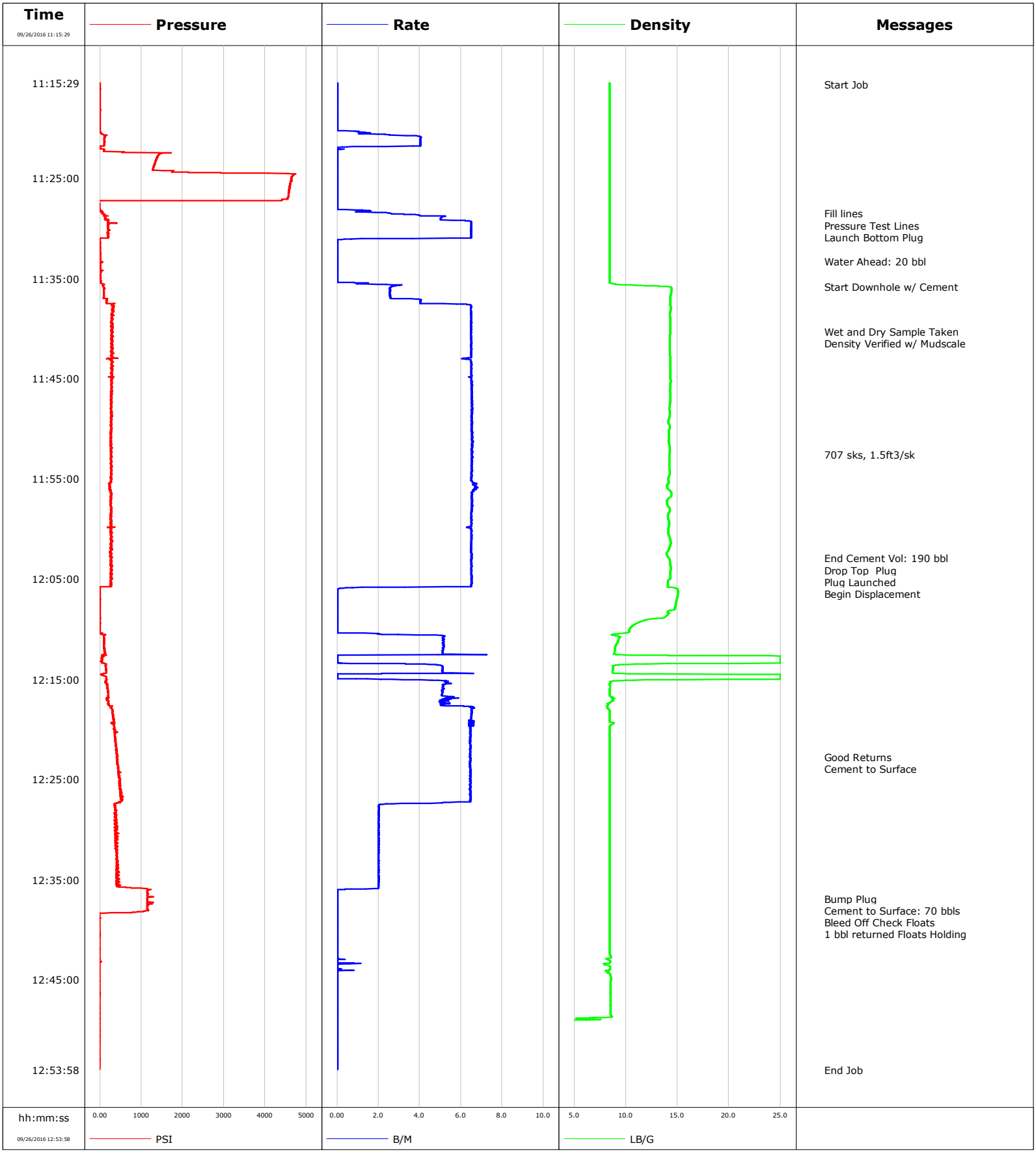
Schlumberger

Cementing Job Report

Well	State Seventy Holes J-18	**Client**	BONANZA CREEK ENERGY INC
Field	WATTENBERG	**SIR No.**	DDGG-00376
Engineer	Billy Barg	**Job Type**	Surface
Country	United States	**Job Date**	09-26-2016



Schlumberger

Cementing Service Report

Customer	Job Number
BONANZA CREEK ENERGY INC	DDGG-00376

Well	Location (legal)	Schlumberger Location	Job Start
State Seventy Holes J-18		Cheyenne, WY	Sep/26/2016

Field	Formation Name/Type	Deviation	Bit Size	Well MD	Well TVD
WATTENBERG		deg	13.5 in	1465.0 ft	1465.0 ft

County	State/Province	BHP	BHST	BHCT	Pore Press. Gradient
WELD	Colorado	psi	100 degF	80 degF	lb/gal

Well Master	API/UWI
0631641655	

Rig Name	Drilled For	Service Via
ENSIGN 121	Oil	Land

Offshore Zone	Well Class	Well Type
	New	Development

Drilling Fluid Type	Max. Density	Plastic Viscosity
WBM	8.40 lb/gal	cP

Service Line	Job Type
Cementing	Surface

Max. Allowed Tub. Press	Max. Allowed Ann. Press	WH Connection
psi	psi	9 5/8 8RD

Service Instructions

Cement 9 5/8" Surface casing at 1,465 ft
13 1/2" hole, 50% Excess

14.2 ppg slurry to surface
707 sks
1.51 ft3/sk

Casing/Liner

Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
1465.0	9.6	36.0	J55	8RD
0.0	0.0	0.0		

Tubing/Drill Pipe

T/D	Depth, ft	Size, in	Weight, lb/ft	Grade	Thread

Perforations/Open Hole

Top, ft	Bottom, ft	shot/ft	No. of Shots	Total Interval
ft	ft			ft
ft	ft			Diameter
ft	ft			in

Treat Down	Displacement	Packer Type	Packer Depth
Casing	113.0 bbl		ft

Tubing Vol.	Casing Vol.	Annular Vol.	Openhole Vol.
bbl	113.0 bbl	127.5 bbl	bbl

Casing/Tubing Secured	1 Hole Vol. Circulated prior to Cement
X	X

Lift Pressure	724 psi

Pipe Rotated	Pipe Reciprocated
☐	☐

No. Centralizers	Top Plugs	Bottom Plugs
	1	1

Cement Head Type	Single

Job Scheduled For	Arrived on Location	Leave Location
Sep/26/2016 03:00	Sep/26/2016 03:00	Sep/26/2016 13:30

Casing Tools		Squeeze Job	
Shoe Type	Float	Squeeze Type	
Shoe Depth	1465.0 ft	Tool Type	
Stage Tool Type		Tool Depth	ft
Stage Tool Depth	ft	Tail Pipe Size	in
Collar Type	Float	Tail Pipe Depth	ft
Collar Depth	1421.0 ft	Sqz. Total Vol.	bbl

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
09/26/2016	11:15:29	-1	0.0	8.42	16.4	
09/26/2016	11:15:38	-2	0.0	8.42	16.4	Start Job
09/26/2016	11:17:09	-2	0.0	8.43	0.0	
09/26/2016	11:18:49	-3	0.0	8.43	0.0	
09/26/2016	11:20:29	24	1.6	8.42	0.2	
09/26/2016	11:22:09	105	0.0	8.43	5.2	
09/26/2016	11:23:49	1301	0.0	8.43	5.2	
09/26/2016	11:25:29	4610	0.0	8.43	5.2	
09/26/2016	11:27:09	4406	0.0	8.43	5.2	
09/26/2016	11:28:32	53	2.6	8.43	5.8	Fill lines
09/26/2016	11:28:38	112	3.5	8.43	6.1	Pressure Test Lines
09/26/2016	11:28:46	96	4.0	8.42	6.6	Launch Bottom Plug
09/26/2016	11:28:49	143	5.2	8.42	6.8	
09/26/2016	11:30:29	176	6.5	8.43	17.0	
09/26/2016	11:32:09	-1	0.0	8.43	20.7	
09/26/2016	11:33:19	1	0.0	8.43	20.7	Water Ahead: 20 bbl
09/26/2016	11:33:49	1	0.0	8.43	20.7	
09/26/2016	11:35:29	30	1.5	8.47	20.7	
09/26/2016	11:35:50	76	2.6	14.16	21.5	Start Downhole w/ Cement
09/26/2016	11:37:09	153	4.0	14.32	25.0	
09/26/2016	11:38:49	292	6.5	14.27	34.8	

Well	Field	Job Start	Customer	Job Number
State Seventy Holes J-18	WATTENBERG	Sep/26/2016	BONANZA CREEK ENERGY INC	DDGG-00376

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
09/26/2016	11:40:29	291	6.5	14.29	45.6	
09/26/2016	11:40:48	312	6.5	14.28	47.7	Density Verified w/ Mudscale
09/26/2016	11:42:09	296	6.5	14.24	56.5	
09/26/2016	11:43:49	278	6.5	14.29	67.2	
09/26/2016	11:45:29	270	6.5	14.33	78.1	
09/26/2016	11:47:09	272	6.5	14.31	88.9	
09/26/2016	11:48:49	288	6.5	14.22	99.8	
09/26/2016	11:50:29	270	6.5	14.14	110.7	
09/26/2016	11:52:09	253	6.5	14.27	121.6	
09/26/2016	11:52:35	255	6.5	14.22	124.4	707 sks, 1.5ft3/sk
09/26/2016	11:53:49	265	6.5	14.21	132.5	
09/26/2016	11:55:29	247	6.7	14.14	143.3	
09/26/2016	11:57:09	276	6.5	13.99	154.3	
09/26/2016	11:58:49	282	6.5	14.06	165.2	
09/26/2016	12:00:29	281	6.5	14.11	176.0	
09/26/2016	12:02:09	266	6.5	14.12	186.9	
09/26/2016	12:02:56	287	6.5	14.17	192.0	End Cement Vol: 190 bbl
09/26/2016	12:03:49	268	6.5	14.38	197.7	
09/26/2016	12:04:08	268	6.5	14.33	199.8	Drop Top Plug
09/26/2016	12:04:12	270	6.5	14.33	200.2	Plug Launched
09/26/2016	12:04:22	263	6.5	14.30	201.3	Begin Displacement
09/26/2016	12:05:29	281	6.5	14.08	208.5	
09/26/2016	12:07:09	-8	0.0	14.91	210.9	
09/26/2016	12:08:49	-9	0.0	13.81	210.9	
09/26/2016	12:10:29	34	2.0	9.30	211.0	
09/26/2016	12:12:09	117	5.1	8.93	219.2	
09/26/2016	12:13:49	140	5.1	8.74	223.3	
09/26/2016	12:15:29	175	5.3	8.40	229.0	
09/26/2016	12:17:09	166	5.2	8.67	237.6	
09/26/2016	12:18:49	316	6.5	8.43	247.8	
09/26/2016	12:20:29	363	6.5	8.44	258.6	
09/26/2016	12:22:09	407	6.5	8.43	269.3	
09/26/2016	12:22:45	425	6.5	8.43	273.2	Good Returns
09/26/2016	12:22:46	400	6.5	8.43	273.3	Cement to Surface
09/26/2016	12:23:49	435	6.4	8.44	280.1	
09/26/2016	12:25:29	488	6.4	8.43	290.8	
09/26/2016	12:27:09	530	6.4	8.43	301.6	
09/26/2016	12:28:49	358	2.0	8.43	305.9	
09/26/2016	12:30:29	371	2.0	8.43	309.3	
09/26/2016	12:32:09	388	2.0	8.43	312.6	
09/26/2016	12:33:49	410	2.0	8.43	316.0	
09/26/2016	12:35:29	391	2.0	8.43	319.3	
09/26/2016	12:36:53	1141	0.0	8.43	320.2	Bump Plug
09/26/2016	12:37:00	1138	0.0	8.43	320.2	Cement to Surface: 7 bbls
09/26/2016	12:37:09	1138	0.0	8.43	320.2	
09/26/2016	12:37:45	1138	0.0	8.43	320.2	Bleed Off Check Floats
09/26/2016	12:38:49	-18	0.0	8.43	320.2	
09/26/2016	12:39:03	-17	0.0	8.43	320.2	1 bbl returned Floats Holding
09/26/2016	12:40:29	-11	0.0	8.43	320.2	
09/26/2016	12:42:09	-13	0.0	8.43	320.2	
09/26/2016	12:43:49	-12	0.0	8.47	320.3	
09/26/2016	12:45:29	-13	0.0	8.52	320.4	
09/26/2016	12:47:09	-12	0.0	8.50	320.4	
09/26/2016	12:48:49	-12	0.0	6.51	320.4	

Well	Field	Job Start	Customer	Job Number
State Seventy Holes J-18	WATTENBERG	Sep/26/2016	BONANZA CREEK ENERGY INC	DDGG-00376

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
09/26/2016	12:52:09	-13	0.0	0.01	320.4	
09/26/2016	12:53:49	-13	0.0	0.01	320.4	

Post Job Summary

Average Pump Rates, bbl/min				Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2
5.3			7.2	190.0	0.0	0.0	

Treating Pressure Summary, psi					Breakdown Fluid		
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density
4738	-13	491	1200			bbl	lb/gal

Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp		
%	215.0 bbl	109.5 bbl	55 degF	Cement Circulated to Surface? [X]	Volume 7.0 bbl
				Washed Thru Perfs [ ]	To ft

Customer or Authorized Representative	Schlumberger Supervisor		
	Billy Barg	Circulation Lost [ ]	Job Completed [X]
		-	-