

**ROBERT L. BAYLESS**

P. O. BOX 168  
FARMINGTON, NM 87499

FAX NO.  
(505) 326-6911

OFFICE NO.  
(505) 326-2659

November 17, 1997

**Certified Mail - Return Receipt Requested Z 164 296 155**

NOV 18 1997

Mr. William J. LeMay, Chairman  
New Mexico Oil Conservation Division  
2040 South Pacheco  
Santa Fe, New Mexico 87505

RE: Application for Downhole Commingling - Amended Attachments  
Robert L. Bayless  
Helen Hartman #1  
1190' FSL and 1190' FEL  
Section 8, T30N R11W  
San Juan County, New Mexico

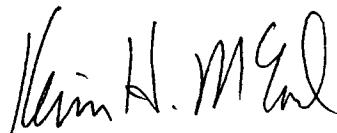
Gentlemen:

Recently you received Robert L. Bayless' Application to Downhole Commingle the Dakota and Mesa Verde formations in the Helen Hartman #1 well referenced above. After several conversations with other interest owners in this well, we have revised the Dakota formation future production forecast from a 5% per year decline rate to a 3.5% per year decline rate. Enclosed with this letter is an amended Attachment #3 (Dakota Formation Decline Curve) and an amended Attachment #5 (Estimated Future Production for the Dakota Formation), both of which reflect these revisions. Please update your copy of this application by replacing the original attachments with these amended attachments.

The amended attachments were also sent to each of the well interest owners in the Helen Hartman #1. A list of these owners is provided as Attachment #10 in the original application. A copy of the cover letter sent to these people is enclosed with this letter.

If there are any questions concerning these amendments or anything else with this application, please contact me at the number listed above. Thank you for your attention to this matter.

Sincerely,



Kevin H. McCord  
Petroleum Engineer

Attachments

### Multiphase Curve Analysis

(c) 1984, 1990 Insights, A Software Inc.

**ROBERT L. BAYLESS**  
**HELEN HARTMAN #1**  
**DAKOTA PRODUCTION**

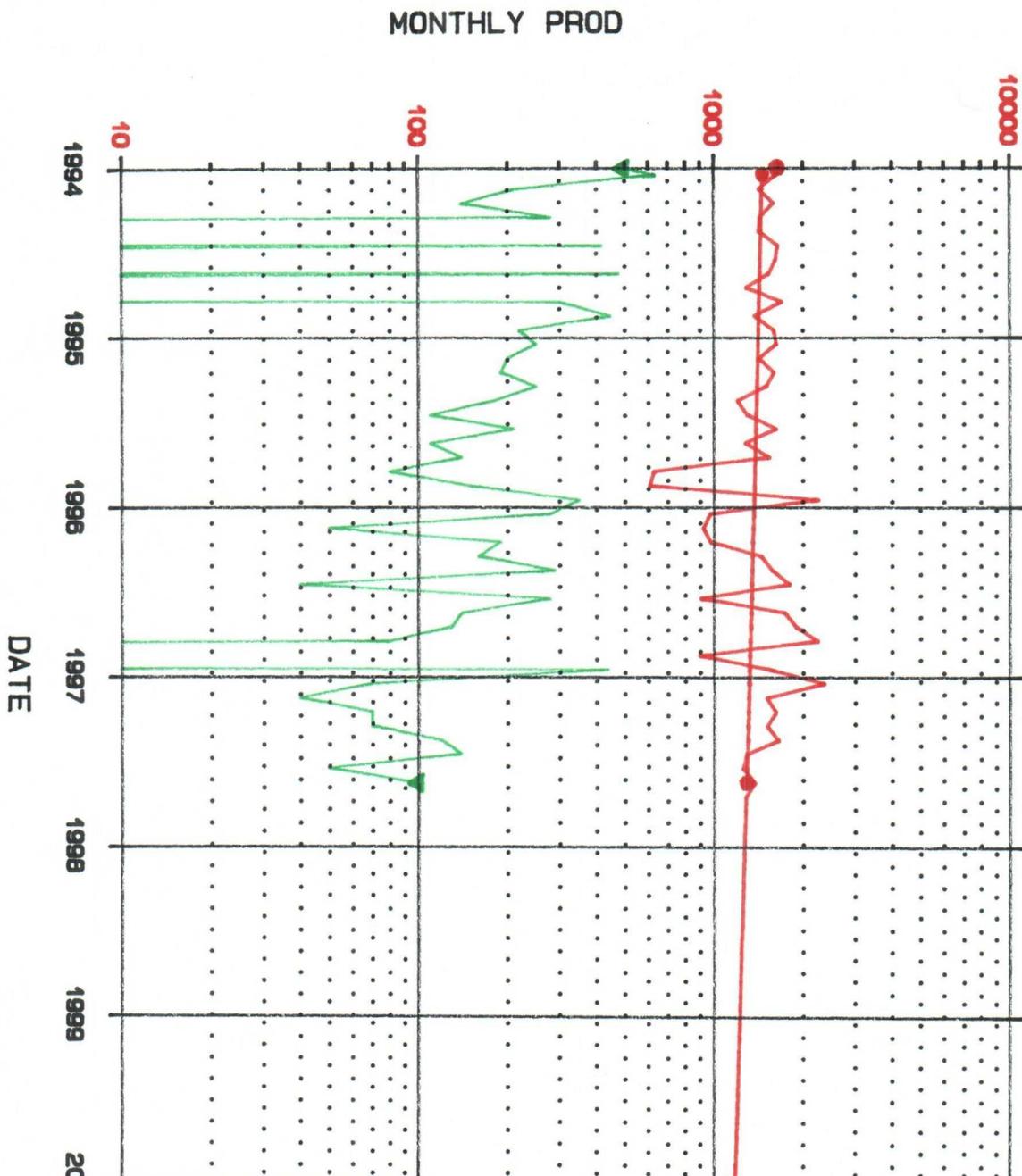
11/14/1997  
Project:  
HHD HARTMAN DAK

### Production Curves

GAS: • GAS PROD PROJECTION  
○ History 1/70 - 8/87  
1 CPD 9/87 - 8/17  
G1 : 1200.000 MCF/H  
D1 : 3.500 %  
G2 : 600.100 MCF/H  
D2 : 220.000 MCF  
Np : 80.000 MCF

• HISTORICAL DATA FIT  
CPD 1/84 - 8/87  
G1 : 1470.000 MCF/H  
D1 : 3.500 %  
G2 : 1200.000 MCF/H  
D2 : 80.000 MCF

CND: ▼ CONDENSATE DATA  
○ History 1/70 - 8/87



1000  
100  
10

DATE

1994 1995 1996 1997 1998 1999 2000

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)	
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	

ROBERT L. BAYLESS HELEN HARTMAN #1				
DAKOTA FORMATION FUTURE PRODUCTION FORECAST USING HISTORICAL TREND				
			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	JAN		1,139	11
42	FEB		1,136	11
43	MAR		1,133	10
44	APR		1,129	10
45	MAY		1,126	10
46	JUN		1,123	10
47	JUL		1,119	10
48	AUG		1,116	10
49	SEP		1,113	10
50	OCT		1,109	10
51	NOV		1,106	10
52	DEC		1,103	10
53	JAN		1,100	10
54	FEB		1,096	10
55	MAR		1,093	10
56	APR		1,090	10
57	MAY		1,087	10
58	JUN		1,083	10
59	JUL		1,080	10
60	AUG		1,077	10
61	SEP		1,074	10
62	OCT		1,071	10
63	NOV		1,067	10
64	DEC		1,064	10
65	JAN		1,061	10
66	FEB		1,058	10
67	MAR		1,055	10
68	APR		1,052	10
69	MAY		1,049	10
70	JUN		1,045	10
71	JUL		1,042	10
72	AUG		1,039	10
73	SEP		1,036	10
74	OCT		1,033	10
75	NOV		1,030	10
76	DEC		1,027	10
77	JAN		1,024	9
78	FEB		1,021	9
79	MAR		1,018	9
80	APR		1,015	9
81	MAY		1,012	9

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			GAS (MCF)	COND* (BBLS)
YEAR	MONTH			
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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		GAS (MCF)	COND* (BBLS)	
YEAR	MONTH			
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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YEAR	MONTH	GAS (MCF)	COND* (BBLS)	
163	MAR	793	7	
164	APR	791	7	
165	MAY	788	7	
166	JUN	786	7	
167	JUL	784	7	
168	AUG	782	7	
169	SEP	779	7	
170	OCT	777	7	
171	NOV	775	7	
172	DEC	772	7	
173	JAN	770	7	
174	FEB	768	7	
175	MAR	765	7	
176	APR	763	7	
177	MAY	761	7	
178	JUN	759	7	
179	JUL	756	7	
180	AUG	754	7	
181	SEP	752	7	
182	OCT	750	7	
183	NOV	747	7	
184	DEC	745	7	
185	JAN	743	7	
186	FEB	741	7	
187	MAR	739	7	
188	APR	736	7	
189	MAY	734	7	
190	JUN	732	7	
191	JUL	730	7	
192	AUG	728	7	
193	SEP	726	7	
194	OCT	723	7	
195	NOV	721	7	
196	DEC	719	7	
197	JAN	717	7	
198	FEB	715	7	
199	MAR	713	7	
200	APR	711	7	
201	MAY	709	7	
202	JUN	706	7	
203	JUL	704	7	

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YEAR	MONTH	GAS (MCF)	COND* (BBLs)	
204	AUG	702	7	
205	SEP	700	6	
206	OCT	698	6	
207	NOV	696	6	
208	DEC	694	6	
209	JAN	692	6	
210	FEB	690	6	
211	MAR	688	6	
212	APR	686	6	
213	MAY	684	6	
214	JUN	682	6	
215	JUL	680	6	
216	AUG	678	6	
217	SEP	676	6	
218	OCT	674	6	
219	NOV	672	6	
220	DEC	670	6	
221	JAN	668	6	
222	FEB	666	6	
223	MAR	664	6	
224	APR	662	6	
225	MAY	660	6	
226	JUN	658	6	
227	JUL	656	6	
228	AUG	654	6	
229	SEP	652	6	
230	OCT	650	6	
231	NOV	648	6	
232	DEC	646	6	
233	JAN	644	6	
234	FEB	642	6	
235	MAR	641	6	
236	APR	639	6	
237	MAY	637	6	
238	JUN	635	6	
239	JUL	633	6	
240	AUG	631	6	

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November 17, 1997

**Certified Mail - Return Receipt Requested**

TO: All Interested Parties Entitled To Notice

RE: Application for Downhole Commingling - Amended Attachments  
Robert L. Bayless  
Helen Hartman #1  
1190' FSL and 1190' FEL  
Section 8, T30N R11W  
San Juan County, New Mexico

Gentlemen:

Recently you were sent Robert L. Bayless' Application to Downhole Commingle the Dakota and Mesa Verde formations in the Helen Hartman #1 well referenced above. After several conversations with other interest owners in this well, we have revised the Dakota formation future production forecast. Enclosed is an amended Attachment #3 (Dakota Formation Decline Curve) and an amended Attachment #5 (Estimated Future Production for the Dakota Formation), both of which reflect these revisions. Please update your copy of this application by replacing the original attachments with these amended attachments.

This information is being sent to you in fulfillment of New Mexico Oil Conservation Division Rules requiring notification to all offset operators as well as working, royalty, and overriding royalty interest owners of this well. As an party whose interest may be affected by this application, Robert L. Bayless is notifying you of your right to support or oppose this action to the New Mexico Oil Conservation Division, 2040 South Pacheco, Santa Fe, New Mexico 87504. Your participation in this case must be noted within 20 days of receipt of this notice. Failure to respond within this time frame may preclude you from any involvement in this application at a later date.

If you have any questions concerning this application, please contact me at the above letterhead address.

Sincerely,



Kevin H. McCord  
Petroleum Engineer

Attachments