

DATE IN 7/11/08	SUSPENSE	ENGINEER W Jones	LOGGED IN 7/11/08	TYPE IPI	APP NO. PKUR0819329405
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ABOVE THIS LINE FOR DIVISION USE ONLY

**NEW MEXICO OIL CONSERVATION DIVISION**  
 - Engineering Bureau -  
 1220 South St. Francis Drive, Santa Fe, NM 87505



*Chesapeake*  
*8 wells*  
*Lea County*

**ADMINISTRATIVE APPLICATION CHECKLIST**

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

**Application Acronyms:**

- [NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
- [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
- [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
- [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
- [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
- [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

- [1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]
- [A] Location - Spacing Unit - Simultaneous Dedication  
 NSL  NSP  SD
- Check One Only for [B] or [C]
- [B] Commingling - Storage - Measurement  
 DHC  CTB  PLC  PC  OLS  OLM
- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery  
 WFX  PMX  SWD  IPI  EOR  PPR
- [D] Other: Specify \_\_\_\_\_
- [2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or Does Not Apply
- [A]  Working, Royalty or Overriding Royalty Interest Owners
- [B]  Offset Operators, Leaseholders or Surface Owner
- [C]  Application is One Which Requires Published Legal Notice
- [D]  Notification and/or Concurrent Approval by BLM or SLO  
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E]  For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F]  Waivers are Attached

2008 JUL 11 AM 8 09  
 RECEIVED

[3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Curtis Blake      Curt Blake      Production Superintendent 7-11-08  
 Print or Type Name      Signature      Title      Date

CBLAKE@ChkEnergy.com  
 e-mail Address

# Chesapeake

## FACSIMILE COVERSHEET

Date: 7-11-2008

To: Kim Romero

Phone #: \_\_\_\_\_

Fax #: 505-476-3462

From: Doug Pubick

Phone #: 575-441-7326

Fax #: (505) 391-6679

No. of Pages (Including coversheet) 2

Notes: WTU waterflood increase injection  
pressure. If you need anything else let me  
know.

Have a Great Day !

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

Form C-103  
 May 27, 2004

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

WELL API NO.
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name WTYSR Unit Wells: 443,641,912,913,921, 924,941,945
8. Well Number
9. OGRID Number 147179
10. Pool name or Wildcat Teas (Yates-Seven Rivers), West

**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.)

1. Type of Well: Oil Well  Gas Well  Other/Injection Wells

2. Name of Operator  
Chesapeake Operating, Inc.

3. Address of Operator P.O. Box 18496  
Oklahoma City, OK 73154-0496

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

<b>NOTICE OF INTENTION TO:</b>		<b>SUBSEQUENT REPORT OF:</b>	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
OTHER: Injection Pressure Increase <input checked="" type="checkbox"/>		OTHER: <input type="checkbox"/>	

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

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 2008 JUL 10 PM 1 49

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: \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
 Conditions of Approval (if any): \_\_\_\_\_

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.

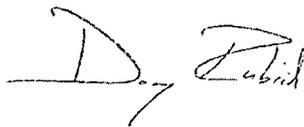
Well	API	Inj Press Limit	Order	Order Date	Comments
WTU 433	3002532032	988	IPI-244	10/19/2004	Division Order for increased injection pressure after SRT.
WTU 443	3002535978	631	WFX-791	7/24/2003	Administrative Order based on 0.2 psi/ft
WTU 641	3002533144	632	WFX-791	7/24/2003	Administrative Order based 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 22<sup>nd</sup> and June 4<sup>th</sup>, 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	3002535978	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	1,672	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,



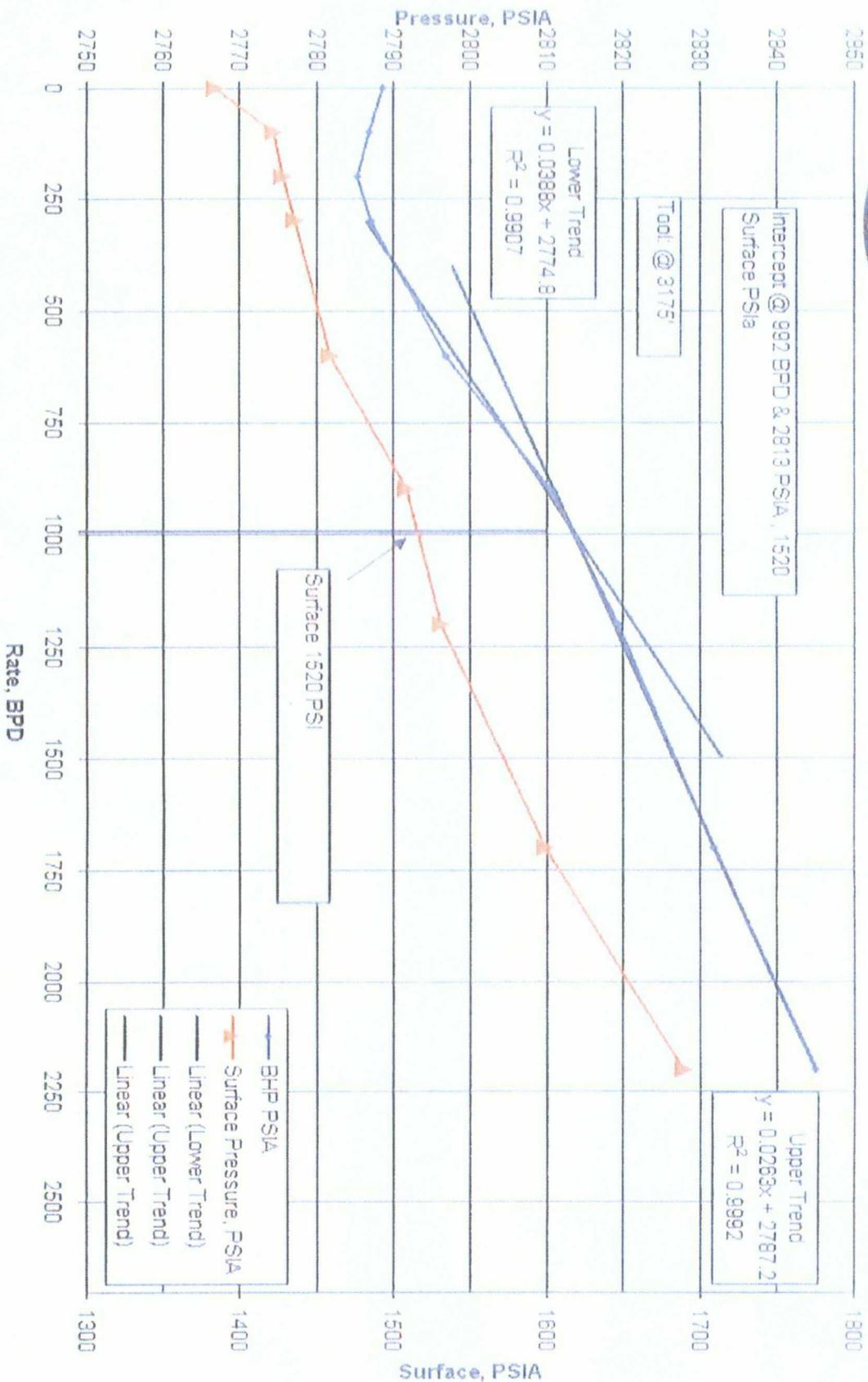
Doug Rubick  
 Field Engineer

*xxx psi Murphy Kill switch*

*-50 psi*  
*0% of error on measurement*  
*TRRC 1/2 psi/ft 0.5 x log L*



Chesapeake Energy Corp. WTU # 443  
Step Rate Test 05-29-2008



Step Rate Test

Chesapeake Energy  
 WTU # 443  
 Field:  
 Lee County, NM

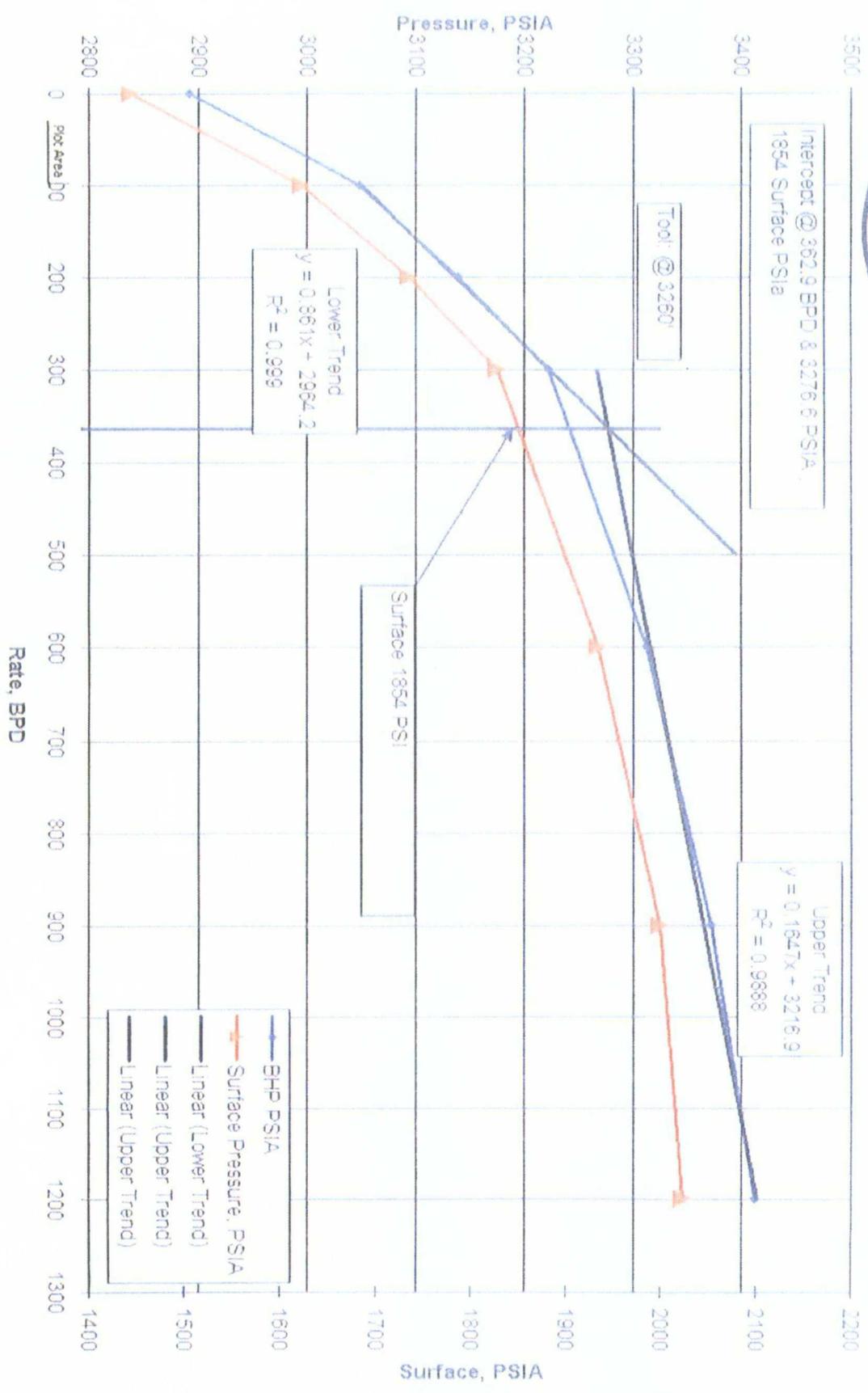


D Time	Last Rate	Step R. R.	Pressure		Cum	Delta	Avg.	Lower	Upper
			BPD	PSIA					
1	8:31 AM	8:45 AM	14	0	2768.5	1364	0	2768.5	
2	8:45 AM	9:45 AM	60	100	2768.9	1421.3	7.3	175	
3	9:45 AM	10:45 AM	60	200	2765.2	1428.3	16.3	216	
4	10:45 AM	11:45 AM	60	300	2767.1	1435.4	29.6	319	
5	11:45 AM	12:45 PM	60	300	2766.9	1458.6	54.4	595	
6	12:45 PM	1:45 PM	60	300	2810.4	1509.2	43	-274	2810.4
7	1:45 PM	2:45 PM	60	1200	2819.3	1531.6	142.3	2382	2819.3
8	2:45 PM	3:45 PM	60	1700	2831.9	1599.3	274.6	1735	2831.9
9	3:45 PM	4:45 PM	60	2200	2844.9	1669.6	306.2	2198	2844.9
10	4:45 PM	5:45 PM	60	2700					

0.0338 2774.8  
 0.0263 2797.2  
 in: point 992 BPD  
 2810.2896 Psia



Chesapeake Energy Corp. WTU # 641  
 Step Rate Test 06-04-2008



Step Rate Test  
 Chesapeake Energy  
 WFTU # 641  
 Field: West Tass  
 Lea County, NM

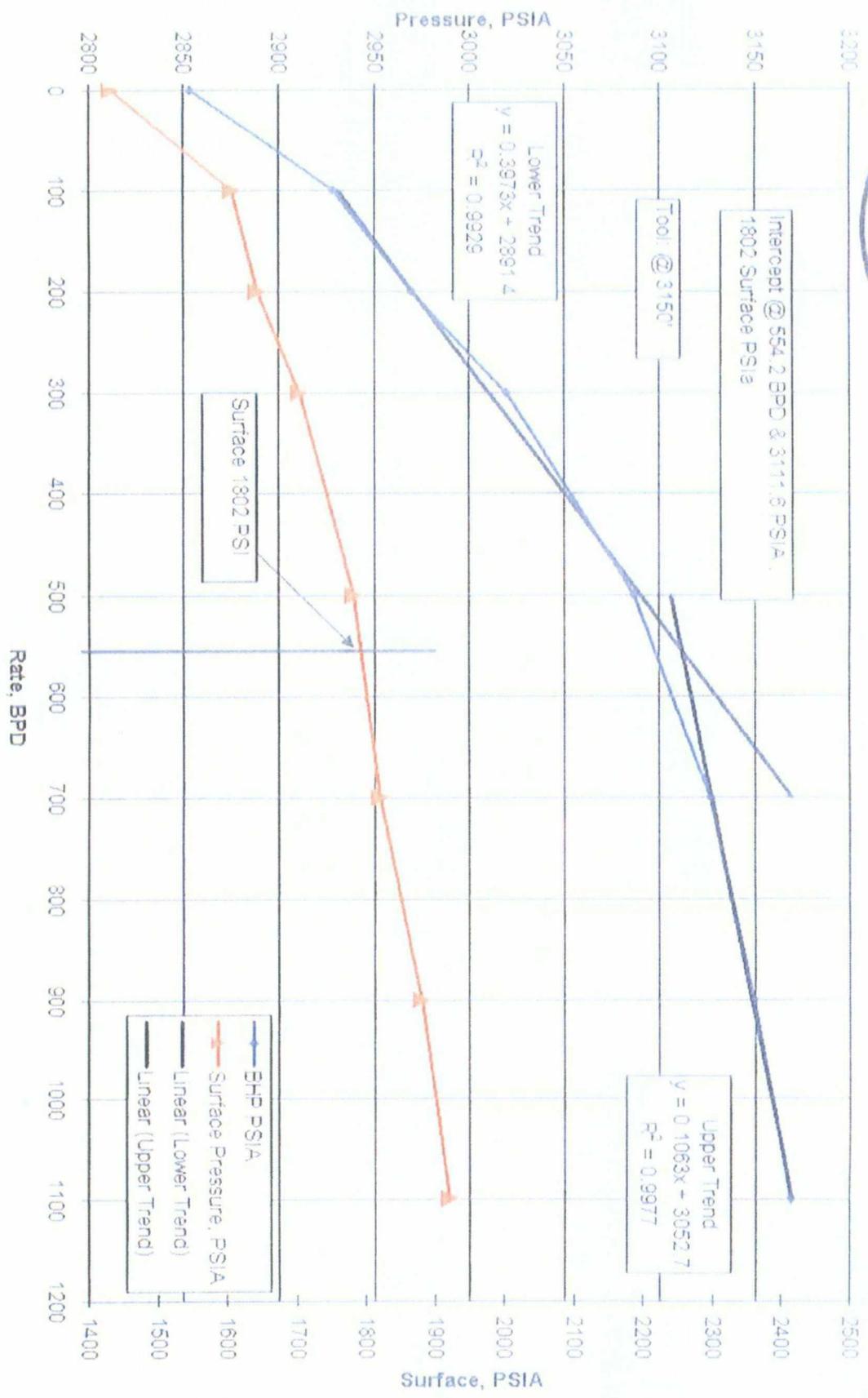


	S Time	E Time	D Time		Last Rate	BPD	Step S. H.	Pressure	Surf	Cum	Delta	Avg.	Lower	Upper
			Min	Max										
1	8:29 AM	8:45 AM	18	0	100	0	2891.8	1444.6	0	0	0	0		
2	9:45 AM	9:45 AM	60	100	100	0	3048.8	1522.5	6.1	6.1	146	3048.8		
3	9:45 AM	10:45 AM	60	200	100	0	3139.5	1736.2	15	8.9	214	3139.5		
4	10:45 AM	11:45 AM	60	300	100	0	3221	1828.5	28.4	13.4	322	3221		
5	11:45 AM	12:45 PM	50	600	300	0	3312.7	1934.1	51.8	23.2	557	3312.7		
6	12:45 PM	1:45 PM	60	900	300	0	3371.2	1999.4	89	37.4	658	3371.2		
7	1:45 PM	2:45 PM	50	1200	300	0	3411.5	2022.4	139	50	1200	3411.5		
8	2:45 PM	3:00 PM	15	0	-1200	0	3334	1940	139	0	0			

Int point: 362.91828 BPD  
 3276.6726 Psia  
 0.861 2964.2  
 0.1647 3246.9

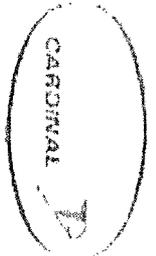


Chesapeake Energy Corp. WTLU # 912  
 Step Rate Test 06-02-2008



Step Rate Test

Chesapeake Energy  
 WTU # 912  
 Field:  
 Lee County, NM

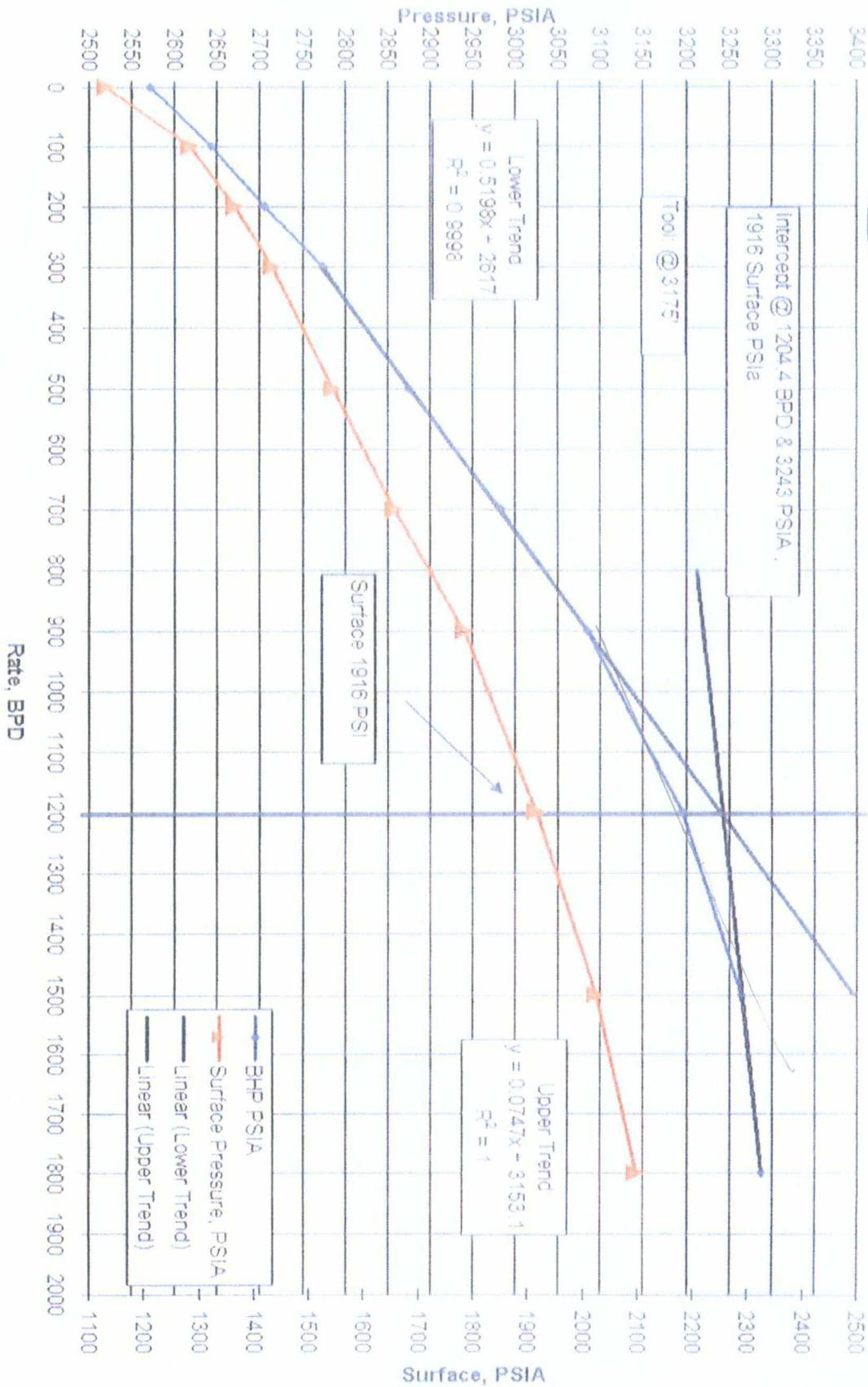


S Time	E Time	D Time	Last Rate	Step S. H.	Pressure	Surf	Cum	Delta	Avg.	Lower	Upper
		Min	BPD	BPD	PSIA	PSIA	BBL	BBL	BPD	Trend	Trend
1 8:45 AM	9:00 AM	12	0	0	2853.5	1432.9	0	0	0		
2 9:00 AM	10:00 AM	80	100	100	2928	1607	8.5	8.5	204	2928	
3 10:00 AM	11:00 AM	80	200	100	2969.4	1642.8	17.4	8.9	214	2969.4	
4 11:00 AM	12:00 PM	80	300	100	3019.1	1704.1	30.3	12.9	310	3019.1	
5 12:00 PM	1:00 PM	80	500	200	3086.2	1782.5	52.3	22	528	3086.2	
6 1:00 PM	2:00 PM	80	700	200	3126.5	1821.1	61.2	26.9	694		3126.5
7 2:00 PM	3:00 PM	80	900	200	3149.5	1880.9	120.1	38.9	934		3149.5
8 3:00 PM	4:00 PM	30	1100	200	3189	1922.1	155.8	45.4	1090		3189
9 4:00 PM	5:00 PM	80	0	-1100	3125	1797	185.5	0	0		

Int point: 554,29553 BPD  
 3111.6216 Psia  
 0.3673 2891.4  
 0.1063 3052.7



Chesapeake Energy Corp. WTU # 913  
 Step Rate Test 06-03-2008



Step Rate Test  
 Chesapeake Energy  
 WTU # 515  
 Field:  
 Lea County, NM

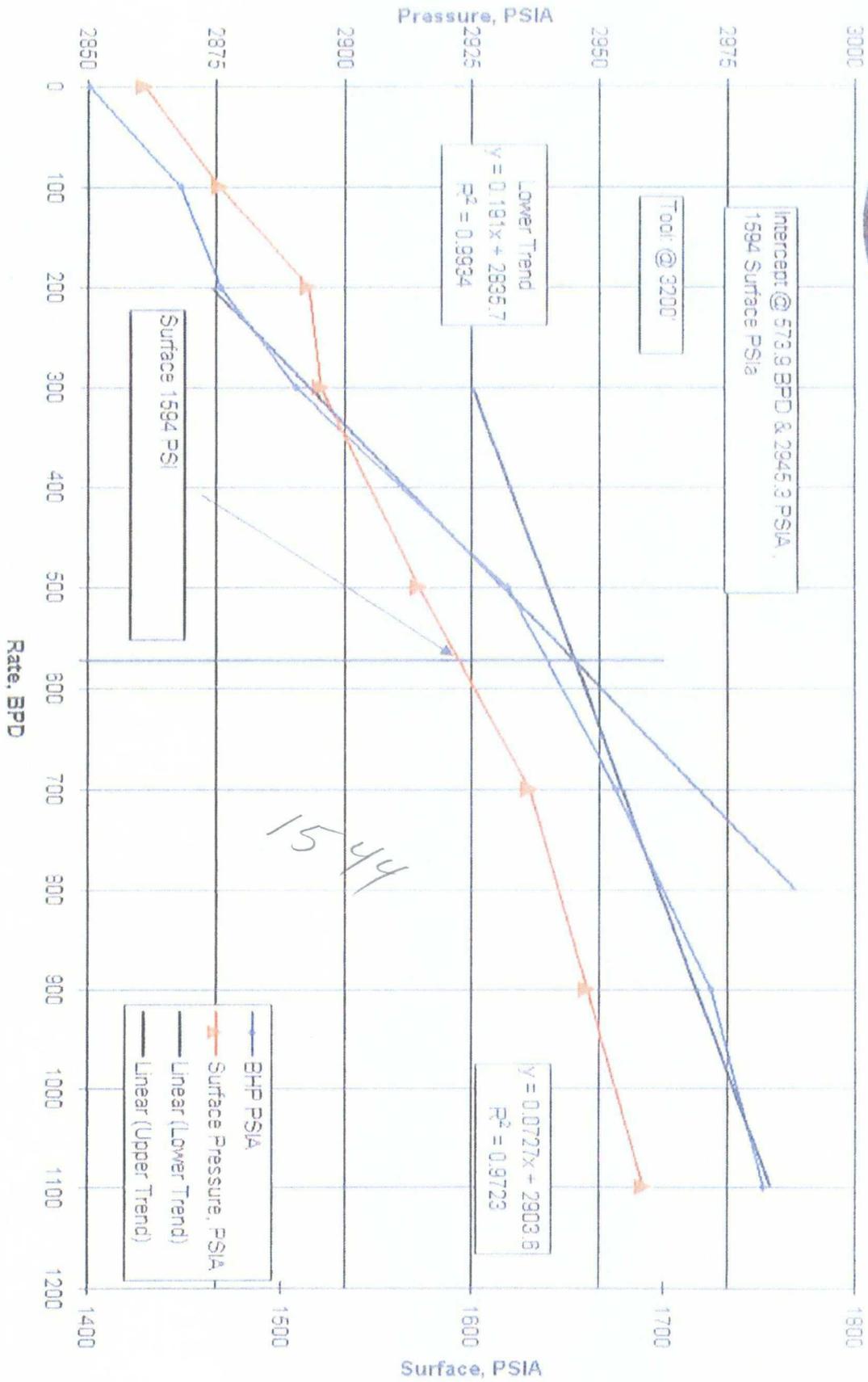


	S Time	E Time	D Time	Last Rate	Step S. H. Pressure	Sut	Cum	Delta	Avg.	Lower	Upper
			Min	BPD	BPD	PSIA	BSL	BSL	BPD	Trend	Trend
1	8:51 AM	9:00 AM	3	0	0	2571.9	0	0	0		
2	9:00 AM	10:00 AM	60	100	100	2643.1	5.7	5.7	137		
3	10:00 AM	11:00 AM	90	200	100	2706	14.7	9	216		
4	11:00 AM	12:00 PM	80	300	100	2773.8	28	13.3	319		2773.8
5	12:00 PM	1:00 PM	60	500	200	2874.6	49.4	21.4	514		2874.6
6	1:00 PM	2:00 PM	60	700	200	2983	73.6	29.2	701		2983
7	2:00 PM	3:00 PM	60	900	200	3084.2	116.6	38	912		3084.2
8	3:00 PM	4:00 PM	90	1200	300	3193.7	198.5	51.9	1248		
9	4:00 PM	5:00 PM	60	1500	300	3265.1	231.1	62.6	1502		3265.1
10	5:00 PM	6:00 PM	60	1800	300	3287.5	308.5	77.4	1856		3287.5
11	6:00 PM	6:15 PM	15	0	-1300	3192	308.5	0	0		

int point: 1204.484 BPD  
 3243.0723 Psia  
 0.5198 2617  
 0.0747 3153.1



Chesapeake Energy Corp. WTU # 921  
 Step Rate Test 05-28-2008



Step Rate Test

Chesapeake Energy  
 WFTU #927  
 Field:  
 Lea County, NM

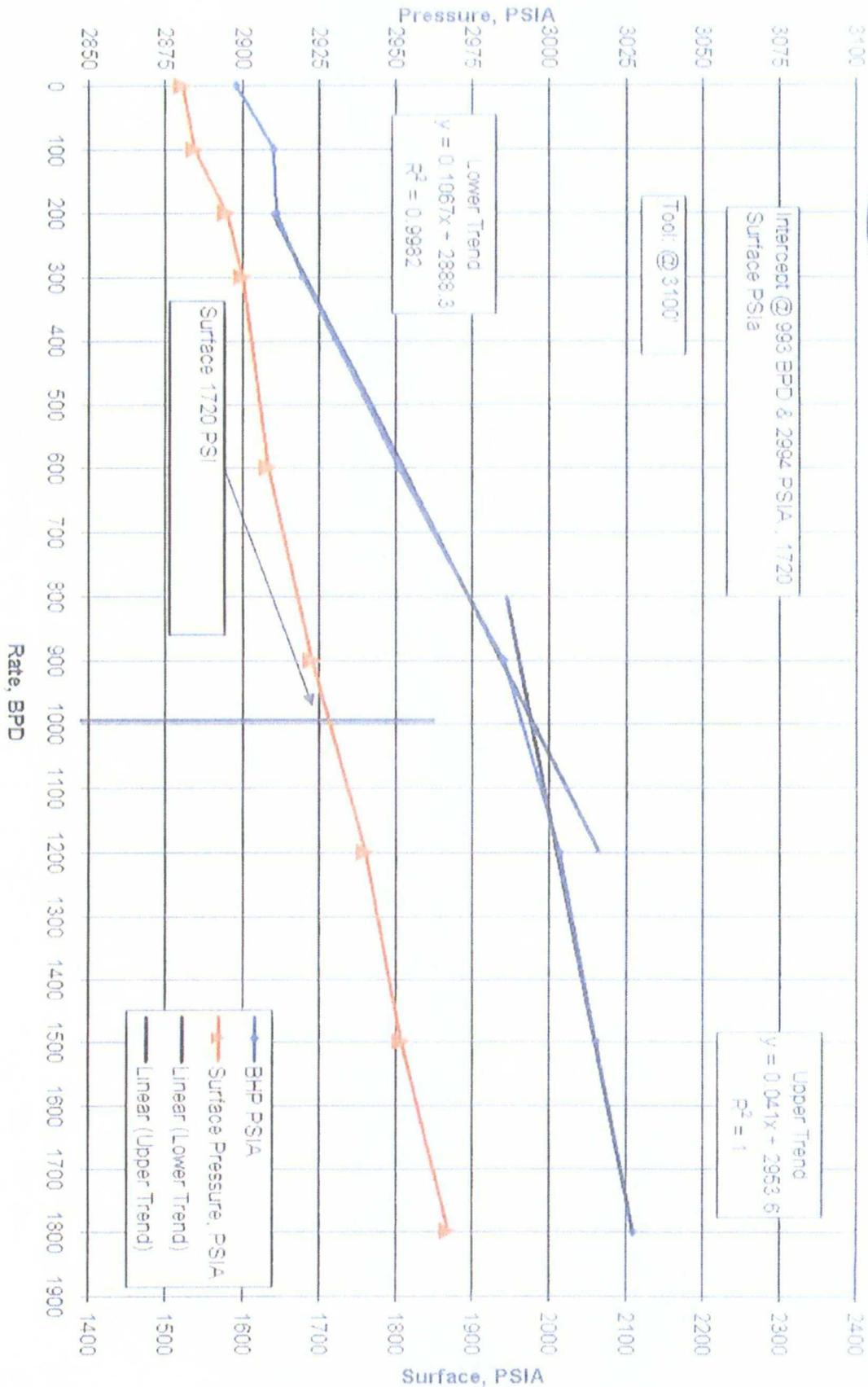


	S Time	E Time	D Time	Last Rate		Step B. H. Pressure		Surf		Cum	Data	Avg	Lower	Upper
				Min	BPD	BPD	PSIA	PSIA	BBL					
1	8:28 AM	8:30 AM	2	0	0	0	2850.4	1430	0	0	0	0		
2	8:30 AM	9:30 AM	60	100	100	100	2888.2	1469.5	5.5	8.5	158			
3	9:30 AM	10:30 AM	60	200	100	100	2875.7	1515	15.7	9.2	221	2875.7		
4	10:30 AM	11:30 AM	60	300	100	100	2890.3	1521.3	28.7	13	312	2890.3		
5	11:30 AM	12:30 PM	60	500	200	200	2932.1	1572.9	49.8	21.1	506	2932.1		
6	12:30 PM	1:30 PM	60	700	200	200	2953.1	1630.6	80.2	30.4	730	2953.1		
7	1:30 PM	2:30 PM	60	900	200	200	2971.9	1660	117.8	37.7	905	2971.9		
8	2:30 PM	3:30 PM	60	1100	200	200	2982.2	1689.9	165.5	47.6	1142	2982.2		
9	3:30 PM	3:45 PM	15	0	1100	1100	2875	1498	165.5	0	0			

inlet point: 573.9945 BPD  
 2945.8272 Psia  
 0.191 2835.7  
 0.0727 2903.6



Chesapeake Energy Corp. WTU # 924  
 Step Rate Test 05-27-2008



Step Rate Test

Chesapeake Energy  
 WTU #924  
 Field:  
 Lea County, NM

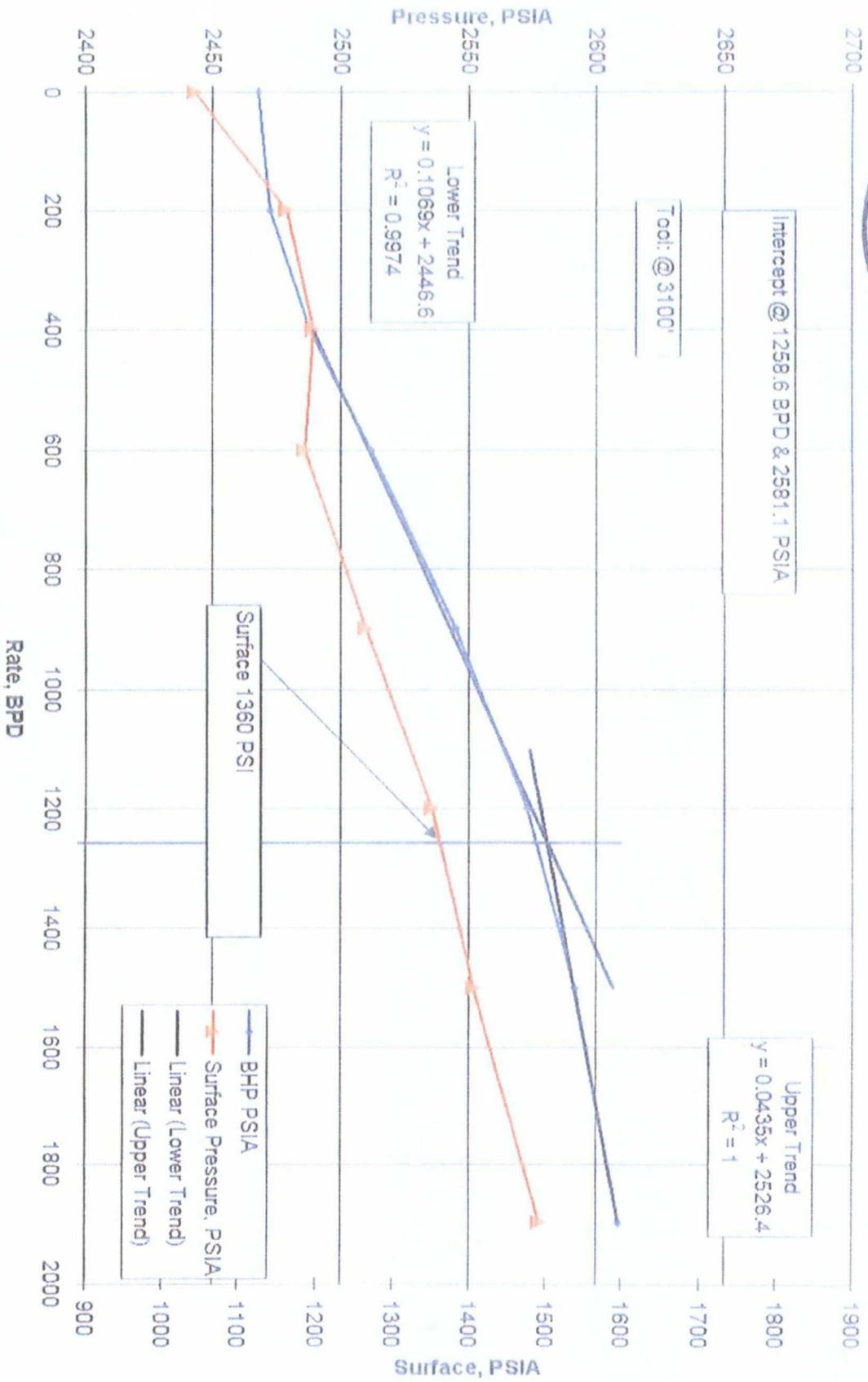


S Time	E Time	D Time		Last Rate	Step B. H.	Pressure		Surf	Cum	Delta	Avg.	Lower	Upper
		Min	SPD			SPD	PSIA						
1 9:00 AM	10:00 AM	50	0	0	0	2898.1	1522.4	1522.4	0	0	0		
2 10:00 AM	11:00 AM	50	100	100	100	2810.3	1537.8	1537.8	5.7	6.7	161		
3 11:00 AM	12:00 PM	50	200	200	100	2911	1579.1	1579.1	15.5	8.3	211	2911	
4 12:00 PM	1:00 PM	50	300	300	100	2919.5	1601.1	1601.1	28.6	13.1	314	2919.5	
5 1:00 PM	2:00 PM	50	500	500	300	2950.7	1634.3	1634.3	54.3	25.7	617	2950.7	
6 2:00 PM	3:00 PM	50	300	300	300	2935.4	1691.1	1691.1	93.2	38.9	934	2935.4	
7 3:00 PM	4:00 PM	50	1200	1200	300	3003.7	1759.4	1759.4	144.1	50.9	1222		3015.1
8 4:00 PM	5:00 PM	50	1500	1500	300	3015.1	1807.2	1807.2	208.7	64.8	1350		3027.4
9 5:00 PM	6:00 PM	50	1600	1600	300	3027.4	1869.7	1869.7	285.2	76.5	1636		
10 6:00 PM	6:45 PM	15	0	-1800		2957.2	1626.9	1626.9	285.2	0	0		

int point: 393.91172 SPD  
 2994.3504 Psia  
 0.1067 2898.3  
 0.041 2953.6



Chesapeake Energy Corp. WTU # 941  
Step Rate Test 05-23-2008



Step Rate Test

Chesapeake Energy  
 WTLJ # 941  
 Field:  
 Lee County, NM



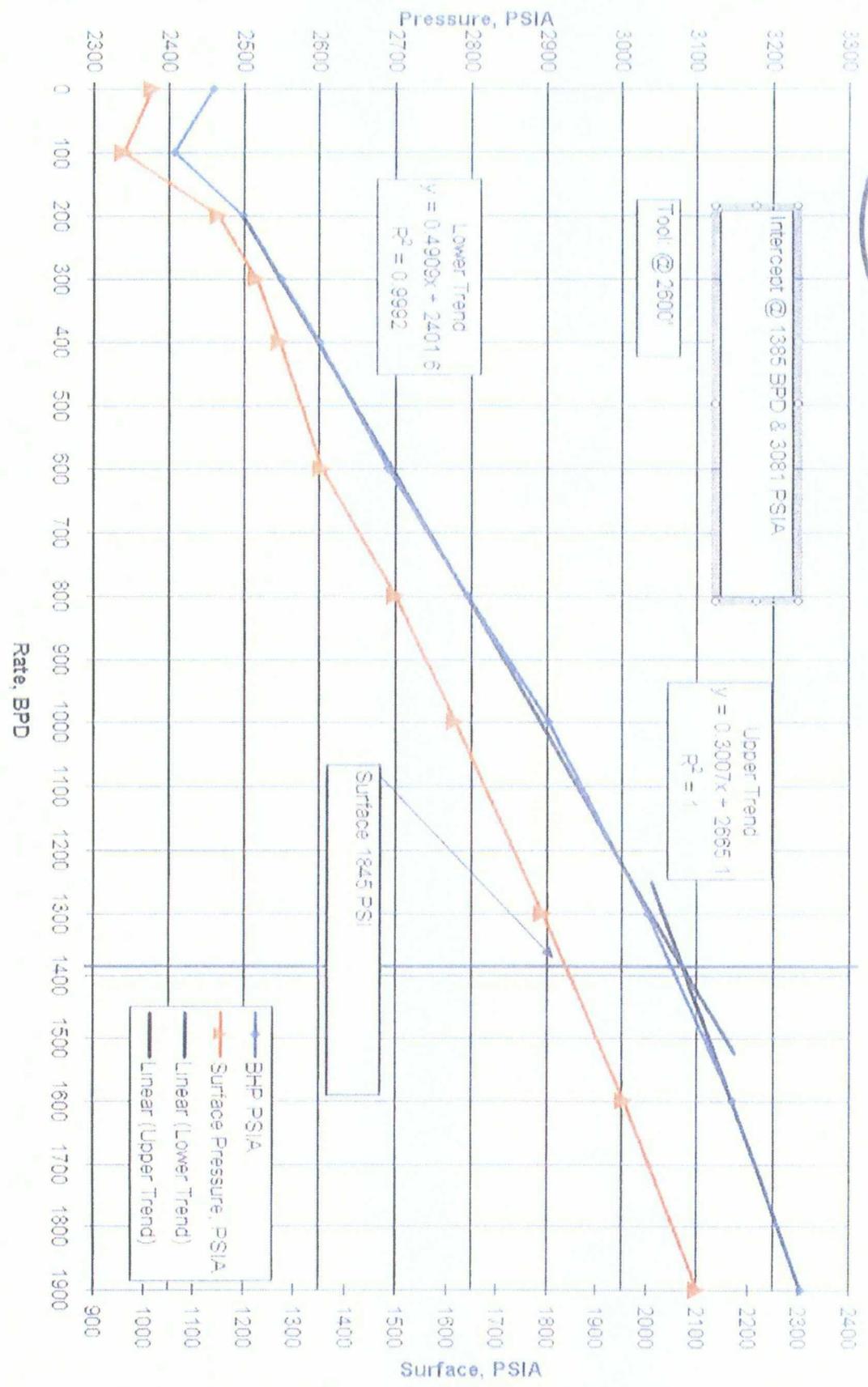
	S Time	E Time	D Time	Last Rate	Step S. H.	Pressure		Cum	Delta	Avg.	Lower	Upper
						EPD	PSIA					
1	10:23 AM	10:30 AM	1	0	0	2468	1044.7	0	0	0		
2	10:30 AM	11:30 AM	60	200	200	2472.6	1182.6	6.8	6.8	235		
3	11:30 AM	12:30 PM	60	400	200	2487.8	1198.7	25.9	18.1	396	2487.8	
4	12:30 PM	1:30 PM	60	600	200	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	1408.7	203.1	62.5	1500		2591.7
8	4:30 PM	5:30 PM	60	1900	400	2609.1	1493.5	284.9	91.9	1963		2609.1
9	5:30 PM	5:45 PM	15	0	-1900	2575.2	1251.4	284.9	0	0		

0.1068 2446.6  
 0.0465 2528.4

Int. point: 1258.6751 BPD  
 2591.1524 Psia



Chesapeake Energy Corp. WTU # 945  
 Step Rate Test 05-22-2008



- BHP PSIA
- Surface Pressure, PSIA
- Linear (Lower Trend)
- Linear (Upper Trend)

Step Rate Test  
 Metrose Operating  
 W/TU #945  
 Field:  
 Lea County, NM



S Time	E Time	D Time		Last Rate		Step E. H. Pressure		Surf		Cum		Delta		Avg.		Lower	Upper
		Min	Max	BPD	PSIA	BPD	PSIA	PSIA	BBL	BBL	BPD	PSIA	Trend	Trend			
1 9:04 AM	9:30 AM	26	0	0	2459.5	1016.1	0	5.3	0	0	127	2499.2					
2 9:30 AM	10:30 AM	60	100	100	2407.1	855.6	5.3	8.5	5.3	204	2549.8						
3 10:30 AM	11:30 AM	60	200	100	2409.2	1149.8	13.8	12.7	8.5	306	2599.4						
4 11:30 AM	12:30 PM	60	300	100	2549.8	1223.1	26.5	16	12.7	384	2689.6						
5 12:30 PM	1:30 PM	60	400	100	2599.4	1271.5	42.5	25.9	16	622	2794.1						
6 1:30 PM	2:30 PM	60	600	200	2689.8	1353.3	58.4	33.6	25.9	806	2902.8						
7 2:30 PM	3:30 PM	60	800	200	2794.1	1499.9	102	42.6	33.6	1022	3034.5						
8 3:30 PM	4:30 PM	60	1000	200	2902.8	1619	144.5	59.9	42.6	1438							
9 4:30 PM	5:30 PM	60	1300	300	3034.5	1794	204.5	60.9	59.9	1462							
10 5:30 PM	6:30 PM	60	1500	300	3146.2	1957.3	265.4	60.9	60.9	1462							
11 6:30 PM	7:30 PM	60	1900	300	3236.4	2102.7	346	60.9	60.9	1934							
12 7:30 PM	7:45 PM	15															

int point: 1385.3838 BPD  
 3081.6849 Psia  
 0.4909 2401.5  
 0.3007 2665.1

**Jones, William V., EMNRD**

*FPI from Will*

**From:** Jones, William V., EMNRD  
**Sent:** Monday, July 21, 2008 10:00 AM  
**To:** 'doug.rubick@chk.com'  
**Cc:** Warnell, Terry G, EMNRD; Ezeanyim, Richard, EMNRD; Romero, Kimberly V, EMNRD  
**Subject:** FW: IPI App West Yates Seven Rivers Unit # 443, 641, 912, 913, 921, 924, 941, 945

Doug:  
 Kim forwarded your inquiry to me.  
 The application is still pending here in Santa Fe. After a quick review, everything seems fine.

Would you please send by email:

- 1) An EXCEL file with the subject injection wells showing APIs, Well names, Locations, Upper Injection Perf, Lower Injection Perf
- 2) A copy of the Division or Commission order establishing this waterflood - it should specify the upper and lower limits of this waterflood.
- 3) Send a "Rate vs Time" plot of injection into this waterflood from the date this Order established this waterflood and put the number of active injection wells as another curve on the plot.
- 4) A map of this project showing all producing and injection wells - and the subject injection wells circled or marked on this map.
- 5) A list of any closely offsetting operators with producing wells in these same formations.

In some cases, we have required notice to be sent to offsetting operators in the same formation where the applicant wants to raise the injection pressure.

As you know, injection must be limited to the depth ranges and formation names permitted in the hearing order establishing the project.

Also, any production wells with perfs in this waterflood AND above or below the permitted waterflood interval must have Down Hole Commingle orders approved by the Division.

This permit will likely be approved in the next two weeks.

Regards,

William V. Jones PE  
 New Mexico Oil Conservation Division  
 1220 South St. Francis  
 Santa Fe, NM 87505  
 505-476-3448

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**From:** Romero, Kimberly V, EMNRD  
**Sent:** Monday, July 21, 2008 8:31 AM  
**To:** Jones, William V., EMNRD  
**Subject:** FW: IPI App West Yates Seven Rivers Unit # 443, 641, 912, 913, 921, 924, 941, 945

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**From:** Doug Rubick [mailto:doug.rubick@chk.com]  
**Sent:** Monday, July 21, 2008 6:38 AM  
**To:** Romero, Kimberly V, EMNRD  
**Subject:** RE: IPI App West Yates Seven Rivers Unit # 443, 641, 912, 913, 921, 924, 941, 945

7/21/2008

Kim,  
Good morning. I was just curious to see where we are at in this process, and wondering if you needed anything else from us.  
Thanks,  
Doug

---

**From:** Romero, Kimberly V, EMNRD [mailto:KimberlyV.Romero@state.nm.us]  
**Sent:** Thursday, July 10, 2008 2:24 PM  
**To:** Doug Rubick  
**Subject:** IPI App West Yates Seven Rivers Unit # 443, 641, 912, 913, 921, 924, 941, 945

Good Afternoon Doug,

We have received your application however, we are lacking the Administration Application Checklist for you application. I cannot log in your application until I receive this form. The checklist is located at our OCD website under forms, scroll down until you see unnumbered forms and it is the first form under this title. Please fill out fax to OCD Attn Kim Romero at 505-476-3462.

Thank you,  
Kim Romero

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**Jones, William V., EMNRD**


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**From:** Doug Rubick [doug.rubick@chk.com]  
**Sent:** Tuesday, July 22, 2008 3:20 PM  
**To:** Jones, William V., EMNRD  
**Cc:** Charlie Robinson; Bryan Arrant  
**Subject:** RE: IPI App West Yates Seven Rivers Unit # 443, 641, 912, 913, 921, 924, 941, 945  
**Attachments:** WTU Data.xls; OrderoftheDivision.pdf; RateVsTime.pdf; WTU Waterflood Map.pdf

Will,  
 Here is what you asked for;

- 1) See attached Excel file WTU Data,
- 2) See attached PDF file Order of the Division. ( I think this is what you are looking for),
- 3) See attached PDF file Rate Vs. Time,
- 4) See attached PDF file WTU Waterflood Map,
- 5) The only offsetting operators I am aware of is Shackelford. I think they share interest in some of the WTU Wells.

I believe that all our wells are producing out of the same interval but I will check on that. If there is anything else you need let me know.

Thanks,  
 Doug

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**From:** Jones, William V., EMNRD [mailto:William.V.Jones@state.nm.us]  
**Sent:** Monday, July 21, 2008 10:00 AM  
**To:** Doug Rubick  
**Cc:** Warnell, Terry G, EMNRD; Ezeanyim, Richard, EMNRD; Romero, Kimberly V, EMNRD  
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7/22/2008

Regards,

William V. Jones PE  
New Mexico Oil Conservation Division  
1220 South St. Francis  
Santa Fe, NM 87505  
505-476-3448

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**Sent:** Monday, July 21, 2008 8:31 AM  
**To:** Jones, William V., EMNRD  
**Subject:** FW: IPI App West Yates Seven Rivers Unit # 443, 641, 912, 913, 921, 924, 941, 945

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**Subject:** RE: IPI App West Yates Seven Rivers Unit # 443, 641, 912, 913, 921, 924, 941, 945

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Doug

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Thank you,  
Kim Romero

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7/22/2008

**WTU Field**

API	Well	State	County	Section	Range	Legal Description	Upper Injection Perf	Lower Injection Perf
3002532032	WTU 433	NEW MEXICO	LEA	4	033E	SL: S2 NW SE - 1650 FSL 1980 FEL	3,230	3,250
3002535976	WTU 443	NEW MEXICO	LEA	4	033E	SL: S2 NE SE - 1855 FSL 660 FEL	3,157	3,217
3002533144	WTU 641	NEW MEXICO	LEA	16	033E	SL: NE NE NE - 330 FNL 330 FEL	3,160	3,294
3002529971	WTU 912	NEW MEXICO	LEA	9	033E	SL: C SW NW - 1980 FNL 660 FWL	3,138	3,278
3002529972	WTU 913	NEW MEXICO	LEA	9	033E	SL: C NW SW - 1980 FSL 660 FWL	3,114	3,239
3002531896	WTU 921	NEW MEXICO	LEA	9	033E	SL: NE NE NW - 330 FNL 2310 FWL	3,161	3,252
3002536073	WTU 924	NEW MEXICO	LEA	9	033E	SL: SE SE NW - 2560 FNL 2210 FWL	3,038	3,233
3002532217	WTU 941	NEW MEXICO	LEA	9	033E	SL: NW NE NE - 330 FNL 990 FEL	3,076	3,114
3002536079	WTU 945	NEW MEXICO	LEA	9	033E	SL: SE SE NE - 2612 FNL 330 FEL	3,096	3,218