

Step Rate Test



Cardinal Surveys Company

March 30, 2004

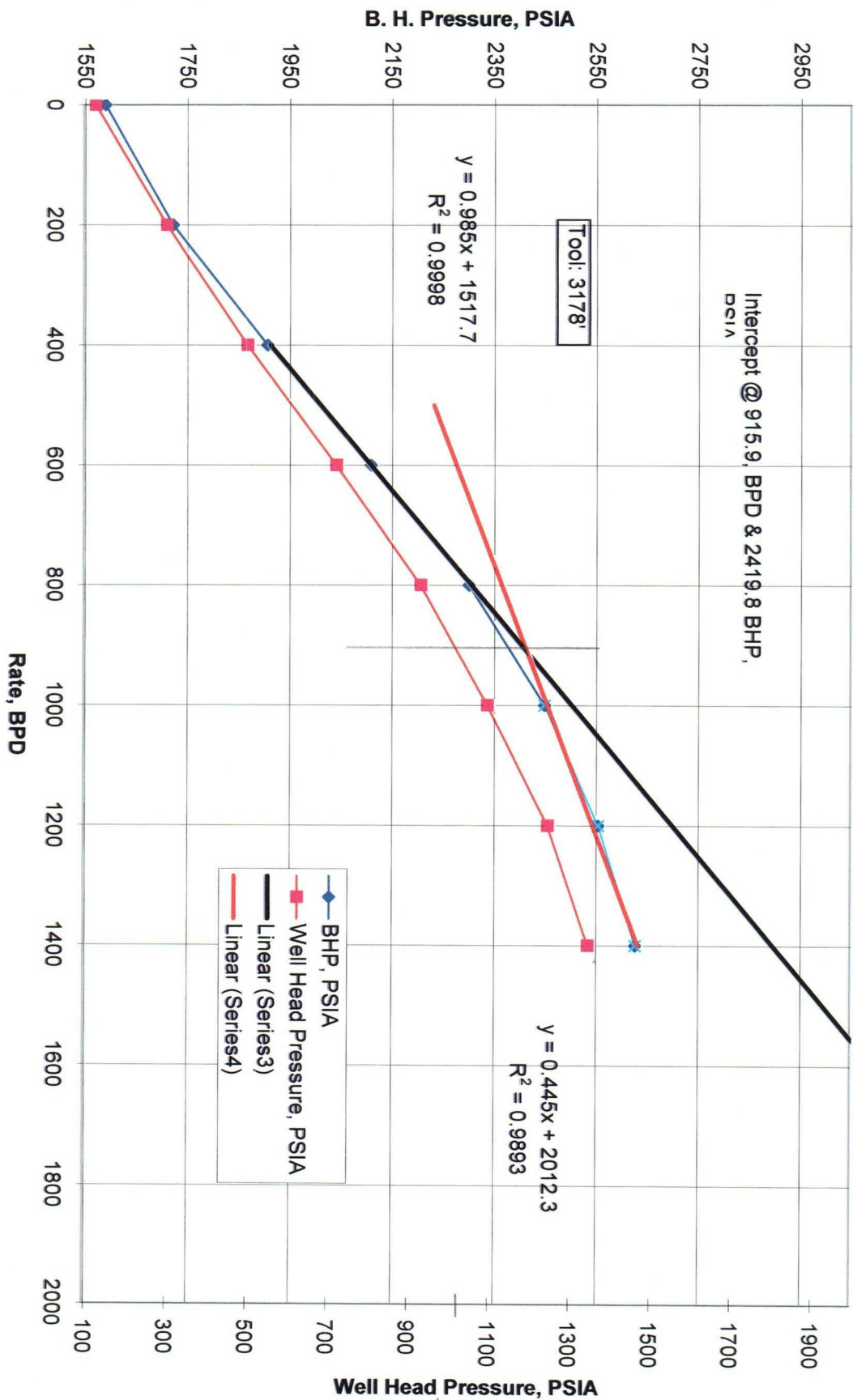
Chesapeake Energy Corporation
W T U # 433
West Texas Field
"J" Section 4, T20S, R33E
Lea County, New Mexico
GL. 3556' KB 3573'

Downhole PSI Tool Ser. No.
Surface PSI Gauge Ser. No.

8:15 AM Arr. Loc.
6:27 PM On Bottom
6:35-7:35 200
7:35-8:35 400
8:35-9:35 600
9:35-10:35 800
10:35-11:35 1000
11:35-12:35 1200
12:35-1:35 1400
1:45 AM POH
2:30 AM Leave Location



Chesapeake Energy Corporation, W T U #433
Step Rate Test 4-1-2004



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Step Rate Test

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W T U # 433
West Texas Field
Lea County, New Mexico



	S Time	E Time	D Time Min	Last Rate BPD	Step BPD	Last BHP PSIA	Last Surf PSIA	Cum BBL	Delta BBL	Avg BPD	Lower	upper
1	6:35 PM	7:35 PM	1:00:00	200	0	1593	129.6	0		396		
2	7:35 PM	8:35 PM	1:00:00	400	200	1725	305.8	8.25	16.43	394.32	1910	
3	8:35 PM	9:35 PM	1:00:00	600	200	1910	505.3	24.68	24.82	595.68	2112	
4	9:35 PM	10:35 PM	1:00:00	800	200	2112	725.3	49.5	33.6	806.4	2304	
5	10:35 PM	11:35 PM	1:00:00	1000	200	2304	934.6	83.1	41	984		2452
6	11:35 PM	12:35 AM	1:00:00	1200	200	2452	1100	124.1	50.2	1204.8		2557
7	12:35 AM	1:35 AM	1:00:00	1400	200	2557	1250	174.3	60.4	1449.6		2630

0.985 1517.7
0.445 2012.3
inter point: 915.9259 BPD
2419.887 Pressure



Chesapeake Operating, Inc., WTU # 433
Step Rate Test Raw Data 4-1-2004

