

DATE: 9/13/12	SUSPENSE:	ENGINEER: Eeanyin	LOGGED: 9/13/12	TYPE: IPI	APP NO: PKVR12210238260
---------------	-----------	-------------------	-----------------	-----------	-------------------------

ABOVE THIS LINE FOR DIVISION USE ONLY

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



Chesapeake Operating, INC.
Lotos 11 Federal #2
30-05-28821

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.

Brenda Coffman

Print or Type Name

Signature

Brenda Coffman

Supervisor-Regulatory Compliance

Title

brenda.coffman.chk.com

9/11/2012

Date

e-mail Address

RECEIVED OGD
2012 SEP 13 A 10:55

SWD-1073 2/10/07
Bell/cherry 4570-5632
914PS

1780 FN4/660 FEL/H
11/24S/31E
EDDY



9/10/2012

William Jones (NMOCD)
1220 South St. Francis Drive
Santa Fe, NM 87505
(505) 476-3448

Re: LOTOS 11 Federal 2 Injector Pressure Increase

Mr. William Jones,

Chesapeake Energy would like to request the increase of the surface injection pressure on the LOTOS 11 Federal 2. A step rate test was performed and the result is summarized below. Detailed information regarding the test and the wellbore are attached.

Well	API #	Current Limit	Parting Pressure	Requested Injection Limit	SRT Date
LOTOS 11 Federal 2	3001528821	914 psi	N/A*	1,275 psi**	8/24/2012

*No parting pressure was observed

**1,275 psi was the last surface pressure observed in the SRT

Please contact me if you have any questions or need any additional information. Thank you very much for your time.

Respectfully,

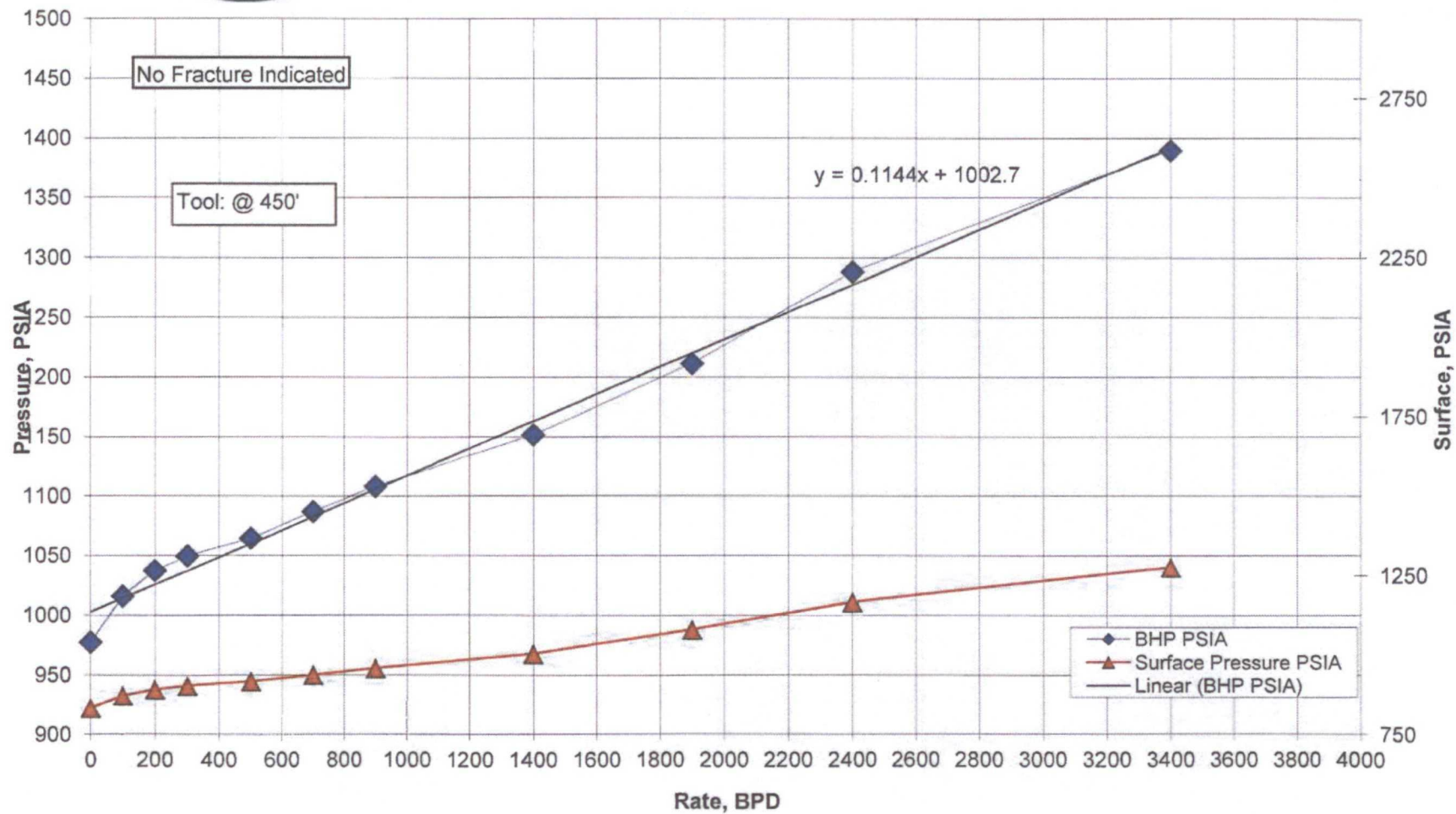
Jared Begemann
Production Engineer
Permian Operations
Chesapeake Energy Corporation
Office: (405) 935-6340
Mobile: (575) 201-8816
Fax: (405) 849-6340

1275 - 50 PSI (SAFETY)
= 1225 PSI

$\frac{1225}{4570} = 0.27 \text{ gradient}$
OK



Chesapeake Energy Corp Lotos 11 FED # 2
Step Rate Test 08-24-2012



Step Rate Test									
Chesapeake Energy Corp.									
Lotos 11 Fed # 2									
Field:									
Lea County, New Mexico									
			D Time	Last Rate	Step	B. H. Pressure	Surf	Cum	Delta
	S Time	E Time	Min	BPD	BPD	PSIA	PSIA	BBL	BBL
1	8:24 AM	8:30 AM	6	0	0	977.3	832	0	0.00
2	8:30 AM	9:00 AM	30	100	100	1015.6	871	5	5.00
3	9:00 AM	9:30 AM	30	200	100	1037.4	891	8.6	3.60
4	9:30 AM	10:00 AM	30	300	100	1049.5	903	14.9	6.30
5	10:00 AM	10:30 AM	30	500	200	1064.5	917	25.5	10.60
6	10:30 AM	11:00 AM	30	700	200	1087.2	937	40.7	15.20
7	11:00 AM	11:30 AM	30	900	200	1108.1	958	60.4	19.70
8	11:30 AM	12:00 PM	30	1400	500	1151.5	1003	89.2	28.80
9	12:00 PM	12:30 PM	30	1900	500	1211.4	1080	129	39.80
10	12:30 PM	1:00 PM	30	2400	500	1288.3	1166	182.9	53.90
11	1:00 PM	1:30 PM	30	3400	1000	1389.7	1275	239.4	56.50
12	1:30 PM	1:45 PM	15	0	-3400	1164.5	1020.8	239.4	0.00

Current Wellbore Schematic

WELL (PN): LOTOS 11 FEDERAL 2 (890471)
 FIELD OFFICE: HOBBS
 FIELD: Poker Lake, Delaware
 STATE / COUNTY: NEW MEXICO / EDDY
 LOCATION: SEC 11-24S-31E, 1780 FNL & 660 FEL
 ROUTE: HOB-NM-ROUTE 19- KENNY HUGHES
 ELEVATION: GL: 3,518.0 KB: 3,536.0 KB Height: 18.0
 DEPTHS: TD: 8,621.0

Chesapeake
 API #: 3001528821
 Serial #: 26017
 SPUD DATE: 3/24/1996
 RIG RELEASE: 12/5/1996
 1ST SALES GAS:
 1ST SALES OIL: 6/1/1996
 CURRENT STATUS: SERVICE

