

HALLIBURTON

EXECUTIVE SUMMARY

Halliburton Energy Services provided the following Fracture Stimulation treatment on with the following results for:

August 24, 2012

Company:	Chevron	Halliburton Sales Order Number:
Well:	SW McLaughlin 7X	9761359
API Number:	05-103-07641	
County & State:	Uintah, UT	
Sec. / Twp. / Rng.	S:33 / T:02N / R:102W	
Zone:	Zone #1	
Formation:	Weber	
Top Perf:	5,500	ft
Bottom Perf:	6,186	ft
Fluid System:	25# Delta 140 (22)	
Base Fluid:	8.43	lb/gal
Breakers:	Optiflo H T E	(Enzyme)
	SP	(Oxidizer)
Avg. Slurry Rate:	58.65	BPM
Avg. Pressure:	3408	psi
Max. Slurry Rate:	71.12	BPM
Max. Pressure:	4634	psi
Initial Wellhead Pressure:	1140	psi
Break:	2280	psi
		13.5 bpm
25# Waterfrac G	3,680	gal
25# Delta 140 (22)	37,052	gal
Total Fluid:	40,732	gal
		882.19 bbls
16/30 CRC	117,540	lbs
Total Proppant:	117,540	lbs
		969.81 bbls
ISDP:	3,175	psi
Frac. Gradient:	0.98	psi/ft
5 Minute:	0	psi
10 Minute:	0	psi
15 Minute:	0	psi
Frac. Gradient:	0.44	psi/ft
Average Horsepower:	4899.00	hhp
Screenout/Cut Short	yes	

****NOTES**** Saw high treating pressures, could not get to design rate. Well began pressuring half-way through sand on formation. Screened out half-way through 8 lb. sand stage. Left 35600 lbs. of sand in the wellbore. Placed 81940 lbs. into formation. (58.5% of designed amount)

Please feel free to contact me at (435) 789-2550 if you have any questions or concerns.
Thank you.

C. Joe DeMasters
Associate Technical Professional
Halliburton Energy Services, Vernal UT

Stimulation Design Worksheet

Company	Chevron	SW McLaughlin 7X	API	05-103-07641
Formation	Weber	Zone #1	Temperature	159 °F
Perfs	5500 - 6186	Fluid System: i# Delta 140 (22)		

Liquid Additives - - - - -

Stage	Fluid System, # Delta 140 (22)																
	Fluid	Fluid	Prop Conc	Prop	Slurry Vol	Slurry	Treating	Stage	Exposure	LGC-36 UC	LoSurf-300D	CLA-Web	BC-140 X2	Optiflo H T E	SP	ScaleSorb	BA 40L
				Total		Rate	Pressure	Pump Time	Time	gel	surfactant	clay cont.	crosslinker	breaker	breaker	scale inhib.	
	(gal)	(ppg)	(lbs)	(bbls)	(bpm)	(psi)	(h:min:sec)	(h:min:sec)	GP (gpt)	GP (gpt)	GP (gpt)	(gpt)	(ppt)	(ppt)	(ppt)		
1	Load & Break	3679			87.6	10.8	1800	0:08:05	0:34:44	5.60	1.00	0.50					0.30
2	Pad	13884			330.6	51.8	3302	0:06:23	0:26:39	5.60	1.00	0.50	0.90	2.00	0.50		0.30
3	1.0# - 8.0# 16/30 CRC	19803	4.40	87080	565.3	66.1	3364	0:08:33	0:20:16	5.60	1.00	0.50	0.90	2.00	0.50	54.00	0.30
4	8.0# 16/30 CRC	3365	9.05	30460	112.9	9.6	2103	0:11:42	0:11:42	5.60	1.00	0.50	0.90	2.00	1.00		0.30
5	Flush	1			0.0					5.60	1.00	0.50					0.30
6	Hydration Tank Variance	13000			309.5					5.60	1.00	0.50					0.30

% Pad:	37.5%		117,540	1318.4
25# Waterfrac G	3,680	gal		
25# Delta 140 (22)	37,052	gal		
Total Fluid:	40,732	gal		
16/30 CRC	117,540	lbs		
Total Proppant:	117,540	lbs		

Average Rate 34.6

5.5 17 ppf L-80

	301	54	27	33	74	20	1069	16
used	310	60	30	35	75	20	1050	15
% diff	-3%	-12%	-12%	-5%	-1%	1%	2%	7%
Prime		20	10	13	12	5		10
Total	310	80	40	48	87	25	1050	25

Start Time:	10:24
End Time:	10:49
Customer:	Todd Zurich

TOP PERF	5,500	5370
BOTTOM PERF	6,186	6040
MID PERF	5,843	0.9764
BHT	159	

BHT GRAD [°F/100-ft (+60°)]

API # 05-103-07641

AFE#

Sec. / Twp. / Rng.

Well Name

Company

Formation

Fluid Systems

Date _____

Base Fluid, lb/gal

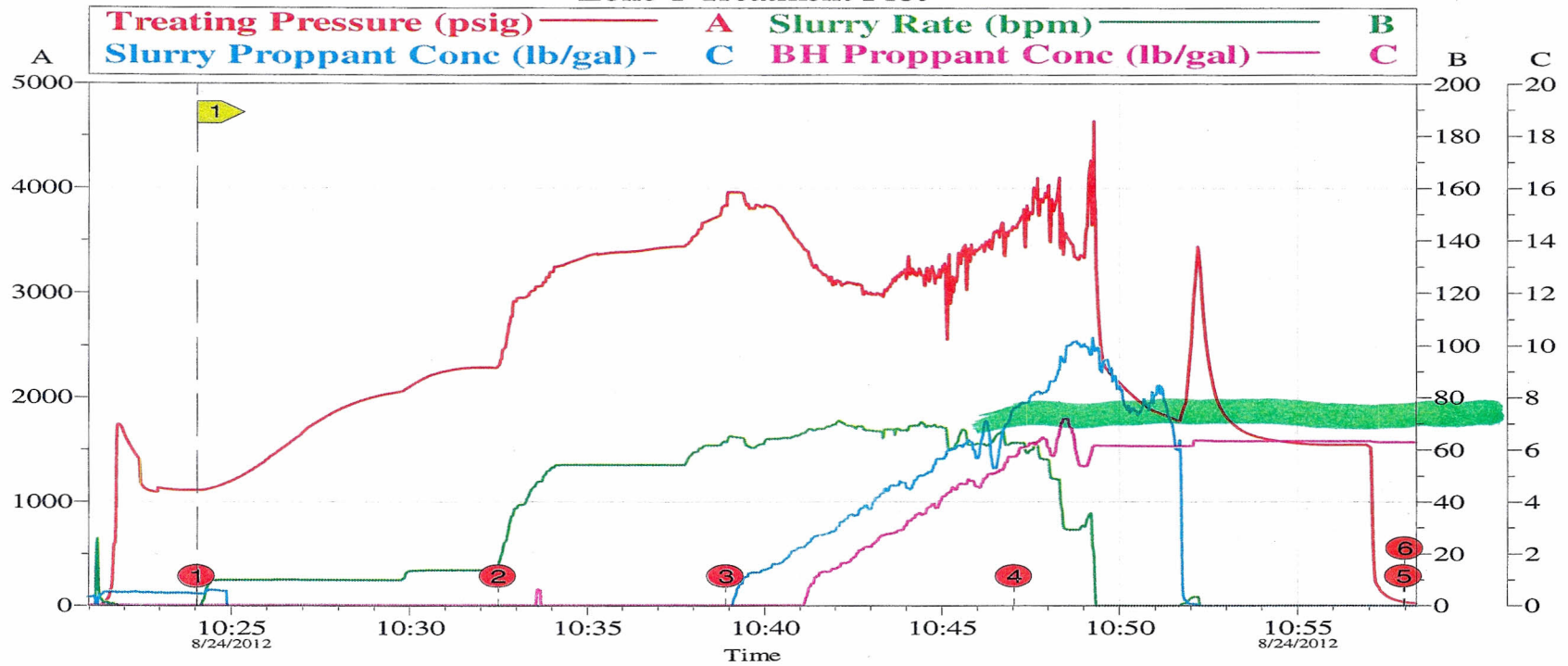
Sales Order #

County and State

Zone #1

[illegible]

Zone 1 Treatment Plot

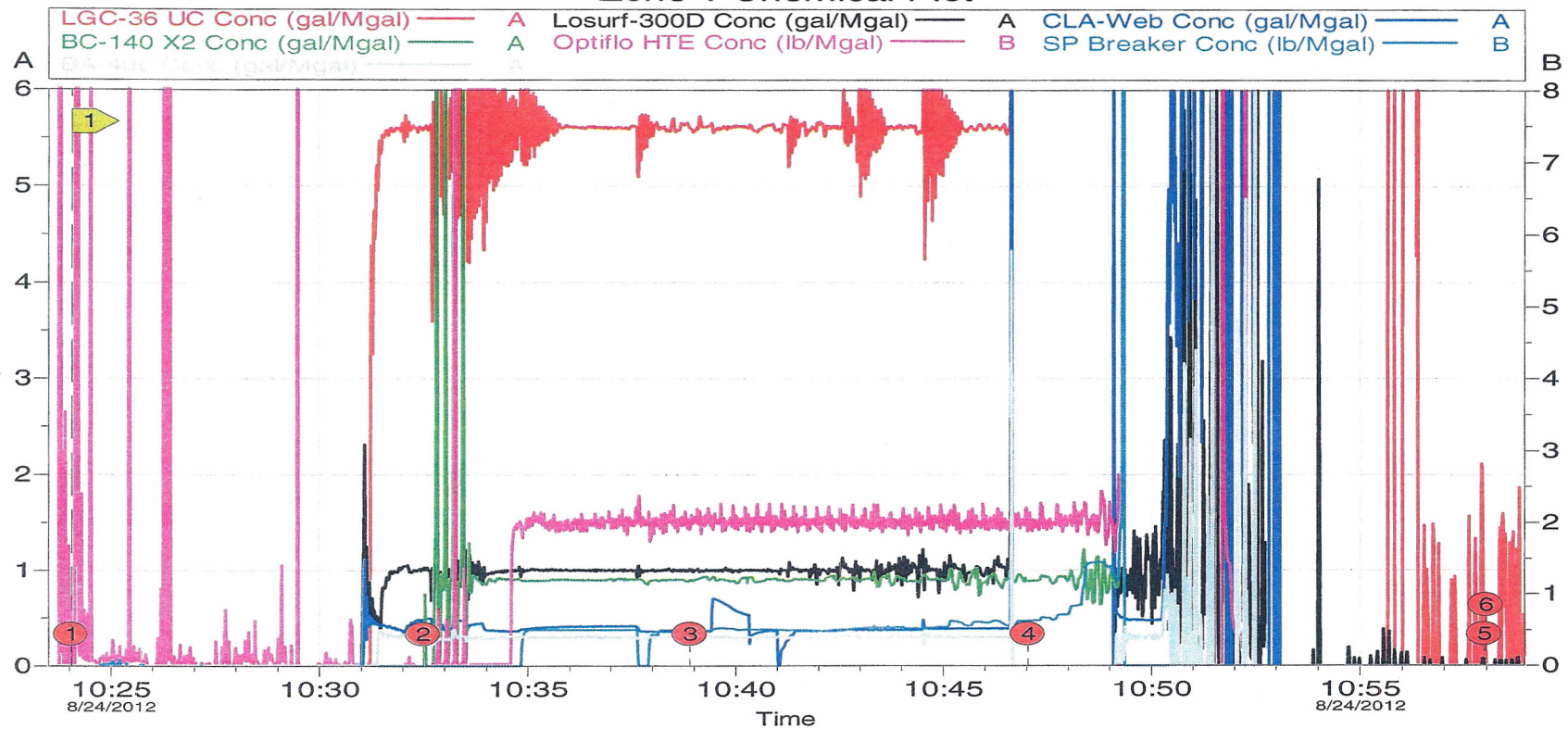


Customer: CHEVRON - MID-CONTINENT EBIZ
Well Description: SW McLaughlin 7X

Job Date: 24-Aug-2012
UWI: 05-103-07461

Sales Order #: 9761359

Zone 1 Chemical Plot

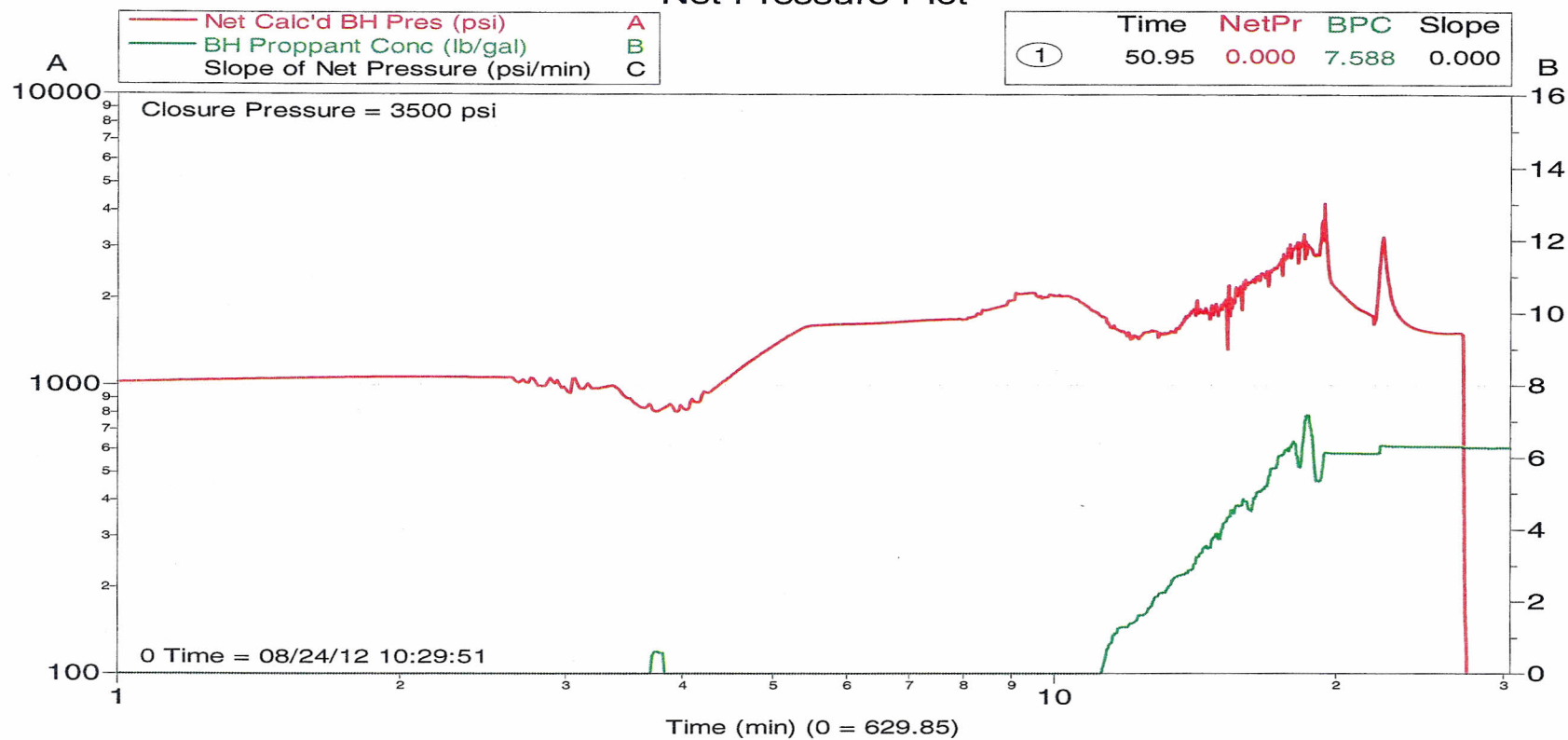


Customer: CHEVRON - MID-CONTINENT EBIZ
Well Description: SW McLaughlin 7X

Job Date: 24-Aug-2012
UWI: 05-103-07461

Sales Order #: 9761359

Net Pressure Plot



Customer: CHEVRON - MID-CONTINENT EBIZ
Well Description: SW McLaughlin 7X

Job Date: 24-Aug-2012
UWI: 05-103-07461

Sales Order #: 9761359