

HALLIBURTON

EXECUTIVE SUMMARY

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

August 25, 2012

Company:	Chevron	Halliburton Sales Order Number:
Well:	Carney 4-34	9763697
API Number:	05-103-05559	
County & State:	Rio Blanca, Co.	
Sec. / Twp. / Rng.	S:34 / T:02N / R:102W	
Zone:	Zone #1	
Formation:	Weber	
Top Perf:	5,697	ft
Bottom Perf:	6,033	ft
Fluid System:	25# Delta 140 (22)	
Base Fluid:	8.33	lb/gal
Breakers:	Optiflo H T E	(Enzyme)
	SP	(Oxidizer)
Avg. Slurry Rate:	58.49	BPM
Avg. Pressure:	3796	psi
Max. Slurry Rate:	62.04	BPM
Max. Pressure:	4910	psi
Initial Wellhead Pressure:	1216	psi
Break:	1470	psi
25# Waterfrac G	4,557	gal
25# Delta 140 (22)	27,973	gal
Total Fluid:	32,530	gal
16/30 CRC	95,060	lbs
Total Proppant:	95,060	lbs
ISIP:	1,994	psi
Frac. Gradient:	0.77	psi/ft
5 Minute:	1,591	psi
10 Minute:	1,491	psi
15 Minute:	1,423	psi
Average Horsepower:	5441.86	hhp
Screenout/Cut Short	yes	

****Notes**** Able to get rate without any issues. Cut sand in 8 lb stage due to rapid pressure increase. Successfully flushed well 10 bbl over top perf. Left approx. 60 sacks on the mover. Pumped 950 sacks of 1010 sacks delivered.

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
 Formation Weber
 Perfs 5697 - 6033

Carney 4-34
 Zone #1
 Fluid System: i# Delta 140 (22)

Temperature 160 °F

API 05-103-05559

Liquid Additives -----

Stage	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
		(gal)	(ppg)	(lbs)	(bbls)	(bpm)	(psi)	Pump Time	(h:min:sec)	gel	surfactant	clay cont.	crosslinker	breaker	breaker	scale inhib.
1	Load & Break	577			13.7	7.3	1344	0:01:52	0:17:28	5.60	1.00	0.50				
2	Pad	8073			192.2	48.1	3621	0:04:00	0:15:36	5.60	1.00	0.50	0.90	2.00	0.50	
3	1.0# - 8.0# 16/30 CRC	14077	4.07	57260	396.9	61.7	3680	0:06:26	0:11:36	5.60	1.00	0.50	0.90	2.00	0.50	76.00
4	8.0# 16/30 CRC	5823	6.49	37800	179.4	60.2	4030	0:02:59	0:05:10	5.60	1.00	0.50	0.90	2.00	1.00	
5	Flush	3980			94.8	43.2	3775	0:02:12	0:02:12	5.60	1.00	0.50				
6	Hydration Tank Variance	-10000			-238.1					5.60						

% Pad:	-4976.1%		95,060	625.1
25# Waterfrac G	4,557	gal		
25# Delta 140 (22)	27,973	gal	Average Rate	44.1
Total Fluid:	32,530	gal		
16/30 CRC	95,060	lbs		
Total Proppant:	95,060	lbs		

	126	33	16	25	56	17	1070
used	120	35	15	25	53	18	1150
% diff	5%	-8%	8%	1%	5%	-7%	-7%
Prime		12	5	7		7	
Total	120	47	20	32	53	25	1150

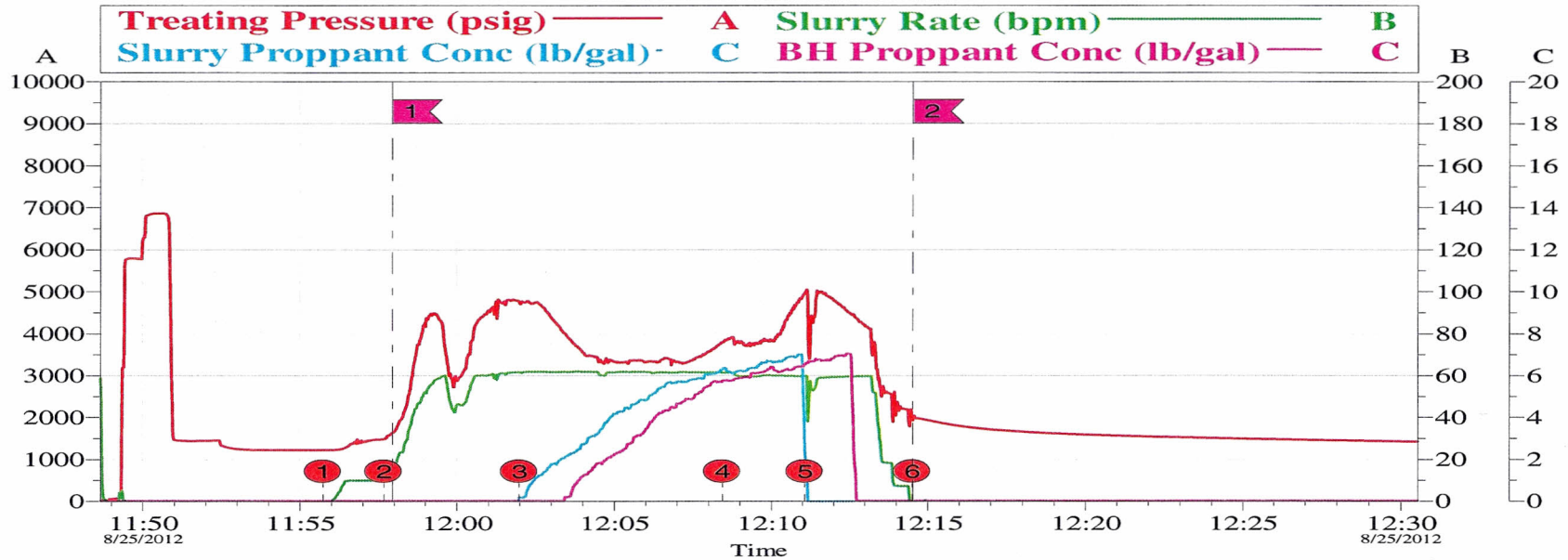
Start Time:	11:55
End Time:	12:14
Customer:	Chevron

TOP PERF	5,697
BOTTOM PERF	6,033
MID PERF	5,865
BHT	160
BHT GRAD [°F/100-ft (+60°)]	

API #	05-103-05559
AFE#	
Sec. / Twp. / Rng.	S:34 / T:02N / R:102W
Well Name	Carney 4-34
Company	Chevron
Formation	Weber
Fluid Systems	25# Delta 140 (22)
Date	August 25, 2012
Base Fluid, lb/gal	8.33
Sales Order #	9763697
County and State	Rio Blanca, Co.
Zone #1	

Total Perfs: 45			
Top Perf	Bottom Perf	SPF	# of shots
5697	5698	3	3
5722	5723	3	3
5754	5755	3	3
5783	5784	3	3
5805	5806	3	3
5836	5837	3	3
5863	5864	3	3
5882	5883	3	3
5907	5908	3	3
5932	5933	3	3
5964	5965	3	3
5981	5982	3	3
5996	5997	3	3
6011	6012	3	3

Zone 1 Treatment Plot



Local Event Log

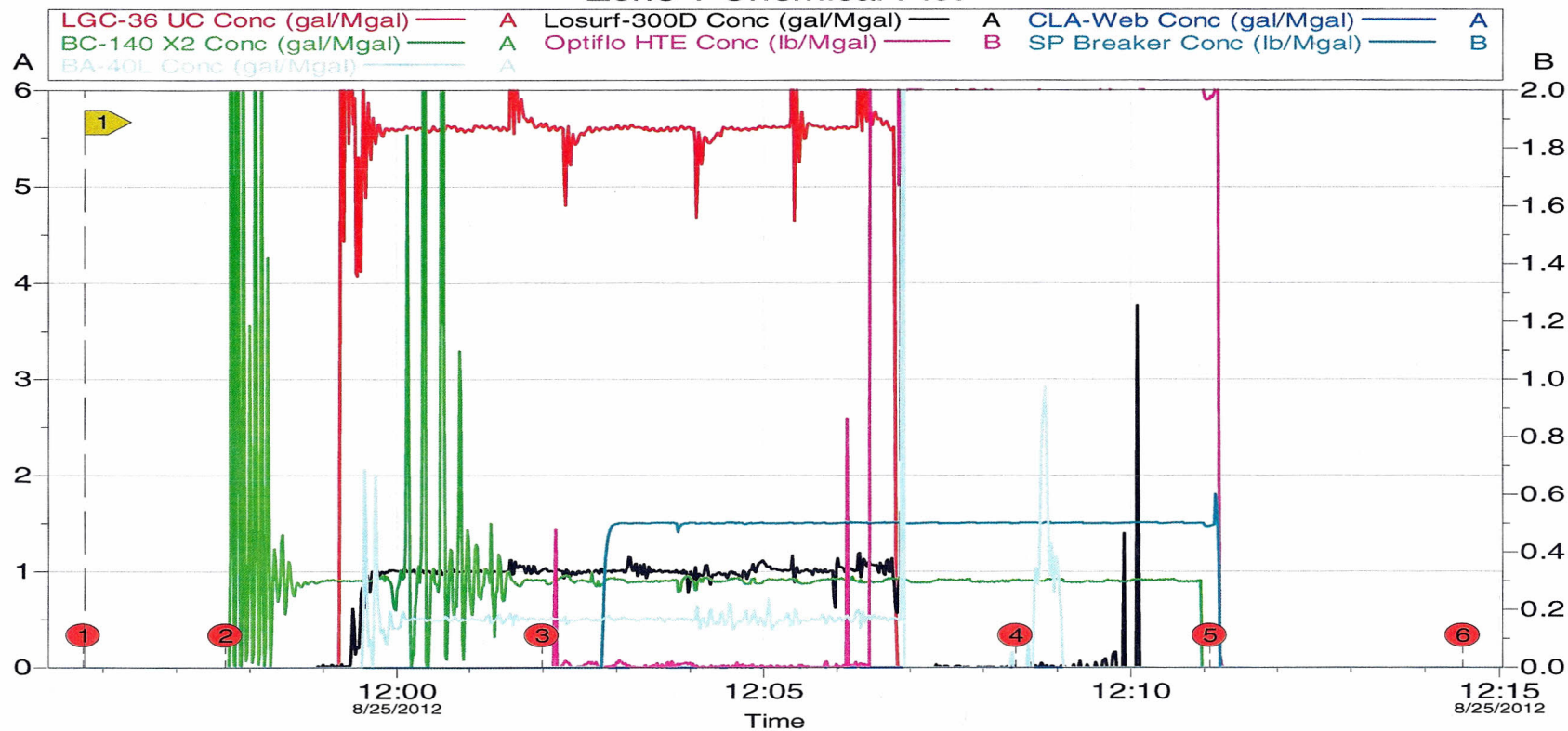
Intersection	TP	SR	SPC	CFL	Intersection	TP	SR	SPC	CFL
1	11:57:56	1626	14.80	0.000	2	12:14:32	1994	0.000	0.000

Customer: CHEVRON - MID-CONTINENT EBIZ
Well Description: Carney 4-34

Job Date: 25-Aug-2012
UWI: 05-103-05559

Sales Order #: 9763697

Zone 1 Chemical Plot

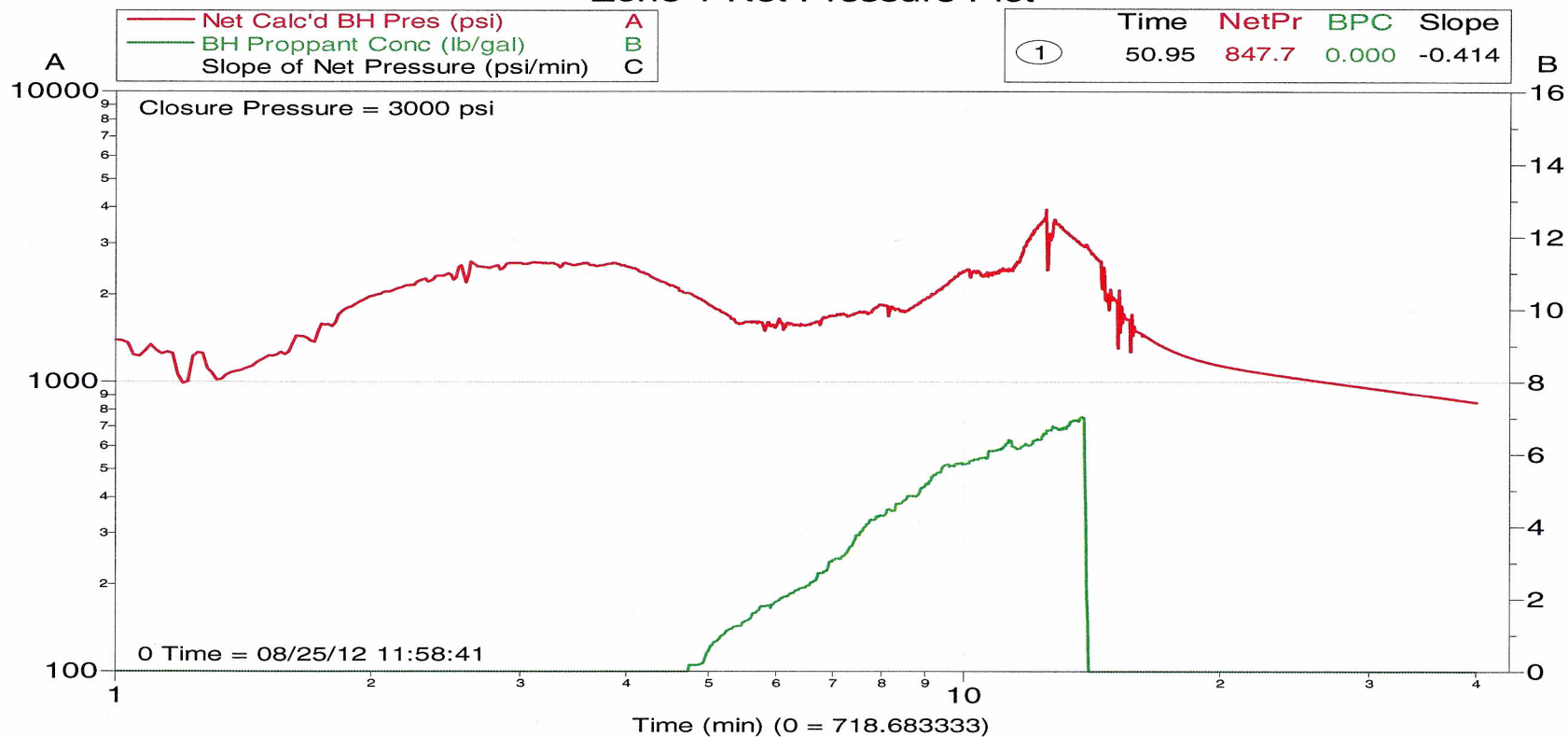


Customer: CHEVRON - MID-CONTINENT EBIZ
Well Description: Carney 4-34

Job Date: 25-Aug-2012
UWI: 05-103-05559

Sales Order #: 9763697

Zone 1 Net Pressure Plot



Customer: CHEVRON - MID-CONTINENT EBIZ
Well Description: Carney 4-34

Job Date: 25-Aug-2012
UWI: 05-103-05559

Sales Order #: 9763697