

Caerus Oil and Gas, LLC

Nolte 14B-13

API: 05045223110000

Williams Fork Top: 3,068' MD

Top of Cement (from CBL): 3,960'

The Nolte 14B-13 was spud on 4/12/14, production hole reached total depth on 4/15/14 with a 8 ¾ inch bit, and a Halliburton cement job was pumped on 4/16/14. 980 sacks of 13.1ppg cement was used to cement the 4 ½ inch 11.6 lb production string. Both Lead and Tail cement were 13.1 lbs per gallon (ppg), 1.69 yield. During the drilling of the production hole, there were no losses or abnormal wellbore conditions observed. Additionally, there were full returns during the production string cement job. Based on the final circulating pressure of 1261 psi, a mud weight of 10.5 ppg, and using 2% KCl for displacement, calculated top of cement was 1,272 ft measured depth (MD) (see Figure 1 and 2).

A Halliburton CBL was run to confirm top of cement. Based on the log signatures, cement had fallen back to a depth of 3,960 ft MD. Caerus calculated the top of gas in the Williams Fork formation at 3,068 ft MD. Completion design was then based on cement isolation and economic number of stages within the gas saturated section. A total of 7 stages were completed with a top perforation at 4,322 ft MD. During frac operations, braden head pressures were monitored and recorded (see Figure 3). There was no communication or pressure increases observed during any of the 7 stages pumped on the Nolte 14B-13. The wellbore had approximately 130 psi on the braden head throughout the stages. Braden head pressure was also monitored during flowback operations, again maintaining a pressure of approximately 120-130 psi (see Figure 4).

Log data shows that there is a transition from movable gas to higher water saturations up to the top of the Williams Fork Formation and overlying Ohio Creek Formation. While log calculations indicate mobile water within the sandstones of the upper Williams Fork and Ohio Creek formations, these fluids reside in sandstones with high levels of clay. Permeability in these sandstones is low, well below a millidarcy, and minimum bound water levels are high. These sandstones will not freely produce water into the wellbore on a production time scale. Additional data shows that the overlying Wasatch section also has gas potential (see Geologic Summary) but these sandstones have insufficient porosity and permeability to flow hydrocarbon or fluid without stimulation. There are no coals present from top of cement to the surface in this area. It is the conclusion of Caerus engineering and geologic staff that while there is not cement coverage over the entire Williams Fork Formation, the objective zones for completion have sufficient coverage to prevent communication to surface. Potential gas, water, or oil zones were not completed above top of cement, and these sands in the Williams Fork and Ohio Creek formation do not have sufficient porosity or permeability to produce without stimulation. Lack of pressure responses during fracture operations indicate that the zones that were stimulated below top of cement were isolated and no cross-zone migration was or has been observed.

# Figure 1

Caerus Oil and Gas LLC- EBUS

Nolte 14B-13

**Patterson 303**

## **Post Job Summary**

# **Cement Production Casing**

Date Prepared: 04/16/2014

Job Date: 04/16/2014

Submitted by: Evan Russell – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 360446	Ship To #: 3280199	Quote #:	Sales Order #: 0901272264
Customer: CAERUS OIL AND GAS LLC - EBUS		Customer Rep: BOYD COTTOM	
Well Name: NOLTE	Well #: 14B-13	API/UWI #: 05-045-22311-00	
Field: GRAND VALLEY	City (SAP): PAR	County/Parish: GARFIELD	State: COLORADO
Legal Description: SE SE-14-7S-96W-791FSL-347FEL			
Contractor: PATTERSON-UTI ENERGY		Rig/Platform Name/Num: PATTERSON 303	
Job BOM: 7523			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HAM2616		Srvc Supervisor: Francisco Javier Castillo	
<b>Job</b>			

Formation Name	
Formation Depth (MD)	Top 1015 Bottom 6022
Form Type	BHST
Job depth MD	6022ft Job Depth TVD
Water Depth	Wk Ht Above Floor
Perforation Depth (MD)	From To

Well Data										
Description	New / Used	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
Casing	NEW	9.625	8.921	36	LTC	J-55	0	1015		0
Casing	NEW	4.5	4	11.6	LTC	N-80	0	5999		0
Open Hole Section			8.75				1015	6022	0	0

Tools and Accessories									
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make
Guide Shoe						Top Plug	4.5	1	HES
Float Shoe	4.5	1	WTF	5999		Bottom Plug			
Float Collar	4.5	1	WTF	5955		SSR plug set			
Insert Float						Plug Container	4.5	1	HES
Stage Tool						Centralizers	4.5	21	WTF

Miscellaneous Materials													
Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc	Treatment Fld	Conc	Inhibitor	Conc	Sand Type	Qty	Conc

Fluid Data										
Stage/Plug #: 1										
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
1	Fresh Water	Fresh Water	10	bbl	8.34			4		
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
2	Tail Cement	HALCEM (TM) SYSTEM	980	sack	13.1	1.69		7.5	8.86	

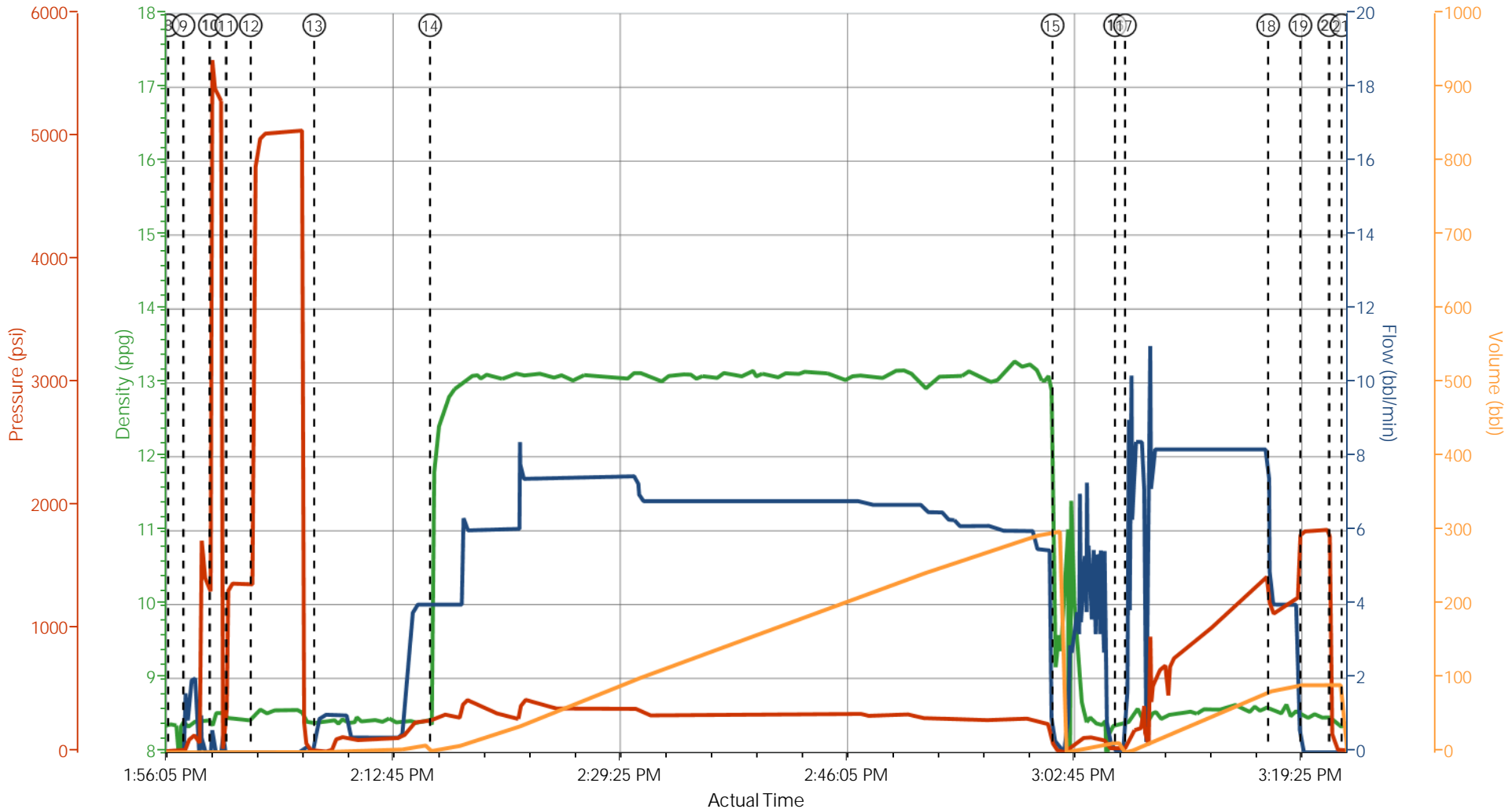
8.83 Gal		FRESH WATER							
<b>Fluid #</b>	<b>Stage Type</b>	<b>Fluid Name</b>	<b>Qty</b>	<b>Qty UoM</b>	<b>Mixing Density lbm/gal</b>	<b>Yield ft<sup>3</sup>/sack</b>	<b>Mix Fluid Gal</b>	<b>Rate bbl/mi n</b>	<b>Total Mix Fluid Gal</b>
3	KCI Displacement	KCI Displacement	93	bbl	8.5			8	
<b>Cement Left In Pipe</b>	<b>Amount</b>	43.31 ft		<b>Reason</b>	Shoe Joint				
<b>Comment</b>									

## 1.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Pump Stg Tot (bbl)	Comment
Event	1		CALL OUT	4/16/2014	06:00:00	USER					ON LOCATION AT NOON
Event	2		DEPART YARD SAFETY MEETING	4/16/2014	08:50:00	USER					
Event	3		CREW LEAVE THE YARD	4/16/2014	09:00:00	USER					
Event	4		ARRIVE ON LOCASTION	4/16/2014	10:00:00	USER					RIG WAS RUNNING CASING AND LANDED CASING AT 11:00 HRS. BEGAN TO CIRC AT 11:10 HRS.
Event	5		SPOT TRUCKS	4/16/2014	12:00:00	USER					SPOT TRUCKS AFTER CASING CREW WAS CLEAR
Event	6		RIG UP SAFETY MEETING	4/16/2014	12:15:00	USER					
Event	7		RIG UP	4/16/2014	12:20:00	USER					1-ELITE, 1-660 BULK TRUCK, FIELD BIN, 2" PUMPING IRON, 4.5" PLUG CONTAINER AND QUICK CONNECT
Event	8		START JOB	4/16/2014	13:56:33	COM5					TD-6022', OH-8.75", TP-5998.65', SJ-43.31', FC-5955.34', CSG-4.5", 11.6#, N-80, MUD-10.5 PPG, FV-53, PV-20, pH-17, TEMP-90
Event	9		FILL LINES	4/16/2014	13:57:40	USER	8.33 PPG	2 BPM	78 PSI	2 BBLS	FRESH WATER
Event	10		TEST LINES	4/16/2014	13:59:36	COM5					
Event	11		STALL OUT	4/16/2014	14:00:48	USER					TESTED AT 1374 PSI
Event	12		TEST LINES	4/16/2014	14:02:36	COM5					TESTED AT 5048 PSI AND HELD SOLID
Event	13		PUMP WATER SPACER	4/16/2014	14:07:15	COM5	8.33 PPG	4 BPM	247 PSI	10 BBLS	FRESH WATER. GOT RETURNS AND BEGAN TO BATCH UP CEMENT TUB
Event	14		PUMP CEMENT SLURRY	4/16/2014	14:15:46	COM5	13.1 PPG	7.5 BPM	270 PSI	295 BBLS	980 SKS, 13.1 PPG, 1.69 FT3/SK, 8.86 GAL/SK, SETUP TIME 3:40 HRS AT 70 BC

Event	15	SHUTDOWN	4/16/2014	15:01:26	USER						
Event	16	DROP PLUG	4/16/2014	15:06:01	USER						
Event	17	PUMP DISPLACEMENT	4/16/2014	15:06:44	COM5	8.4 PPG	8 BPM	1415 PSI	83 BBLS		KCL WITH 3 LBS OF BE-6 ON 1ST 30 BBLS AND 1 GAL OF MMCR ON 1ST 10 BBLS OF DISPLACEMENT
Event	18	SLOW RATE	4/16/2014	15:17:15	USER	8.4 PPG	4 BPM	1261 PSI	10 BBLS		KCL
Event	19	BUMP PLUG	4/16/2014	15:19:37	USER			1805 PSI	TOTAL DISP. 93 BBLS		HAD GOOD CIRCULATION THROUGH OUT THE ENTIRE JOB
Event	20	CHECK FLOATS	4/16/2014	15:21:43	USER						FLOATS HELD AND FLOWED BACK TO DISPLACEMENT TANK 0.5 BBLS
Event	21	END JOB	4/16/2014	15:22:38	COM5						NO SUGAR WAS USED
Event	22	RIG DOWN SAFETY MEETING	4/16/2014	15:25:00	USER						
Event	23	RIG DOWN	4/16/2014	15:30:00	USER						BLOW DOWN FIELD BIN AND WASH UP CEMENT PUMP TO THE PIT
Event	24	RIG DOWN COMPLETE	4/16/2014	16:45:00	USER						
Event	25	DEPART LOCATION SAFETY MEETING	4/16/2014	16:50:00	USER						NO INJURIES WERE REPORTED AFTER THE JOB
Event	26	LEAVE LOCATION	4/16/2014	17:00:00	USER						
Event	27	THANK YOU	4/16/2014	17:01:00	USER						THANK YOU FOR YOUR BUSINESS FROM JAVIER CASTILLO AND CREW

# CAERUS NOLTE 14B-13 4 1/2" PRODUCTION



— DH Density (ppg)   
 — Comb Pump Rate (bbl/min)   
 — PS Pump Press (psi)   
 — Pump Stg Tot (bbl)

- CALL OUT n/a;n/a;n/a;n/a
- DEPART YARD SAFETY MEETING n/a;n/a;n/a;n/a
- CREW LEAVE THE YARD n/a;n/a;n/a;n/a
- ARRIVE ON LOCASTION n/a;n/a;n/a;n/a
- SPOT TRUCKS n/a;n/a;n/a;n/a
- RIG UP SAFETY MEETING n/a;n/a;n/a;n/a
- RIG UP 0.63;0;52;0
- START JOB 8.4;0;1;0
- FILL LINES 8.34;0.8;62;0.1
- TEST LINES 8.48;0;5448;1.5
- STALL OUT 8.48;0;1377;1.5
- TEST LINES 8.51;0;4688;1.5
- PUMP WATER SPACER 8.35;0.9;6;
- PUMP CEMENT SLURRY 11.81;4;2;
- SHUTDOWN 9.47;0.2;18;298.7

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Created: 2014-04-16 12:10:26, Version: 3.0.121

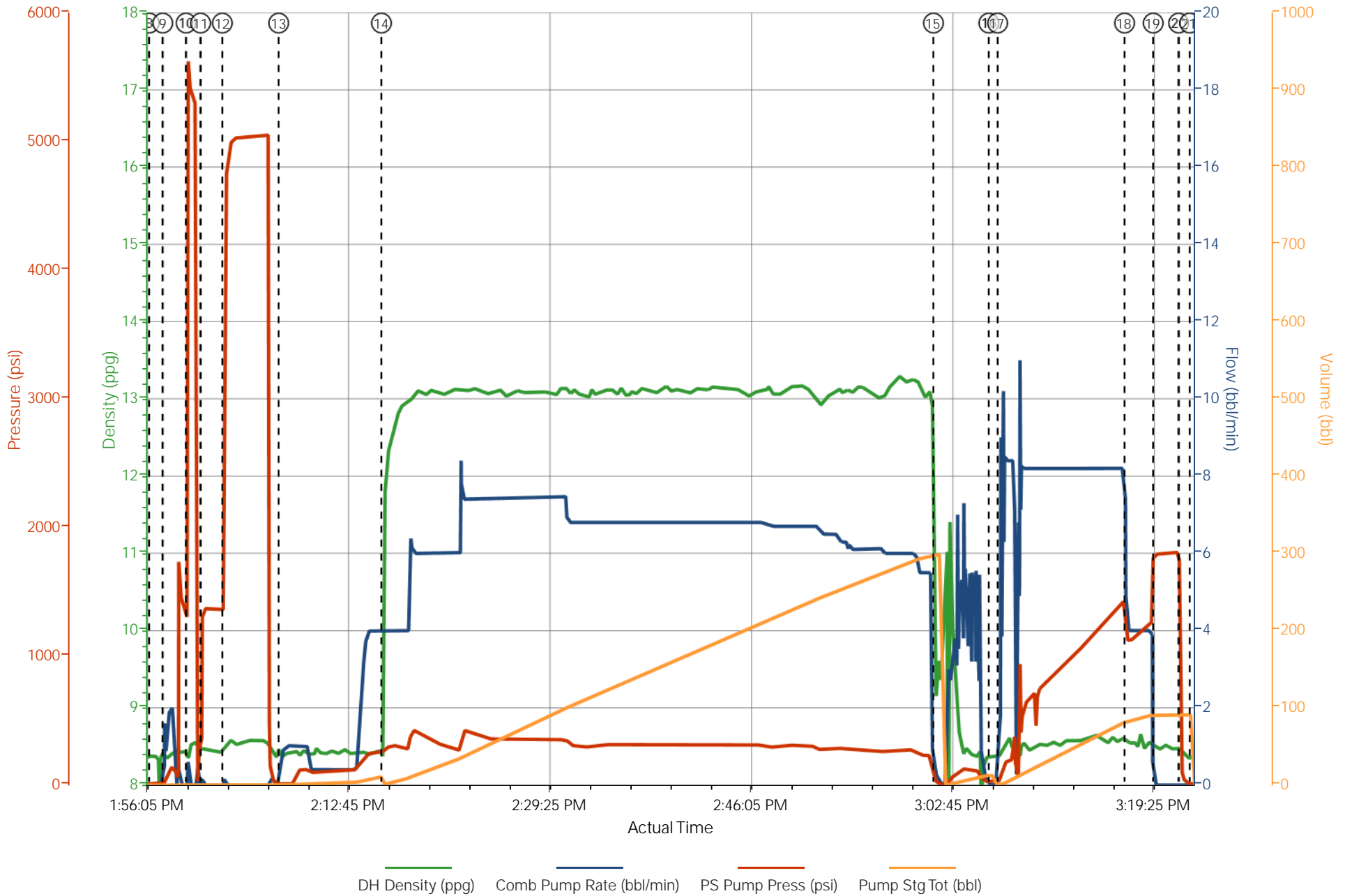
Edit

Customer: CAERUS OIL AND GAS LLC - EBUS  
 Representative: BOYD COTTOM

Job Date: 4/16/2014 12:17:23 PM  
 Sales Order #: 901272264

Well: NOLTE 14B-13  
 ELITE #2: J. CASTILLO / DAN SINCLAIR

# CAERUS NOLTE 14B-13 4 1/2" PRODUCTION



# Figure 2

## WELLBORE DIAGRAM AND CEMENT TOP CALCULATION

**NOLTE 14B-13**

Single Cement Slurry TOC Calculation:

<b>Cement Truck Final Circ'g Pressure, FCP, psi</b>	<b>1261</b>
Cement Displacement final RATE, bpm (slow final pump rate)	4
13 1/2" Surface Hole Surface Casing set at 978.3' MD, 9 5/8" 36# J55, LTC	
<b>Column of Mud Above Cement, ppg</b>	<b>10.5</b>
<b>Displace 2 % KCL, ppg</b>	<b>8.5</b>
<b>Cement density, ppg</b>	<b>13.1</b>
<b>Calculated TOC, Top of Cement (from surface), ft</b>	<b>1272</b>

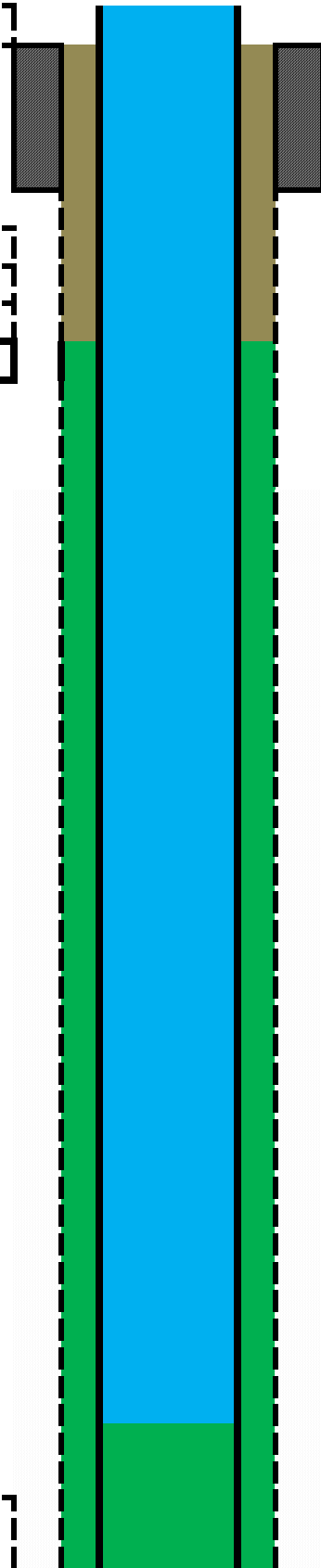
Williams Fork, TVD 2907

Top of Gas, TVD 3865

Note: Lead and Tail Cements were both 13.1 ppg cement

Yield: 1.69

Total pumped: 980 sacks



Production Casing, 4 1/2", 11.6#/ft, J-55, LTC, TVD	<b>5990.7</b>
TD 8 3/4" Hole 150' pas top of Rollins fm, MD	<b>6020</b>

Algebra:

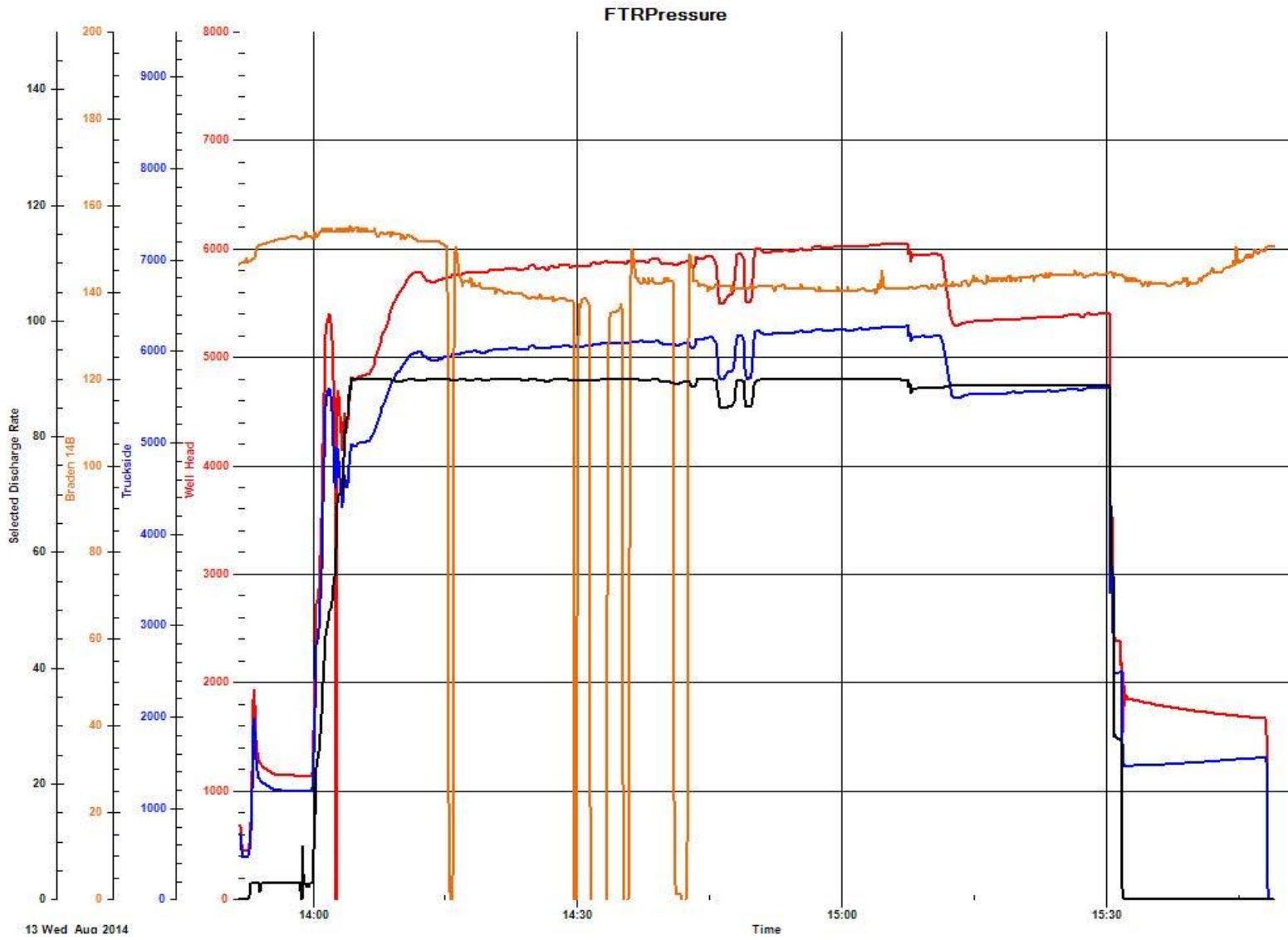
$$\begin{array}{rclcl} .052(MW)(TVD-X) & + & (.052(X)(Cmt PPG) & = & .052(KCL PPG)(TVD) + FCP \\ 3270.922 & -0.546 X & + & 0.6812 X & = & 3909 \\ & & 0.1352 X & & = & 638 \\ & & & X & = & 4719 \end{array}$$

(TVD-X) = Column Height of Mud Displaced in Annulus

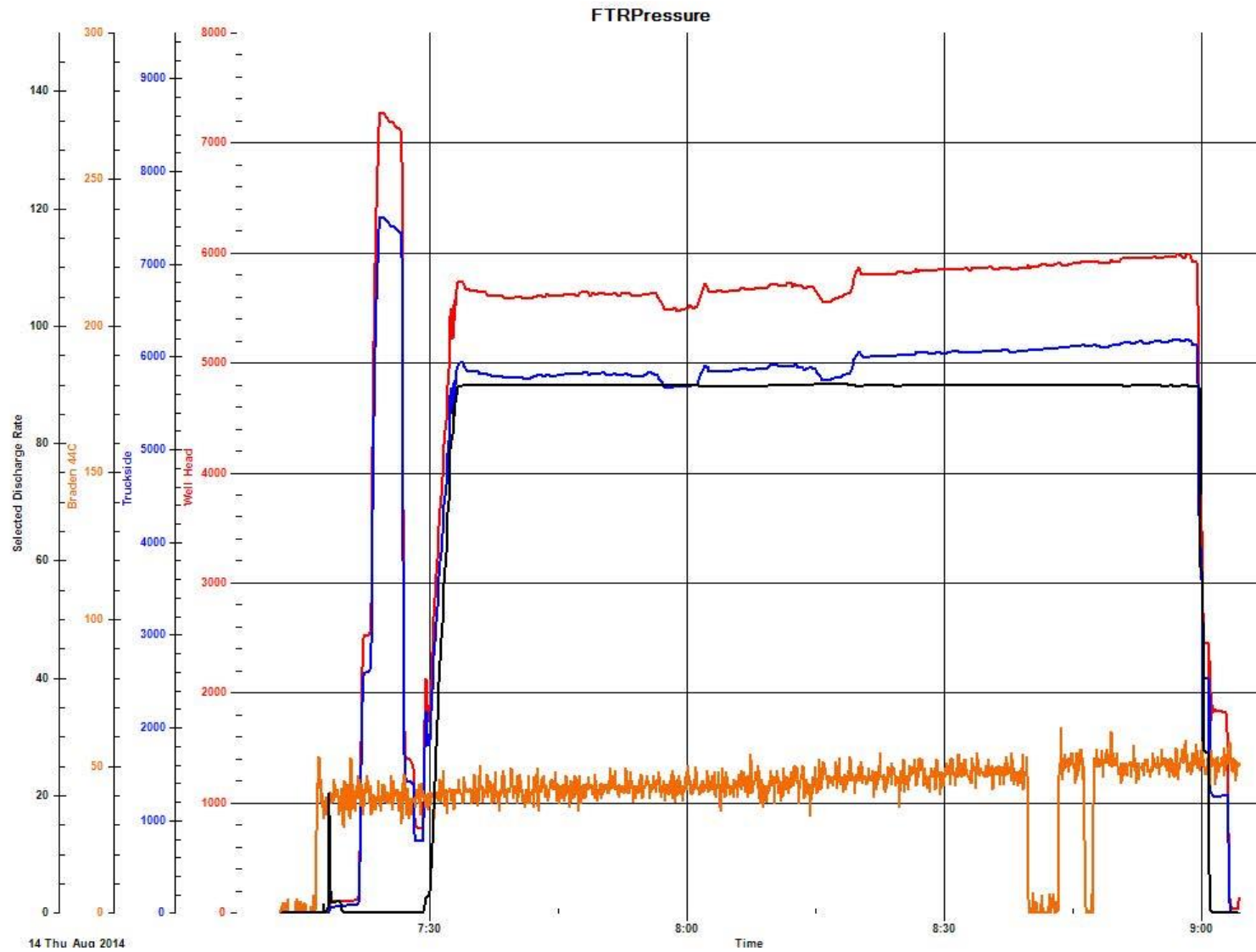
3068 MD

(X) = Column Height of Cement Pumped into Annulus  
(note this calculation only works for a single weight cement slurry)  
(i.e. Lead and Tail Cement are the same weight in ppg)

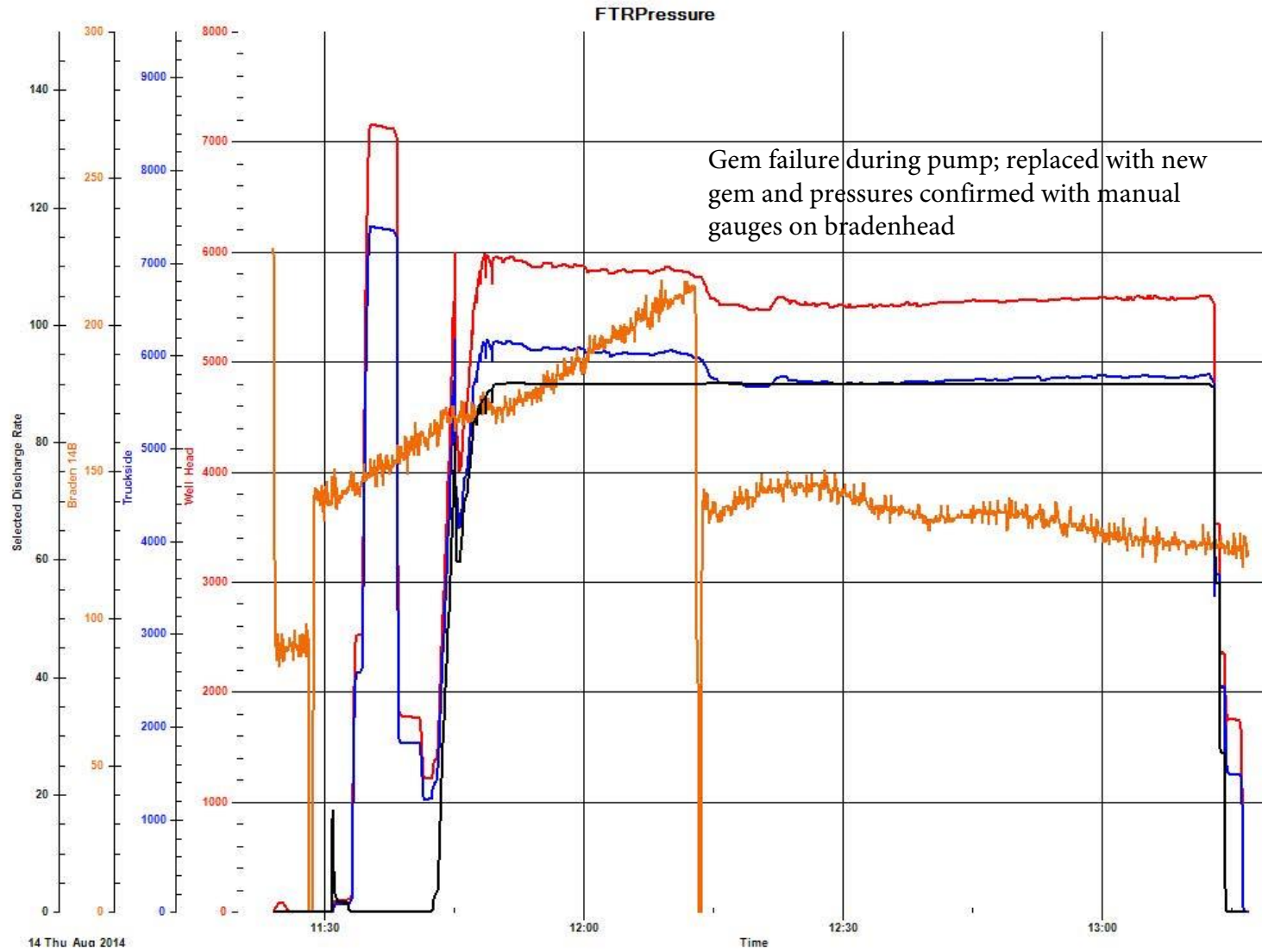
# Figure 3



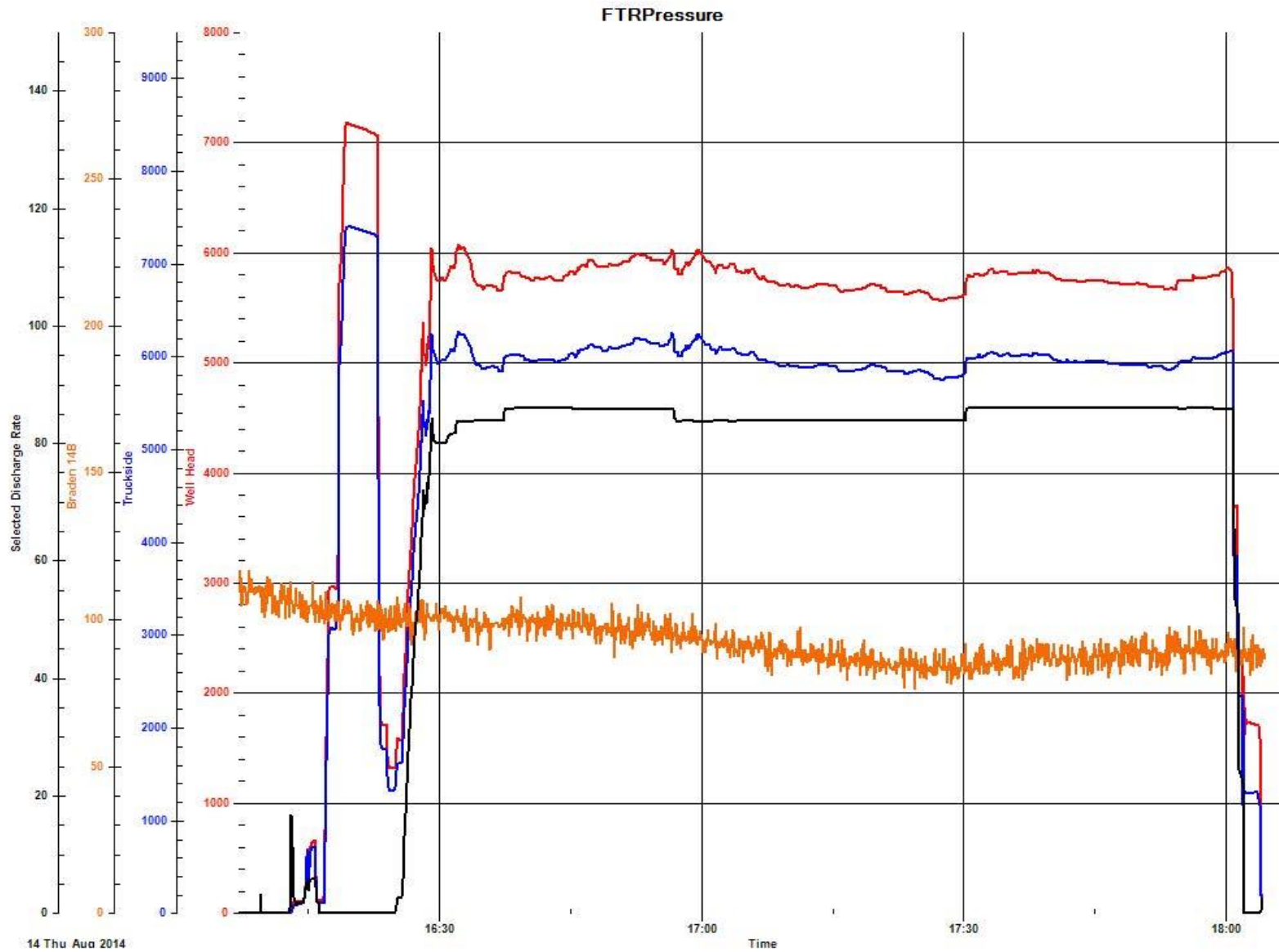
# Nolte 14B-13 Stage 2 Treatment Summary



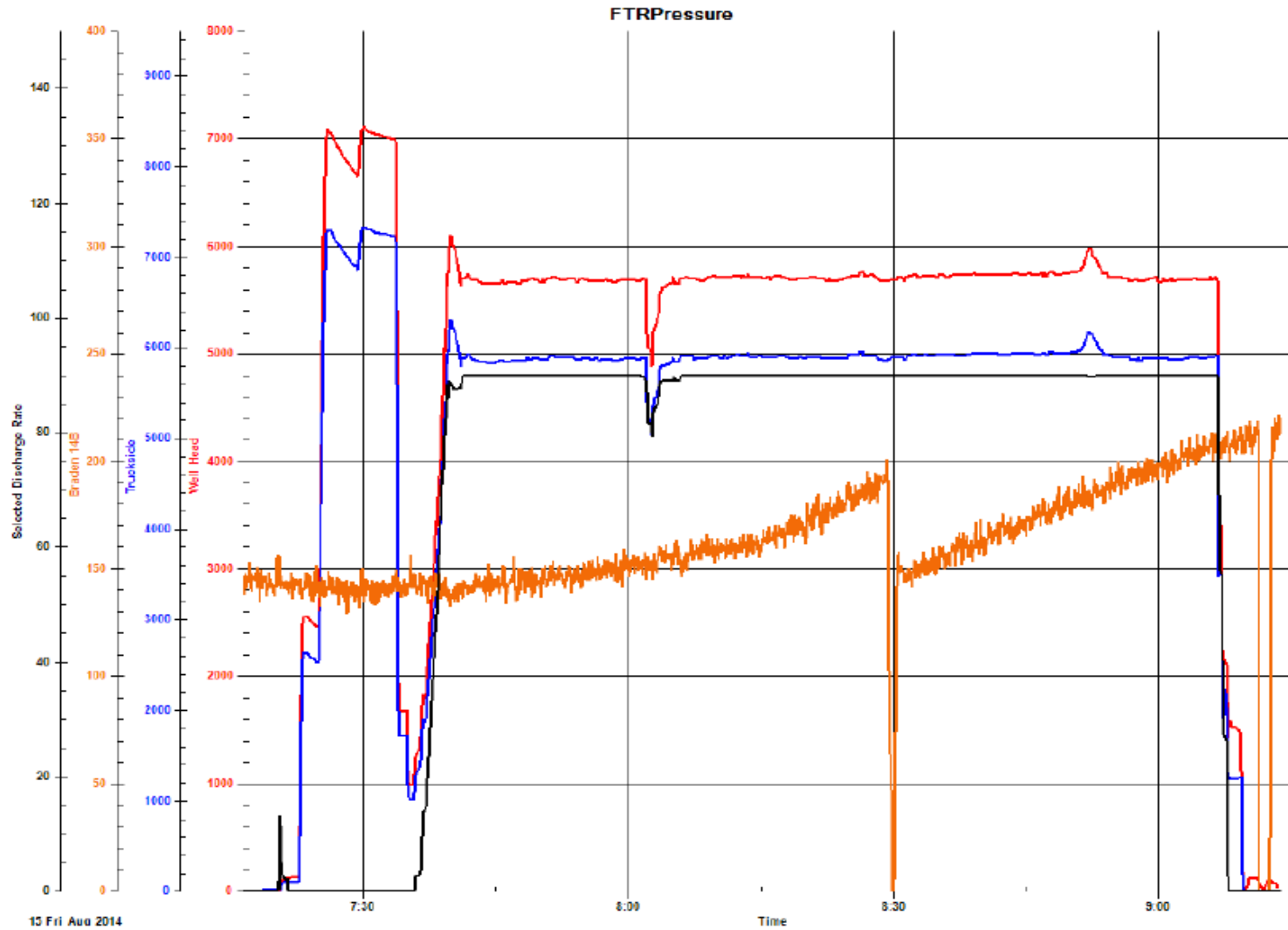
# Nolte 14B-13 Stage 3 Treatment Summary



# Nolte 14B-13 Stage 4 Treatment Summary

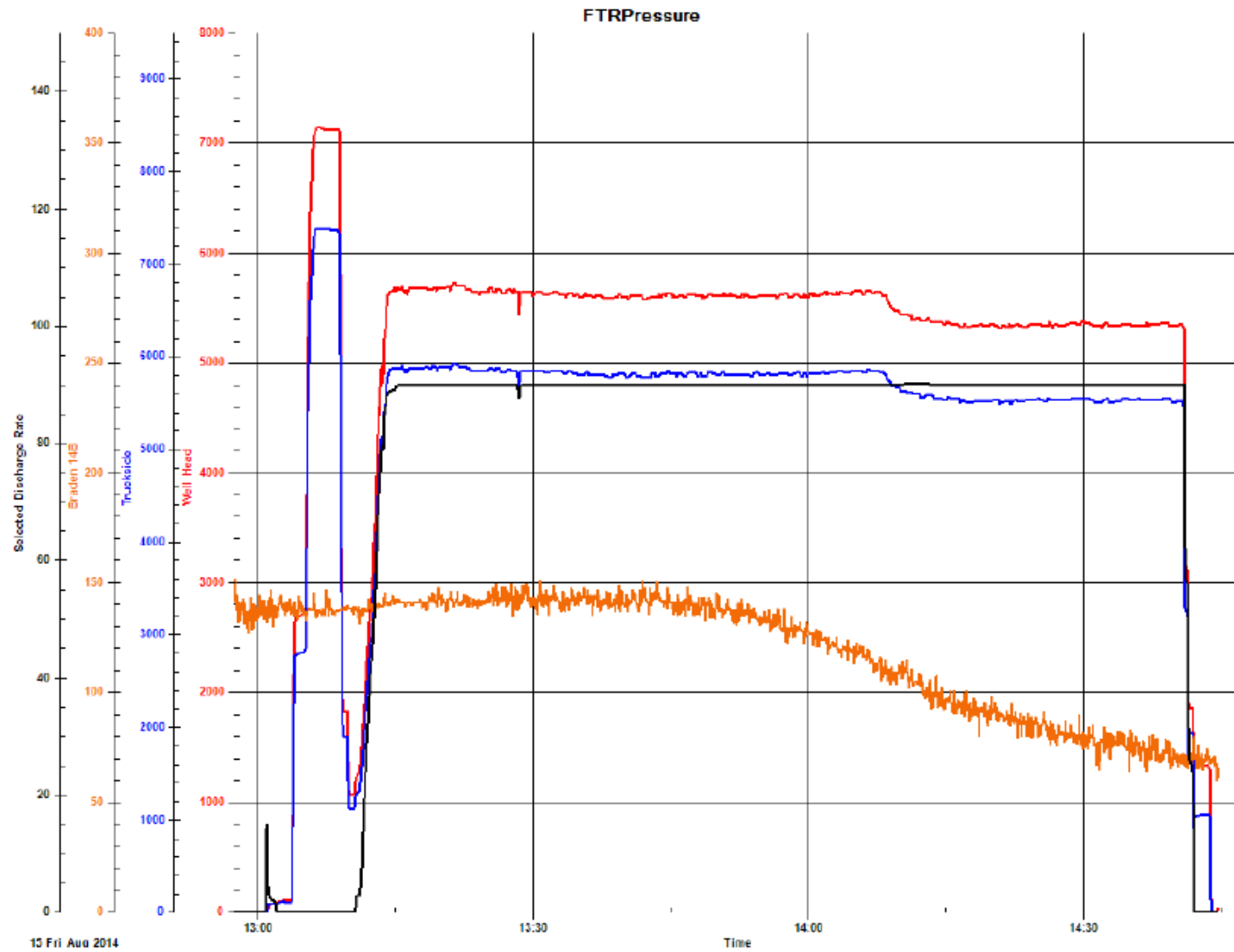


# Nolte 14B-13 Stage 5 Treatment Summary

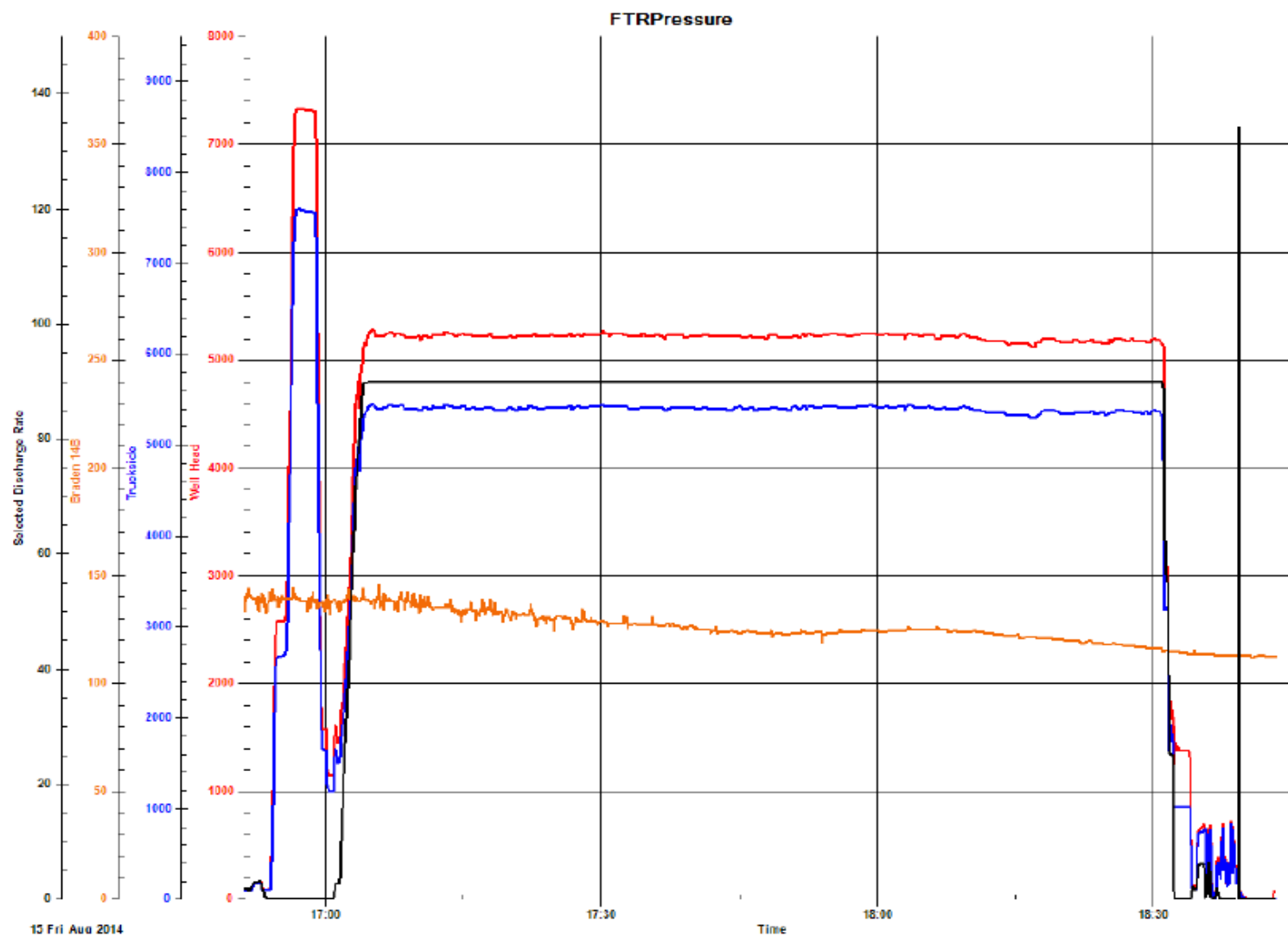


Gem and cable replaced after Stage 5 completed. Manual gauges on bradenhead confirm ~150psi during pump operations.

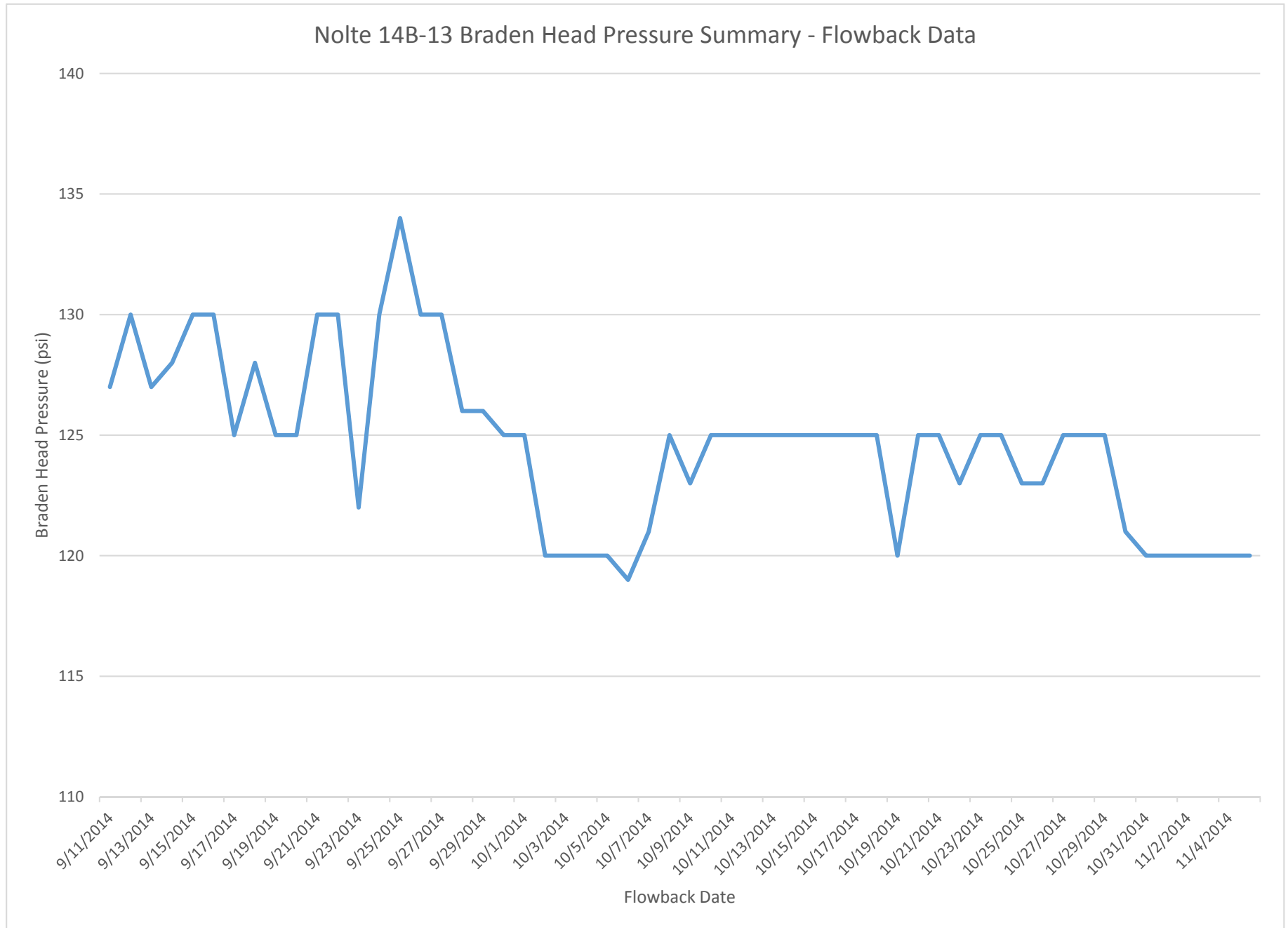
# Nolte 14B-13 Stage 6 Treatment Summary



# Nolte 14B-13 Stage 7 Treatment Summary



# Figure 4





Daily Drilling

Report for: 4/16/2014  
Report #: 7.0, DFS: 4.35  
Depth Progress: 0.00

Well Name: Nolte 14B-13

API/UWI 05045223110000	Surface Legal Location S 14 T7S R96W	License #	State/Province CO
Spud Date 4/12/2014 21:30	Rig Release Date 4/16/2014 18:00	Ground Elevation (ft) 5,088.00	KB-Ground Distance (ft) 24.00
Weather Cloudy	Temperature (°F) 35.0	Road Condition Good	Hole Condition Good
Operations at Report Time		Operations Next Report Period	

Operations Summary  
Run production casing. Cement. Nipple down BOP and flow line. Release rig.

Start Time	End Time	Dur (hr)	Cum Dur (hr)	Code 1	Code 2	Com
06:00	11:00	5.00	5.00	11	Run casing	Ran 144 jts of 4 1/2" casing.
11:00	14:00	3.00	8.00	8	C&C	Circulate and condition hole for cement. Rig up Halliburton.
14:00	15:30	1.50	9.50	25	Cement casing	Mix and pump cement. Tail cement 980 bbls, yield 1.69, bbls 295, weight 13.1, wps 8.86, FCP 1261, bump plug 1805 psi. Full returns thru out job.
15:30	18:00	2.50	12.00	9	Rig check	Lay down landing jt. Nipple down BOP. Release rig.

Type	Time	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	PV Override (cP)	YP OR (lb/100ft²)
Water Base	06:00	6,020.0	10.50	53	15.0	24.000
Gel 10 sec (lb/100ft²)	Gel 10 min (lb/100ft²)	Filtrate (mL/30min)	Filter Cake (1/32")	pH	Sand (%)	Solids (%)
23.000	36.000	8.8	2	8.6	0.8	16.0
MBT (lb/bbl)	Alkalinity (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)	Pf (mL/mL)	Pm (mL/mL)	Gel 30 min (lb/100ft²)
		1,250.000	140.000			52.000
Whole Mud Added (bbl)	Mud Lost to Hole (bbl)	Mud Lost to Surface (bbl)	Reserve Mud Volume (bbl)	Active Mud Volume (bbl)		
			610.0	1098.0		

Bit Run	Drill Bit	Length (ft)	IADC Bit Dull	TFA (incl Noz) (in²)	BHA ROP...
Nozzles (1/32")					
String Length (ft)			Max Nominal OD (in)		
String Components					
Comment					

Wellbore	Start (ftKB)	End Depth (ftKB)	Cum Depth (ft)	Cum Drill Time (hr)	Int ROP (ft/hr)	Q Flow (gpm)	WOB (1000lbf)	RPM (rpm)	SPP (psi)	Drill Str Wt (1000lbf)	PU Str Wt (1000lbf)	Drill Tq

AFE Number 1-14-016	AFE+Supp Amt (Cost) 1,438,891.00
Day Total (Cost) 111,402.00	Cum To Date (Cost) 413,885.50
Mud Field Est (Cost)	Cum Mud Field Est (Co...)
Start Depth (ftKB) 6,020.0	End Depth (ftKB) 6,020.0
Target Formation	Target Depth (ftKB)

Last Casing String  
Surface, 978.3ftKB

Job Contact	Mobile
Boyd Cottam	432-312-5195

Contractor	Rig Number
Patterson	303
Rig Supervisor	Phone Mobile
Jeff Walburg	970-404-5899


Pump #	Pwr (hp)	Rod Dia (in)	
1	1,600.0	2 1/4	
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...)	
P (psi)	Slow Spd	Strokes (s...)	Eff (%)

Pump #	Pwr (hp)	Rod Dia (in)	
2	1,600.0	2 1/4	
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...)	
P (psi)	Slow Spd	Strokes (s...)	Eff (%)

Des	Field Est (Cost/unit)	Consumed

Time	Type	Des

Wellbore Name	KO MD (ftKB)
Original Hole	

<b>FORM</b> <b>5</b> Rev 09/14	<b>State of Colorado</b> <b>Oil and Gas Conservation Commission</b> 1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303) 894-2100 Fax: (303) 894-2109		DE ET OE ES
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Document Number:  
400596648

Date Received:  
06/04/2014

This form is to be submitted within 30 days of the setting of production casing, the plugging of a dry hole, the deepening or sidetracking of a well, or any time the wellbore configuration is changed. If the well is deepened or sidetracked a new Form 5 is required. If an attempt has been made to complete/produce a well, then the operator shall submit Form 5A (Completed Interval Report.) If the well has been plugged, a form 6 (Well Abandonment Report) is required.

Completion Type  Final completion  Preliminary completion

OGCC Operator Number: 10456 Contact Name: Crissy Venturo

Name of Operator: CAERUS PICEANCE LLC Phone: (720) 352-7916

Address: 600 17TH STREET #1600N Fax: \_\_\_\_\_

City: DENVER State: CO Zip: 80202

API Number 05-045-22311-00 County: GARFIELD

Well Name: NOLTE Well Number: 14B-13

Location: QtrQtr: SESE Section: 14 Township: 7S Range: 96W Meridian: 6

Footage at surface: Distance: 791 feet Direction: FSL Distance: 347 feet Direction: FEL

As Drilled Latitude: 39.432389 As Drilled Longitude: -108.069203

GPS Data:  
Date of Measurement: 09/12/2014 PDOP Reading: 2.4 GPS Instrument Operator's Name: Harold Marshall

\*\* If directional footage at Top of Prod. Zone Dist.: 778 feet. Direction: FSL Dist.: 673 feet. Direction: FWL  
 Sec: 13 Twp: 7S Rng: 96W

\*\* If directional footage at Bottom Hole Dist.: 763 feet. Direction: FSL Dist.: 648 feet. Direction: FWL  
 Sec: 13 Twp: 7S Rng: 96W

Field Name: GRAND VALLEY Field Number: 31290

Federal, Indian or State Lease Number: \_\_\_\_\_

Spud Date: (when the 1st bit hit the dirt) 04/12/2014 Date TD: 04/15/2014 Date Casing Set or D&A: 04/16/2014

Rig Release Date: 05/12/2014 Per Rule 308A.b.

Well Classification:  
 Dry  Oil  Gas/Coalbed  Disposal  Stratigraphic  Enhanced Recovery  Storage  Observation

Total Depth MD 6020 TVD\*\* 5839 Plug Back Total Depth MD 5906 TVD\*\* 5725

Elevations GR 5088 KB 5112 **Digital Copies of ALL Logs must be Attached per Rule 308A**

List Electric Logs Run:  
Mud and CBL

**CASING, LINER AND CEMENT**

Casing Type	Size of Hole	Size of Casing	Wt/Ft	Csg/Liner Top	Setting Depth	Sacks Cmt	Cmt Top	Cmt Bot	Status
CONDUCTOR	26	16	84#	0	102	115	0	102	CALC
SURF	13+1/2	9+5/8	36#	0	978	265	0	1,015	CALC
1ST	8+3/4	4+1/2	11.6#	0	5,991	980	3,960	6,020	CBL

## STAGE/TOP OUT/REMEDIAL CEMENT

Cement work date: \_\_\_\_\_

Method used	String	Cementing tool setting/perf depth	Cement volume	Cement top	Cement bottom

Details of work:

## FORMATION LOG INTERVALS AND TEST ZONES

FORMATION NAME	Measured Depth		Check if applies		COMMENTS (All DST and Core Analysis must be submitted to COGCC)
	Top	Bottom	DST	Cored	
WILLIAMS FORK	3,068				
CAMEO	5,331				
ROLLINS	5,795				

Comment:

All casing and cement information and formation tops are measured from KB. Per the approved Form 2 APD for the subject well, one GR and one resistivity log was required for this multi-well pad. Please refer to the open hole logs submitted with the Nolte 44B-14 (API# 05-045-22297) and Nolte 14C-13 (API# 05-045-22300) Form 5 Completion Report.

I hereby certify all statements made in this form are, to the best of my knowledge, true, correct, and complete.

Signed: \_\_\_\_\_ Print Name: Crissy Venturo

Title: Permit Representative Date: 6/4/2014 Email: cventuro@progressivepcs.net

### Attachment Check List

Att Doc Num	Document Name	attached ?	
<b>Attachment Checklist</b>			
400730983	CMT Summary *	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
	Core Analysis	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
400752495	Directional Survey **	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
	DST Analysis	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
	Logs	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
	Other	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
<b>Other Attachments</b>			
400596648	FORM 5 SUBMITTED	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
400724081	FORM 5 SUBMITTED	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
400752496	DIRECTIONAL DATA	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
400752497	PDF-MUD	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
400752506	PDF-CEMENT BOND	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

### General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Agency	RETURNED TO DRAFT AT OPERATOR'S REQUEST: 11/5/14 dhs.  Operator is to supply by Sundry Notice the "as drilled" GPS when flowback operations on pad are complete. Operator is to supply TOC same way. Open hole logs were run on 045-22315 and 045-22297. Induction log was run on this well. No GPS as of 8/4/14.	6/19/2014 1:17:04 PM

Total: 1 comment(s)