Cement Job Log

C&J ENERGY SERVICES

Customer:	HIGHPOINT OPERATING	Date:	9/7/2018	Serv. Supervisor:	Barlen Joyner
Cust. Rep.:	Damien Hunter	Ticket #:	BCO-1809-0020	Serv. Center	Brighton - 3021
Lease:	Critter Creek 15-6104BW	API Well #:	05-123-47300	County: Weld	State: Colorado
Well Type:	Oil	Rig:	Cade #24	Type of Job:	Production Liner

Materials Furnished by C&J ENERGY SERVICES

Plugs	Casing Hardware	Physical Slurry Properties					
		Sacks of Cement	Fluid Dens (lb/gal)	Yield (cuft/sk)	Mix Water (gal/sk)	Fluid Volume (bbls)	Mix Water (bbls)
Spacer - 40 bbl Fresh Water + 400 lbs SAPP	+10.0 PPB CJ890						
Tail	+100 % CJFCSB012 +0.3 % CJ704+0.7 % CJ511+0.1 % CJ210K	740	13.5	1.45	7.17	191.47	126
Spacer - Following Tail Cement pump 5 bbl Fresh							
Displacement - First 20 bbl of Displacement Shou	+1.0 PPB CJF113125						
Displacement Chemicals:							

OPEN HOLE DATA	TUBULAR DATA	SIZE WEIGHT	THREAD	DEPTH (ft)	GRADE	ID (in)	BURST (psi)	COLLAPSE (psi)
6 1/8 from 7895' to 17881'	4" Drill Pipe from 0' to 7547'	N/A						

PREVIOUS CASING DATA	PERFORATED INTERVAL DATA				CASING EQUIPMENT DEPTHS			
	TOP	BTM	SPF	SIZE	SHOE	FLOAT	STAGE	ACP
7" 23# from 0' to 7895' & 4 1/2 11.6# from 7547' to 17881'	N/A				17881	17822		

WELL FLUID		DISPLACEMENT FLUID			DIFF PRESS (psi)	CSG LIFT (psi)	MAX PRESS (psi)	WATER ON LOC (bbl)
TYPE	DENSITY	VOLUME	TYPE	DENSITY				
Mud	10.3 ppg	212.9 bbl	Water	8.3 ppg	840	N/A	5000	800

Time	Rate (bbl/min)	Csg. Press. (psi)	Tbg. Press (psi)	Ann. Press. (psi)	Stg. Vol. (bbl)	Cum. Vol. (bbl)	Stage Details
6:10 AM						0	Arrive on location / sign in (requested on location @ 08:00)
6:20 AM						0	Spot trucks / rig in
7:10 AM						0	Wait for rig to finish running drill pipe
10:30 AM						0	Safety meeting
10:50 AM		6700				0	Pressure test
10:53 AM	5	1200			20	20	SAPP spacer
11:05 AM	5.5	1100			197	217	Mix, weigh and pump 740sx G + ads @ 13.5ppg - From liner top @ 7547' to 17881'
11:50 AM						217	Stop / Wash up pumps & lines
12:00 PM	1.5	16			5	222	Pump 5bbls Fresh + 5 lbs MCR-4
12:03 PM						222	Stop / Drop dart
12:09 PM	4	130			32	254	Start displacement
12:18 PM	4	800			13	267	Caught cement
12:21 PM	3.1	937			9.5	276.5	Drop rate to see dart picking up the plug
12:24 PM	3.1	1754				276.5	Dart picked up the plug
12:24 PM	5.4	1458			145.5	422	Increase rate
12:53 PM	3	1198			12	434	Drop rate
12:57 PM	3	1000			212	646	Bump plug
12:57 PM		1710				646	Plug down @ 212 bbls
1:00 PM	3	3600			2.5	648.5	Set packer
1:02 PM						648.5	Check floats - 1.5 bbls back
1:09 PM	1.5	0			0.5	649	Fill backside for pressure test
1:13 PM		2031				649	Test backside / packer
1:19 PM		1990				649	End backside test
1:26 PM	3	4900			5	654	Attempt to shear liner hanger tool / pressure hesitated & then slowly released 10 psi at a time

Left Yard	9/7/18 4:30 AM	Left Loc.	9/7/18 4:00 PM	Start Pump	9/7/18 10:53 AM
Arrived Loc.	9/7/18 6:10 AM	Returned Yd.	9/7/18 5:50 PM	End Pump	9/7/18 3:13 PM

Bumped Plug (psi)	Final Differential (psi)	Floats Held (Y/N)	PSI Left on Casing	Cement to Surface (bbl)	Top of Cement (ft)	Full Circ. During Job (Y/N)	Max Pump Pressure (psi)	Casing Rotation	Standby Charged(hrs)
Yes	1000	Yes	0	0	7547	Yes	4900	N/A	0

Barlen Joyner — Service Supervisor

9/ 7/ 2018 — Date

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Customer:	HIGHPOINT OPERATING	**Date:**	7-Sep-18	**Serv. Supervisor:**	Barlen Joyner
Cust. Rep.:	Damien Hunter	**Ticket #:**	BCO-1809-0020	**Serv. Center**	Brighton
Lease:	**Critter Creek 15-6104BW**	**API Well #:**	**05-123-47300**	**County:** **Weld**	**State:** Colorado
Well Type:	**Oil**	**Rig:**	**Cade #24**	**Type of Job:**	**Production Liner**

Time	Rate (bbl/min)	Csg. Press. (psi)	Tbg. Press (psi)	Ann. Press. (psi)	Stg. Vol. (bbl)	Cum. Vol. (bbl)	Stage Details	Mark X for last fluid pumped
1:35 PM						654	Tried to rotate off liner / Rotated off drill pipe	
2:55 PM	8	1200			105	759	Forward circulate Intermediate casing & drill pipe	X
3:13 PM		0					Stop / verify zero	
3:20 PM							Rig out	
4:00 PM							Leave location	

Comments/Special Customer Instructions