

DATE IN 4-27-10	SUSPENSE	ENGINEER TWI	LOGGED IN 4-27-10	TYPE IPI	PTC W APP NO. 1011756616
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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
WTU#433

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

[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.

Christian Combs

Print or Type Name

Signature

Manager-Regulatory, S. Division 4/26/10

Title

Date

Christian.Combs@chk.com
 e-mail Address

Case 12272
R-11375
646 PST
200 APR 27 A 10:55
RECEIVED OCD
IPI
244
968 PST
FPI-244
WFX-791



Operations Department

4/23/10

Terry Warnell (NMOCD)
1220 South St. Francis Drive
Santa Fe, NM 87505
(505) 476-3466

RE: West Teas (Yates-Seven Rivers) Unit Waterflood Injector Pressure Increase

Mr. Terry Warnell,

Chesapeake Energy respectfully requests to increase the injection pressure on the WTU 433. Step rate tests have been performed, and the results are summarized in the table below. More detailed information in regards to the test and wellbore is enclosed.

Well	API ✓	Current Limit	Fracture Pressure	Requested Inj. Pressure Limit	SRT Date
WTU 433	3002532032	968 psi	1708 psi	1658 psi	5/30/08

Note: All pressures are surface pressures ✓

✓
1650 ✓

Feel free to contact me if you have any questions or need any other information. Thank you for your time, I appreciate it.

Regards

Mr. Shannon Glancy
Production Engineer (Permian)
Chesapeake Energy Corporation
Office: (405) 935-8109
Cell: (405) 415-5299
Fax: (405) 849-8109

1658 / 3230 = 51

PN 890172

Step Rate Test



Cardinal Surveys Company

May 30, 2008

Chesapeake Energy Corp.
WTU # 433
Field: West Teas
Lea County, NM
SC 57244
File # 18723

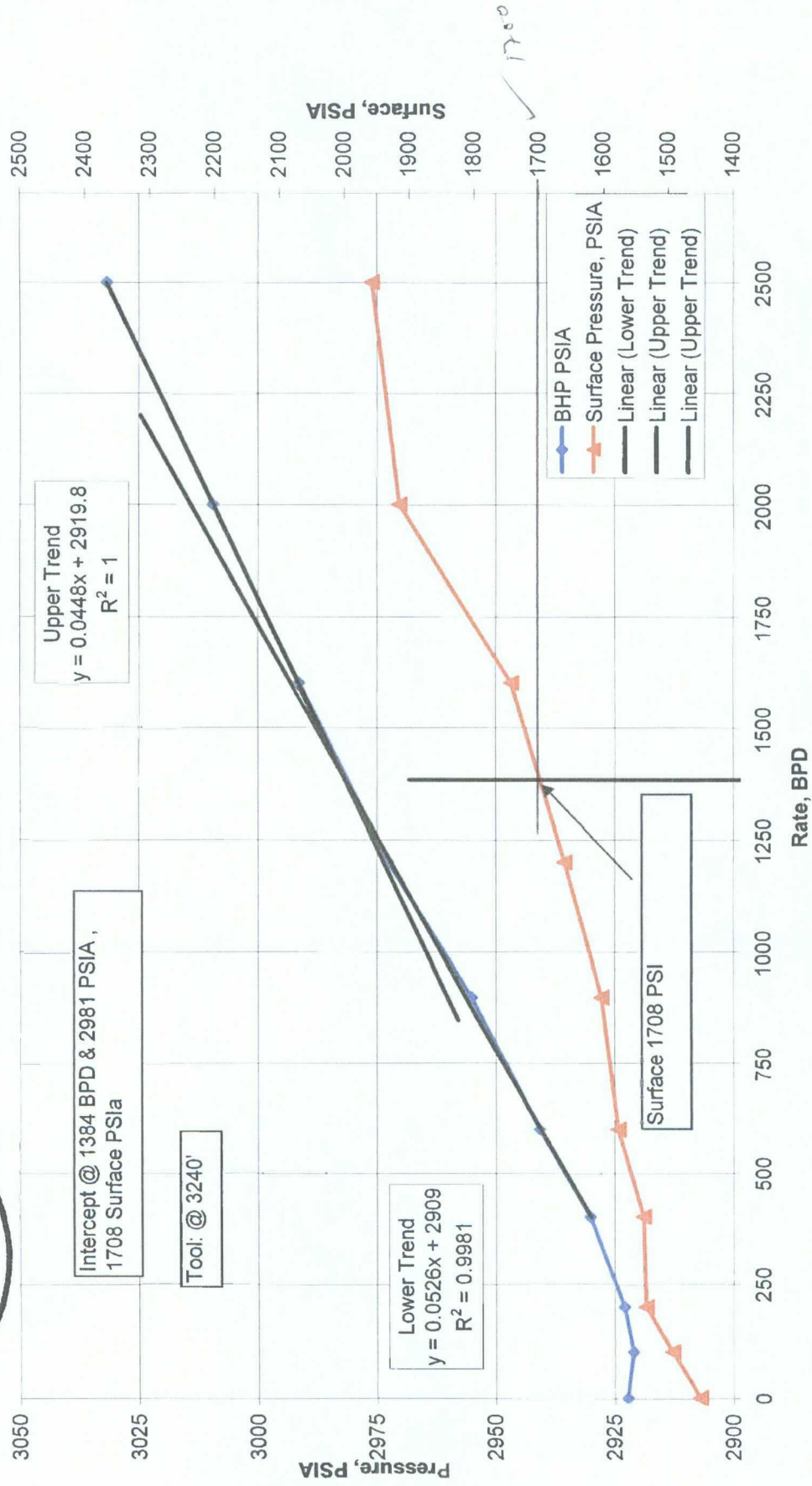
Intercept @ 1384 BPD &
2981 PSIA, 1708 Surf.
PSIA

Downhole PSI Tool Ser. No.
Surface PSI Gauge Ser. No.
Tool @ 3240'

	Start Time	End Time	Rate BPD	Comments
1	7:58 AM	8:30 AM		0 On Bottom
2	8:30 AM	9:30 AM	100	
3	9:30 AM	10:30 AM	200	
4	10:30 AM	11:30 AM	400	
5	11:30 AM	12:30 PM	600	
6	12:30 PM	1:30 PM	900	
7	1:30 PM	2:30 PM	1200	
8	2:30 PM	3:30 PM	1600	
9	3:30 PM	4:30 PM	2000	
10	4:30 PM	5:30 PM	2500	
11	5:30 PM	5:45 PM		0 Fall Off

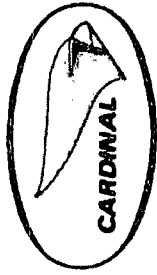


Chesapeake Energy Corp. WTU # 433
Step Rate Test 05-30-2008



Step Rate Test

Chesapeake Energy
WTU # 433
Field: West Teas
Lea County, NM



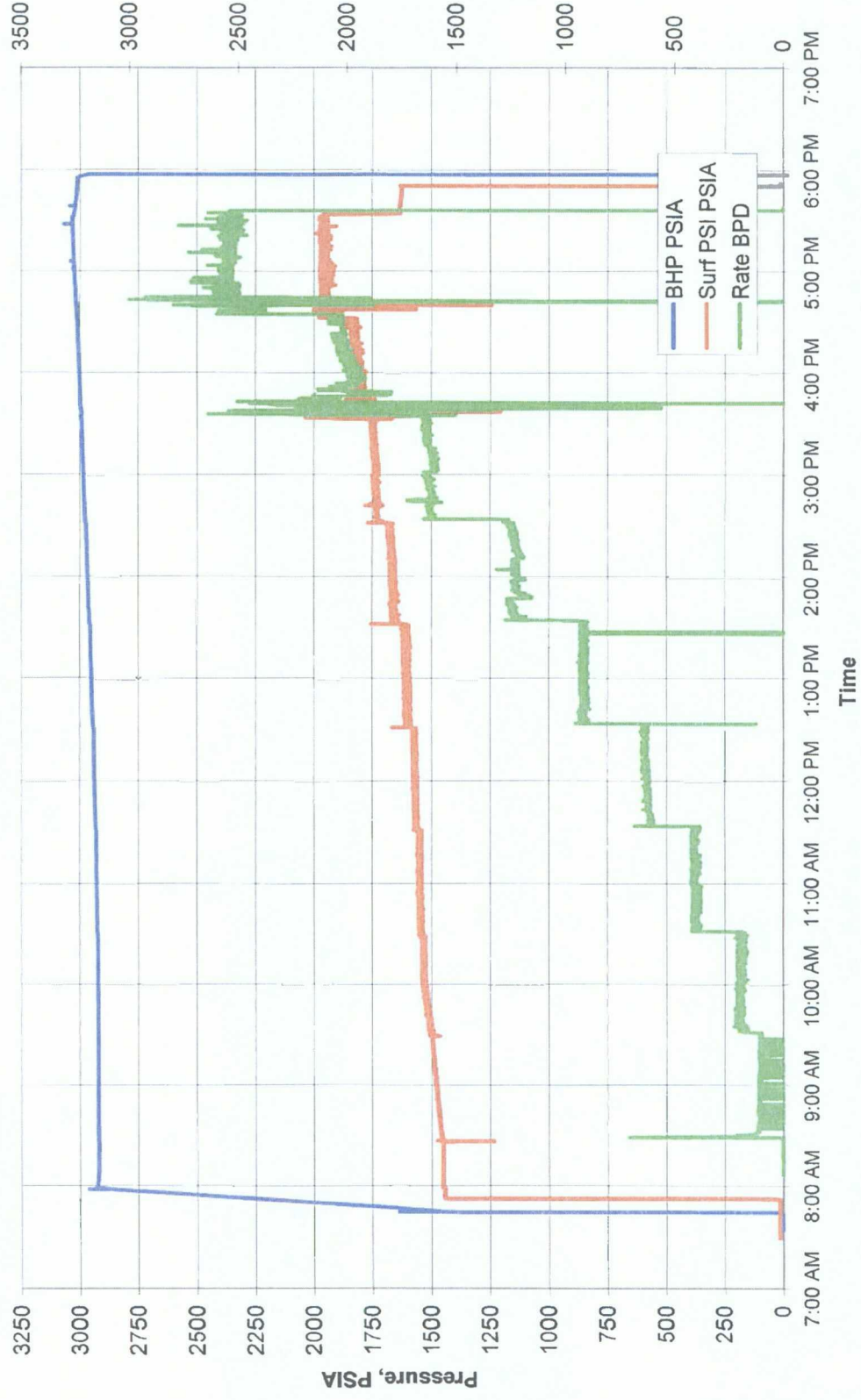
	S Time	E Time	D Time	Last Rate	Step B. H. Pressure	Surf	Cum	Delta	Avg.	Lower	Upper
			Min	BPD	BPD	PSIA	BBL	BBL	BPD	Trend	Trend
1	7:58 AM	8:30 AM	32	0	0	2922.3	0	0	0		
2	8:30 AM	9:30 AM	60	100	100	2921.1	4.7	4.7	113		
3	9:30 AM	10:30 AM	60	200	100	2923	12.3	7.6	182		
4	10:30 AM	11:30 AM	60	400	200	2930.2	29.1	16.8	403	2930.2	
5	11:30 AM	12:30 PM	60	600	200	2940.8	55.3	26.2	629	2940.8	
6	12:30 PM	1:30 PM	60	900	300	2955.1	94.3	39	936	2955.1	
7	1:30 PM	2:30 PM	60	1200	300	2972.7	145.2	50.9	1222	2972.7	
8	2:30 PM	3:30 PM	60	1600	400	2991.4	213.7	68.5	1644		2991.4
9	3:30 PM	4:30 PM	60	2000	400	3009.5	296.2	82.5	1980		3009.5
10	4:30 PM	5:30 PM	60	2500	500	3031.7	403.5	107.3	2575		3031.7
11	5:30 PM	5:45 PM	15	0	-2500	3013	403.5	0	0		

0.0526 2909
0.0448 2919.8

int point: 1384.6154 BPD
2981.8308 Psia



Chesapeake Energy Corp. WTU # 433
Step Rate Test 05-30-2008





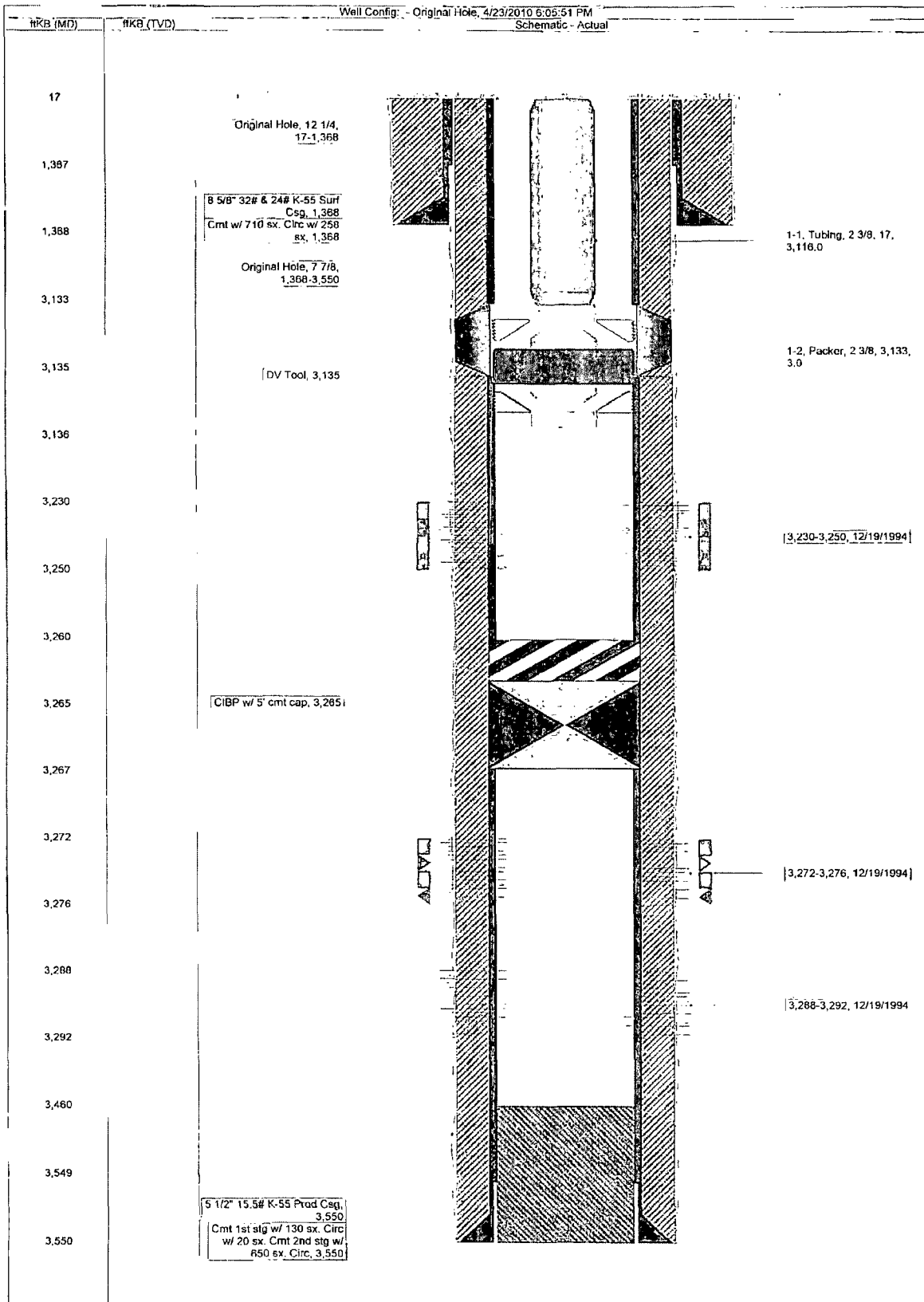
BLM Schematic

WTU 433

CONFIDENTIAL

Field: WEST TEAS
County: LEA
State: NEW MEXICO
Location: SEC 4, 20S-33E, 1650 FSL & 1980 FEL
Elevation: GL 3,556.40 KB 3,573.40
KB Height: 17.00

Spud Date: 11/8/1994
Initial Compl. Date:
API #: 3002532032
CHK Property #: 890172
1st Prod Date: 12/7/2001
PBSD: Original Hole - 3460.0
TD: 3,550.0





NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor

Joanna Prukop

Cabinet Secretary

Mark E. Fesmire, P.E.

Director

Oil Conservation Division

October 19, 2004

Division Order No. IPI-244

Chesapeake Operating Company
c/o Kellahin & Kellahin
P.O. Box 2265
Santa Fe, New Mexico 87504

Attention: Mr. W. Thomas Kellahin

**RE: *Injection Pressure Increase
West Teas (Yates-Seven Rivers) Unit Waterflood Project
Lea County, New Mexico***

Dear Mr. Kellahin:

Reference is made to your request on behalf of Chesapeake Operating Company received by the Division on September 29, 2004 to increase the surface injection pressure on seven wells within the West Teas (Yates-Seven Rivers) Unit Waterflood Project. This request is based upon step rate tests recently conducted on these wells. The results of the step rate tests for the West Teas (Yates-Seven Rivers) Unit Wells No. 433, 912, 913, 921, 924 and 945 show that an increase in the surface injection pressure for these wells is justified and will not result in the fracturing of the injection formation and confining strata. The step rate test results for the West Teas (Yates-Seven Rivers) Unit Well No. 941 is inconclusive, and therefore your request to increase the surface injection pressure for this well is hereby denied.

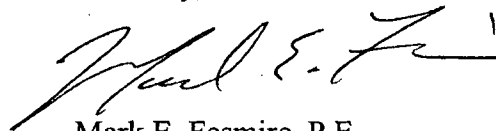
You are therefore authorized to increase the surface injection pressure on the following wells all located in Township 20 South, Range 33 East, NMPM, Lea County, New Mexico:

<i>WELL NAME & NUMBER</i>	<i>MAXIMUM SURFACE INJECTION PRESSURE</i>
West Teas (Yates-Seven Rivers) Unit No. 433 API No. 30-025-32032, Unit J, Section 4	968 PSIG
West Teas (Yates-Seven Rivers) Unit No. 912 API No. 30-025-29971, Unit E, Section 9	1200 PSIG
West Teas (Yates-Seven Rivers) Unit No. 913 API No. 30-025-29972, Unit L, Section 9	903 PSIG

WELL NAME & NUMBER	MAXIMUM SURFACE INJECTION PRESSURE
West Teas (Yates-Seven Rivers) Unit No. 921 API No. 30-025-31896, Unit C, Section 9	998 PSIG
West Teas (Yates-Seven Rivers) Unit No. 924 API No. 30-025-36073, Unit F, Section 9	1197 PSIG
West Teas (Yates-Seven Rivers) Unit No. 945 API No. 30-025-36079, Unit H, Section 9	1200 PSIG

The Division Director may rescind this injection pressure increase if it becomes apparent that the injected fluid is not being confined to the injection zone or is endangering any fresh water aquifers.

Sincerely,



Mark E. Fesmire, P.E.
Director

cc: Oil Conservation Division - Hobbs
File: WFX-791
File: Case No. 12272