

**Final Operational/Workover Report**  
**Well Workover**  
**Para et al Cameron 2F-73**  
**Well ID # 2025**  
**UWI: 302F736010117152**

On January 31, 2007 Paramount Resources Ltd. moved Concord Well Servicing rig # 19 onto Para et al Cameron 2F-73 to perform a workover operation to stimulate the well with a sand fracture treatment. Service rig operations were completed on February 8, 2007. A chronological summary of the operations follows.

- 31/1/2007:** Moved service rig onto location and rigged up service rig and ancillary equipment. Removed the horses head. Unseated the bottom hole pump. Pulled out of the hole with the sucker rods and recovered the BHP.
- 1/2/2007:** Reverse circulated to kill the well. Pumped 14 m<sup>3</sup> KCl water down the casing with no returns. Casing on vacuum. Pumped 3 m<sup>3</sup> KCl water down the tubing. Removed the pumping wellhead and installed the BOP's. Unset the tubing hanger and tubing anchor and pulled out of the hole with the production tubing. Re-ran the production tubing with a retrievable packer on bottom. Set packer at 1518 mKB. Pressure tested the packer to 10 MPa.
- 2/2/2007:** Installed a tree saver on top of the BOP's. Rigged in fracturing equipment. Started pumping pad. Formation broke at 38.3 MPa. Started sand increasing concentration in 100 kg/m<sup>3</sup> increments. Stopped increasing concentration at 600 kg/m<sup>3</sup>. Pressure reached 55 MPa with 4.7 tonnes sand in formation. Stopped pumps. Calculated sand top at 1522 meters. Rigged out fracturing equipment. Opened well to test vessel. Pressure bled to zero kPa in one minute. Removed the tree saver. Monitored pressures overnight.
- 3/2/2007:** Shut in tubing pressure was zero. Shut in casing pressure was 4200 kPa. Rigged in slickline unit. Ran in and tagged sand level at 1146 meters.
- 4/2/2007:** Tubing and casing pressures both zero. Waited on coiled tubing unit. Unit arrived late in day so coiled tubing unit spotted on location.
- 5/2/2007:** Rigged in coiled tubing unit. Ran in with coiled tubing and cleaned wellbore out to PBTD at 1538 mKB by circulating with water. Pulled out of the hole with the coiled tubing.
- 6/2/2007:** Rigged to swab and pulled eight swabs. Recovered 8.26 m<sup>3</sup> water during swabbing. The well started to flow. Testers flowed well overnight.

**7/2/2007:** Shut well in at 8:00 AM. Final flowing rate approximately 1.2 m<sup>3</sup>/hour at 48 kPa with a 75% water cut. Pumped 4.5 m<sup>3</sup> water down tubing. Unset the packer and pulled the tubing out of the hole recovering the packer. Re-ran the tubing with a PSN and tubing anchor on bottom. Tagged sand at 1531 mKB.

**8/2/2007:** Reverse circulated with 33 m<sup>3</sup> water to clean out sand. Set the tubing anchor with tubing bottom at 1534 mKB. Re-ran the rod string with a new bottom hole pump on bottom. Filled tubing with water and stroke tested the pump with the service rig to 5 MPa. Installed the horses head and hung the rod string in the bridle. Rigged out the service rig and ancillary equipment.

# Treatment Summary

<b>General Info</b>			<b>CalFrac Rep:</b>	Derek Pearson	281
LSD:	2F-073		Calfrac Service Line:	FRAC	
Customer:	Paramount Resources Ltd. 9		Job Date:	February 2, 2007	
	4700, 888 - 3rd Street SW		Job Type:	DynAqua-1	
	Calgary, AB		Program Number:	FCWK0285MB	
	T2P 5C5		Service Order #:	54616	

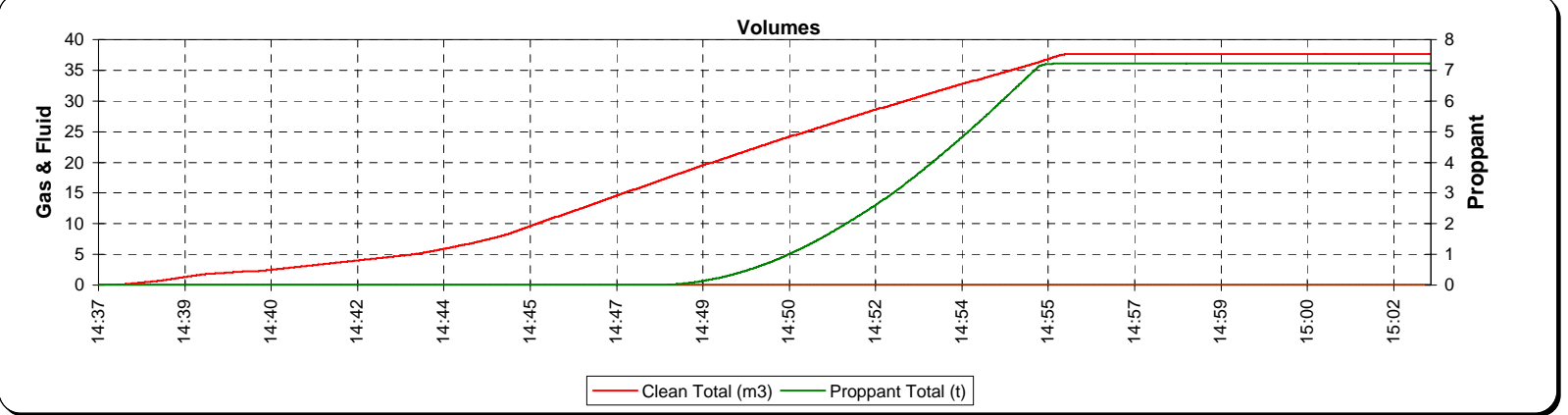
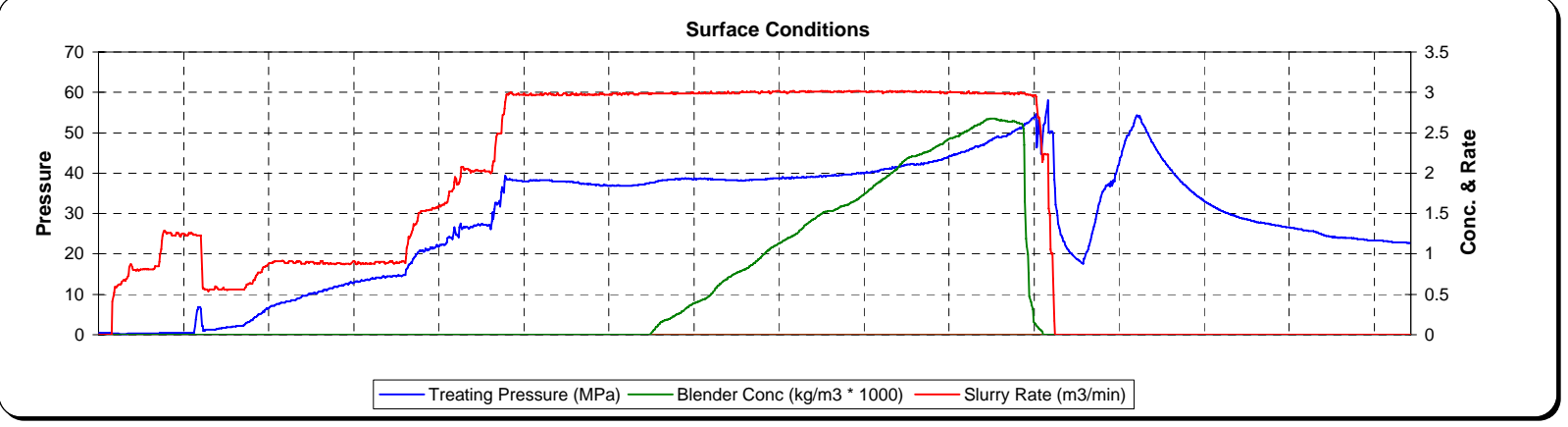
Wellbore Data								Perforations			
Type	Wellbore Configuration			Capacity	Max Pres	Depth	Volume	(m³)	Top	Bottom	SPM
	Size	Weight	Grade	(m³/m)	(MPa)	(m)	(m³)	Hole Fill	(m)	(m)	
Tubing:	73.0	9.67	J-55	0.003021	50.1	1520.0	4.59	4.66	1525.5	1531.0	17
Casing:	139.7	20.83	J-55	0.012730	29.4	1525.5	0.07	TreatmtVol			
								4.66			

Packer (m)	1508.0	PBTD (m)	1547.0	Treating Mode	Down Tubing	Formation Treated	Sulphur Point Gas
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<b>Proppant Data</b>				<b>Acid Spearhead</b>		<b>Ball Sealers</b>	
Proppant Type	Sand			Type		Size	No.of Balls
Mesh Size	20/40			Volume	m³		Weight
Pumped	9.0		tonnes	<b>Pump Power</b>		<b>Fluid in Tanks</b>	
In Formation	4.7		tonnes	Available	3000 kW	Pre-Job	60.0 m³
Final Conc @ Perfs	600		kg/m³	Fluid	2000 kW	Post-Job	20.0 m³
Estimated Sand Top	1522.5		m	CO2	kW	Total Used	2000 kW

Max Treating Pressure	55.0 MPa	Initial Well Press	0.4 MPa	ISIP Press	47.7 MPa
Max Allowable Press	55.0 MPa	Breakdown Press	14.9 MPa	1 Minute Shut In Press	33.9 MPa
Annular Relief Set	18.0 MPa	Average Pressure	40.0 MPa	5 Minute SIP	22.7 MPa
Annulus Pressure	21.0 MPa	Maximum Fluid Rate	3.0 m³/min	Frac Gradient:	41.1 kPa/m
		Maximum CO2 Rate	m³/min	Flush Fluid Density	1000 (kg/m³)

<b>Fluid Summary</b>				Total Fluid Pumped	37.3 m³
Fluid Pre-frac Ball Off	m³	Hole Fill Fluid Volume	3.4 m³	Proppant Fluid Volume	20.0 m³
Pre-Pad Fluid Volume	m³	Pad Fluid Volume	13.3 m³	Flush Fluid Volume	0.6 m³

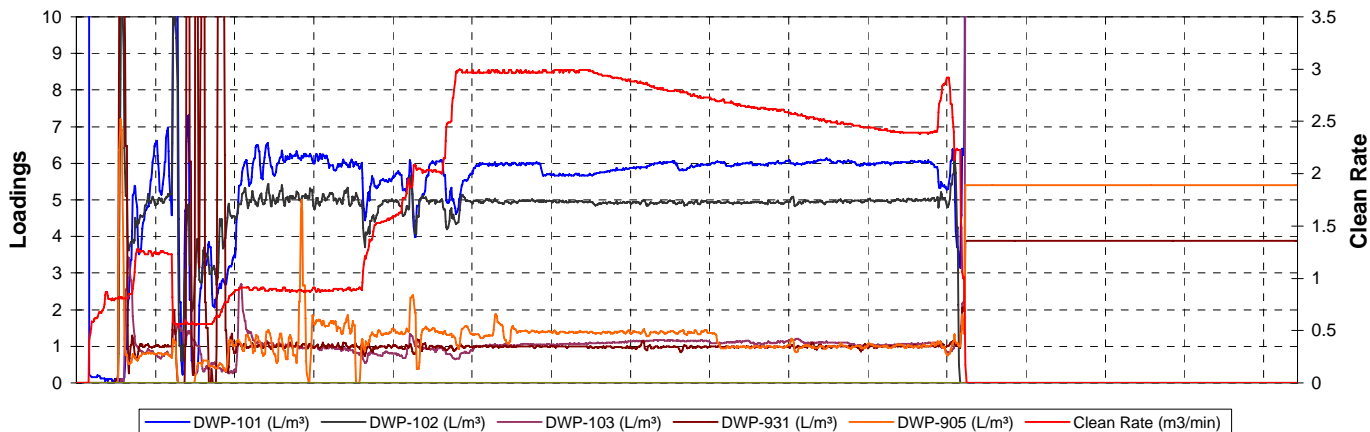


## General Info

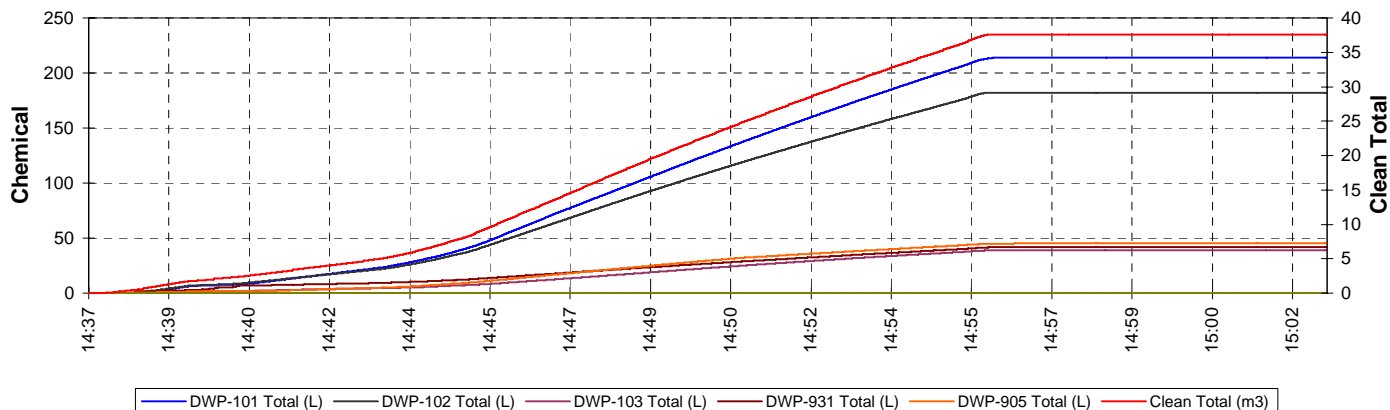
LSD: 2F-073  
 Customer: Paramount Resources Ltd. 9  
 4700, 888 - 3rd Street SW  
 Calgary, AB  
 T2P 5C5

Calfrac Service Line: FRAC  
 Job Date: February 2, 2007  
 Job Type: DynAqua-1  
 Program Number: FCWK0285MB  
 Service Order #: 54616

## Chemical Loadings



## Chemical Total



## Nitrogen Data

N2 Rate		scm/min
N2 Space Factor For Job		m³/m³
N2 Space Factor For Flush		m³/m³
N2 Pumped		scm
N2 Losses		scm
Total N2		scm

## CO2 Data

CO2 Rate		m³/min
Average CO2		%
CO2 Pumped		m³
CO2 Losses		m³
Total CO2		m³
Total CO2 Gas		scm

## Acid Spearhead Data

Type	Volume	m3
Chemical Name	Conc.	Loading Total Units
	L/m³	L
	L/m³	L
	L/m³	L
	L/m³	L
	L/m³	L
	L/m³	L
	L/m³	L

## Chemical Data

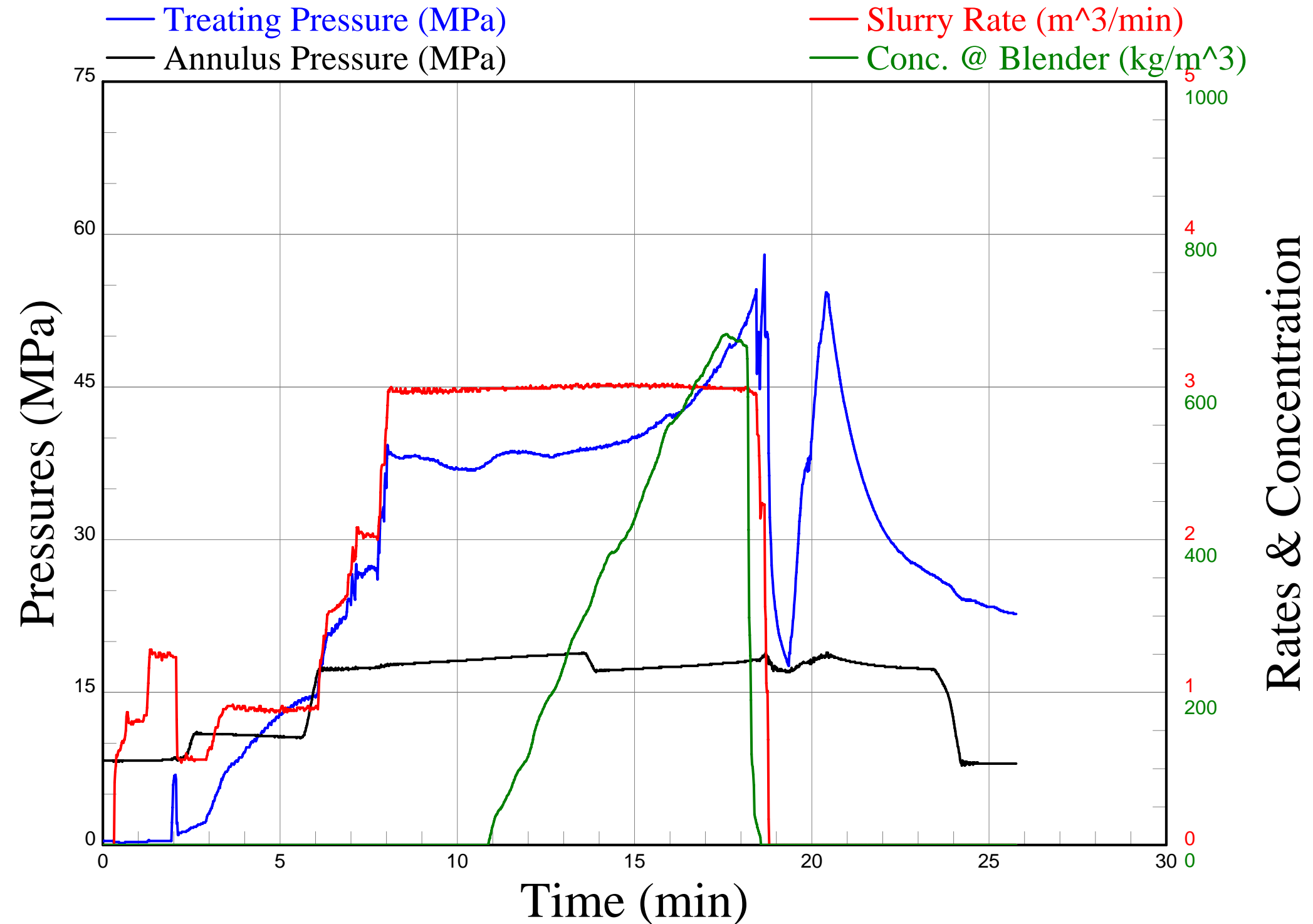
Chemical Name	Pumped	Losses	Total	Units
DWP-101	213.8	36.2	250.0	L
DWP-102	181.7	33.3	215.0	L
DWP-103	39.0	31.0	70.0	L
DWP-931	41.6	33.4	75.0	L
DWP-905	45.3	29.7	75.0	L
				L
				L
				L

## Remarks:

Customer Representative: Kim Macleod

Calfrac Supervisor: Derek Pearson

# Paramount 2F-073 Surface



# Paramount 2F-073 Bottom Hole

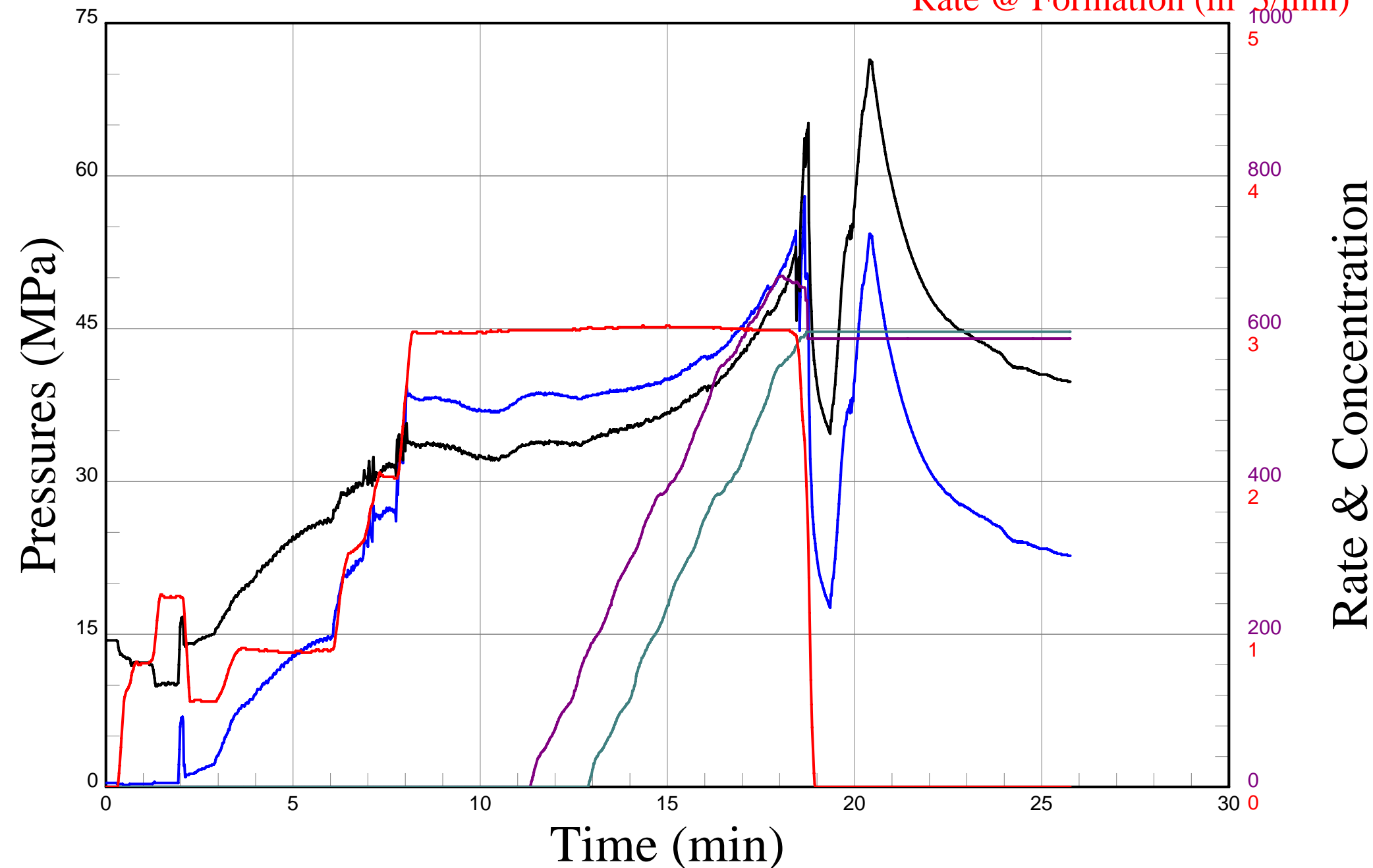
— Treating Pressure (MPa)

— Bottom Hole Pressure (MPa)

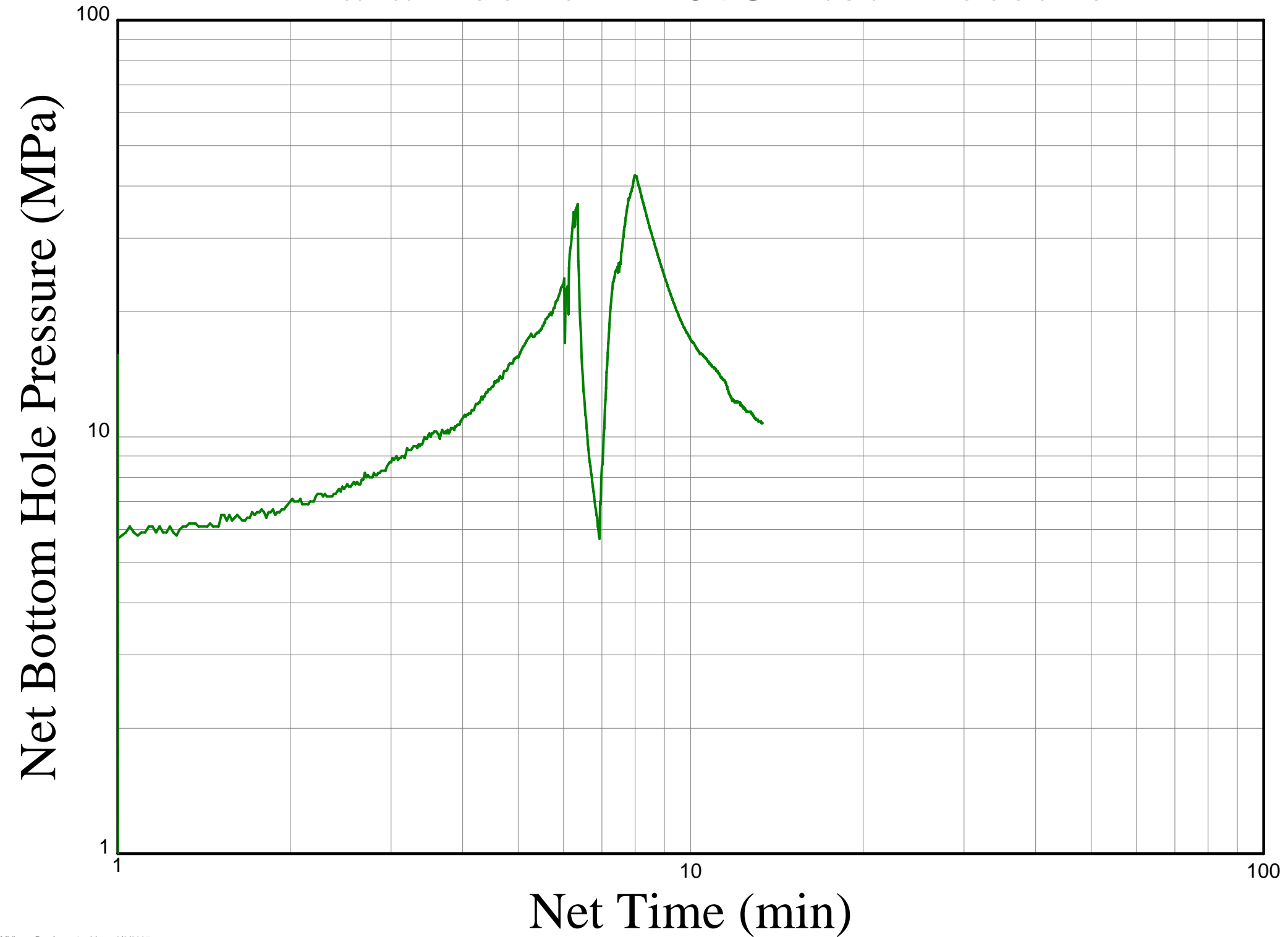
— Conc. @ Well Head (kg/m<sup>3</sup>)

— Conc. @ Formation (kg/m<sup>3</sup>)

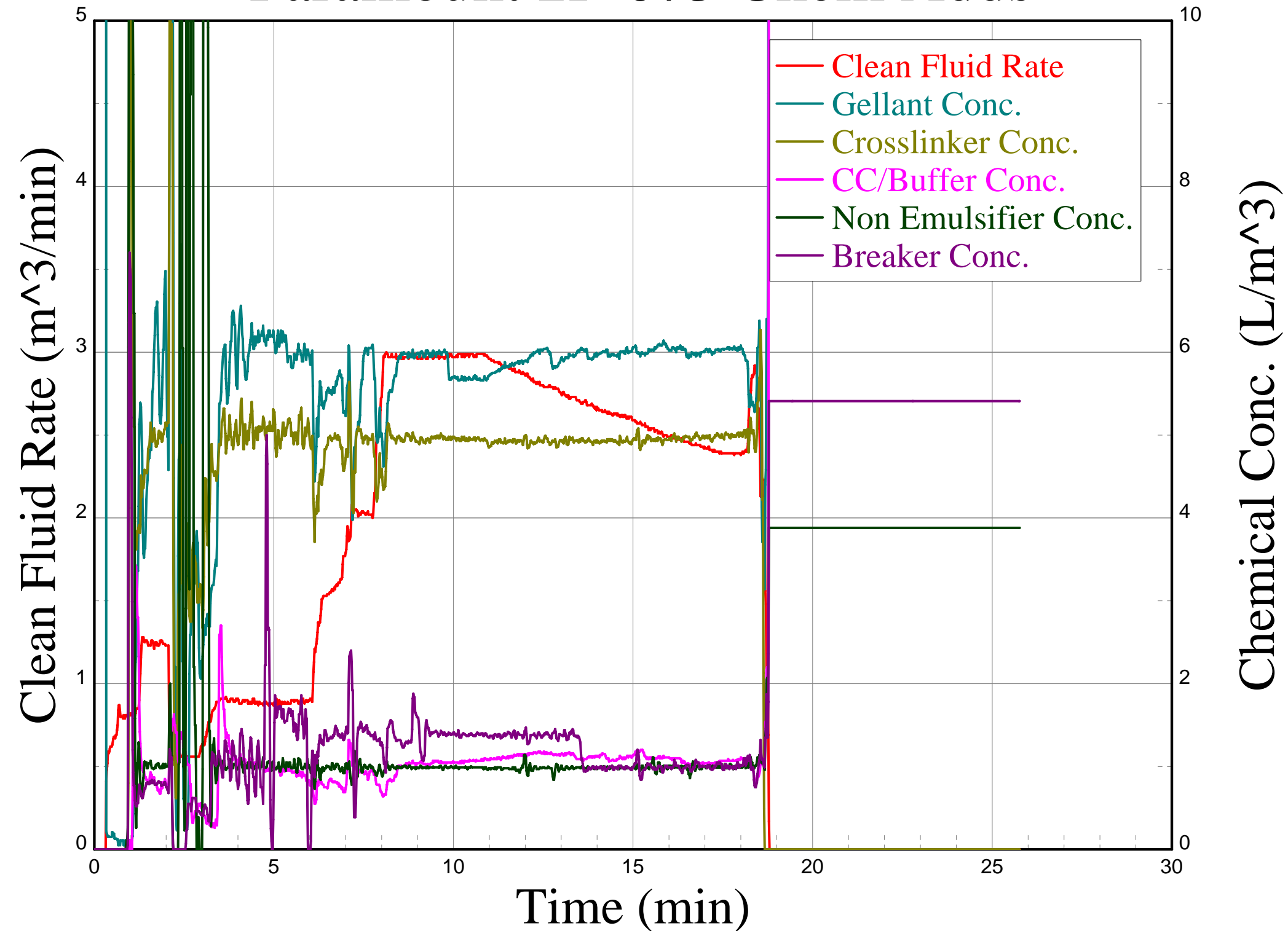
— Rate @ Formation (m<sup>3</sup>/min)



# Paramount 2F-073 Net Pressure



# Paramount 2F-073 Chem Adds



August 31, 2009

**National Energy Board**  
5<sup>th</sup> Floor, 444 – 7 Avenue SW  
Calgary, Alberta  
T2P 0X8

**Attention: Mr. Bharat Dixit, Chief Conservation Officer**

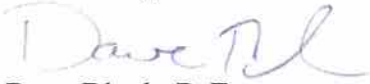
Dear Sir,

**Re: Request for Outstanding Reports for Paramount Wells**

In response to your Request for Outstanding Reports for Paramount Wells to myself on March 9, 2009 and to Lloyd Doyle on June 9, 2009 Paramount offers the following. Please find enclosed the requested information for the remainder of the wells that were requested. Final Operational Reports are included for Cameron A-05, Bovie C-76A, Liard M-25, Fort Liard O-35 (two separate reports), Southeast Fort Liard N-01, Bovie F-66, Cameron C-74, Cameron H-03 (two separate reports), Cameron K-74, Liard 2M-25, Cameron 2F-73, Cameron L-73, CameronJ-04 (two separate reports), Cameron L-29, Cameron E-07, Cameron L-40, Cameron A-03, and Cameron E-72.

Should you require additional information on this application, please contact Dave Block at 206-3834 or fax 266-6032.

Yours truly,



Dave Block, P. Eng.  
Engineering Consultant

2009 AUG 31 P 2:10  
NEB/ONE  
SALE DE COURIER