

Ursa Resources Group II LLC

Watson Ranch B 24AWI-17-07-95

Intervals 2 Part2

Iles Formation

Garfield County, CO

API: 05-045-22801

Prepared for: Pake Younger

December 7, 2015

Stimulation Treatment **Post Job Report**

FR-76 Water (Injection Well)

Prepared By:

Trent Kennedy

Larry Roberts

Copper Crew

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Engineering Executive Summary

On November 24, 2015 a stimulation treatment was performed in the Iles formation on the Watson Ranch B 24AWI-17-07-95 well in Garfield County, CO. The Watson Ranch B 24AWI-17-07-95 was a 4 stage Vertical Plug and Perf Design. The proposed treatment consisted of:

0 gallons of Treated Water
0 gallons of Fresh Water
8,400,000 gallons of FR-76 Water
1,000 gallons of 7.5% HCl
6,000 pounds of 40/80 HydroProp

The actual treatment fully completed 1 of 4 stages. 0 stages were skipped, and 3 stages screened out or were otherwise cut short of design. The actual treatment consisted of:

0 gallons of Treated Water
0 gallons of Fresh Water
6,695,545 gallons of FR-76 Water
1,000 gallons of 7.5% HCl
6,000 pounds of 40/80 HydroProp

A more detailed description of the actual treatment can be found in the attached reports. The following comments were provided to summarize events and changes to the proposed treatment:

Plan was to pump 50,000 bbls every day. However after the first day we never were able to get 50,000 bbls on location however each day all water on location was pumped bringing water levels as low as we could without pulling air into the equipment.

We had some service quality issues such as every morning with our Haskel Pumps, which build Pot Pressures on our pumps, being frozen. This takes time to get some sort of heat to each individual pump to thaw them out to begin to prime up th pumps. The crew had sent an earlys shift out before the rest of the crew in attempt to get ahead of the issue thawing them out. But it did not always work in getting them thawed out to make expected pump time of 6 AM.

A new Boost Tractor (APT) was to be tested out on the final stage of the well. However multiple issues arose such as wires that broke and required soldering to repair, missing software for CANs that run the Liquid Additive Pumps and hydraulic valve control with use of ACE control system or manual valves. Service Leader on location made the call to rig it out and not use it.

Final day on the pad (12/7/15) we started to pressure test and found a leak on the ground valve which needed to be replaced. Did not have extra ground valve on location so one was brought to location from the yard resulting in NPT as well as a late start time.

Halliburton is strongly committed to quality control on location. Before and after each job all chemicals, proppants, and fluid volumes are measured to assure the highest level of quality control. Tank fluid analysis is performed before each job in order to optimize the performance of the treatment fluids.

Halliburton maintains a continuous quality improvement process and appreciates any comments or suggestions that you may have. Halliburton again thanks you for the opportunity to perform service work on this well. We hope to be your solutions provider for future projects.

Thank you,

Pete Boomgaard
Senior Technical Professional
Halliburton Energy Services

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Halliburton Energy Services

Trent Kennedy
Technical Professional
Halliburton Energy Services

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Halliburton Energy Services

Customer Ursa Resources Group II LLC
Formation Iles
Lease Watson Ranch B 24AWI-17-07-95
API 05-045-22801
Date 11/24/2015

Isolation Type
Cemented Casing

HALLIBURTON | Production Enhancement

Max Pressure (psi)
8000

Treatment Tubulars									
Description	OD (in)	ID (in)	Wt (#)	Grade	FUF (gal/ft)	MD Top (ft)	MD Btm (ft)	Volume (gal)	Tubular Burst Pressure (psi)
Casing	5.5	4.892	17	P-110	0.9764	0	7,373	7,199	10,640
Total							7,373	7,199	

Directional Data		
MD-TVD	43	ft
TVD at Bottom Perf	7,132	ft
MD at Bottom Perf	7,175	ft

Temperature Data	
Temp. Gradient (°F/100 ft)	1.95
BHST (°F)	199

Sleeve/Perf Depth						Perforations								
Interval #	Displacement to Top Sleeve/Perf (gal) with 30 bbl over flush	(BBLs)	Top MD (ft)	Btm MD (ft)	Average TVD (ft)	Interval #	Formation Descriptor	Average Interval Temperature (F)	Number of Perf Clusters	Perf Gun Length (ft)	Perf Density (spf)	Total Shots	Phasing (deg)	Perf Diameter (in)
Interval 1 Part 1	8030	191.2	6,934	7,175	7,012	Interval 1 Part 1	Corcoran	197	11	2	4	88	120	0.44
Interval 1 Part 2	8030	191.2	6,934	7,175	7,012	Interval 1 Part 2	Corcoran	197	11	2	4	88	120	0.44
Interval 2 Part 1	7835	186.5	6,734	6,898	6,773	Interval 2 Part 1	Cozzette	192	9	2	4	72	120	0.44
Interval 2 Part 2	7835	186.5	6,734	6,898	6,773	Interval 2 Part 2	Cozzette	192	9	2	4	72	120	0.44

CUSTOMER Ursa Resources Group II LLC API 05-045-22801 HALLIBURTON | Production Enhancement BFD (lb/gal) 8.43 LAT 39.433335
LEASE Watson Ranch B 24AWI-17-07-95 SALES ORDER 902936037 Nov 902936123 Dec BHST (°F) 199 LONG -108.023363
FORMATION Iles Max Pressure (psi) 8000

Treatment Interval	Stage Number	Fluid Description	Stage Description	Proppant Description	Prop Conc (ppg)	Slurry Rate (bpm)	Design Clean Volume (gal)	Actual Clean Volume (gal)	Actual Clean Volume (bbl)	Calculated Slurry Volume (bbl)	Design Prop Total (lbs)	Calculated Prop Total (lbs)	Liquid Additives FR-76 Friction Reducer (gpt)	Acid 7.5% HCl Acid (gal)
Interval 1 Part 1 Corcoran @ 6934 - 7175 ft 197 °F	1-1	FR-76 Water	Load Well			9.1	4,300	398	9	9			0.25	
	1-2	7.5% HCl	Acid			9.9	500	500	12	12				500
	1-3	FR-76 Water	Pad			15.5	10,000	12,004	286	286			0.25	
	1-4	FR-76 Water	Proppant Laden Fluid	40/80 HydroProp	0.25	60.1	12,000	12,427	296	299	3,000	3,107	0.25	
	1-5	FR-76 Water	Flush			86.3	2,073,700	2,060,569	49,061	49,061			0.25	
	1-6	Shut-In	Shut-In							-				
Interval 1 Part 2 Corcoran @ 6934 - 7175 ft 197 °F	2-1	FR-76 Water	Load Well			26.7	4,300	4,268	102	102			0.25	
	2-2	FR-76 Water	Flush			86.9	2,095,700	1,646,051	39,192	39,192			0.25	
	2-3	Shut-In	Shut-In							-				
Interval 2 Part 1 Cozette @ 6734 - 6898 ft 192 °F	3-1	Treated Water	Load Well			29.4	4,300	10,110	241	241				
	3-2	7.5% HCl	Acid			13.8	500	500	12	12				500
	3-3	FR-76 Water	Pad			21.6	10,000	15,555	370	370			0.15	
	3-4	FR-76 Water	Proppant Laden Fluid	40/80 HydroProp	0.25	61.4	12,000	13,042	311	314	3,000	3,261	0.25	
	3-5	FR-76 Water	Flush			86.9	2,073,700	1,444,438	34,391	34,391			0.25	
	3-6	Shut-In	Shut-In							-				
Interval 2 Part 2 Cozette @ 6734 - 6898 ft	4-1	FR-76 Water	Load Well			52.8	4,300	4,336	103	103			0.25	
	4-2	FR-76 Water	Flush			90.4	2,095,700	1,482,457	35,297	35,297			0.25	
	4-3	Shut-In	Shut-In							-				
							8,401,000	6,706,655	159,682	159,689	6,000	6,367		

Fluid Type	Design Total (gal)	Actual Total (gal)
Treated Water		10,110
Fresh Water		
FR-76 Water	8,400,000	6,695,545
7.5% HCl	1,000	1,000
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Proppant Type	Design Total (lbs)	Calculated Total (lbs)	Ticket Total (lbs)
40/80 HydroProp	6,000	6,367	6,000
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

** IFS numbers for proppant are taken from software calculations based on multiple variables
** Proppant is billed from Weight Ticket volumes

	FR-76 (gal)	7.5% HCl (gal)
Initial Design Material Volume	2,100.0	1,000
Actual Design Material Volume	1,665.7	1,000
Physical Material Volume Pumped	1,636	1,000
Physical Material Volume Deviance	-2%	
MicroMotion Volume Pumped	1,640	-
MicroMotion Volume Deviance	-2%	-

Loaded	3300	1000
Excess to Bid	1,200	-
Excess to Actual	1,634	-

Acid Blend
-
HAI-404M
6 gal
LoSurf-300D
2 gal
-
-
-
-

Watson Ranch B 24AWI-17-07-95 - Cozzette - Interval 2 Part 2*Interval Summary*

Date: 12/7/2015
 Start Time: 8:52:00 AM
 End Time: 3:38:00 PM

Initial Rate (Breakdown): - bpm
 Initial Pressure (Breakdown): - psi
 Max Rate: 90.9 bpm
 Max Pressure: 4852 psi
 Max Pressure (SLF): - psi
 Average Rate: 90.5 bpm
 Average Pressure: 4735 psi
 Average Missile Pressure: 4822 psi
 Average Missile HHP: 10700 hhp
 Initial Braden Pressure: 0 psi
 Max Braden Pressure: 5 psi

 ISDP: 2289 psi
 Final Fracture Gradient: 0.776 psi/ft
 5 min: 2181 psi
 10 min: 2165 psi
 15 min: 2159 psi
 30 min: 2143 psi

Proppant Summary

40/80 HydroProp Pumped: 0 lbs
 Total Proppant Pumped* : 0 lbs
 Proppant in Formation: 0 lbs

Fluid Summary (by fluid description)

Treated Water Volume:	0	gal	0	bbls
Fresh Water Volume:	0	gal	0	bbls
FR-76 Water Volume:	1,486,793	gal	35,400	bbls
7.5% HCl Volume:	0	gal	0	bbls

Fluid Summary (by stage description)

Load Well Volume:	4,336	gal	103	bbls
Acid Volume:	0	gal	0	bbls
Pad Volume:	0	gal	0	bbls
Proppant Laden Fluid Volume:	0	gal	0	bbls
Flush Volume:	1,482,457	gal	35,297	bbls
Treatment Volume:	1,486,793	gal	35,400	bbls
Total Fluid Volume:	1,486,793	gal	35,400	bbls

Interval Status: Cut Short

Comments:

Issues building Pot Pressures as well as various issues on the Boost Tractor (APT). Estimated water on location is 35,000 bbls. Service Leader made call to swap backside hoses and not use the APT today due to its issues. However Haskel Pumps to build Pot Pressures on the pumps were frozen which also took a substantial amount of time to thaw out to build Pot Pressures. Pressure tested and found our ground valve had a pinhole leak at which time one had to be brought from the yard to location. Pumped all usable water on location of 35,400 bbls.

Engineer: Trent Kennedy

Treater: Donald Pack

Supervisor: Aaron Daily

Customer Rep: Brian Back

Customer Ursa Resources Group II LLC
Formation Iles
Lease Watson Ranch B 24AWI-17-07-
API 05-045-22801
Date November 24, 2015



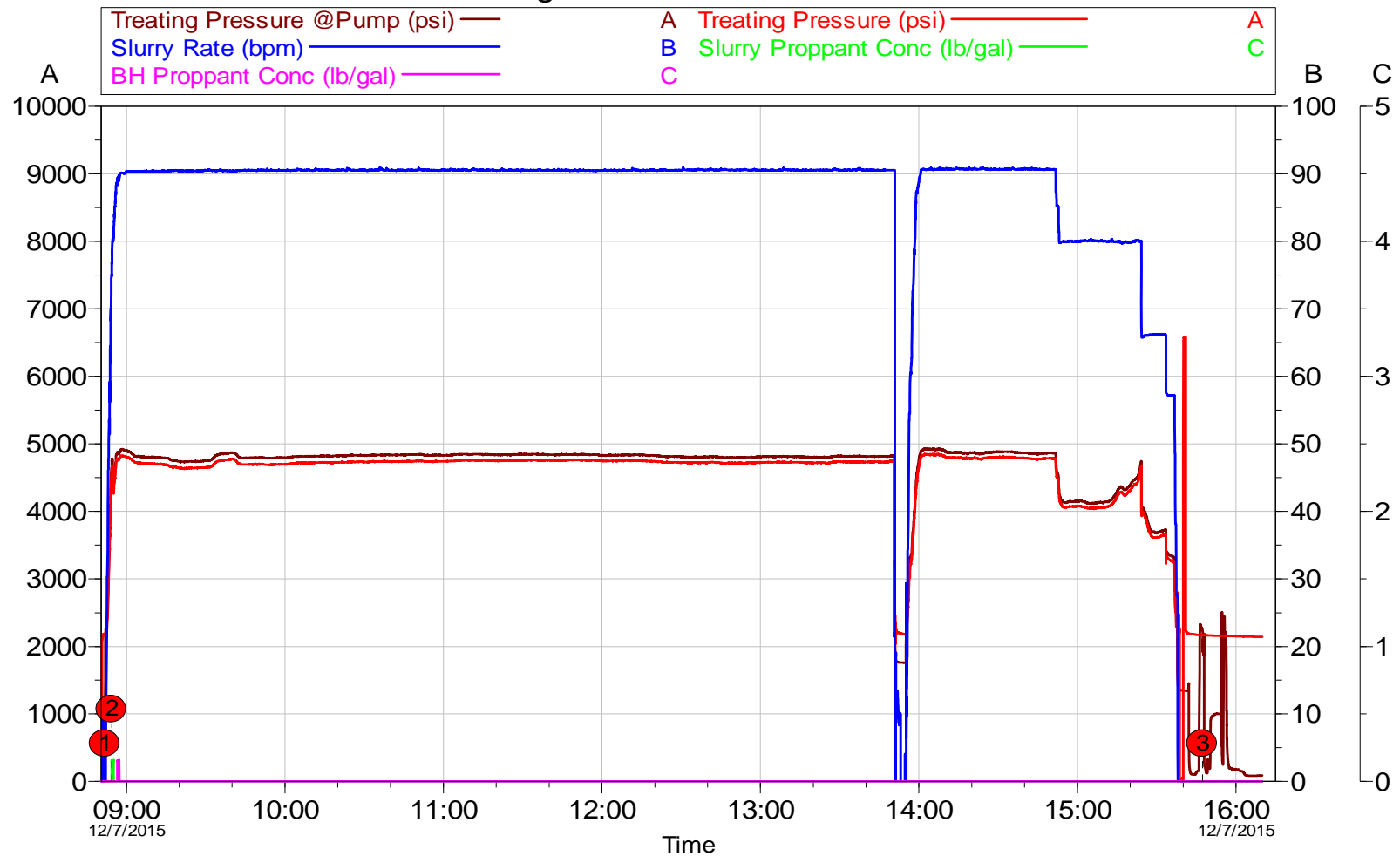
Well Summary

Interval					Fluids												Proppants	
	Average		Max		Treated Water		Fresh Water		FR-76 Water		7.5% HCl		Total Fluid		40/80 HydroProp	Total Proppant		
	Pressure	Rate	Pressure	Rate	gal	bbl	gal	bbl	gal	bbl	gal	bbl	gal	bbl	lbs	lbs		
Interval 1 Part 1	4160	86.4	4603	91.5	0	0	0	0	2,085,398	49,652	500	12	2,085,898	49,664	3,000	0		
Interval 1 Part 2	4674	86.9	4969	91.6	0	0	0	0	1,650,319	39,293	0	0	1,650,319	39,293	0	0		
Interval 2 Part 1	4275	86.8	4563	89.5	0	0	0	0	1,473,035	35,072	500	12	1,483,645	35,325	3,000	0		
Interval 2 Part 2	4735	90.5	4852	90.9	0	0	0	0	1,486,793	35,400	0	0	1,486,793	35,400	0	0		

Planned Recorded					Fluids								Proppants			
	Average		Max		Treated Water		Fresh Water		FR-76 Water		7.5% HCl		Total Fluid		40/80 HydroProp	Total Proppant
	Pressure	Rate	Pressure	Rate	gal	bbl	gal	bbl	gal	bbl	gal	bbl	gal	bbl	lbs	Total
					gal											
					0	0	0	0	8,400,000	200,000	1,000	24	8,401,000	200,024	6,000	6,000
	4461	87.7	4969	91.6	0	0	0	0	6,695,545	159,418	1,000	24	6,706,655	159,682	6,000	0
	Weight Tickets														6,000	6,000

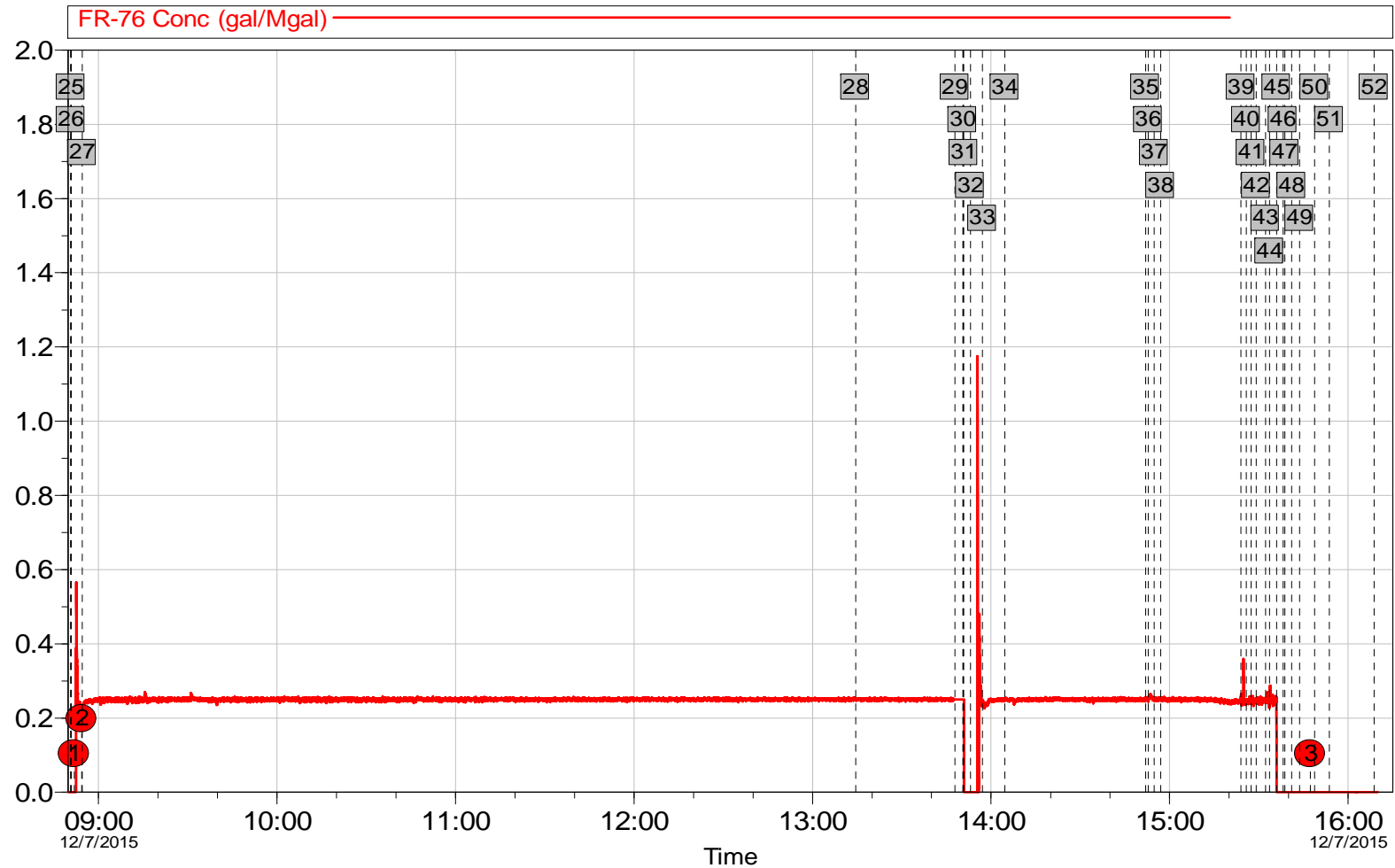
** IFS numbers for proppant are taken from software calculations
 ** Proppant is billed from Weight Ticket volumes

Treating Chart - Interval 2 - Part 2



Customer: URSA RESOURCES GROUP II LLC	Job Date: 07-Dec-2015	Sales Order #: 902936123	HALLIBURTON
Well Description: Watson Ranch B 24AWI-17-07-95	UWI: 05-045-22801		

Chemical Chart - Interval 2 - Part 2



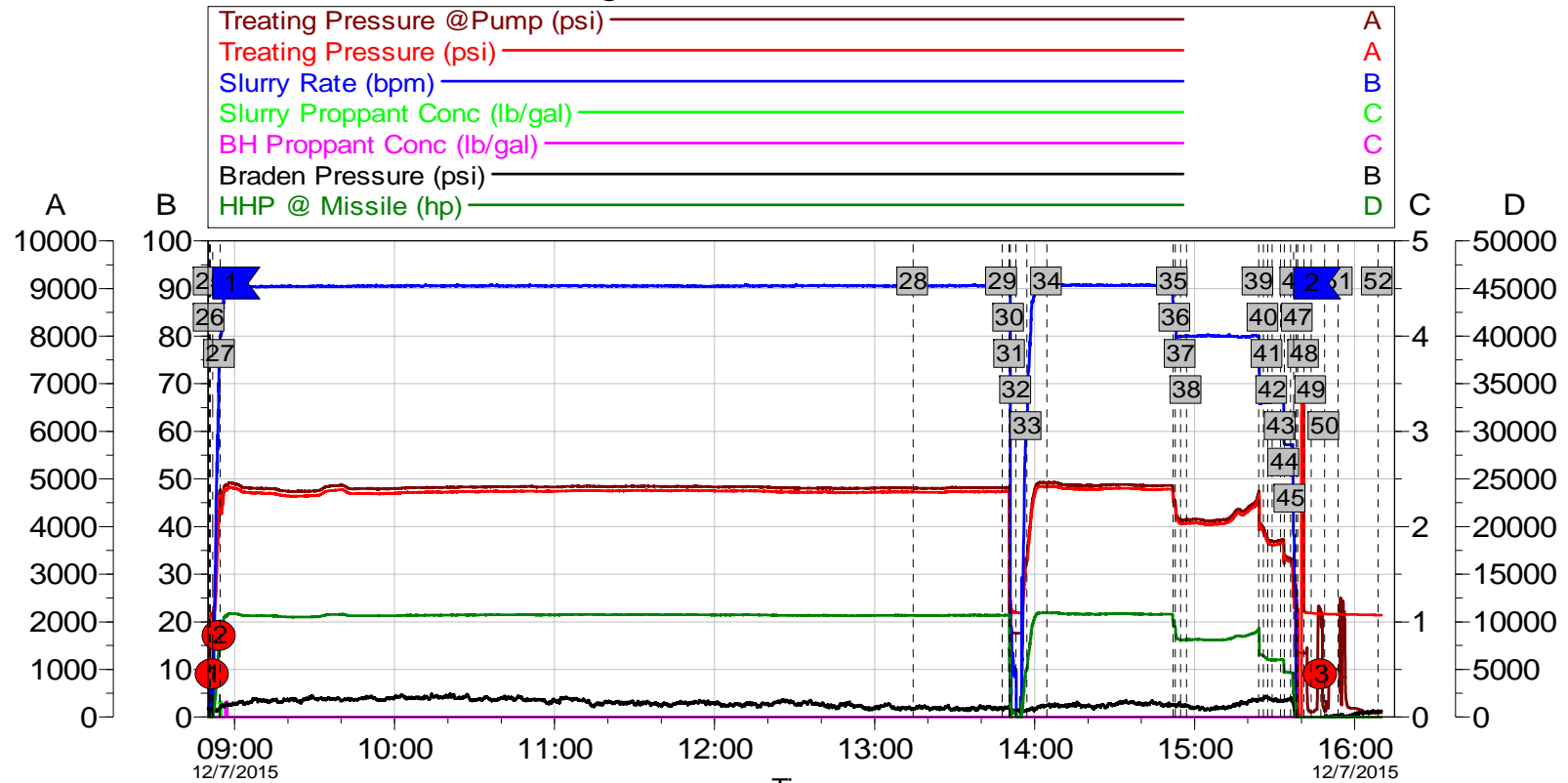
Customer: URSA RESOURCES GROUP II LLC
Well Description: Watson Ranch B 24AWI-17-07-95

Job Date: 07-Dec-2015
UWI: 05-045-22801

Sales Order #: 902936123

HALLIBURTON

Averages Chart - Interval 2 - Part 2

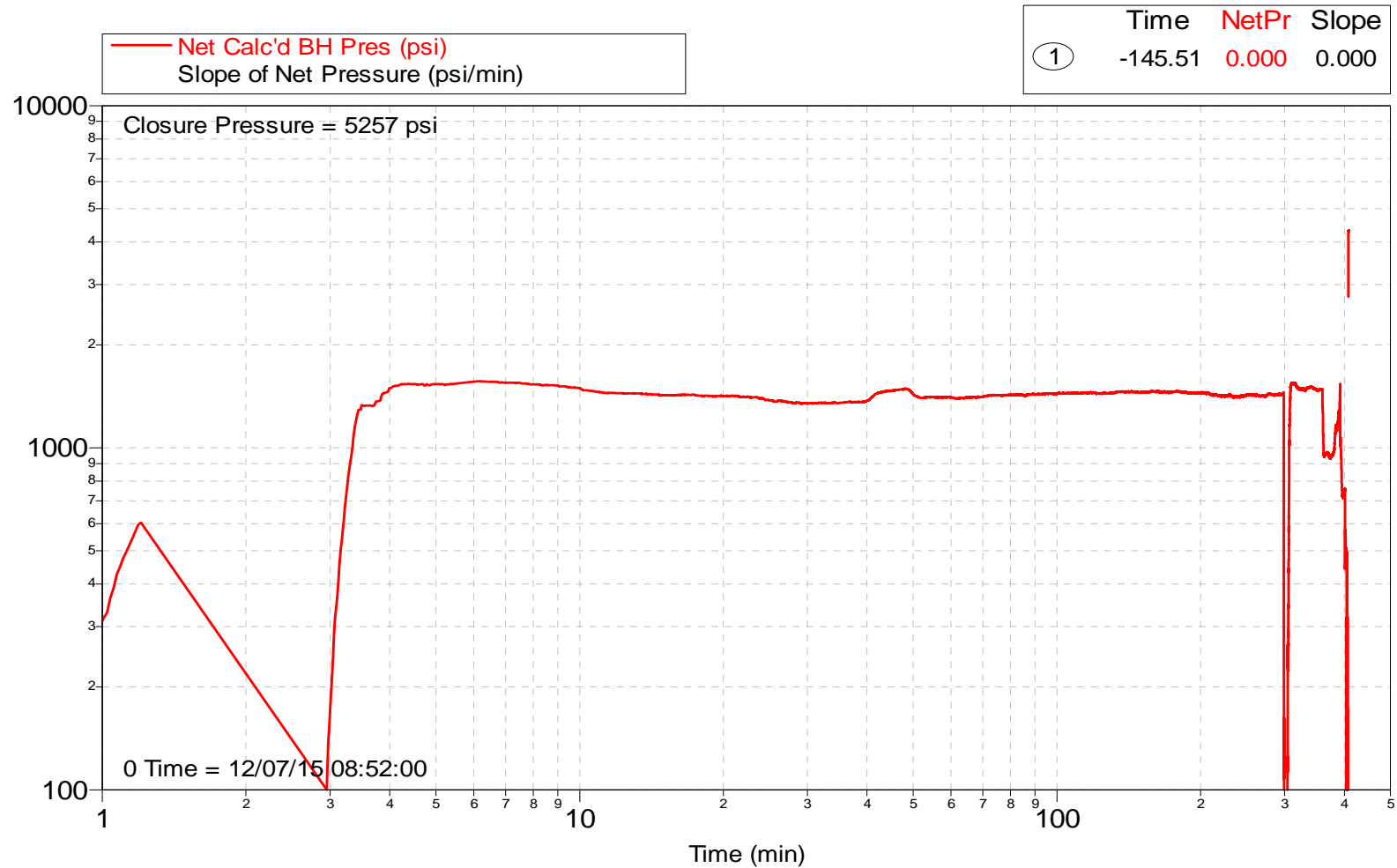


Local Event Log		TPP	TP	SR	SPC	BPC	NP	HM
Weighted Avg								
1	08:51:52	4822	4735	90.47	0.000	0.000	2.905	10700
2	15:37:06	676.0	2177	0.806	0.000	0.000	0.366	51.94

Customer:	URSA RESOURCES GROUP II LLC	Job Date:	07-Dec-2015	Sales Order #:	902936123
Well Description:	Watson Ranch B 24AWI-17-07-95	UWI:	05-045-22801		

HALLIBURTON

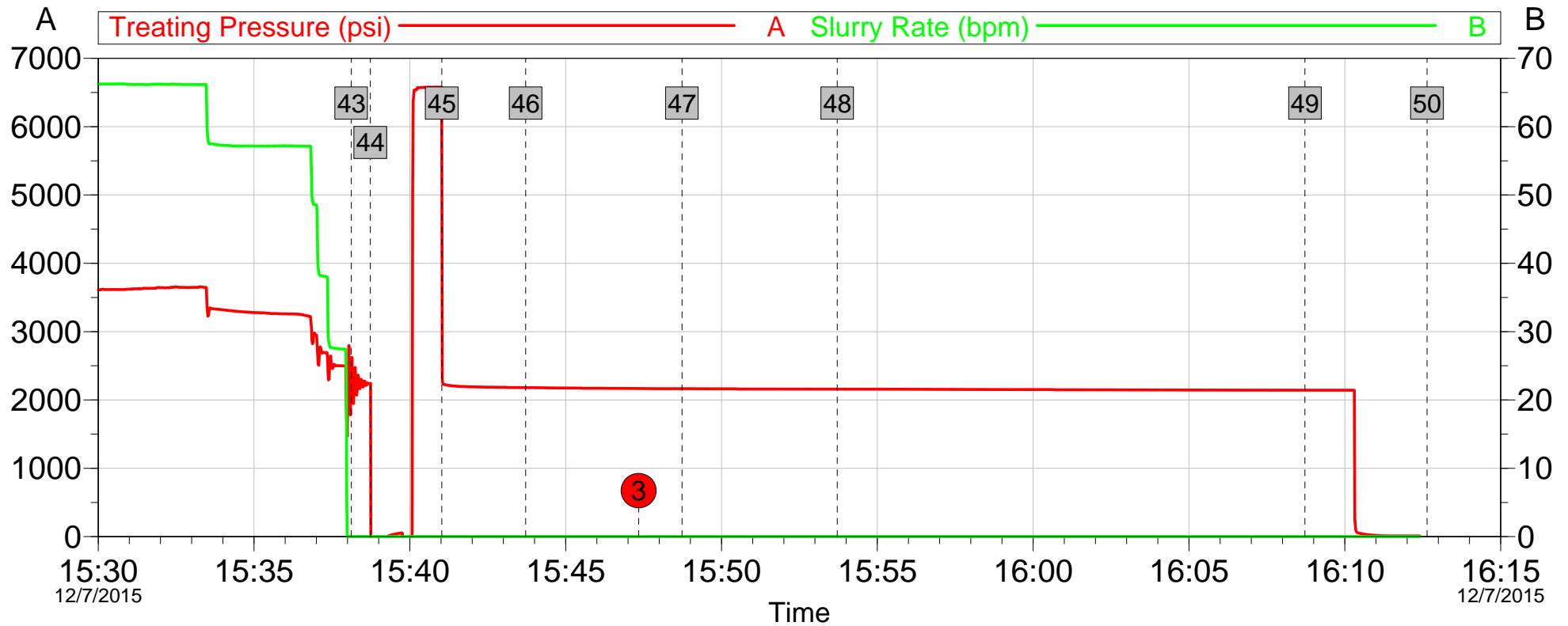
Net Pressure Plot - Interval 2 - Part 2



Customer: URSA RESOURCES GROUP II LLC	Job Date: 07-Dec-2015	Sales Order #: 902936123
Well Description: Watson Ranch B 24AWI-17-07-95	UWI: 05-045-22801	

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Treatment Chart - 30 min fallout



Global Event Log

43	ISDP = 2289 psi, FFG of 0.776 psi/ft	15:38:07
44	Swapping treating pressure to the backside of the well to monitor pressure for 30 minutes while crew cleans up equipment	15:38:44
45	Wrong slope entered into ACE for this other transducer, made the the correction	15:41:01
46	5 Minute Shut In Pressure of 2181 psi	15:43:43
47	10 Minute Shut In Pressure of 2165 psi	15:48:44
48	15 Minute Shut In Pressure of 2159 psi	15:53:43
49	30 Minute Shut In Pressure of 2143 psi	16:08:43
50	Ending Job	16:12:38

Customer: URSA RESOURCES GROUP II LLC
Well Description: Watson Ranch B 24AWI-17-07-95

Job Date: 07-Dec-2015
UWI: 05-045-22801

Sales Order #: 902936123

HALLIBURTON
INSITE for Stimulation v4.6.3
04-Feb-16 09:45

Ursa Resources Group II LLC

Watson Ranch B 24AWI-17-07-95

Intervals 1-4

Iles Formation

Garfield County, CO

API: 05-045-22801

Prepared for: Pake Younger

December 7, 2015

Stimulation Treatment

Appendix

- Interval Event Logs

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Interval 2 Part 2 - Event Log

Stage Number	Event Number	Time	Description	Comment	Treating Pressure psi	Treating Pressure @Pump psi	Braden Pressure psi	Slurry Rate bpm	Treatment Clean Vol gal
	1	12/7/2015 4:15	Arrive At Loc						
	2	5:04:48	Arrive At Loc	Customer Arrived					
	3	5:09:42	Other	Having issues with wireless on APT (broken wire) as well as pot pressure on one of the pumps					
	4	5:35:32	Start Job	Starting Job	0	4	19	0	0
	5	5:57:54	Other	Issue with CAN software on APT, if proper software cannot be obtained in appx 30 minutes we will rig up to go downhole with blender only.	7	18	20	0	0
	6	6:00:00	NPT Due to HES - Start		7	19	20	0	0
	7	6:12:02	Other	Service Leader made the call to change backside rig up on the hoses to go downhole solely with the Blender	8	23	19	0	0
	8	6:22:00	Other	Backside has been swapped around.	8	27	20	0	1
	9	6:23:00	Other	Still waiting on Pot Pressure due to frozen Haskel Pumps	8	27	19	0	1
	10	6:38:00	Other	Final pump has built up Pot Pressure. Starting to pull on a tub.	9	30	19	0	1
	11	6:45:36	Prime Pumps	Prime Pumps - Start	67	91	19	4.9	1303
	12	6:49:24	Prime Pumps	Prime Pumps - 7521 kicks out when it is engaged to prime up. E-Tech is investigating	103	121	19	0	2018
	13	6:54:05	Other	Rolling pumps over until 7521 gets figured out	283	317	19	8.9	2883
	14	7:02:19	Other	7521 believed that Pot Pressure dropped too low to allow it to engage.	98	110	19	0.5	7634
	15	7:02:52	Prime Pumps	Prime Pumps - Finished	197	222	19	6.8	7764
	16	7:06:02	Pressure Test	Pressure Test to 3,076 psi. Ground Valve is leaking (confirmed)	3076	3176	19	0	7780
	17	7:06:44	Other	Confirmation that the ground valve needs to be swapped out.	2925	2996	19	0	7780
	18	7:07:11	Other	Checking the Iron Float for another ground valve.	578	606	19	0	7831
	19	7:08:39	Other	Preparing to blow down equipment	89	150	19	0	7831
	20	8:15:00	Arrive At Loc	Ground Valve	49	117	1	0	8446
	21	8:30:31	Other	Ground Valve is rigged in and just double checking all connections. We will be priming trucks up again shortly	49	126	1	0	8446
	22	8:37:28	Prime Pumps	Prime Pumps - Start	109	186	1	5.5	10979
	23	8:44:19	Prime Pumps	Prime Pumps - Finished	247	320	1	0	12453
	24	8:48:18	Pressure Test	Pressure Test to 8,914 psi	8914	9044	2	0	12466
	25	8:50:44	NPT Due to HES - End	NPT Due to HES - End	1328	1168	2	0	12478
	26	8:50:44	Open Well	Open Well at pressure of 2179 psi	1445	1168	2	0	12478
1		8:51:51	Stage 1	Load Well	2189	1169	2	0	0
2		8:54:24	Stage 2	Flush	4589	4675	2	74.9	4336
	27	8:54:34	Other	Not pumping proppant even though IFS showed proppant concentration. This is noise which will be zeroed out.	4637	4758	2	77.5	4926

Interval 2 Part 2 - Event Log									
Stage Number	Event Number	Time	Description	Comment	Treating Pressure psi	Treating Pressure @Pump psi	Braden Pressure psi	Slurry Rate bpm	Treatment Clean Vol gal
	28	13:14:28	Other	Water guy's estimate about 11,000 bbls left usable on location	4730	4812	2	90.5	992438
	29	13:47:51	Other	blender went deleted, getting EE's over to the blender	4736	4814	2	90.5	1119378
	30	13:50:30	Other	Restarting ACE on the blender, when that happens the tub will start to fall off at that time we will drop rate	4741	4823	2	90.5	1129515
	31	13:50:52	Other	Offline, tub did not go empty so it does not seem like we would have lost prime on anything. Going to start walking rate back up	2125	2131	2	90.5	1130845
	32	13:53:04	Other	Zero'ing rate out while blender gets set up again.	2195	1763	1	9.8	1131857
	33	13:57:05	Other	There is a specific screen in ACE that if the blender goes to it (Hydraulic Engine Tab) ACE will crash which is what the EE on the blender did	3266	3352	1	61.9	1135159
	34	14:04:36	Other	Getting extra water from the Yater, estimate about 9,500 bbls available	4843	4917	2	90.8	1162441
	35	14:51:54	Other	Suction pressure maxed out on the blender, going to drop 5 bpm	4630	4700	3	87.2	1342565
	36	14:52:49	Other	Dropping 5 more bpm to get to 80 bpm	4413	4483	2	84.8	1345799
	37	14:54:49	Other	Water guys estimate about 3,200 bbls left	4063	4134	2	80	1352537
	38	14:56:57	Other	Going to pull on 35 gallons of FR-76 which should be enough if we only have 3200 bbls left to pump. If we need more we can bucket it up to the blender tub.	4071	4147	2	80	1359769
	39	15:23:59	Other	Dropping rate	4635	4710	4	80	1450580
	40	15:25:49	Other	30" average on 8 working tanks	3895	3962	4	66.1	1455808
	41	15:27:23	Other	After we shut down we will swap the pressure 1 (treating pressure) to the customer side of the well so that the top master on the well can be shut in	3680	3741	4	66.2	1460162
	42	15:29:08	Other	22" average on 8 working tanks	3615	3697	4	66.2	1465028
	43	15:32:15	Other	16" average on 8 working tanks	3642	3712	3	66.2	1473704
	44	15:33:37	Other	14" average on 8 working tanks. Dropping a truck	3337	3406	4	57.5	1477454
	45	15:35:58	Other	12" average on 8 working tanks, getting FR-76 on cleanup	3262	3334	4	57.2	1483107
	46	15:38:07	ISIP	ISDP = 2289 psi, FFG of 0.776 psi/ft	2289	1401	0	0	1486793
	47	15:38:43	Other	Swapping treating pressure to the backside of the well to monitor pressure for 30 minutes while crew cleans up equipment	2242	1355	-1	0	1486793
	48	15:41:01	Other	Wrong slope entered into ACE for this other transducer, made the the correction	5541	1344	-1	0	1486793
	49	15:43:42	Shut-In Pressure @ 5 Minutes	5 Minute Shut In Pressure of 2181 psi	2181	110	-1	0	1486793

Interval 2 Part 2 - Event Log

Stage Number	Event Number	Time	Description	Comment	Treating Pressure psi	Treating Pressure @Pump psi	Braden Pressure psi	Slurry Rate bpm	Treatment Clean Vol gal
3		15:47:20	Stage 3	Shut-In	2167	2236	0	0	1486793
	50	15:48:43	Shut-In Pressure @ 10 Minutes	10 Minute Shut In Pressure of 2165 psi	2165	137	0	0	1486793
	51	15:53:42	Shut-In Pressure @ 15 Minutes	15 Minute Shut In Pressure of 2159 psi	2159	1005	0	0	1486793
	52	16:08:43	Shut-In Pressure @ 30 Minutes	30 Minute Shut In Pressure of 2143 psi	2143	87	1	0	1486793