

IPI 10/14/03

DRC

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DRC

BURK ROYALTY INVESTMENT CO., LLC
GENERAL PARTNER

RECEIVED

October 3, 2003

OCT 14 2003

OIL CONSERVATION
DIVISION

215

State of New Mexico
Oil Conservation Division
Energy and Minerals Department
P. O. Box 2088
Santa Fe, New Mexico 87501

Attention: David Catanach

Dear David,

The Cruces #3 will not take the amount of water we want to inject into it at or below the permitted pressure limit. In order to increase the permit pressure limit, we conducted a step rate test. It is attached. The Hobbs Oil Conservation Division was notified September 25, 2003 about the test. The test was run on September 30, 2003. We used Key Service's pump truck to conduct the test. The graph of the data shows the well does not fracture until 1680#. Please accept this test to increase the permit pressure to a surface pressure of 1600#. Should you have any questions regarding this request, please feel free to contact the undersigned.

Sincerely yours,

Charles Gibson
Petroleum Engineer

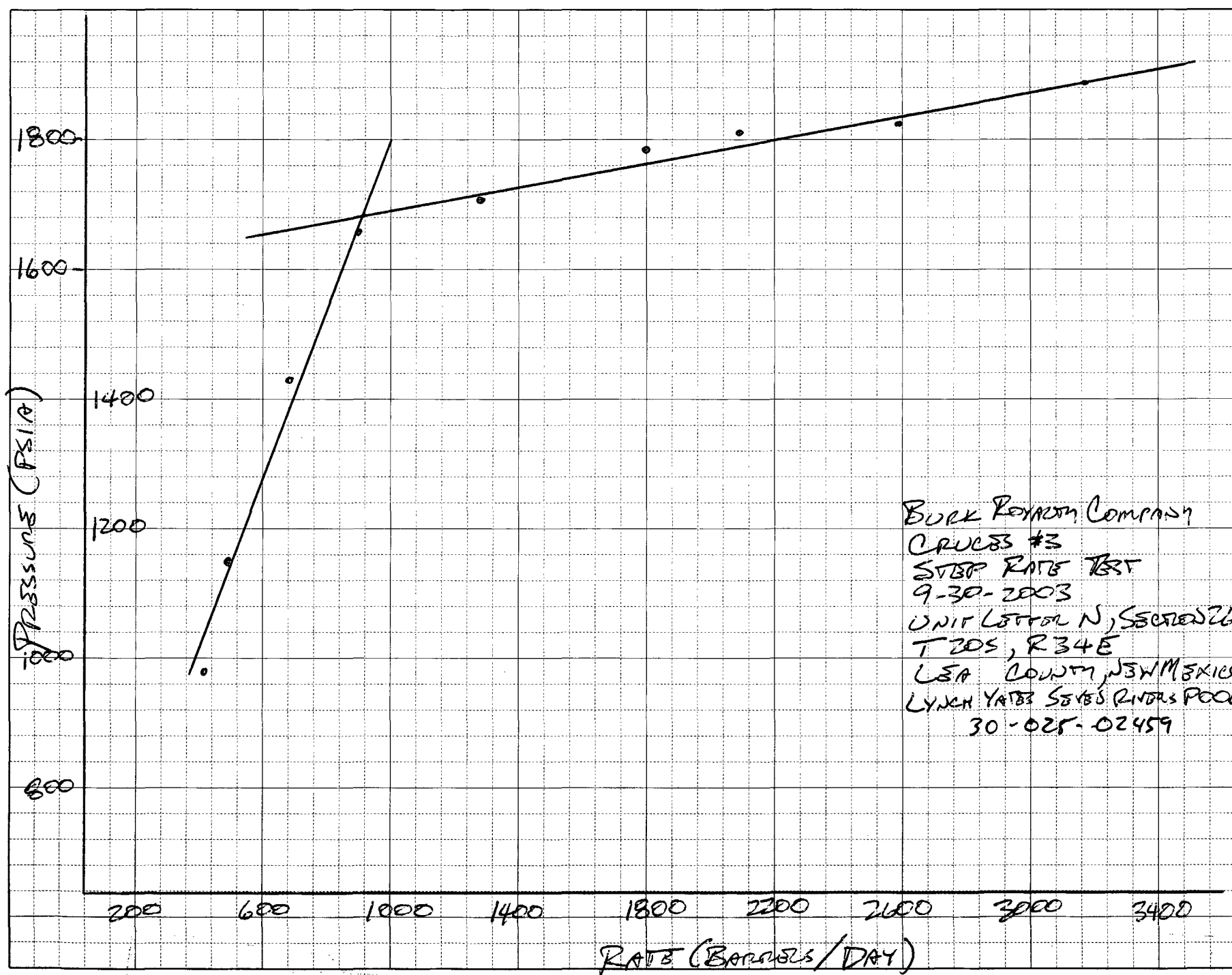
CG/tl
Attach.

LOCATION

DATE

SUBJECT

SHEET NO.



BURK ROYALTY CO.
 CRUCES #3 STEP RATE INJECTION TEST
 LEA COUNTY, NEW MEXICO

STEP #	TIME	INJ RATE (BPD)	CUM INJ (BBLs)	SURFACE		CORRECTED PRESSURE (PSI)
				TBG PRESS (PSI)	FRICTION (PSI)	
1	2:30	374.4	0	966	4.8	961.2
	2:35	411.8	1.3	984	5.5	978.5
	2:40	411.8	2.7	984	5.5	978.5
	2:45	411.8	4	984	5.5	978.5
2	2:50	524.2	5.7	1164	11	1153
	2:55	486.7	7.3	1164	9.6	1154.4
	3:00	486.7	9	1174	9.6	1164.4
3	3:05	681.4	11.3	1448	17.2	1430.8
	3:10	681.4	13.8	1454	18	1436
	3:15	681.4	16.2	1454	18	1436
4	3:20	898.6	19.3	1684	25.2	1658.8
	3:25	898.6	22.2	1684	25.2	1658.8
	3:30	898.6	25.1	1684	25.2	1658.8
5	3:35	1273	29.6	1744	47.7	1696.3
	3:40	1273	34.1	1754	47.7	1706.3
	3:45	1310.4	39.4	1754	48.4	1705.6
6	3:50	1800	45.8	1884	96.5	1787.5
	3:55	1800	52.2	1884	96.5	1787.5
	4:00	1800	58.6	1890	96.5	1793.5
7	4:05	2096.6	65.8	1934	124.1	1809.9
	4:10	2096.6	72.9	1934	124.1	1809.9
	4:15	2096.6	80.4	1934	124.1	1809.9
8	4:20	2592	88.3	1984	165.5	1818.5
	4:25	2592	96.5	1986	165.6	1820.6
	4:30	2592	104	1986	165.6	1820.6
9	4:35	3168	112.1	2144	258	1886
	4:40	3168	120.3	2144	258	1886