Submit 3 Copies To Appropriate District Office
District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

RECEIVED
JUL 09 2008
HOBBS OCD

Form C-103
May 27, 2004

WELL API NO.	
5. Indicate Type of Lease	STATE ☐ FEE ☒
6. State Oil & Gas Lease No.	

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

7. Lease Name or Unit Agreement Name	WTYSR Unit Wells: 443,641,912,913,921, 924,941,945
1. Type of Well: Oil Well ☐ Gas Well ☐ Other	Injection Wells
8. Well Number	
2. Name of Operator	Chesapeake Operating, Inc.
9. OGRID Number	147179
3. Address of Operator	P.O. Box 18496, Oklahoma City, OK 73154-0496
10. Pool name or Wildcat	Teas (Yates-Seven Rivers), West

4. Well Location
Unit Letter_____: _____ feet from the _____ line and _____ feet from the _____ line
Section 4 & 9 Township 20S Range 33E NMPM County Lea

11. Elevation *(Show whether DR, RKB, RT, GR, etc.)*

Pit or Below-grade Tank Application ☐ or Closure ☐
Pit type_____ Depth to Groundwater_____ Distance from nearest fresh water well_____ Distance from nearest surface water_____
Pit Liner Thickness: _____ mil Below-Grade Tank: Volume _____ bbls; Construction Material _____

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
OTHER:Injection Pressure Increase ☒		OTHER: ☐	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Chesapeake Operating, Inc. respectfully requests to increase the injection pressure on eight wells in the West Teas (Yates-Seven Rivers) Waterflood Unit Area.
For your review, please find the attached application letter along with step rates tests performed for each well.
Copies of this application have been submitted to the Hobbs New Mexico Oil Conservation Division office.

WEST TEAS YATES SEVEN RIVERS UNIT No. 443 3002535976 I-4-20S-33E 1855 FSL & 660 FEL
WEST TEAS YATES SEVEN RIVERS UNIT No. 641 3002533144 A-4-20S-33E 330 FNL & 330 FEL
WEST TEAS YATES SEVEN RIVERS UNIT No. 912 3002529971 E-9-20S-33E 1980 FNL & 660 FWL
WEST TEAS YATES SEVEN RIVERS UNIT No. 913 3002529972 L-9-20S-33E 1980 FSL & 660 FWL
WEST TEAS YATES SEVEN RIVERS UNIT No. 921 3002531896 C-9-20S-33E 330 FNL & 2310 FWL
WEST TEAS YATES SEVEN RIVERS UNIT No. 924 3002536073 F-9-20S-33E 2560 FNL & 2210 FWL
WEST TEAS YATES SEVEN RIVERS UNIT No. 941 3002532217 A-9-20S-33E 330 FNL & 990 FEL
WEST TEAS YATES SEVEN RIVERS UNIT No. 945 3002536079 H-9-20S-33E 2612 FNL & 330 FEL

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE Doug Rubick TITLE Field Engineer DATE 07/08/2008

Type or print name Doug Rubick E-mail address:doug.rubick@chk.com Telephone No.(575)391-1462

For State Use Only

APPROVED BY: Chris Williams TITLE OC DISTRICT SUPERVISOR/GENERAL MANAGER DATE JUL 17 2008

Conditions of Approval (if any): Need approval of Santa Fe Office! CW

June 27, 2008

Will Jones
NMOCD
1220 South St. Francis Drive
Santa Fe, NM 87505

Dear Mr. Jones,

Chesapeake Energy respectfully requests to increase the injection pressure on eight wells in the West Teas Unit (WTU) waterflood. This waterflood has been active since 2003 and step rate tests have not been performed since 2004. Please see the table below for a summary of the current pressure limitations for the injection wells at the WTU waterflood.

Well	API	Inj Press Limit	Order	Order Date	Comments
WTU 433	3002532032	968	IPI-244	10/19/2004	Division Order for increased injection pressure after SRT.
WTU 443	3002535976	631	WFX-791	7/24/2003	Administrative Order based on 0.2 psi/ft
WTU 641	3002533144	632	WFX-791	7/24/2003	Administrative Order based on 0.2 psi/ft
WTU 912	3002529971	1,200	IPI-244	10/19/2004	Division Order for increased injection pressure after SRT.
WTU 913	3002529972	903	IPI-244	10/19/2004	Division Order for increased injection pressure after SRT.
WTU 921	3002531896	998	IPI-244	10/19/2004	Division Order for increased injection pressure after SRT.
WTU 924	3002536073	1,197	IPI-244	10/19/2004	Division Order for increased injection pressure after SRT.
WTU 941	3002532217	615	WFX-791	7/24/2003	Administrative Order based on 0.2 psi/ft. The SRT for this well was inconclusive from IPI-244 and increase request denied.
WTU 945	3002536079	1,200	IPI-244	10/19/2004	Division Order for increased injection pressure after SRT.

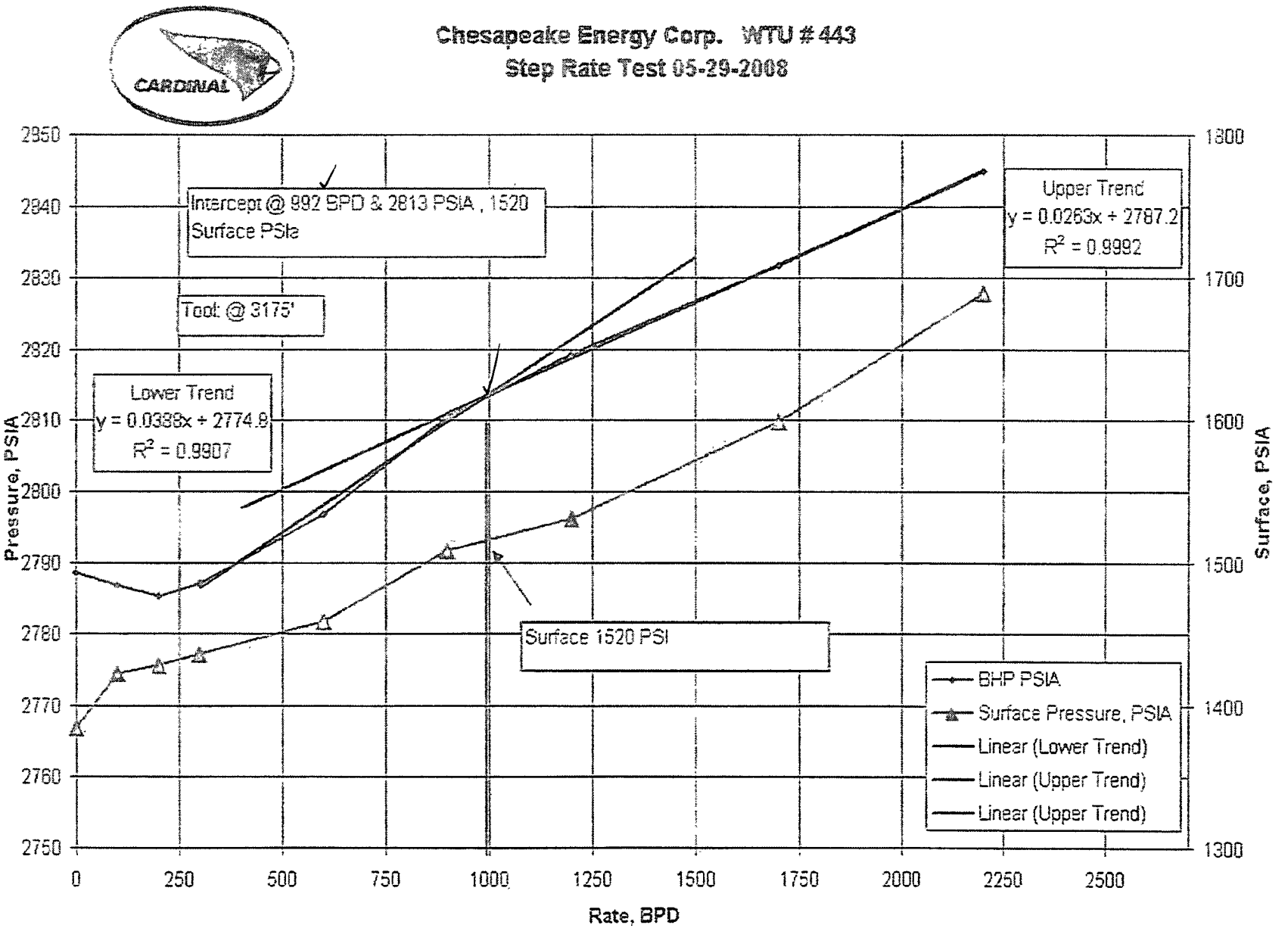
Step rate tests were performed on all nine of the injectors between May 22nd and June 4th, 2008. Eight of the nine test results indicate there is room for an increase in maximum injection pressure. Results from each step rate test are attached and summarized in the table below.

Well	API	Fracture Pressure	Requested Inj Press Limit	Date SRT Ran
WTU 443	3002535976	1,520	1,470	5/29/2008
WTU 641	3002533144	1,854	1,804	6/4/2008
WTU 912	3002529971	1,802	1,752	6/2/2008
WTU 913	3002529972	1,802	1,752	6/3/2008
WTU 921	3002531896	1,572	1,522	5/28/2008
WTU 924	3002536073	1,720	1,670	5/27/2008
WTU 941	3002532217	1,360	1,310	5/23/2008
WTU 945	3002536079	1,845	1,795	5/22/2008

Should you require further information or have any questions, please call Doug Rubick at 505-391-1462.

Sincerely,

Doug Rubick
Field Engineer


Chesapeake Energy Corp. WTU # 443
Step Rate Test 05-29-2008
CARDINAL
Intercept @ 992 BPD & 2813 PSIA , 1520 Surface PSIa
Tool @ 3175'
Lower Trend
y = 0.0338x + 2774.9
R² = 0.9907
Upper Trend
y = 0.0263x + 2787.2
R² = 0.9992
Surface 1520 PSI
BHP PSIA
Surface Pressure, PSIA
Linear (Lower Trend)
Linear (Upper Trend)
Linear (Upper Trend)
Pressure, PSIA
Surface, PSIA
Rate, BPD
2850
2840
2830
2820
2810
2800
2790
2780
2770
2760
2750
1800
1700
1600
1500
1400
1300
0
250
500
750
1000
1250
1500
1750
2000
2250
2500

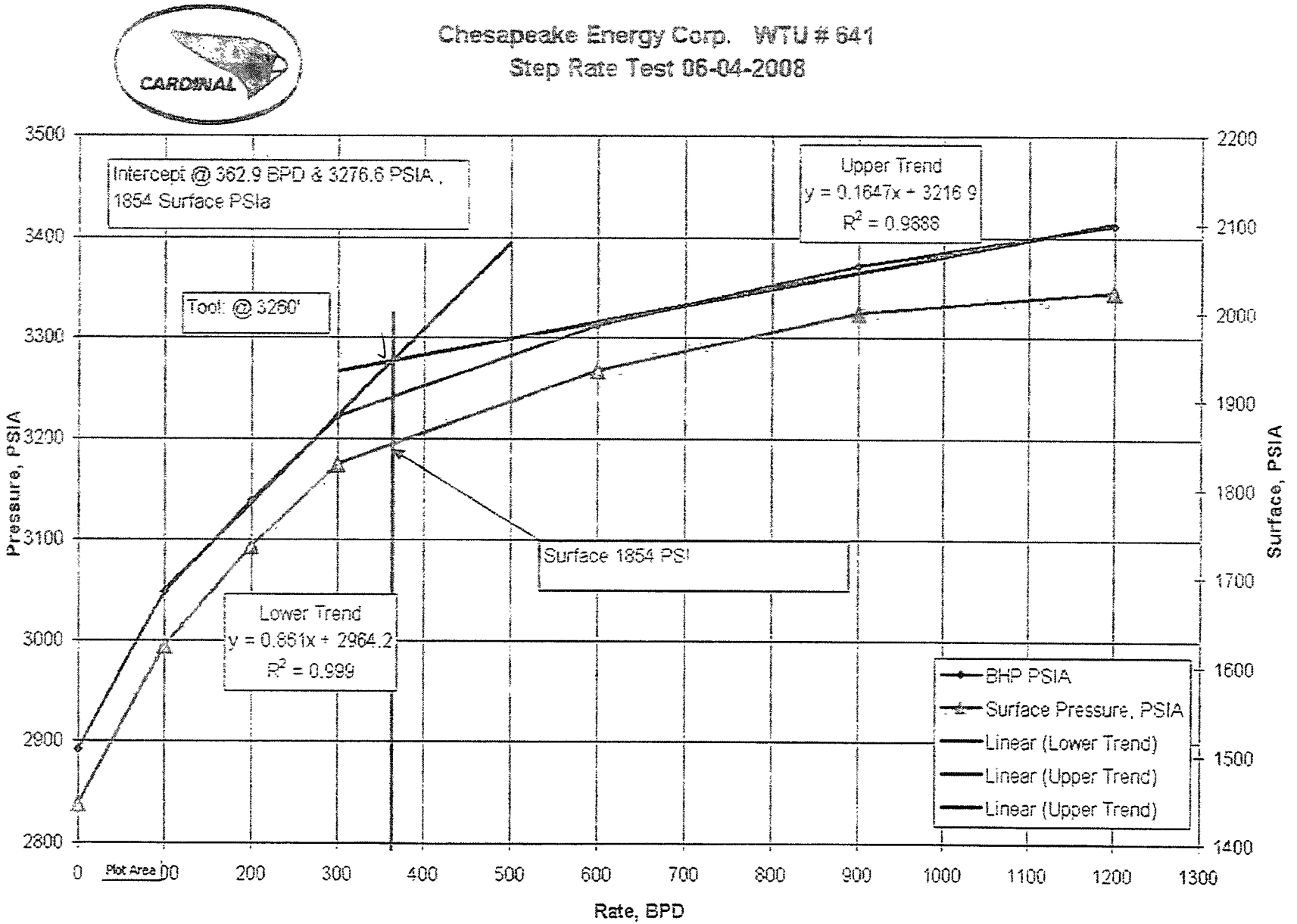
Step Rate Test

Chesapeake Energy
WTU = 443
Field
Lea County, NM

	S Time	E Time	D Time Min	Last Rate BPD	Step BPD	B. H. Pressure PSIA	Surf PSIA	Cum BBL	Delta BBL	Avg. BPD	Lower Trend	Upper Trend
1	8:31 AM	8:45 AM	14	0	0	2786.6	1364	0	0	0		
2	8:45 AM	9:45 AM	60	100	100	2786.9	1421.3	7.3	7.3	175		
3	9:45 AM	10:45 AM	60	200	100	2785.3	1428.3	16.3	9	216		
4	10:45 AM	11:45 AM	60	300	100	2787.1	1435.4	29.6	13.3	319	2787.1	
5	11:45 AM	12:45 PM	60	600	300	2796.8	1456.8	54.4	24.8	595	2796.8	
6	12:45 PM	1:45 PM	60	900	300	2810.4	1509.2	43	-11.4	-274	2810.4	2810.4
7	1:45 PM	2:45 PM	60	1200	300	2819.3	1531.3	142.3	99.3	2383		2819.3
8	2:45 PM	3:45 PM	60	1700	500	2831.9	1599.3	214.6	72.3	1735		2831.9
9	3:45 PM	4:45 PM	60	2200	500	2844.9	1688.9	305.2	91.6	2198		2844.9
10	4:45 PM	5:45 PM	60	2700								

0.0388 2774.8
0.0263 2787.2

Int point: 992 BPD
2813.2896 Psia


CARDINAL
Chesapeake Energy Corp. WTU # 641
Step Rate Test 06-04-2008
Intercept @ 362.9 BPD & 3276.6 PSIA ,
1854 Surface PSIa
Tool: @ 3260'
Upper Trend
y = 0.1647x + 3216.9
R2 = 0.9688
Surface 1854 PSI
Lower Trend
y = 0.861x + 2964.2
R2 = 0.999
BHP PSIA
Surface Pressure, PSIA
Linear (Lower Trend)
Linear (Upper Trend)
Linear (Upper Trend)
Pressure, PSIA
Surface, PSIA
Rate, BPD
Plot Area
3500
3400
3300
3200
3100
3000
2900
2800
2200
2100
2000
1900
1800
1700
1600
1500
1400
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300

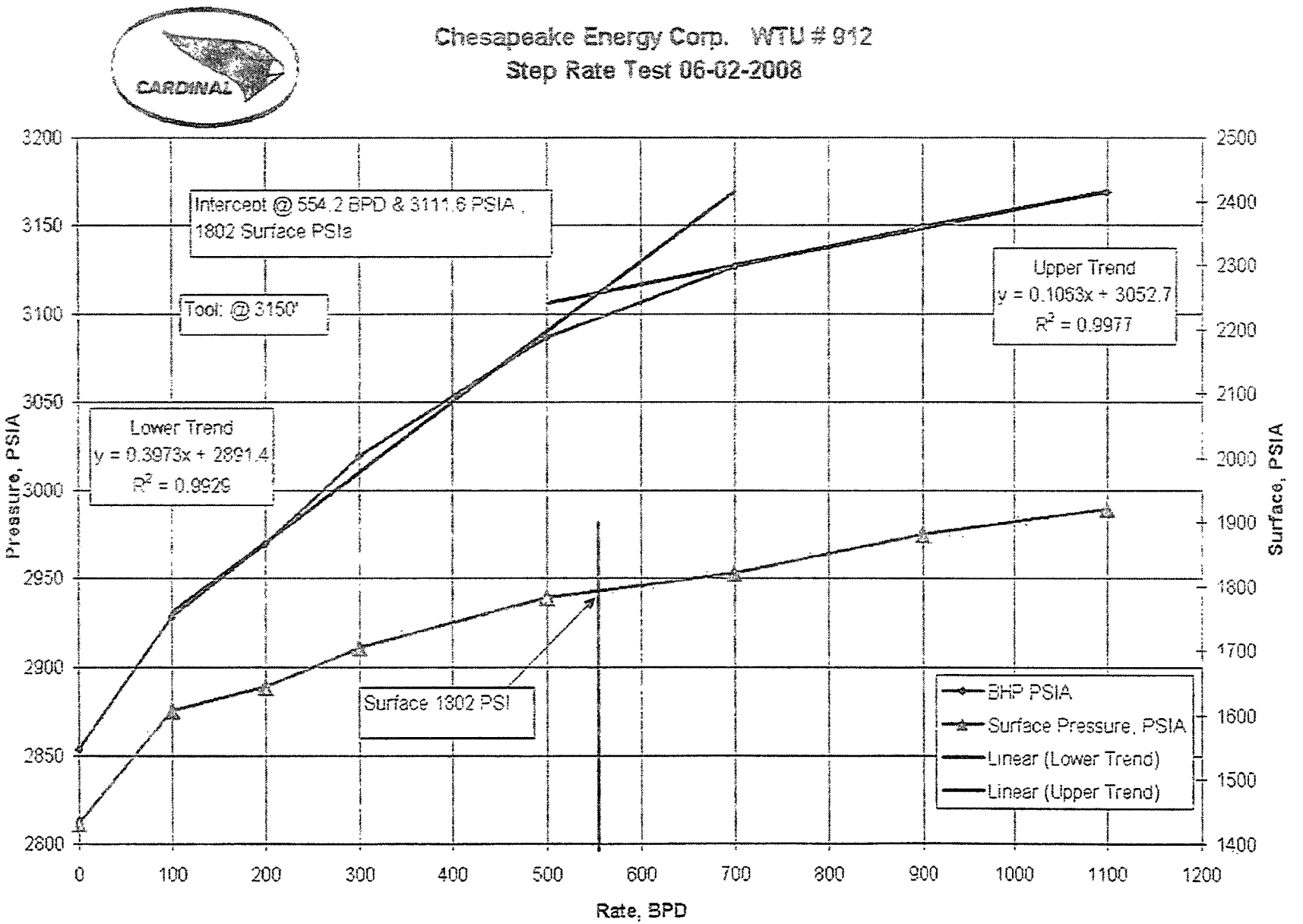
Step Rate Test

Chesapeake Energy
WTU # 641
Field: West Teas
Lea County, NM

	S Time	E Time	D Time Min	Last Rate BPD	Step BPD	B. H. Pressure PSIA	Surf PSIA	Cum BBL	Delta BBL	Avg. BPD	Lower Trend	Upper Trend
1	8:29 AM	8:45 AM	16	0	0	2891.8	1444.6	0	0	0		
2	8:45 AM	9:45 AM	60	100	100	3048.8	1622.5	6.1	6.1	146	3048.8	
3	9:45 AM	10:45 AM	60	200	100	3139.5	1736.2	15	8.9	214	3139.5	
4	10:45 AM	11:45 AM	60	300	100	3221	1826.5	28.4	13.4	322	3221	
5	11:45 AM	12:45 PM	60	600	300	3312.7	1934.1	51.6	23.2	557		3312.7
6	12:45 PM	1:45 PM	60	900	300	3371.2	1999.4	89	37.4	898		3371.2
7	1:45 PM	2:45 PM	60	1200	300	3411.5	2022.4	139	50	1200		3411.5
8	2:45 PM	3:00 PM	15	0	-1200	3334	1940	139	0	0		

	0.861	2964.2
	0.1647	3216.9

Int point: 362.91828 BPD
3275.5726 Psia


Chesapeake Energy Corp. WTU # 912
Step Rate Test 06-02-2008
CARDINAL
Intercept @ 554.2 BPD & 3111.6 PSIA ,
1802 Surface PSIa
Tool: @ 3150'
Upper Trend
y = 0.1063x + 3052.7
R2 = 0.9977
Lower Trend
y = 0.3973x + 2891.4
R2 = 0.9929
Surface 1302 PSI
BHP PSIA
Surface Pressure, PSIA
Linear (Lower Trend)
Linear (Upper Trend)
Pressure, PSIA
Surface, PSIA
Rate, BPD
3200
3150
3100
3050
3000
2950
2900
2850
2800
2500
2400
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400
0
100
200
300
400
500
600
700
800
900
1000
1100
1200

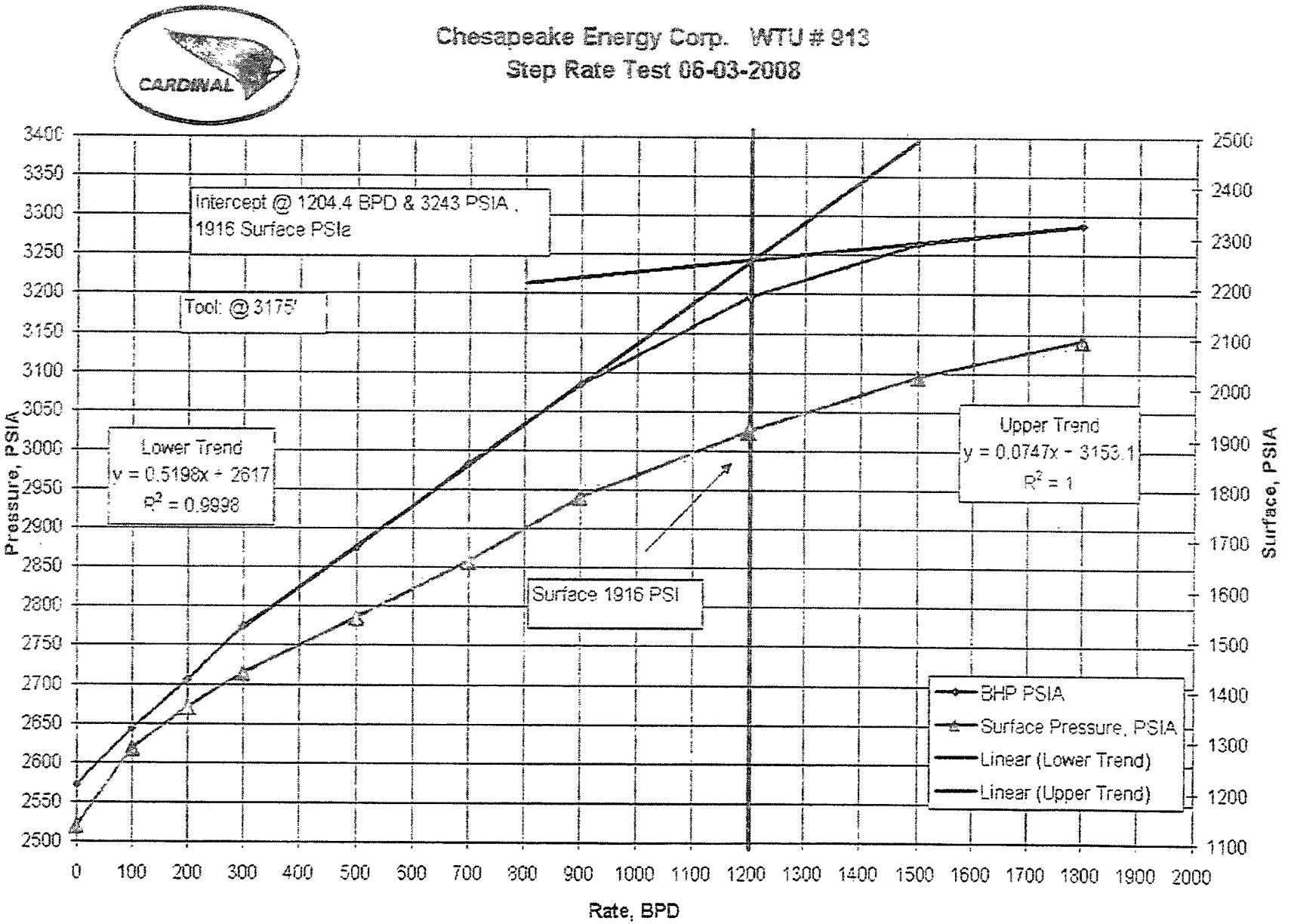
Step Rate Test

Chesapeake Energy
WTU # 912
Field:
Lea County, NM

	S Time	E Time	D Time Min	Last Rate BPD	Step BPD	S. H. Pressure PSIA	Surf PSIA	Cum BBL	Delta BBL	Avg. BPD	Lower Trend	Upper Trend
1	8:48 AM	9:00 AM	12	0	0	2853.6	1432.9	0	0	0		
2	9:00 AM	10:00 AM	60	100	100	2928	1607	3.5	8.5	204	2928	
3	10:00 AM	11:00 AM	60	200	100	2969.4	1642.8	17.4	8.9	214	2969.4	
4	11:00 AM	12:00 PM	60	300	100	3019.1	1704.1	30.3	12.9	310	3019.1	
5	12:00 PM	1:00 PM	60	500	200	3086.2	1782.5	52.3	22	525	3086.2	
6	1:00 PM	2:00 PM	60	700	200	3126.5	1821.1	81.2	28.9	694		3126.5
7	2:00 PM	3:00 PM	60	900	200	3149.5	1860.9	120.1	38.9	934		3149.5
8	3:00 PM	4:00 PM	60	1100	200	3169	1922.1	165.5	45.4	1090		3169
9	4:00 PM	5:00 PM	60	0	-1100	3125	1797	165.5	0	0		

0.3973 2891.4
0.1063 3052.7

Int point: 554.29553 BPD
3111.6218 Psia


Chesapeake Energy Corp. WTU # 913
Step Rate Test 06-03-2008
CARDINAL
Intercept @ 1204.4 BPD & 3243 PSIA ,
1916 Surface PSIa
Tool: @ 3175'
Lower Trend
y = 0.5198x + 2617
R² = 0.9998
Upper Trend
y = 0.0747x + 3153.1
R² = 1
Surface 1916 PSI
BHP PSIA
Surface Pressure, PSIA
Linear (Lower Trend)
Linear (Upper Trend)
Pressure, PSIA
Surface, PSIA
Rate, BPD
3400
3350
3300
3250
3200
3150
3100
3050
3000
2950
2900
2850
2800
2750
2700
2650
2600
2550
2500
2500
2400
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100
0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000

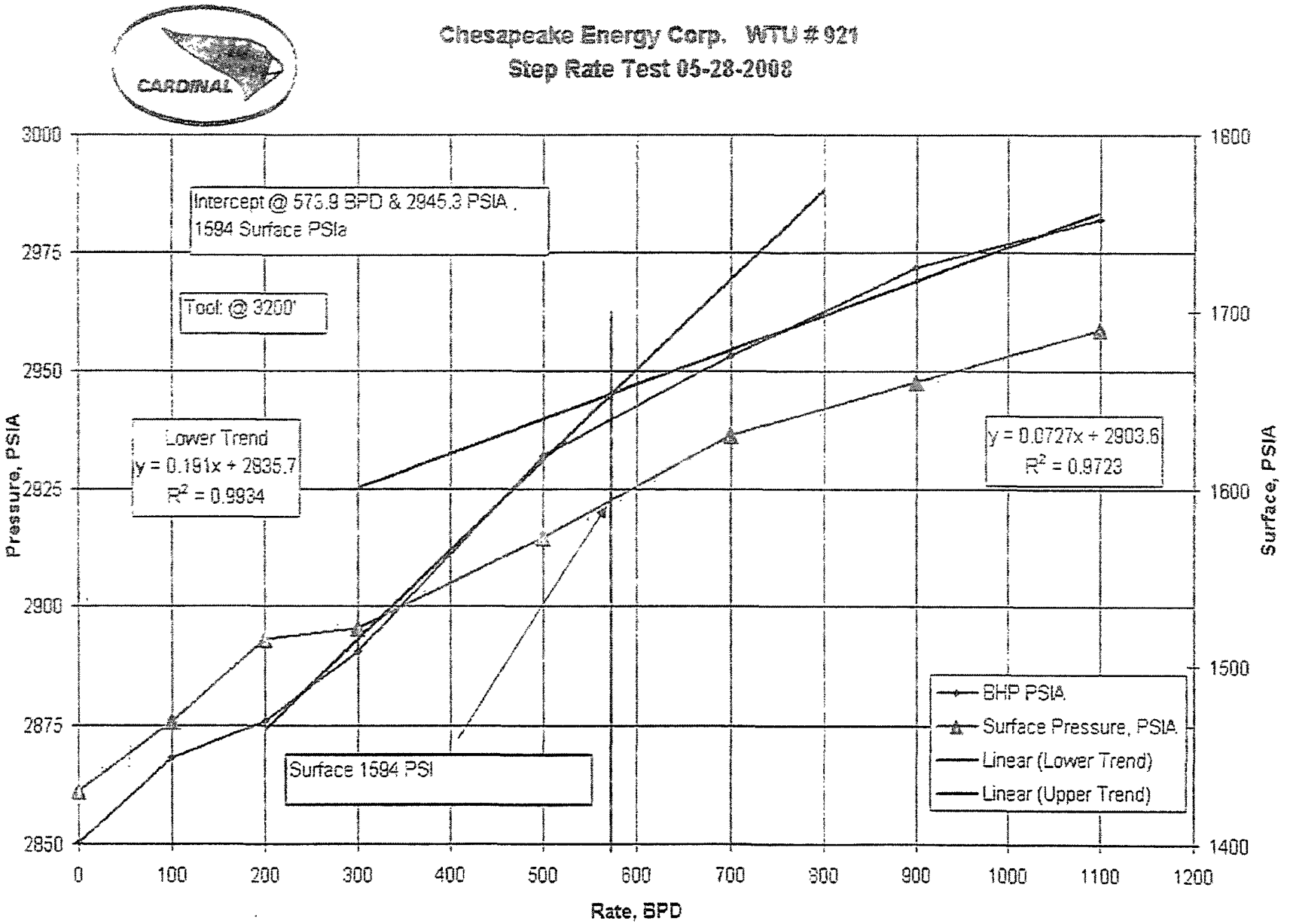
Step Rate Test

Chesapeake Energy
WTU # 913
Field:
Lea County, NM

	S Time	E Time	D Time Min	Last Rate BPD	Step BPD	S. H. Pressure PSIA	Surf PSIA	Cum BBL	Delta BBL	Avg. BPD	Lower Trend	Upper Trend
1	8:51 AM	9:00 AM	9	0	0	2571.9	1131.4	0	0	0		
2	9:00 AM	10:00 AM	60	100	100	2643.1	1283	5.7	5.7	137		
3	10:00 AM	11:00 AM	60	200	100	2705	1366.8	14.7	9	216		
4	11:00 AM	12:00 PM	60	300	100	2773.8	1433.3	28	13.3	319	2773.8	
5	12:00 PM	1:00 PM	60	500	200	2874.6	1545.5	49.4	21.4	514	2874.6	
6	1:00 PM	2:00 PM	60	700	200	2983	1657.9	78.6	29.2	701	2983	
7	2:00 PM	3:00 PM	60	900	200	3084.2	1766.5	116.6	38	912	3084.2	
8	3:00 PM	4:00 PM	60	1200	300	3195.7	1918.8	168.5	51.9	1246		
9	4:00 PM	5:00 PM	60	1500	300	3285.1	2025.1	231.1	62.6	1502		3285.1
10	5:00 PM	6:00 PM	60	1800	300	3287.5	2098.1	308.5	77.4	1858		3287.5
11	6:00 PM	6:15 PM	15	0	-1800	3182	1818	308.5	0	0		

	0.5198	2617
	0.0747	3153.1

Int point: 1204.4484 BPD
3243.0723 Psia


Chesapeake Energy Corp. WTU # 921
Step Rate Test 05-28-2008
CARDINAL
Intercept @ 573.9 BPD & 2845.3 PSIA ,
1594 Surface PSIa
Tool @ 3200'
Lower Trend
y = 0.191x + 2835.7
R2 = 0.9934
y = 0.0727x + 2803.6
R2 = 0.9723
Surface 1594 PSI
BHP PSIA
Surface Pressure, PSIA
Linear (Lower Trend)
Linear (Upper Trend)
Pressure, PSIA
Surface, PSIA
Rate, BPD
3000
2975
2950
2925
2900
2875
2850
1800
1700
1600
1500
1400
0
100
200
300
400
500
600
700
800
900
1000
1100
1200

Step Rate Test

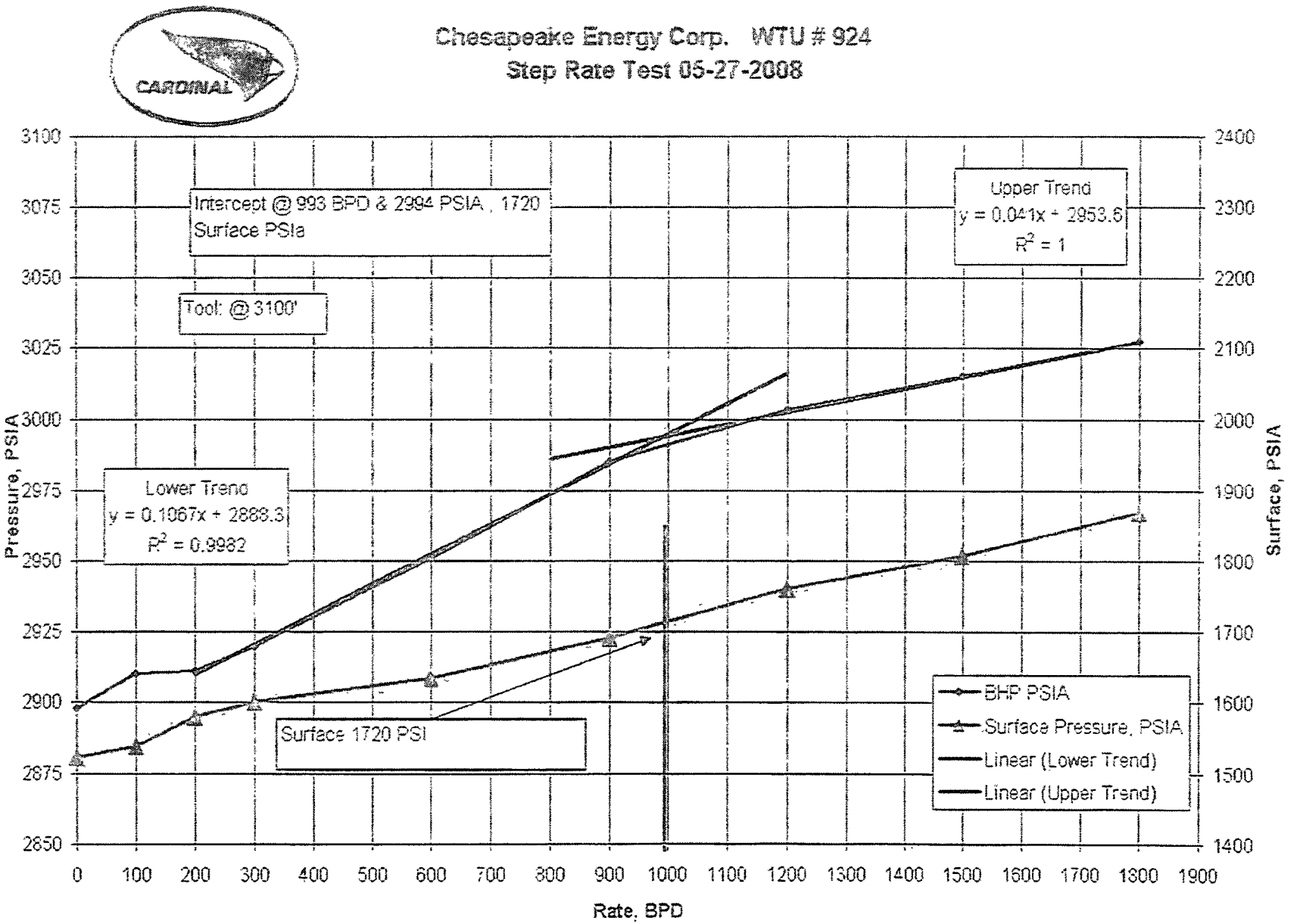
Chesapeake Energy
WTU #921
Field:
Lea County NM

CARDINAL

	S Time	E Time	D Time Min	Last Rate BPD	Step B BPD	H. Pressure PSIA	Surf PSIA	Cum BBL	Delta BBL	Avg. BPD	Lower Trend	Upper Trend
1	8:28 AM	8:30 AM	2	0	0	2850.4	1430	0	0	0		
2	8:30 AM	9:30 AM	60	100	100	2868.2	1468.5	6.5	6.5	156		
3	9:30 AM	10:30 AM	60	200	100	2875.7	1515	15.7	9.2	221	2875.7	
4	10:30 AM	11:30 AM	60	300	100	2890.3	1521.3	28.7	13	312	2890.3	
5	11:30 AM	12:30 PM	60	500	200	2932.1	1572.9	49.8	21.1	506	2932.1	
6	12:30 PM	1:30 PM	60	700	200	2953.1	1630.8	80.2	30.4	730		2953.1
7	1:30 PM	2:30 PM	60	900	200	2971.9	1660	117.9	37.7	905		2971.9
8	2:30 PM	3:30 PM	60	1100	200	2982.2	1689.6	165.5	47.6	1142		2982.2
9	3:30 PM	3:45 PM	15	0	-1100	2875	1498	165.5	0	0		

	0.191	2935.7
	0.0727	2903.6

Int point: 573.9645 BPD
2945.3272 Psia


Chesapeake Energy Corp. WTU # 924
Step Rate Test 05-27-2008
CARDINAL
Intercept @ 993 BPD & 2994 PSIA , 1720 Surface PSIa
Tool: @ 3100'
Upper Trend
y = 0.041x + 2953.6
R2 = 1
Lower Trend
y = 0.1067x + 2888.3
R2 = 0.9982
Surface 1720 PSI
BHP PSIA
Surface Pressure, PSIA
Linear (Lower Trend)
Linear (Upper Trend)
Pressure, PSIA
Surface, PSIA
Rate, BPD
3100
3075
3050
3025
3000
2975
2950
2925
2900
2875
2850
2400
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
1600
1700
1800
1900

Step Rate Test:

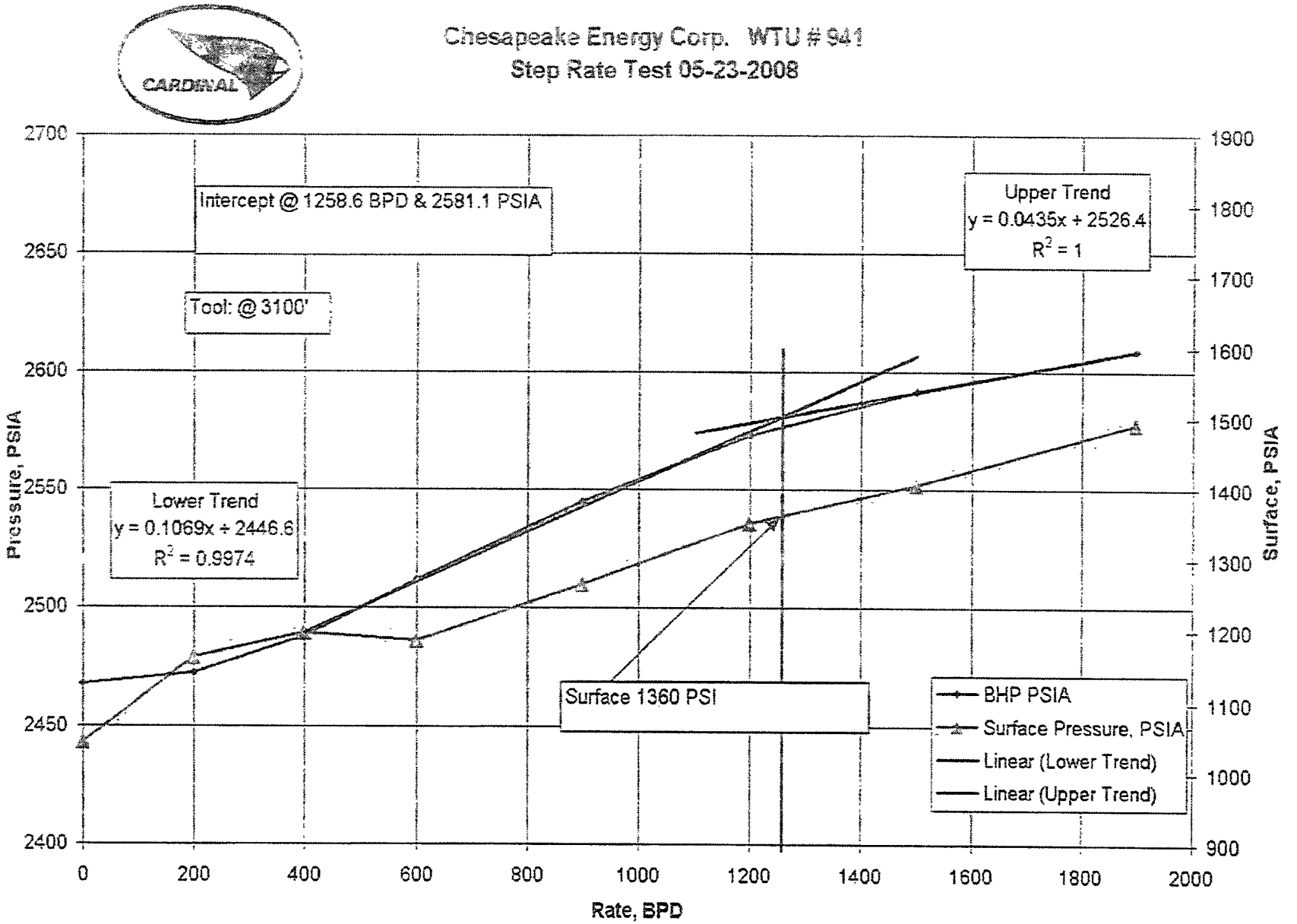
Chesapeake Energy
WTU #924
Field:
Lea County, NM

CARDINAL

	S Time	E Time	D Time Min	Last Rate BPD	Step BPD	B. H. Pressure PSIA	Surf PSIA	Cum BBL	Delta BBL	Avg. BPD	Lower Trend	Upper Trend
1	9:00 AM	10:00 AM	60	0	0	2898.1	1522.4	0	0	0		
2	10:00 AM	11:00 AM	60	100	100	2910.3	1537.8	8.7	8.7	161		
3	11:00 AM	12:00 PM	60	200	100	2911	1579.1	15.5	6.8	211	2911	
4	12:00 PM	1:00 PM	60	300	100	2919.6	1601.1	26.6	13.1	314	2919.6	
5	1:00 PM	2:00 PM	60	600	300	2950.7	1634.3	54.3	25.7	617	2950.7	
6	2:00 PM	3:00 PM	60	900	300	2985.4	1691.1	88.2	33.9	934	2985.4	
7	3:00 PM	4:00 PM	60	1200	300	3003.7	1739.4	144.1	50.9	1222		
8	4:00 PM	5:00 PM	60	1500	300	3015.1	1807.2	208.7	64.6	1550		3015.1
9	5:00 PM	6:00 PM	60	1800	300	3027.4	1869.7	285.2	76.5	1836		3027.4
10	6:00 PM	6:15 PM	15	0	-1800	2957.2	1526.9	285.2	0	0		

0.1067 2888.3
0.041 2953.6

int point: 993.91172 BPD
2994.3504 Psia


Chesapeake Energy Corp. WTU # 941
Step Rate Test 05-23-2008
CARDINAL
Intercept @ 1258.6 BPD & 2581.1 PSIA
Tool: @ 3100'
Upper Trend
y = 0.0435x + 2526.4
R2 = 1
Lower Trend
y = 0.1069x + 2446.6
R2 = 0.9974
Surface 1360 PSI
BHP PSIA
Surface Pressure, PSIA
Linear (Lower Trend)
Linear (Upper Trend)
Pressure, PSIA
Surface, PSIA
Rate, BPD
2700
2650
2600
2550
2500
2450
2400
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
0
200
400
600
800
1000
1200
1400
1600
1800
2000

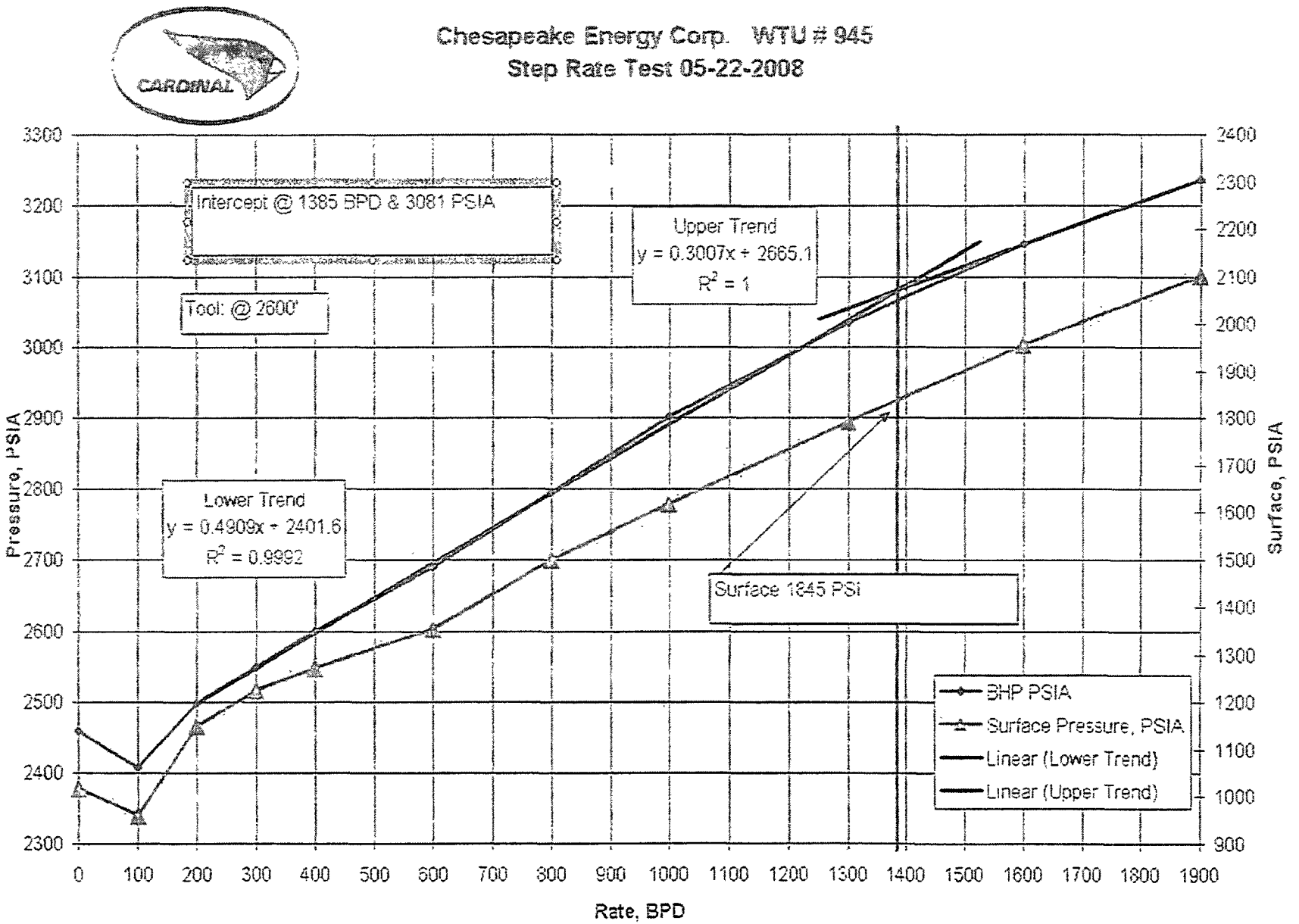
Step Rate Test

Chesapeake Energy
WTU # 941
Field:
Lea County, NM

	S Time	E Time	D Time Min	Last Rate BPD	Step BPD	B. H. Pressure PSIA	Surf PSIA	Cum BBL	Delta BBL	Avg. BPD	Lower Trend	Upper Trend
1	10:23 AM	10:30 AM	7	0	0	2468	1044.7	0	0	0		
2	10:30 AM	11:30 AM	60	200	200	2472.6	1162.6	9.8	9.8	235		
3	11:30 AM	12:30 PM	60	400	200	2487.8	1196.7	25.9	16.1	386	2467.8	
4	12:30 PM	1:30 PM	60	600	200	2511.6	1185.7	51.7	25.8	619	2511.6	
5	1:30 PM	2:30 PM	60	900	300	2545	1265.9	89.2	37.5	900	2545	
6	2:30 PM	3:30 PM	60	1200	300	2573.2	1352	140.6	51.4	1234.	2573.2	
7	3:30 PM	4:30 PM	60	1500	300	2591.7	1406.7	203.1	62.5	1500		2591.7
8	4:30 PM	5:30 PM	60	1900	400	2609.1	1493.5	284.9	81.8	1963		2609.1
9	5:30 PM	5:45 PM	15	0	-1900	2575.2	1251.4	284.9	0	0		

0.1069 2446.6
0.0435 2526.4

int point: 1258.675* BPD
2581.1524 Psia


Chesapeake Energy Corp. WTU # 945
Step Rate Test 05-22-2008
CARDINAL
Intercept @ 1385 BPD & 3081 PSIA
Tool: @ 2600'
Upper Trend
y = 0.3007x + 2665.1
R2 = 1
Lower Trend
y = 0.4909x + 2401.6
R2 = 0.9992
Surface 1845 PSI
BHP PSIA
Surface Pressure, PSIA
Linear (Lower Trend)
Linear (Upper Trend)
Pressure, PSIA
Surface, PSIA
Rate, BPD
3300
3200
3100
3000
2900
2800
2700
2600
2500
2400
2300
2400
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
1600
1700
1800
1900

Step Rate Test:

Melrose Operating
WTU #945
Field
Lea County, NM

	S Time	E Time	D Time Min	Last Rate BPD	Step BPD	E. H. Pressure PSIA	Surf PSIA	Cum BBL	Delta BBL	Avg. BPD	Lower Trend	Upper Trend
1	9:04 AM	9:30 AM	26	0	0	2469.5	1016.1	0	0	0		
2	9:30 AM	10:30 AM	60	100	100	2407.1	958.8	5.3	5.3	127		
3	10:30 AM	11:30 AM	60	200	100	2499.2	1149.8	13.8	8.5	204	2499.2	
4	11:30 AM	12:30 PM	60	300	100	2549.8	1223.1	26.5	12.7	305	2549.8	
5	12:30 PM	1:30 PM	60	400	100	2599.4	1271.5	42.5	16	384	2599.4	
6	1:30 PM	2:30 PM	60	600	200	2689.8	1353.3	68.4	25.9	622	2689.8	
7	2:30 PM	3:30 PM	60	800	200	2794.1	1499.8	102	33.6	806	2794.1	
8	3:30 PM	4:30 PM	60	1000	200	2902.8	1619	144.6	42.6	1022	2902.8	
9	4:30 PM	5:30 PM	60	1300	300	3034.5	1734	204.5	59.9	1438	3034.5	
10	5:30 PM	6:30 PM	60	1600	300	3146.2	1957.3	265.4	60.9	1462		3146.2
11	6:30 PM	7:30 PM	60	1900	300	3236.4	2102.7	346	80.6	1934		3236.4
12	7:30 PM	7:45 PM	15									

0.4909 2401.8
0.3007 2685.1

int point: 1385.3838 BPD
3081.6849 Psia