

DATE IN 06/19/15	SUSPENSE	ENGINEER PRG	LOGGED IN 06/21/15	TYPE IPI	APP NO. PPRG 1523350301
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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



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 _____

Existing Order IPI-479

30-025-31515

James Federal No.1

[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.

Jeff Harvard
 Print or Type Name

Signature

Manager

Title

6/19/15

Date

jharvard@hpcnm.com

e-mail Address



June 19, 2015

State of New Mexico
Oil Conservation Division
1220 S. St. Francis Dr.
Santa Fe, NM 887505

Attn: Mr. Phillip Goetze

Re: James Fed #1 SWD 30-025-31515
Injection Pressure Increase Request

Dear Mr. Goetze:

Please find the Administrative Application and associated documentation for the injection pressure increase request to 2246 PSIA through 3 ½ inch tubing for the above well, SWD-486.

If you have any questions or need further information, please do not hesitate to contact me at jharvard@hpcnm.com or 575-208-7135.

Regards,

Harvard Petroleum Company, LLC

A handwritten signature in black ink, appearing to read "Jeff Harvard". The signature is written in a cursive, flowing style.

Jeff Harvard
Manager

Enclosures

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS
**Do not use this form for proposals to drill or to re-enter an
abandoned well. Use Form 3160-3 (APD) for such proposals.**

SUBMIT IN TRIPLICATE - Other instructions on page 2.

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other SWD

2. Name of Operator

Harvard Petroleum Company, LLC

3a. Address

PO Box 936, Roswell, NM 88202

3b. Phone No. (include area code)

575-623-1581

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Unit O, 810' FSL & 1830' FEL, Sec 29-T23S-R32E NMPM

5. Lease Serial No.
NM-0559539

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No.

8. Well Name and No.

James Federal #1

9. API Well No.

30-025-31515

10. Field and Pool or Exploratory Area

W. Triste Draw, Delaware

11. Country or Parish, State

Lea Co., NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Step Rate
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Test for injection
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	pressure increase

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

6/18/15 Installed 7 day chart recorder, SI well for 48 hours, initial pressure 880 psi

6/10/15 Remove chart recorder after 48.5 hrs - final pressure 720 psi. RU Cardinal Services, RIH with bottom hole pressure recorder to 4880'. RU Crain acid pump truck. Start Step Rate Test through 3 1/2" 9.3# J55 plastic coated tubing - see attached 48 hr SI chart and Cardinal Services Report. Step rate test results indicate an Intercept at 14,142.8 BPD, 3390.6 bottom hole PSIA, 2246 surface PSIA.

Based on the attached Step Rate Test results, an injection pressure increase to a maximum surface injection pressure of 2246 PSIA down 3 1/2" 9.3# J55 plastic coated tubing is requested.

14. I hereby certify that the foregoing is true and correct.

Name (Printed/Typed)

Jeff Harvard

Title Manager

Signature

Date 06/19/2015

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

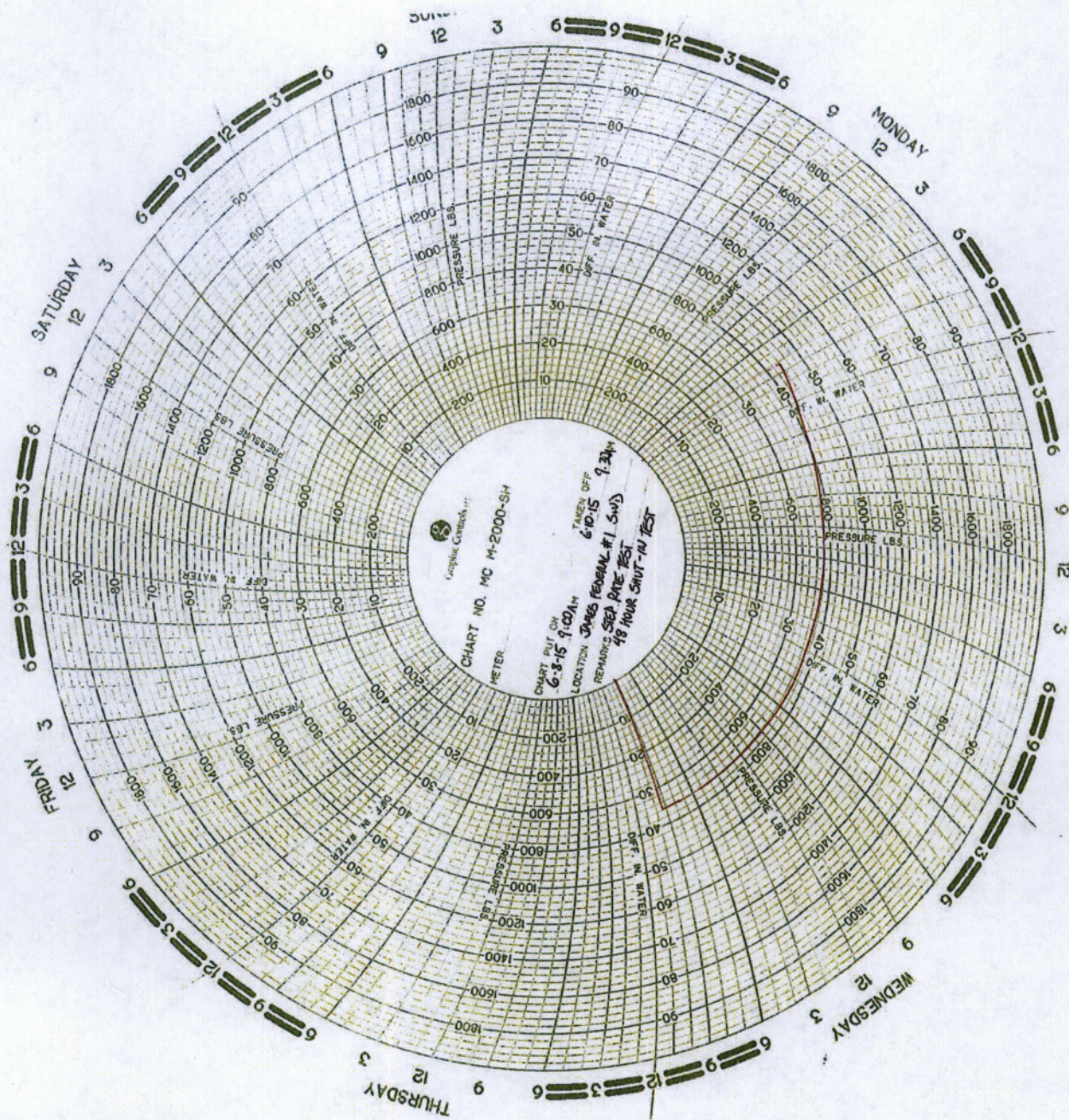
Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

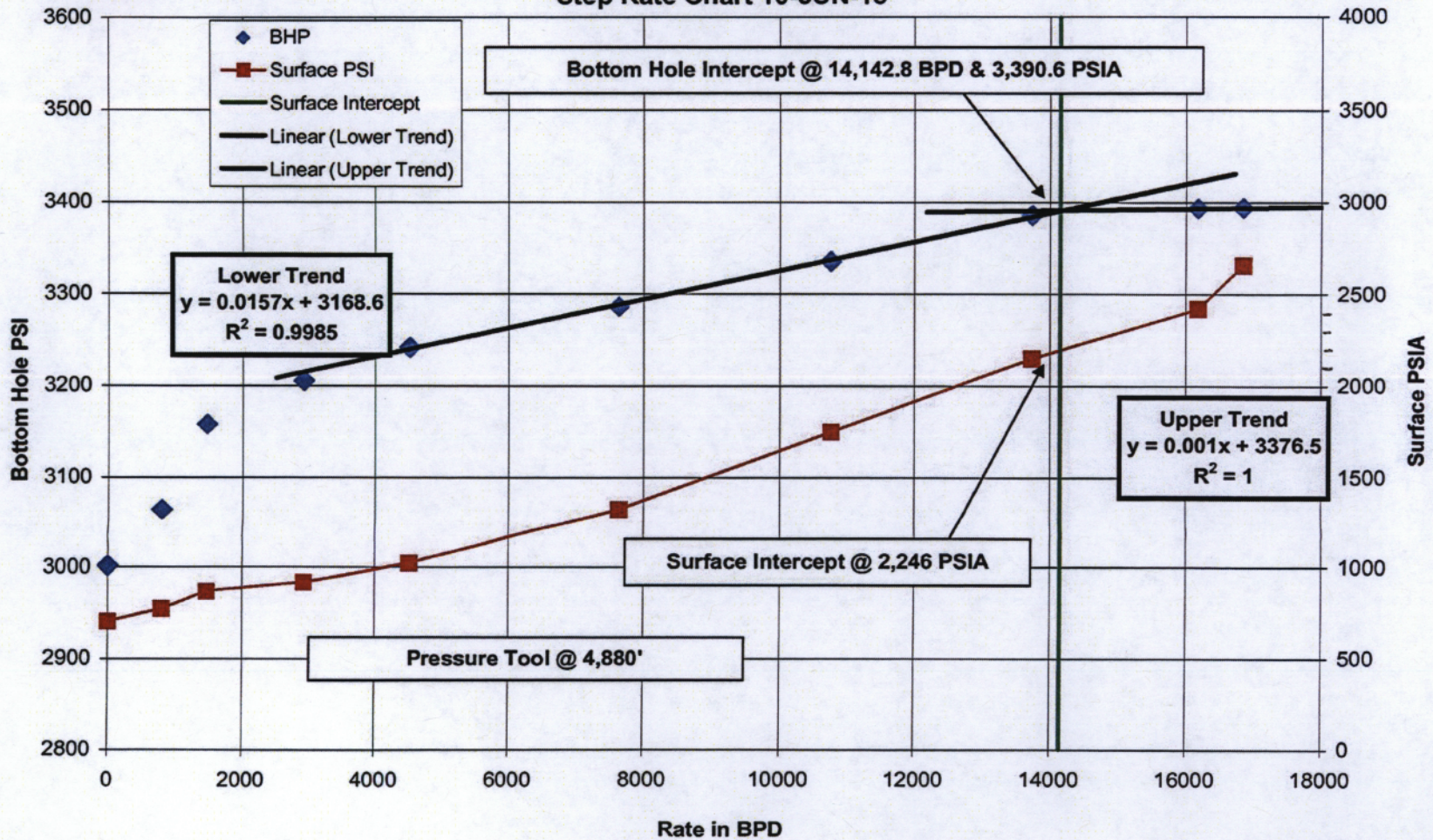
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)





Harvard Petroleum Company, LLC
James Federal No. 1 SWD
Step Rate Chart 10-JUN-15



Step Rate Test



Cardinal Surveys Company

10-Jun-15

Harvard Petroleum Company, LLC
Well: James Federal No. 1 SWD
Field: West Triste Draw, Delaware
County: Eddy County, NM

SC70425
File No. 22217

Intercept @ 14,142.8 BPD, 3,390.6 BH PSIA & Surface Intercept @ 2,246 PSIA

Downhole PSI Tool Ser. No. CSC2604
Surface PSI Gauge Ser. No. CSC 2701

Casing- 5-1/2" 17# K-55 @ 4,844'
TBG-3-1/2" J55 Plastic Coated Set @ 4,769'
Logging Tool Below TBG & CSG Shoe @ 4,880'

	Start	End	Rate
1	11:35 AM	12:45 PM	0 4,880'
2	12:45 PM	1:15 PM	720
3	1:15 PM	1:45 PM	1440
4	1:45 PM	2:15 PM	2880
5	2:15 PM	2:45 PM	4320
6	2:45 PM	3:15 PM	7200
7	3:15 PM	3:45 PM	10080
8	3:45 PM	4:15 PM	12960
9	4:15 PM	4:45 PM	14400
10	4:45 PM	5:15 PM	15840
11	5:15 PM	5:45 PM	17280 PUMP TRUCK UNABLE TO PUMP 12 BPM
12	5:45 PM	6:00 PM	0 15 Minute Fall Off
13			
14			
15			
16			
17			

Step Rate Test
10-Jun-15

Harvard Petroleum Company, LLC
Well: James Federal No. 1 SWD
Field: West Triste Draw, Delaware
Location: Eddy County, NM

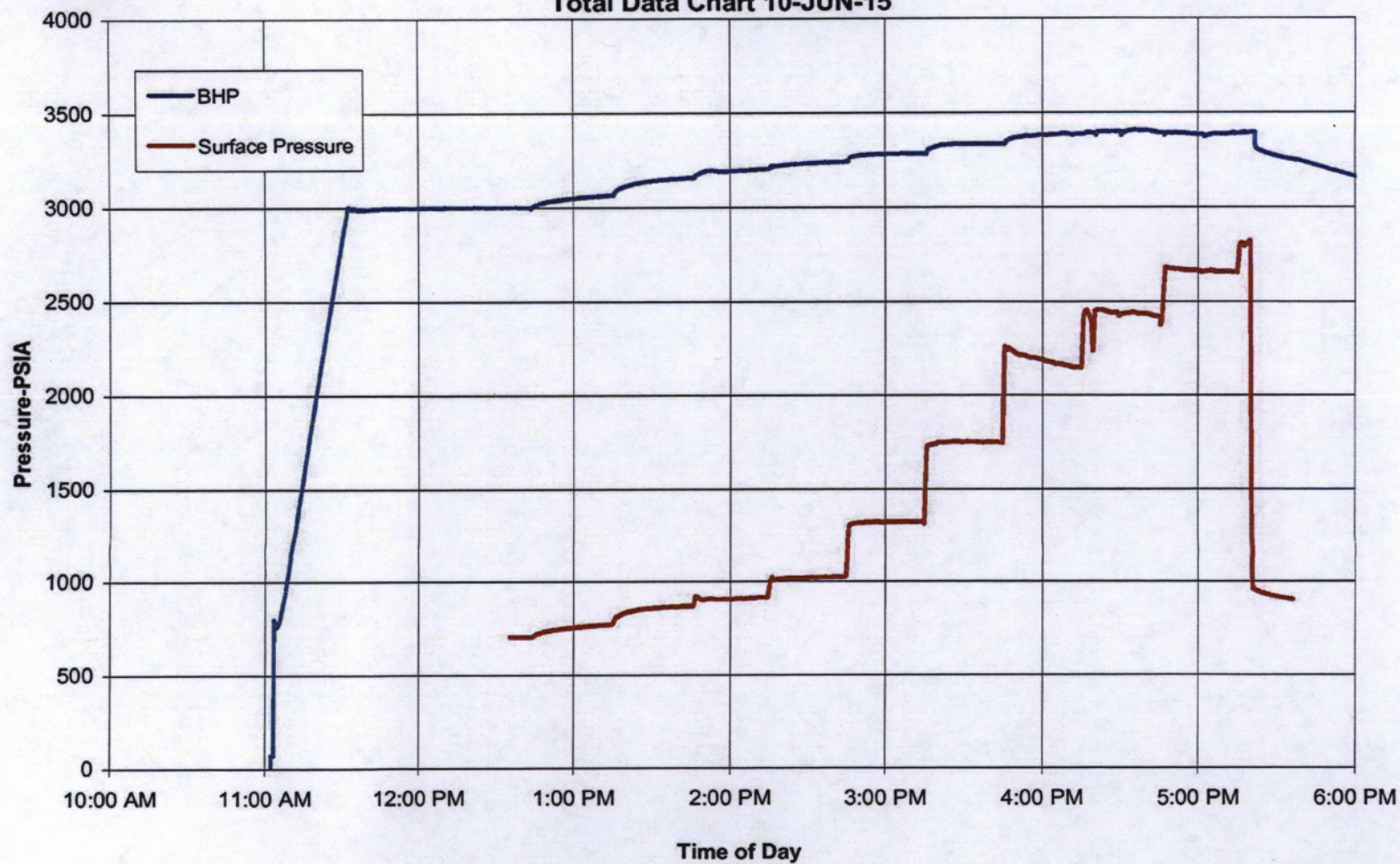


	S Time	E Time	D Time	Last Rate	Step	BHP	Surf	Cum	Delta	Avg.	Lower	Upper
			Min	BPD	BPD	PSIA	PSIA	BBL	BBL	BPD	Trend	Trend
1	11:35 AM	12:45 PM	70	0	0	3001.5	704	0	0	0		
2	12:45 PM	1:15 PM	30	720	720	3064.8	774	16.5	16.5	792		
3	1:15 PM	1:45 PM	30	1440	720	3157.9	869	47	30.5	1464		
4	1:45 PM	2:15 PM	30	2880	1440	3205.1	918	108	61	2928		
5	2:15 PM	2:45 PM	30	4320	1440	3241.5	1024	202	94	4512	3241.5	
6	2:45 PM	3:15 PM	30	7200	2880	3285.9	1327	361	159	7632	3285.9	
7	3:15 PM	3:45 PM	30	10080	2880	3335.6	1750	585	224	10752	3335.6	
8	3:45 PM	4:15 PM	30	12960	2880	3385.9	2149	871	286	13728	3385.9	
9	4:15 PM	4:45 PM	30	14400	1440	3393.3	2421	1208	337	16176		3393.3
10	4:45 PM	5:15 PM	30	15840	1440	3394	2659	1559	351	16848		3394
11	5:15 PM	5:45 PM	30	17280	1440	PUMP TRUCK UNABLE TO PUMP 12 BPM						
12	5:45 PM	6:00 PM	15	0		3252.9	906	1559	0	0		
13												
14												
15												
16												

upper trend 0.001 3376.5
lower trend 0.0157 3168.6
Intersect 14142.8571 BPD
BHP PSI 3390.64286 PSIA



Harvard Petroleum Company, LLC
James Federal No. 1 SWD
Total Data Chart 10-JUN-15

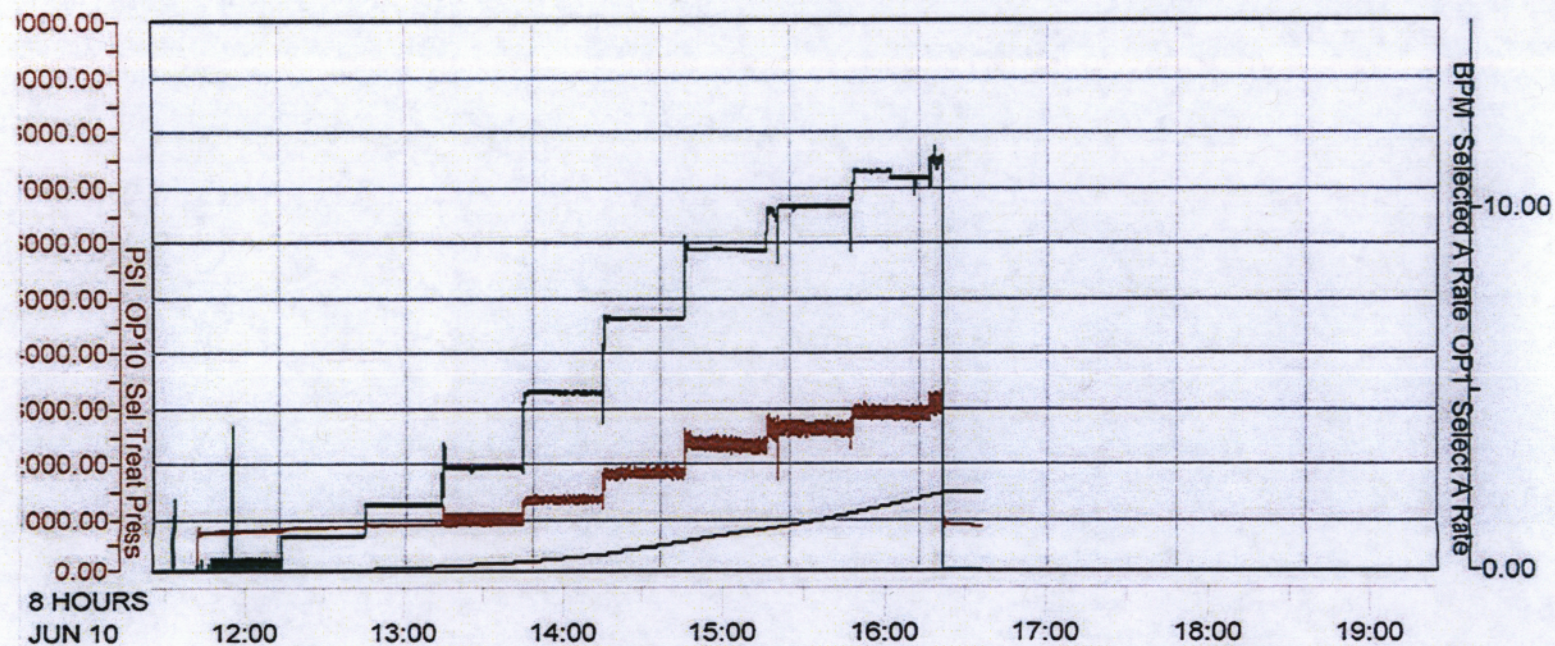


Logger Name : ACID LOGGER

File Name : 150610_112441_150610_163600.odt

Start Time : 6/10/2015 11:24:41 AM

Stop Time : 6/10/2015 4:36:00 PM



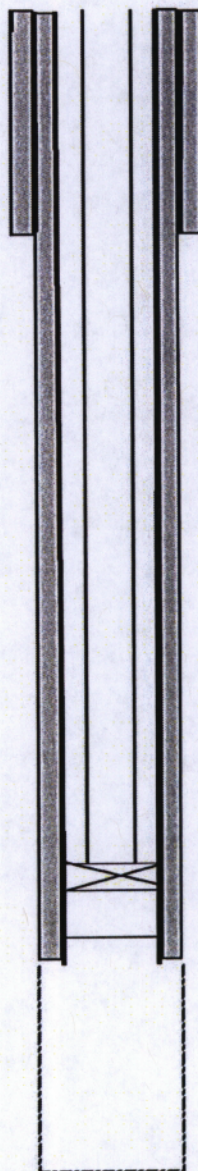
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	OP11	Casing Press	Casing Pressure (filtered)	PSI	
	OP3	Slt A Rate Tot	Selected A Rate Total	Bbl	
	OP1	Select A Rate	Selected A Rate	BPM	



Wellbore Diagram

Well Name: **James Federal #1**
Field: **W. Triste Draw, Delaware**
API: **30-025-31515**

Spud Date: **02/19/92**
Completion Date:
Last Update: **12/04/14**



Surface: 12 1/4" hole, 8 5/8" 24# K55 at 654'
cmt w/ 400 sx C +2% CaCl, circ 170 sx to pit

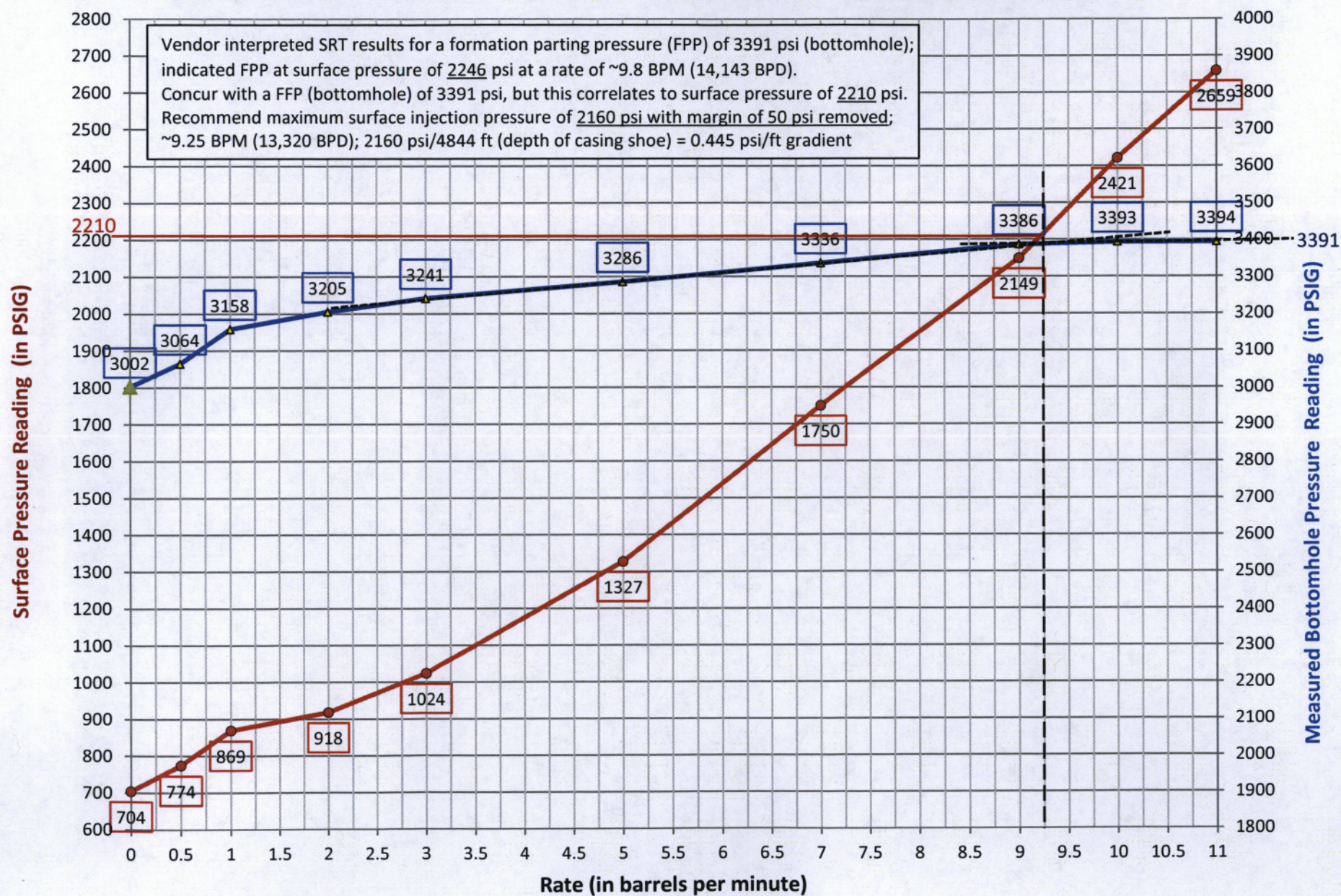
Production: 7 7/8" hole, 5 1/2" 17# K55 at 4844'
cmt w/ 100 sx C w 2% CaCl, TOC @ 4215' CBL

Tbg and Pkr: 3-1/2" 9.3# J55 plastic coated tbg, 150 jts, 8' & 10' subs
w nickel coated Arrow Set 1X Packer at 4769'

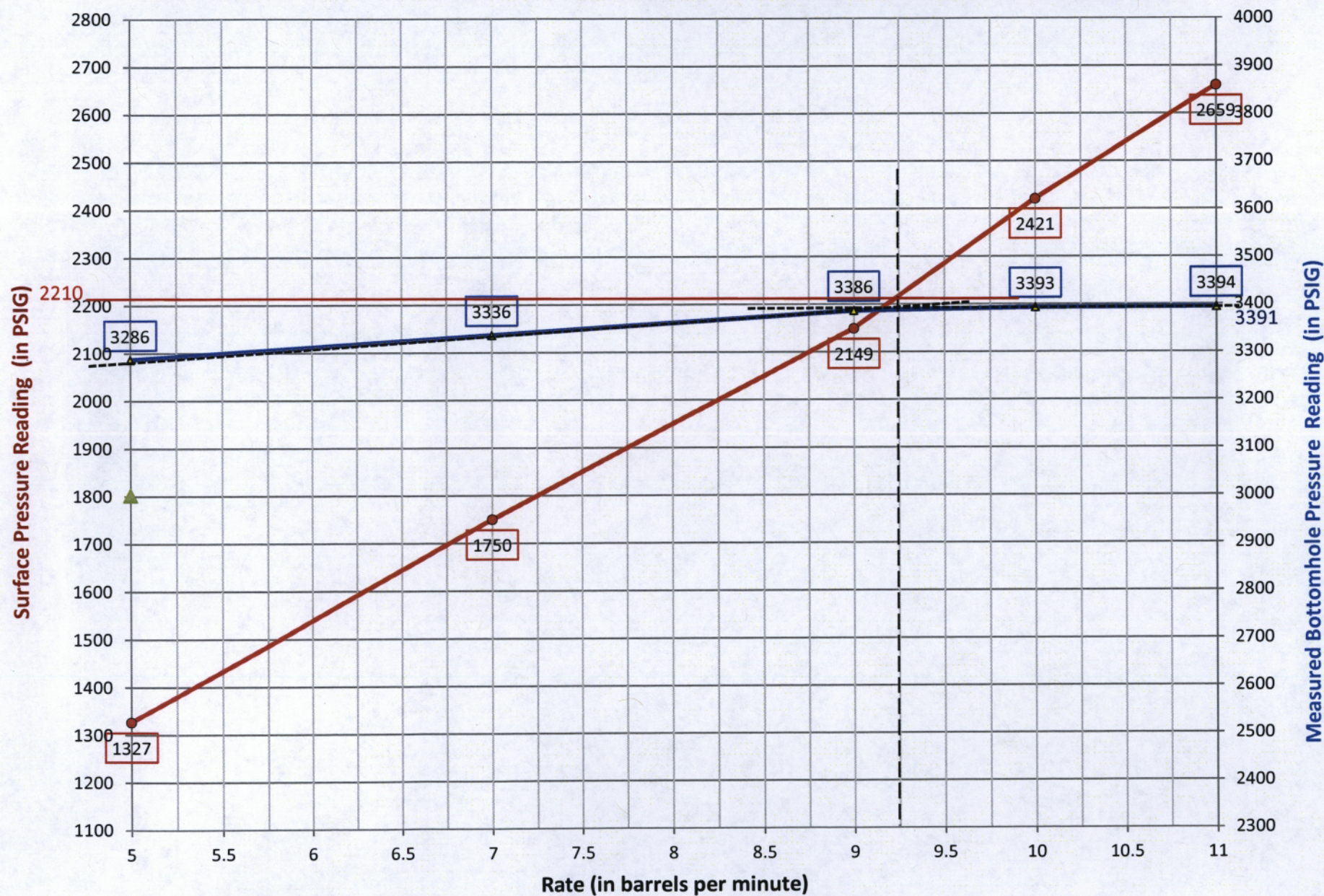
End of Casing at 4844'

Open Hole TD - 6160'

Amended SWD-486 / James Federal No. 1 - IPI Application - SRT June 10, 2015 Results



Amended SWD-486 / James Federal No. 1 - SRT June 10, 2015 Results (Detailed Projection)



Amended SWD-486/James Federal No. 1 - IPI Application - SRT 2014 Results

IPI-479
with
27/8" tubing

