

Step Rate Test



Cardinal Surveys Company

06/23/04

Chesapeake Energy Corporation
W T U # 945
West Texas Field
Section 9, T20S, R33E
Lea County, New Mexico
GL. 3553' KB 3569'
Tool @ 3142'

Downhole PSI Tool Ser. No. 71070
Surface PSI Gauge Ser. No.

Fracture @ 2309, BPD & 2946 BHP, PSIA

8:00 AM	Arr. Loc.
9:40 AM	On Bottom
9:40-9:45	0
9:45-10:45	500
10:45-11:45	1000
11:45-12:45	1500
12:45-1:45	2000
1:45-2:45	2500
2:45-3:45	3000
4:00 PM	start out of hole out of hole & leave location

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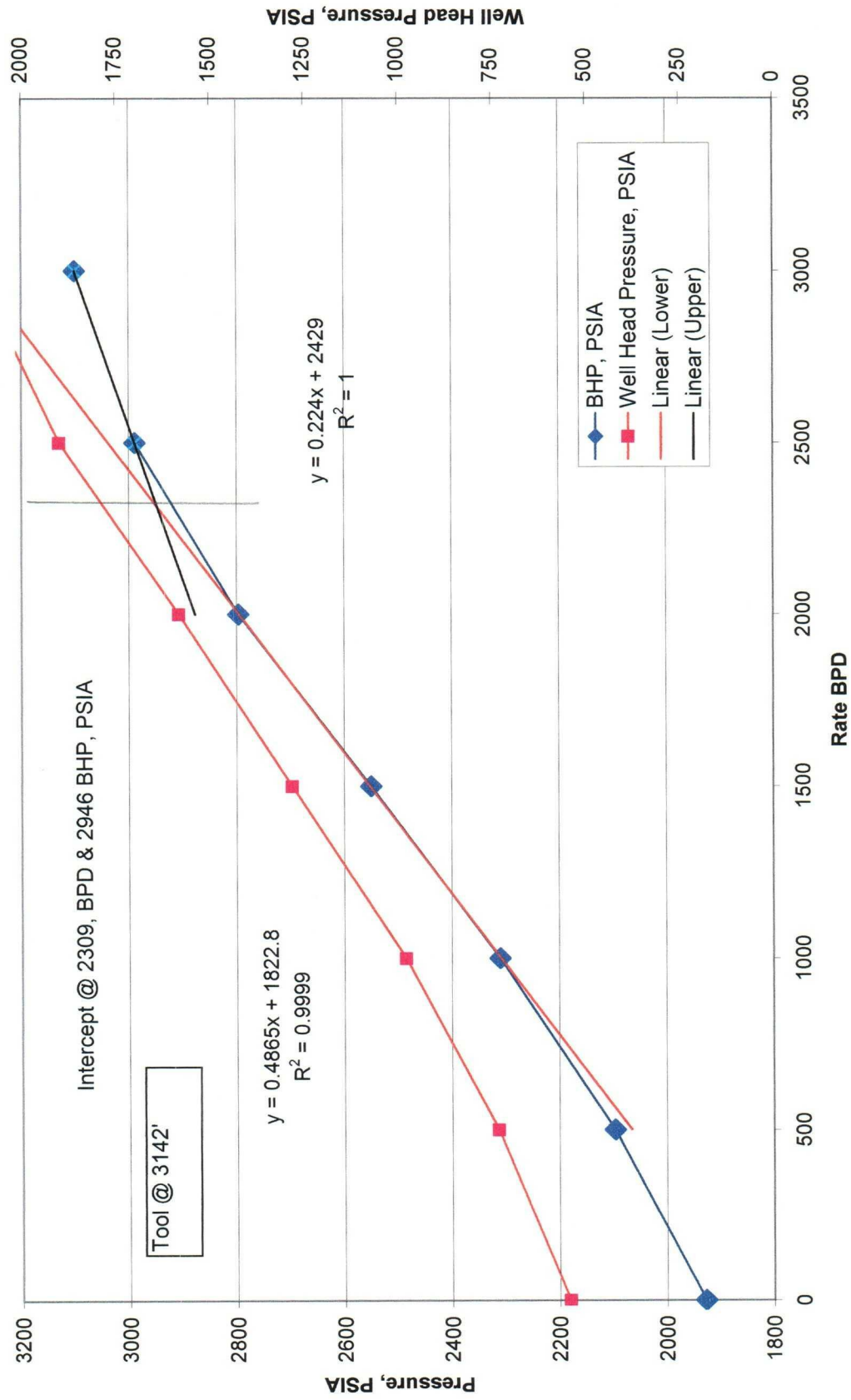


	S Time	E Time	D Time Min	Last Rate BPD	Step BPD	Last BHP		Last Surf		Cum BBL	Delta BBL	Avg BPD	Lower upper	
						PSIA	PSIA	PSIA	PSIA					
	9:40 AM	9:45 AM	0:05:00	0	0	0	1928	544.3	0	0	0			
1	9:45 AM	10:45 AM	1:00:00	500	500	2096.6	734	21.1	21.1	21.1	506.4			
2	10:45 AM	11:45 AM	1:00:00	1000	500	2310.5	979.4	41.4	41.4	62.5	993.6	2310.5		
3	11:45 AM	12:45 PM	1:00:00	1500	500	2550	1281.3	60.9	60.9	123.4	1461.6	2550		
4	12:45 PM	1:45 PM	1:00:00	2000	500	2797	1582.2	83.9	83.9	207.3	2013.6	2797		
5	1:45 PM	2:45 PM	1:00:00	2500	500	2989	1899.6	103	103	310.3	2472	2989		
6	2:45 PM	3:45 PM	1:00:00	3000	500	3101	2118	119	119	429.3	2856	3101		

Int Point: 0.224 2429
0.4865 1822.8
2309.333 BPD
2946.291 Pressure



Chesapeake Energy Inc., WTU #945
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Step Rate Test Raw Data 6-23-2004

