

# 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	API No. 15
Name: Petro River Operating, LLC	Spot Description:
Address 1: 4925 GREENVILLE, STE 900	SW_NE_SE_Sec. 9 Twp. 19 S. R. 3 V East West
Address 2:	
City: DALLAS State: TX Zip: 75206 +	990 Feet from ▼ East / West Line of Section
Contact Person: Ruben Alba	Footages Calculated from Nearest Outside Section Corner:
Phone: ( 303 ) 416-0012	□ NE □ NW ☑ SE □ SW
CONTRACTOR: License # 99975	County: Marion
Name: COMPANY SERVICING TOOLS	Lease Name: SCULLY Well #: 1-9
Wellsite Geologist: N/A	Field Name: Lost Springs
Purchaser:	Producing Formation: Mississippian Chat
Designate Type of Completion:	Elevation: Ground: 1368 Kelly Bushing: 1374
New Well    ✓ Re-Entry    Workover	Total Depth: 3080 Plug Back Total Depth: 3049
□ Oil □ WSW □ SWD □ SIOW	Amount of Surface Pipe Set and Cemented at: 210 Feet
Gas D&A ENHR SIGW	Multiple Stage Cementing Collar Used? ☐ Yes ✓ No
✓ OG GSW Temp. Abd.	If yes, show depth set:Feet
CM (Coal Bed Methane)	If Alternate II completion, cement circulated from:
Cathodic Other (Core, Expl., etc.):	feet depth to:w/sx cmt.
If Workover/Re-entry: Old Well Info as follows:	
Operator: Petro River Operating, LLC	Drilling Fluid Management Plan
Well Name: Scully 1-9	(Data must be collected from the Reserve Pit)
Original Comp. Date: 12/10/2008 Original Total Depth: 3049	Chloride content: ppm Fluid volume: bbls
☐ Deepening	Dewatering method used:
Conv. to GSW	•
Plug Back: Plug Back Total Depth	Location of fluid disposal if hauled offsite:
Commingled Permit #:	Operator Name:
Dual Completion Permit #:	Lease Name: License #:
SWD Permit #:	
ENHR Permit #:	Quarter Sec. Twp. S. R. East West
GSW Permit #:	County: Permit #:
08/10/2012 08/10/2012	
Spud Date or Date Reached TD Completion Date or Recompletion Date  Recompletion Date	

### **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

K	CC Office Use ONLY
Letter of Confiden	tiality Received
Date:	
Confidential Relea	se Date:
Wireline Log Rece	ived
Geologist Report	Received
UIC Distribution	
	Approved by: Deanna Garrison Date: 11/09/20

Side Two



Operator Name: Petro River Operating, LLC Lease Name: SCULLY Well #: 1-9										
Sec. 9 Twp. 19			☐ West		. Mario					
INSTRUCTIONS: Sh time tool open and clo recovery, and flow rate line Logs surveyed. A	osed, flowing and shu es if gas to surface te	it-in pressu est, along w	res, whether sh vith final chart(s	nut-in pres	sure reac	hed static level,	hydrostatic pr	essures, bottom h	ole temp	erature, fluid
Drill Stem Tests Taker		☐ Ye	es 🗸 No		<b>✓</b> Lo	g Formation	n (Top), Depth	and Datum		Sample
(Attach Additional Samples Sent to Geo		s 🗸 No		Name	g-Kansas City		Top 1854		Datum 85	
Cores Taken		☐ Ye	s 🗸 No		100000000000000000000000000000000000000	f Kansas City		2249	-8	80
Electric Log Run		☐ Ye	_		11 - 20 - 10 - 10 - 10 - 10 - 10 - 10 -	sippian Chat		2418	-1	049
Electric Log Submitte (If no, Submit Copy		∐ Ye	es No		Mississ	sippian Lime		2485	-1	116
List All E. Logs Run:					Kinder	hook Shale		2532	-1	163
LIST AII E. LOGO TAIN					Viola L	ime		2796	-1	400
					Arbuck	de Dolomite		2938	-1	569
				RECORD	Ne					
	Size Hole		rt all strings set-c e Casing	onductor, s Wei		rmediate, product Setting	on, etc.	# Sacks	Туре	and Percent
Purpose of String	Drilled		(In O.D.)	Lbs.		Depth	Cement	Used	A	Additives
			ADDITIONAL	CEMENT	ING / SQL	EEZE RECORD				
Purpose:	Depth	Type	of Cement	# Sack	2000 121		Type a	and Percent Additives		
Perforate	Top Bottom	Type of Centeric								
Protect Casing Plug Back TD	-									
Plug Off Zone	<b>-</b> ),									
Shots Per Foot			RD - Bridge Plug					ment Squeeze Reco	rd	Depth
		Footage of	Each Interval Peri	forated				of Material Used)		
2	2422-2426				95 bbl NE-F	E, 13,334 bl	ol Slickwater		2422	
4	2454-2464									
TUBING RECORD:	Size: 2.875	Set At: 2500		Packer /	At:	Liner Run:	Yes	] No		
Date of First, Resumed	d Production, SWD or E	NHR.	Producing Meth	nod:  Pumpi	ng 🔲	Gas Lift (	Other (Explain) -			
Estimated Production Per 24 Hours	Oil 3	Bbls.	Gas 6	Mcf	Wat	er E 297	bls.	Gas-Oil Ratio		Gravity
	ION OF CAS			AETUOD O	E COMPLE	TION:		DDODUCT	ONINTER	2//01 -
	ION OF GAS:			METHOD O Perf.	—		mmingled	PRODUCTI Miss Chat	ON HATER	LY/NL.
Vented ✓ Sol	d Used on Lease  ubmit ACO-18.)			—a	(Submit		omit ACO-4)			
4	- 6		Other (Specify)							



# Petro River Operating, Ilc

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

# SUMMARY **20ST JOB**

# **Executive Summary**

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

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

Callout Pump time:

**Actual Start Pump time:** 

Max Well Pressure: Base Fluid: **Base Fluid Density:** 

Fresh Water 8.33 lb/gal Perf Mid Point (TVD) 2438 ft 41 Bbl Vol to load:

On time Start. Yes

Well Pres. @ Start:

60 psi

10:00 AM

3400 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
ntal Fric (nsi)	901	763	734	833

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

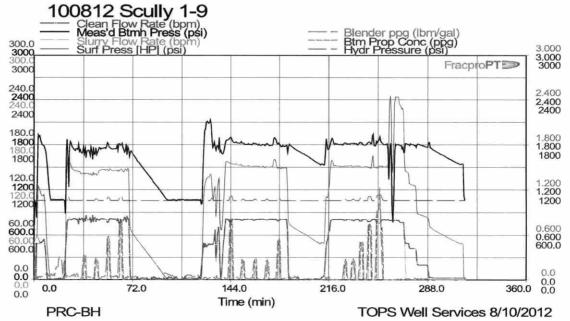
40 Perfs Shot - 0.42 in. Dia, Est Cd = 0.85 40 Eff. Perfs Open - 100% Eff. Perfs Open

### **Treatment Summary**

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

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

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



# **JOB SUMMARY**

Petro River Operating, IIc 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	
	•	,			<b>Total Capacity:</b>	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	1		4	0.42	1	

### **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

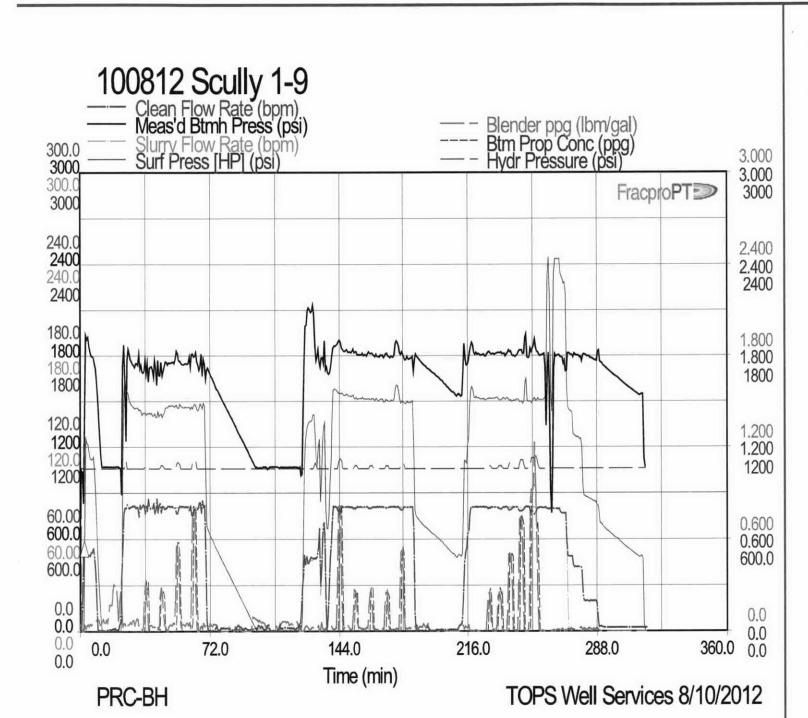
Total Inj. (Clean Fluid Vol.)

426500 Gal

### Mass Balance

Material Name	Act. Amount on Loc.	Vol After Primeup	Vol Req.	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		
HCI 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, IIc
Petro River Spec. - Reactive Water Frac
August 10, 2012

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



### 100812 Scully 1-9 Acid (gal/Mgal) LA3 (gal/Mgal) LA1 (gal/Mgal) Surfactant (gal/Mgal) FR (gal/Mgal) 1.000 5.000 5.000 10.00 5.000 FracproPT 0.800 4.000 **4.000** 8.000 4.000 0.600 **6.000** 3.000 3.000 0.400 2.000 **2.000** 4.000 2.000 0.200 1.000 **1.000** 2.000 1.000 0.0 0.0 0.0 0.0 320.0 128.0 0.0 64.0 192.0 256.0 Time (min) **Chemical Chart** TOPS Well Services 8/10/2012

# Treatment Charts

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

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

SIGNATURE   SIGNATURE   NAME (PLEASE PRINT)   NAME (PLEASE PRINT)   I have read, understood and agreed to the terms and condition printed on the reverse side hereoff which include, but are not limited to, LIMITED WARRANTY, INDEMNITY, RELEASE and PAYMENT and represent that have full power and authority execute this agreement   1 10-200-0001   1 2-6K HHP mobiling upidown chg.   14,000.00 14,000.   1 10-200-0001   1 6-10K HHP Solution Stage   30,000.00 30,000.   1 10-201-1009   1 Frac Iron Safety - per job   950.00 950.   1 10-100-0001	Petro	River Ope	rating, Ilc		FET	(Date)	Scul	ly 1-9				
ADDRESS   WBLI SERVICES   FIELDRASINPARISH   DESCRIPTION   DESCRIPTION   Massive Reactive Fracture					i ][	WP5i	100000000000000000000000000000000000000					
Dallas, Texas 75206   East Kansas   Massive Reactive Fracture		Freenville Suite 90	00		- WATER	CODDITION			Marion			
Description					AA HEIL	LSERVICES						
Petro River Operating,    C		Texas 75206					400-2500000			Ma	assive React	ive Fracture
NAME (PLEASE PRINT)   START   START		Oti II										
Water   TIME			С				11		TART	_		END.
SIGNATURE	PURCHASE	ORDER / REFERENCE						1.00		30 TIME		19:00
Discount   Discount								104050				8/10/2012
Mark	SIGNATUR	E				NAME (PLEASE PRINT)	, , , , , ,					
LOC   ITEM   QTY   DESCRIPTION   DISCOUNT UNIT PRICE   AMOUNT	x								limited to, LIM PAYMENT an	ITED W.	ARRANTY, INDE sent that I have ful	MNITY, RELEASE and
1       10-200-0001       1       2-6K HHP mob rig up down chg.       14,000.00       14,000.         1       10-200-0012       1       6-10K HHP Solution Stage       30,000.00       30,000.         1       10-291-1009       1       Frac Iron Safety - per job       950.00       950.         1       10-100-0006       60       Food & Lodging - Stim - per man, per day       115.00       6,900.         1       10-100-0001       1       Bulk Prop Delivery - Per Sack       3.50       1,449.         -       -       -       -       -         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.         1       15-095-0210       150       Surf NE - per gallon       14.00       2,100.		ITEM	QTY			DESCRIPTION						AMOUNT
1       10-200-0012       1       6-10K HHP Solution Stage       30,000.00       30,000.         1       10-291-1009       1       Frac Iron Safety - per job       950.00       950.         1       10-100-0006       60       Food & Lodging - Stim - per man, per day       115.00       6,900.         1       10-100-0001       1       10-100-0002       414       Bulk Prop Delivery - Per Sack       3.50       1,449.         -       -       -       -       -       -       -         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.         1       15-095-0210       150       Surf NE - per gallon       14.00       2,100.	<u> </u>			To over the b		ouro - Desir						
1       10-291-1009       1       Frac Iron Safety - per job       950.00       950.         1       10-100-0006       60       Food & Lodging - Stim - per man, per day       115.00       6,900.         1       10-100-0001       414       Bulk Prop Delivery - Per Sack       3.50       1,449.         -       -       -       -       -         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.         1       15-095-0210       150       Surf NE - per gallon       14.00       2,100.			***************************************									14,000.00
1       10-100-0006       60       Food & Lodging - Stim - per man, per day       115.00       6,900.         1       10-100-0001       3,50       1,449.         -       -       -       -         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         1       15-095-0210       150       Surf NE - per gallon       14.00       2,100.							•••••					
1       10-100-0001         1       10-100-0002       414       Bulk Prop Delivery - Per Sack       3.50       1,449.         -       -       -       -       -         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.         1       15-095-0210       150       Surf NE - per gallon       14.00       2,100.				4							•••••	950.00
1       10-100-0002       414       Bulk Prop Delivery - Per Sack       3.50       1,449.         -       -       -       -       -       -         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.         1       15-095-0210       150       Surf NE - per gallon       14.00       2,100.			60	roou a Loag	mig - Sum - J	ber man, per day					115.00	6,900.00
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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       1     15-095-0210     150     Surf NE - per gallon     14.00     2,100	······ <u>·</u>	10-100-0002		Buik 1 Top B	onvery - 1 er	Odok						1,448.00
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       1     15-095-0210     150     Surf NE - per gallon     14.00     2,100	-			<b>-</b>			************	***************************************				
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       1     15-095-0210     150     Surf NE - per gallon     14.00     2,100	1	15-510-0100	207	Cost - 100 m	esh Sand - ı	per 100lbs	•••••	***************************************	C	uston	ner PrePaid	-
1 15-095-0210 150 Surf NE - per gallon 14.00 2,100.	1	15-510-4070		4			•••••	***************************************				-
1 15-095-0210 150 Surf NE - per gallon 14.00 2,100.	-										-	-
	1	15-070-1001	113	FR-A - per g	allon		***************************************		•••••••		18.00	2,034.00
1 15-040-0200 28 BioClear 200 - per gallon 24.00 672	1	15-095-0210	150	Surf NE - pe	r gallon						14.00	2,100.00
	1	15-040-0200	28	BioClear 200	) - per gallon						24.00	672.00
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CUSTOMER OR AGENT SIGNATURE / COMMENTS Subtotal \$ 58,105.	CUSTOMER	OR AGENT SIGNATURE /	COMMENTS				$\overline{}$		Subtotal	\$		58,105.00
X Discounts \$	X						55000			\$		
Line Item Discounts \$	550 (55) 550 (6)	Alba - Co CEO							177.	\$		-
			stomer's agent ac	knowledges that	Terme: Not 20	dave. Finance oborgo 1.1/20/	1 .	eciai Allowance		\$		58,105.00
the equipment, materials and services were received as listed on per month on past due accounts. Applicable Surcharges \$		oment, materials and	services were rec		per month on pa	ast due accounts. Applicable		Surcharge				-
this field invoice. taxes will be added on invoice.  AMOUNT DUE ===> \$ 58,105.0		this fie	eia invoice.		taxes wi	ili be added on invoice,		AMOUNT	DUE ===	> \$		58,105.00

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