KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1100325

Form ACO-1
June 2009
Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 34734
Name: Petro River Operating, LLC
Address 1: 4925 GREENVILLE, STE 900
Address 2:
City: DALLAS State: TX Zip: 75206 + __ __ __ __
Contact Person: Ruben Alba
Phone: (303) 416-0012
CONTRACTOR: License # 99975
Name: COMPANY SERVICING TOOLS
Wellsite Geologist: N/A
Purchaser:

Designate Type of Completion:

☐ New Well ☑ Re-Entry ☐ Workover

☐ Oil ☐ WSW ☐ SWD ☐ SIOW
☐ Gas ☐ D&A ☐ ENHR ☐ SIGW
☑ OG ☐ GSW ☐ Temp. Abd.
☐ CM *(Coal Bed Methane)*
☐ Cathodic ☐ Other *(Core, Expl., etc.)*:

If Workover/Re-entry: Old Well Info as follows:

Operator: Petro River Operating, LLC
Well Name: Scully 1-9
Original Comp. Date: 12/10/2008 Original Total Depth: 3049

☐ Deepening ☑ Re-perf. ☐ Conv. to ENHR ☐ Conv. to SWD
☐ Conv. to GSW
☐ Plug Back: Plug Back Total Depth
☐ Commingled Permit #:
☐ Dual Completion Permit #:
☐ SWD Permit #:
☐ ENHR Permit #:
☐ GSW Permit #:

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
08/10/2012		08/10/2012

API No. 15 - 15-115-21400-00-01
Spot Description:
__ - SW - NE - SE Sec. 9 Twp. 19 S. R. 3 ☑ East ☐ West
1650 Feet from ☐ North / ☑ South Line of Section
990 Feet from ☑ East / ☐ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☑ SE ☐ SW
County: Marion
Lease Name: SCULLY Well #: 1-9
Field Name: Lost Springs
Producing Formation: Mississippian Chat
Elevation: Ground: 1368 Kelly Bushing: 1374
Total Depth: 3080 Plug Back Total Depth: 3049
Amount of Surface Pipe Set and Cemented at: 210 Feet
Multiple Stage Cementing Collar Used? ☐ Yes ☑ No
If yes, show depth set: Feet
If Alternate II completion, cement circulated from:
feet depth to: w/ sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)

Chloride content: ppm Fluid volume: bbls
Dewatering method used:
Location of fluid disposal if hauled offsite:
Operator Name:
Lease Name: License #:
Quarter Sec. Twp. S. R. ☐ East ☐ West
County: Permit #:

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

☐ **Letter of Confidentiality Received**
Date:
☐ **Confidential Release Date:**
☐ **Wireline Log Received**
☐ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☐ I ☑ II ☐ III **Approved by:** Deanna Garrison **Date:** 11/09/2012

Side Two

1100325

Operator Name: Petro River Operating, LLC Lease Name: SCULLY Well #: 1-9

Sec. 9 Twp. 19 S. R. 3 ☑ East ☐ West County: Marion

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken ☐ Yes ☑ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☐ Yes ☑ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☐ Yes ☑ No

Electric Log Submitted Electronically ☐ Yes ☐ No
(If no, Submit Copy)

List All E. Logs Run:

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Lansing-Kansas City	1854	-485
Base of Kansas City	2249	-880
Mississippian Chat	2418	-1049
Mississippian Lime	2485	-1116
Kinderhook Shale	2532	-1163
Viola Lime	2796	-1400
Arbuckle Dolomite	2938	-1569

CASING RECORD ☐ New ☐ Used

Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:
☐ Perforate
☐ Protect Casing
☐ Plug Back TD
☐ Plug Off Zone

Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
-			
-			

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record *(Amount and Kind of Material Used)*	Depth
2	2422-2426	95 bbl NE-FE, 13,334 bbl Slickwater	2422
4	2454-2464		

TUBING RECORD: Size: 2.875 Set At: 2500 Packer At:

Liner Run: ☐ Yes ☐ No

Date of First, Resumed Production, SWD or ENHR. 10/18/2012

Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	3	6	297		

DISPOSITION OF GAS:
☐ Vented ☑ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)*

PRODUCTION INTERVAL:
Miss Chat

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Petro River Operating, llc

4925 Greenville
Suite 900
Dallas, Texas 75206

Scully 1-9

East Kansas
Marion, KS
United States of America
Massive Reactive Fracture

Mississippi Lime
Petro River Spec. - Reactive Water Frac

POST JOB REPORT
August 10, 2012

Prepared for: Ruben Alba - Co-CEO
Main - (303) 416-0012
Ruben.Alba@PetroRiverUSA.com

Submitted by: Lee Larson
Josh Rastatter / Yacob Zergaw - Engineers
(970) 590-1739, (720) 224-1523

Service Point: Williston
15046 49th St NW
Williston ND 58801
Phone: (701) 651-6646

POST JOB SUMMARY

Executive Summary

Petro River Operating, llc
Petro River Spec. - Reactive Water Frac
August 10, 2012

Scully Wells 1-9
Mississippi Lime, East Kansas
Marion County, KS

Callout Pump time:		**On time Start.**
Actual Start Pump time:	10:00 AM	Yes
Max Well Pressure:	3400 psi	
Base Fluid:	Fresh Water	
Base Fluid Density:	8.33 lb/gal	
Perf Mid Point (TVD)	2438 ft	
Vol to load:	41 Bbl	
Well Pres. @ Start:	60 psi	

	Intial	Mid	Mid	Final
ISIP (psi)	599	707	792	687
FG	0.68	0.72	0.76	0.71
5 min (psi)		564		635
10 min (psi)		439		580
15 min (psi)		324		533
BHP (psi)	1658	1763	1848	1738
Total Fric (psi)	901	763	734	833

Friction Summary

Wellbore Fric.:	538	psi
Tortuosity:		psi
Perf Friction:	363	psi

40 Perfs Shot - 0.42 in. Dia, Est Cd = 0.85
40 Eff. Perfs Open - 100% Eff. Perfs Open

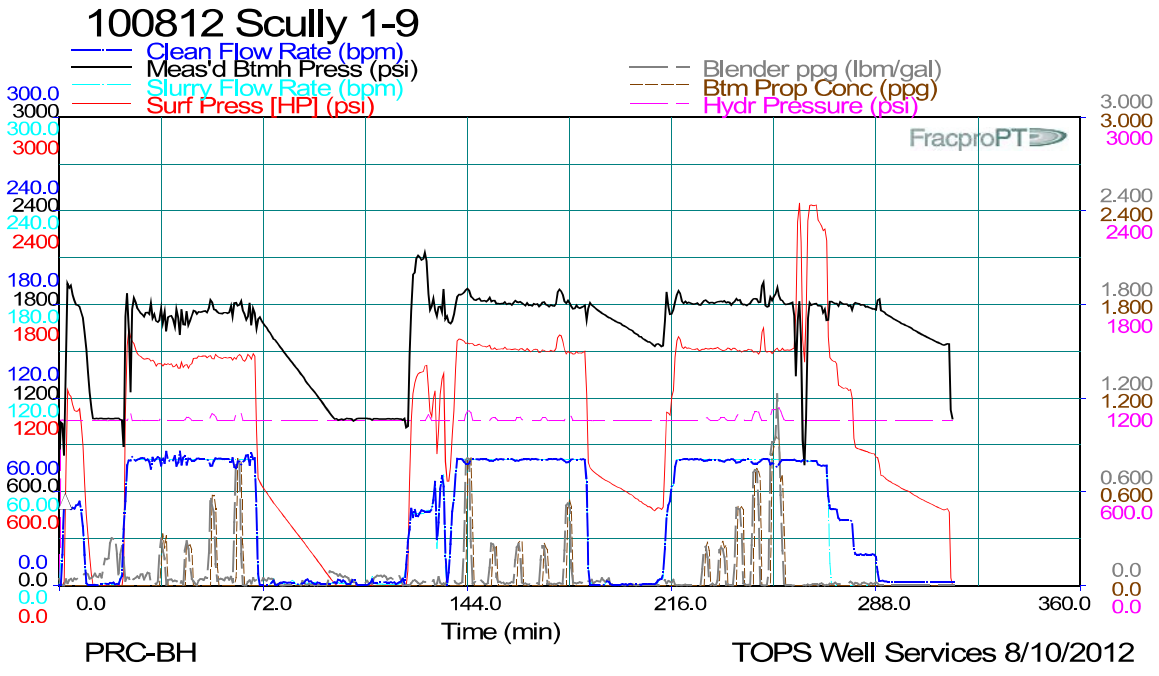
Treatment Summary

	Average	Maximum	
Pressure:	1500	2500	**psi**
Rate:	80	80	**Bpm**
Proppant Conc:	0.55	1	**ppa**
Viscosity:	1	1	**cP 511/s**

15% HCl Acid	**4,000 Gal**
Treatement Flui	**560,000 Gal**
Total (LTR):	**564,000 Gal**

Proppant Vol Pumped

26,360	**Lbs - 100 Mesh**
27,120	**Lbs - 40/70 White**
53,480	**Lbs - Total**



JOB SUMMARY

Petro River Operating, llc
Petro River Spec. - Reactive Water Frac
August 10, 2012

Scully 1-9
Mississippi Lime - East Kansas
Marion-Cowley, KS
Massive Reactive Fracture

Wellbore Summary

Max Pressure: 3400 psi
Treatment Via: Casing - Liner

Tubular Description		Top MD	Bot. MD	Burst	80% Burst	Cap. Gal/ft	Capacity Gal
Casing	5.5", J-55, 15.5#		2530	4810	3848	1	2530
						Total Capacity:	2530

Perforation / Notch information

Perforated Interval Name	Top MD (ft)	Bot. MD (ft)	Top TVD (ft)	Bot TVD (ft)	spf	size (in)	Deg Phase	Charge Type
Mississippi Chat	2422	2438			2	0.42		
Mississippi Chat	2438	2454			4	0.42		

Original Treatment Design Summary

Percent Pad	80%	
Acid/Chem. Vol	4000	Gal
Pad + SLF (Clean Fluid Vol.)	372500	Gal
Flush (Clean Fluid Vol.)	50000	Gal
Total Inj. (Clean Fluid Vol.)	426500	Gal

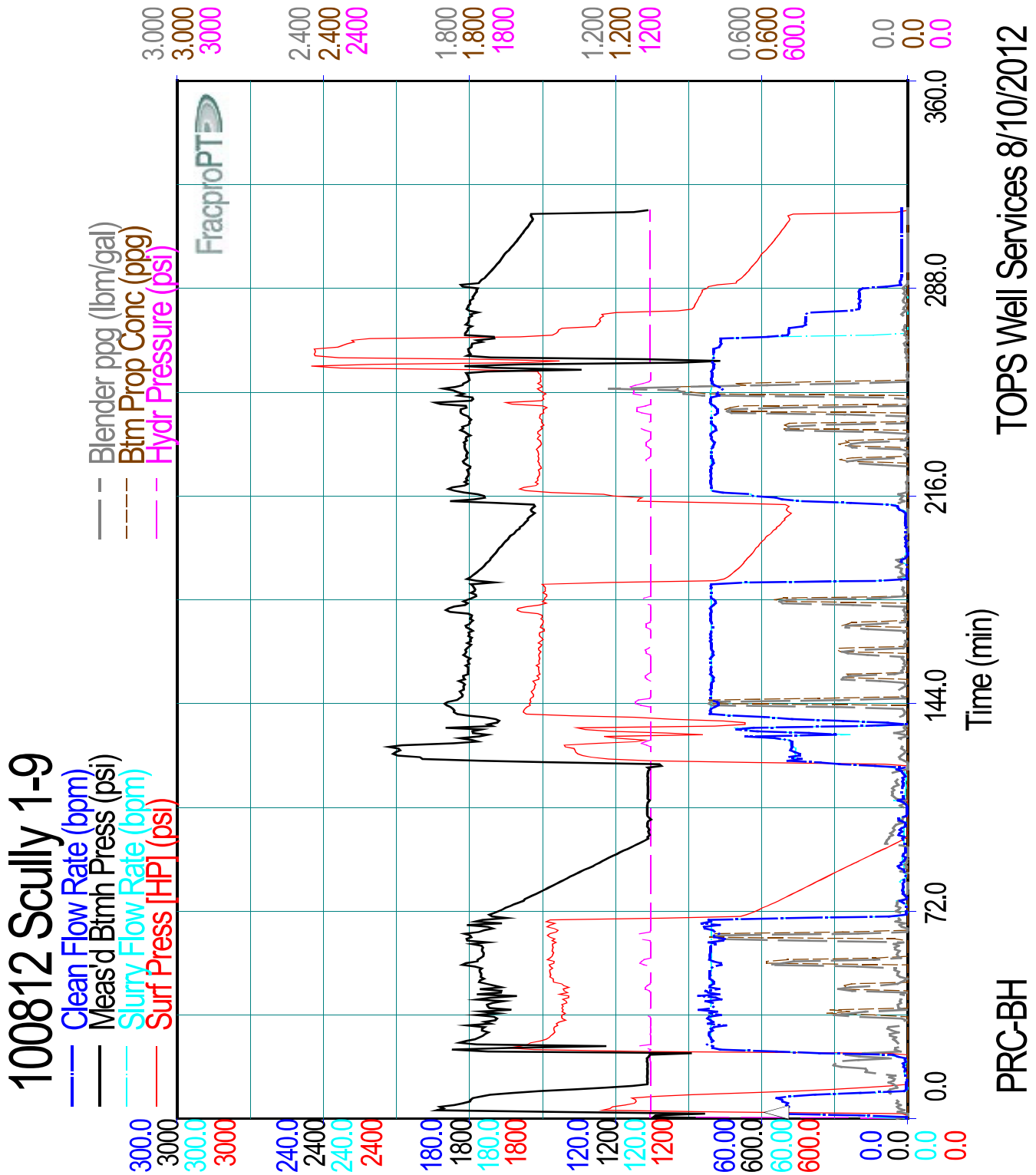
Mass Balance

Material Name	Act. Amount on Loc.	Vol After Primeup	Vol Req. for Design	Vol Req. per actual Treatment	Job Used	% Variance per Design	% Variance per actual Treatment
Additives	units	units	units	units	units		
FR-C	1340		127		113		
HCl Acid (12.5%-18.0%)	4000	4000			4000		
Surf NE	1180		186		150		
BioClear 1000	28		5		28		
Proppant							
100 Mesh	26360				26360		
40/70 White	27120				27120		
Fluids							
Fresh Water	800000	800000	422500		560000		

Treatment Charts

Petro River Operating, llc
Petro River Spec. - Reactive Water Frac
August 10, 2012

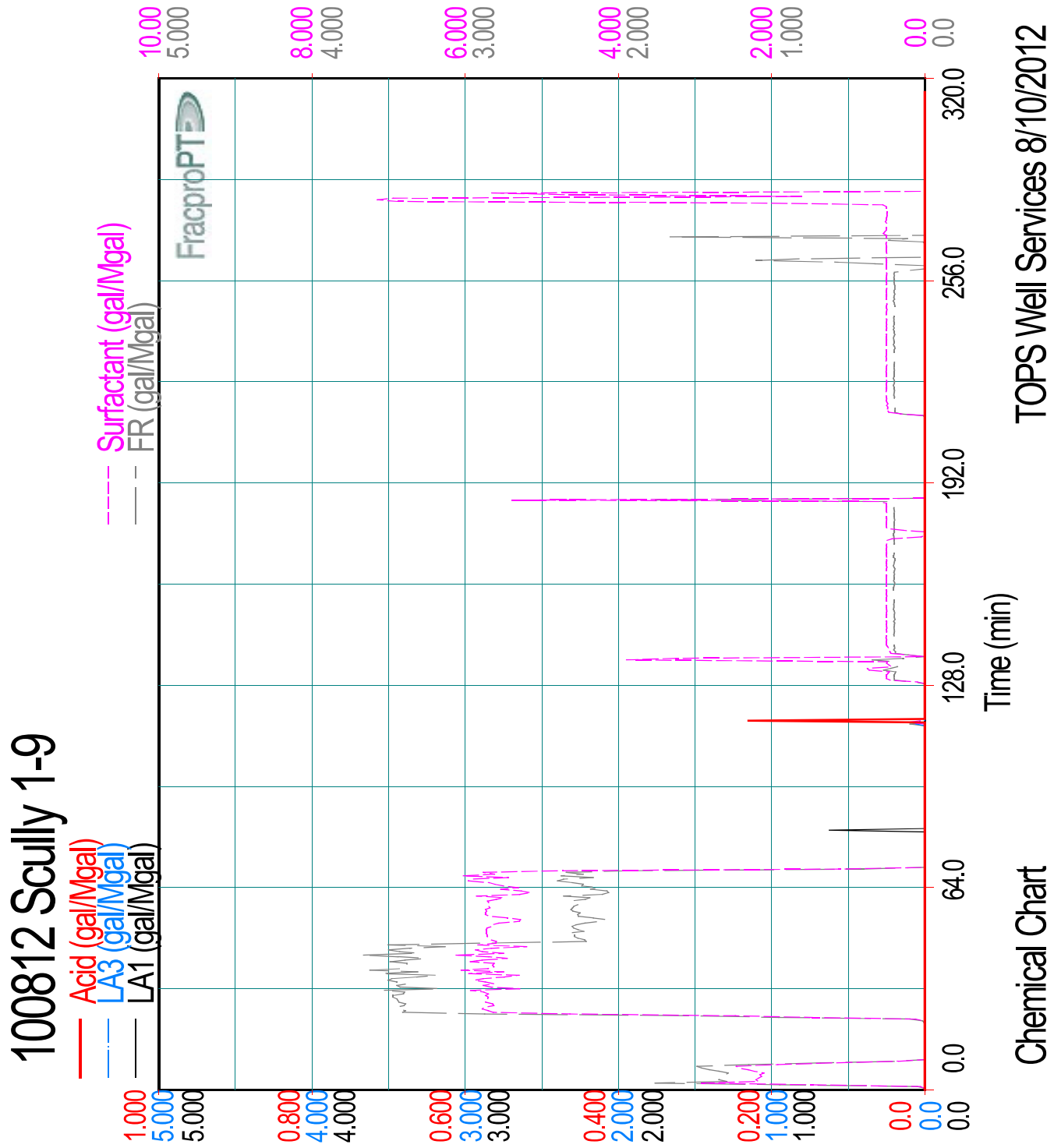
Scully Wells 1-9
Mississippi Lime, East Kansas
Marion County, KS



Treatment Charts

Petro River Operating, llc
Petro River Spec. - Reactive Water Frac
August 10, 2012

Scully Wells 1-9
Mississippi Lime, East Kansas
Marion County, KS



Petro River Operating, llc	TOPS WELL SERVICES	**Scully 1-9**	
ADDRESS: 4925 Greenville Suite 900		STATE: KS	COUNTY: Marion
ADDRESS: Dallas, Texas 75206		FIELD/BASIN/PARISH: East Kansas	DESCRIPTION: Massive Reactive Fracture
OWNER: Petro River Operating, llc		TOPS REPRESENTATIVE: **Lee Larson**	
PURCHASE ORDER / REFERENCE		JOB TYPE: Water Frac	START TIME: 6:30 DATE: 8/10/2012 — END TIME: 19:00 DATE: 8/10/2012
SIGNATURE: X	NAME (PLEASE PRINT)	I have read, understood and agreed to the terms and conditions printed on the reverse side hereof which include, but are not limited to, LIMITED WARRANTY, INDEMNITY, RELEASE and PAYMENT and represent that I have full power and authority to execute this agreement	

LOC	ITEM REFERENCE	QTY	DESCRIPTION	DISCOUNT	UNIT PRICE	AMOUNT
1	10-200-0001	1	2-6K HHP mob|rig up|down chg.		14,000.00	14,000.00
1	10-200-0012	1	6-10K HHP Solution Stage		30,000.00	30,000.00
1	10-291-1009	1	Frac Iron Safety - per job		950.00	950.00
1	10-100-0006	60	Food & Lodging - Stim - per man, per day		115.00	6,900.00
1	10-100-0001					
1	10-100-0002	414	Bulk Prop Delivery - Per Sack		3.50	1,449.00
-					-	-
-					-	-
1	15-510-0100	207	Cost - 100 mesh Sand - per 100lbs		Customer PrePaid	-
1	15-510-4070	207	Cost - 40/70 mesh Sand - per 100lbs		Customer PrePaid	-
-					-	-
1	15-070-1001	113	FR-A - per gallon		18.00	2,034.00
1	15-095-0210	150	Surf NE - per gallon		14.00	2,100.00
1	15-040-0200	28	BioClear 200 - per gallon		24.00	672.00
-					-	-
-					-	-
-					-	-
-					-	-
-					-	-
-					-	-
-					-	-
-					-	-
-					-	-
-					-	-
-					-	-
-					-	-
					$	-

CUSTOMER OR AGENT SIGNATURE / COMMENTS

X

Ruben Alba - Co-CEO

Receipt: The customer or customer's agent acknowledges that the equipment, materials and services were received as listed on this field invoice.

Terms: Net 30 days. Finance charge 1-1/2% per month on past due accounts. Applicable taxes will be added on invoice.

Subtotal	$	58,105.00
Discounts	$	-
Line Item Discounts	$	-
Special Allowances	$	-
Subtotal	$	58,105.00
Surcharges	$	-
AMOUNT DUE ===>	**$**	**58,105.00**