transporter OGRID	C O D E	Oil on hand at end of month
									O	2285910		69				67
									O	2285910			2		S	
									G	2280330	1215		3835	007057		
									G	2285930	1229		1414	007057		
									G				200		U	
									W				180		P	
020508 GROSS (MV)																
001E I-07-31N-12W																
30-045-23615	F				9	8	2592	25								
									O	2280410		52				61
									G	2280530	1224		2507	007057		
									G				85		U	
									W				8		P	
020510 HOYT (MV)																
002A I-05-26N-04W																
30-039-21389	F				1	0	1601	30								
003 E-05-26N-04W																
30-039-06708	F				0	0	813	30								
003A H-05-26N-04W																
30-039-21512	F				1	30	1096	30								
002 L-05-26N-04W																
30-039-06690	F				2	0	1166	30								
									O	2280810		13				15
									O	2295910		44				44
									O	2295910			1		S	
									O	2298710		49				49
									O	2304110		68				69
									G	2280930	1264		1110	025244		
									G	2295930	1250		1426	025244		
									G	2298730	1269		712	025244		

Attachment #5
P.4

ROBERT L. BAYLESS				
HELEN HARTMAN #1				
DAKOTA FORMATION FUTURE PRODUCTION				
FORECAST USING HISTORICAL TREND				
Initial Rate (September 1997):			1285 MCFM	11.9 BCPM*
Effective Decline Rate:			3.5%	
* - Condensate production is projected using GOR of 107,920 SCF/BBL calculated from 1996-1997 actual production				
			GAS	COND*
	YEAR	MONTH	(MCF)	(BBLS)
123	2007	NOV	893	8
124	2007	DEC	891	8
125	2008	JAN	888	8
126	2008	FEB	885	8
127	2008	MAR	883	8
128	2008	APR	880	8
129	2008	MAY	877	8
130	2008	JUN	875	8
131	2008	JUL	872	8
132	2008	AUG	870	8
133	2008	SEP	867	8
134	2008	OCT	865	8
135	2008	NOV	862	8
136	2008	DEC	859	8
137	2009	JAN	857	8
138	2009	FEB	854	8
139	2009	MAR	852	8
140	2009	APR	849	8
141	2009	MAY	847	8
142	2009	JUN	844	8
143	2009	JUL	842	8
144	2009	AUG	839	8
145	2009	SEP	837	8
146	2009	OCT	834	8
147	2009	NOV	832	8
148	2009	DEC	829	8
149	2010	JAN	827	8
150	2010	FEB	824	8
151	2010	MAR	822	8
152	2010	APR	820	8
153	2010	MAY	817	8
154	2010	JUN	815	8
155	2010	JUL	812	8
156	2010	AUG	810	8
157	2010	SEP	807	7
158	2010	OCT	805	7
159	2010	NOV	803	7
160	2010	DEC	800	7
161	2011	JAN	798	7
162	2011	FEB	796	7

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|2 Operator: CHATEAU OIL AND GAS, INC. |3 OGRID: 159819 |4 Month/Year 11/97 |6 Page 23 of 42|

		INJECTION			PRODUCTION				DISPOSITION OF OIL, GAS, AND WATER							
7 POOL NO. AND NAME Property No. and Name Well No. & U-L-S-T-R API No.	8 COD E	9 Volume	10 Pressure	11 COD E	12 Barrels Of Oil/Condensate Produced	13 Barrels Of Water Produced	14 MCF Gas Produced	15 Days Produced	16 COD E	17 Point Of Disposition	18 Gas BTU or Oil Gravity	19 Oil On Hand at beginning of month	20 Volume Bbls/Mcf	21 Transporter OGRID	22 COD E	23 Oil on hand at end of month
020499 CHAVEZ (MV)																
001 A-02-31N-13W																
30-045-11100	F				0	6	1021	30								
001A P-02-31N-13W																
30-045-23006	F				0	0	46	1								
									O	2304510		172				172
									G	2295830	1203		965	007057		
									G	2304530	1215		43	007057		
									G				59		U	
									W				6		P	
020500 CLAYTON (MV)																
002 K-02-30N-12W																
30-045-25910	F				7	0	2542	30								
002A P-02-30N-12W																
30-045-25911	F				0	0	3432	30								
									O	2285510		69				76
									O	2285610		148				148
									G	2285530	1239		2441	007057		
									G	2285630	1239		3330	007057		
									G				203		U	
020505 DUKE (MV)																
001 H-13-31N-13W																
30-045-10762	S				0	0	0	0								
020507 FREEMAN (MV)																
001R A-11-31N-13W																
30-045-26113	F				0	6	1512	29								
001M C-11-31N-13W																
30-045-23023	F				9	174	3937	30								
									O	2280210		17				26

Attachment #5
P.6

ROBERT L. BAYLESS				
HELEN HARTMAN #1				
DAKOTA FORMATION FUTURE PRODUCTION				
FORECAST USING HISTORICAL TREND				
Initial Rate (September 1997):			1285 MCFM	11.9 BCPM*
Effective Decline Rate:			3.5%	
* - Condensate production is projected using GOR of 107,920 SCF/BBL calculated from 1996-1997 actual production				
	YEAR	MONTH	GAS (MCF)	COND* (BBLS)
204	2014	AUG	702	7
205	2014	SEP	700	6
206	2014	OCT	698	6
207	2014	NOV	696	6
208	2014	DEC	694	6
209	2015	JAN	692	6
210	2015	FEB	690	6
211	2015	MAR	688	6
212	2015	APR	686	6
213	2015	MAY	684	6
214	2015	JUN	682	6
215	2015	JUL	680	6
216	2015	AUG	678	6
217	2015	SEP	676	6
218	2015	OCT	674	6
219	2015	NOV	672	6
220	2015	DEC	670	6
221	2016	JAN	668	6
222	2016	FEB	666	6
223	2016	MAR	664	6
224	2016	APR	662	6
225	2016	MAY	660	6
226	2016	JUN	658	6
227	2016	JUL	656	6
228	2016	AUG	654	6
229	2016	SEP	652	6
230	2016	OCT	650	6
231	2016	NOV	648	6
232	2016	DEC	646	6
233	2017	JAN	644	6
234	2017	FEB	642	6
235	2017	MAR	641	6
236	2017	APR	639	6
237	2017	MAY	637	6
238	2017	JUN	635	6
239	2017	JUL	633	6
240	2017	AUG	631	6

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2 Operator: CHATEAU OIL AND GAS, INC. | 3 OGRID: 159819 | 4 Month/Year 11/97 | 6 Page 22 of 42

		INJECTION			PRODUCTION				DISPOSITION OF OIL, GAS, AND WATER							
7 POOL NO. AND NAME Property No. and Name Well No. & U-L-S-T-R API No.	8 C O D E	9 Volume	10 Pressure	11 C O D E	12 Barrels Of Oil/Condensate Produced	13 Barrels Of Water Produced	14 MCF Gas Produced	15 Days Produced	16 C O D E	17 Point Of Disposition	18 Gas BTU or Oil Gravity	19 Oil On Hand at beginning of month	20 Volume Bbls/Mcf	21 Transporter OGRID	22 C O D E	23 Oil on hand at end of month
003 B-35-27N-04W																
30-039-06849	F				26	0	1114	30								
003A F-35-27N-04W																
30-039-21521	F				1	6	1249	30								
005 K-25-27N-04W																
30-039-06896	F				5	0	1891	30								
005A F-25-27N-04W																
30-039-21485	F				11	24	2875	30								
007 H-25-27N-04W																
30-039-06915	F				4	3	1671	30								
007A P-25-27N-04W																
30-039-21380	F				0	3	1502	30								
									O	2295410		48				48
									O	2295510		64				90
									O	2295610		18				20
									O	2295710		40				45
									O	2303410		24				35
									O	2303710		83				87
									O	2303810		67				67
									G	2295330	1223		1109	025244		
									G	2295430	1202		3534	025244		
									G	2295530	1231		1013	025244		
									G	2295630	1239		1147	025244		
									G	2295730	1224		1733	025244		
									G	2303430	1212		2773	025244		
									G	2303730	1218		1514	025244		
									G	2303830	1222		1345	025244		
									G				1271		U	
									W				75		P	