

Cementing Treatment



Start Date 3-28-2018 **Well** G & D HANKS TA-27-28HN
End Date 3-28-2018 **County** WELD
Client BAYSWATER EXPLORATION & PRODUCTION, LLC **State/Province** CO
Client Field Rep MARSHAL **API** 05-123-46288
Service Supervisor ALBERT SNYDER **Rig** TRUE 38
Field Ticket No. FT-05169-Q9K8R60202-55849 **Type of Job** Surface
District Cheyenne, WY

WELL GEOMETRY

Type	ID (in)	OD (in)	Wt. (lb/ft)	MD (ft)	TVD (ft)	Excess(%)
Open Hole	13.50			1,563.00	1,563.00	30.00
Casing	8.92	9.63	36.00	1,553.00	1,553.00	

Shoe Length (ft): 44

HARDWARE

Bottom Plug Used? No
Top Plug Used? YES
Top Plug Provided By BAYSWATER
Top Plug Size 9 5/8
Centralizers Used No
Landing Collar Depth (ft) 1,507
Tool Float Collar
Tool Depth (ft) 1507
Max Casing Pressure - Rated (psi) 2000 PSI
Max Casing Pressure - Operated (psi) 1000 PSI
Pipe Movement NONE
Job Pumped Through Cement head
Top Connection Thread 8 rd
Top Connection Size 9 5/8

Cementing Treatment



CIRCULATION PRIOR TO JOB

Well Circulated By	Rig	Solids Present at End of Circulation	No
Circulation Prior to Job	Yes	10 sec SGS	1
Circulation Time (min)	30 minutes	10 min SGS	1
Circulation Rate (bpm)	6	30 min SGS	1
Circulation Volume (bbls)	200 bbls	Flare Prior to/during the Cement Job	No
Lost Circulation Prior to Cement Job	No	Gas Present	No
Mud Density In (ppg)	8.8		
Mud Density Out (ppg)	8.8		
PV Mud In	3		
PV Mud Out	3		
YP Mud In	1		
YP Mud Out	1		

TEMPERATURE

Ambient Temperature (°F)	40	Slurry Cement Temperature (°F)	70
Mix Water Temperature (°F)	70	Flow Line Temperature (°F)	97

BJ FLUID DETAILS

Fluid Type	Fluid Name	Density (ppg)	Yield (Cu Ft/sk)	H2O Req. (gals/sk)	Planned Top of Fluid (Ft)	Length (Ft)	Vol (sk)	Vol (Cu Ft)	Vol (bbls)
Spacer / Pre Flush / Flush	Water	8.3337							20.0000
Lead Slurry	BJCem S100.03.1C	12.0000	2.5298	14.86	0.00	1,050.00	265	667.0000	118.7000
Tail Slurry	BJCem S100.03.1C	12.5000	2.2256	12.59	1,050.00	500.00	150	336.0000	59.8000
Displacement Final	Water	8.3337							116.6000

Cementing Treatment



Fluid Type	Fluid Name	Component	Concentration	UOM
Spacer / Pre Flush / Flush	Water	Fresh Water	100.0000	PCT
Lead Slurry	BJCem S100.03.1C	ACCELERATOR, SALT, CHLORIDE, CALCIUM, A-7P, PELLETS	2.0000	LBS/SK
Lead Slurry	BJCem S100.03.1C	CEMENT EXTENDER, SODIUM METASILICATE A-2 ANHYDROUS	2.0000	LBS/SK
Lead Slurry	BJCem S100.03.1C	CEMENT, ASTM TYPE III	100.0000	PCT
Lead Slurry	BJCem S100.03.1C	CEMENT EXTENDER, GYPSUM, A-10	5.0000	BWOB
Lead Slurry	BJCem S100.03.1C	Foam Preventer, FP-25	0.3000	BWOB
Lead Slurry	BJCem S100.03.1C	IntegraSeal CELLO	0.1300	LBS/SK
Tail Slurry	BJCem S100.03.1C	CEMENT EXTENDER, SODIUM METASILICATE A-2 ANHYDROUS	2.0000	LBS/SK
Tail Slurry	BJCem S100.03.1C	ACCELERATOR, SALT, CHLORIDE, CALCIUM, A-7P, PELLETS	2.0000	LBS/SK
Tail Slurry	BJCem S100.03.1C	Foam Preventer, FP-25	0.3000	BWOB
Tail Slurry	BJCem S100.03.1C	CEMENT, ASTM TYPE III	100.0000	PCT
Tail Slurry	BJCem S100.03.1C	CEMENT EXTENDER, GYPSUM, A-10	5.0000	BWOB
Tail Slurry	BJCem S100.03.1C	IntegraSeal CELLO	0.1300	LBS/SK
Displacement Final	Water	Fresh Water	100.0000	PCT

Cementing Treatment



DISPLACEMENT AND END OF JOB SUMMARY

Displaced by	BJ Services	Amount of Cement Returned/Reversed	40 bbls
Calculated Displacement Volume (bbls)	116	Method Used to Verify Returns	Visual
Actual Displacement Volume (bbls)	116	Amount of Spacer to Surface	20 bbls
Did Float Hold?	Yes	Pressure Left on Casing (psi)	0
Bump Plug	Yes	Amount Bled Back After Job	1
Bump Plug Pressure (psi)	1000	Total Volume Pumped (bbls)	315.3
Were Returns Planned at Surface	yes	Top Out Cement Spotted	No
Cement returns During Job	yes	Lost Circulation During Cement Job	No

COMMENTS

Treatment Report

Plug landed on calculated (116 bbls). Floats holding, got back 40 bbls of cement to surface, 20 bbls of water spacer, job went according to plan, good circulation.



Customer Name BAYSWATER
 Well Name G&D HANKS TA-27-28HN
 Job Type Surface

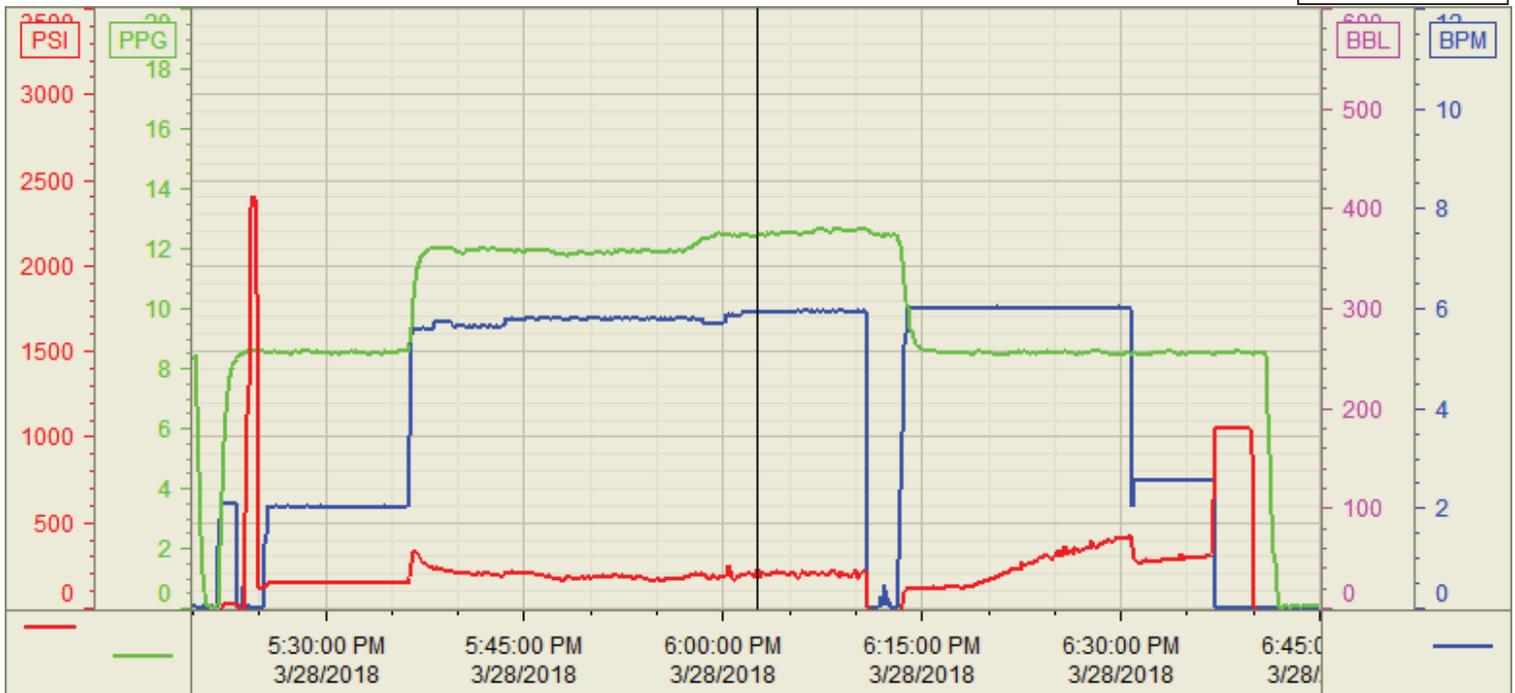
District Cheyenne
 Supervisor ALBERT SNYDER

Start Date/Time	Event	Event ID	Density (lb/gal)	Pump Rate (bpm)	Pump Vol (bbls)	Pipe Pressure (psi)	Comments
3/28/2018 8:00	Called out						Called out at 8:00 am
3/28/2018 9:30	Journey Steacs Briefing						discussed travel out to location
3/28/2018 10:10	Depart yard						departed in a convoy
3/28/2018 14:00	Requested on location						request on location 14:00
3/28/2018 11:21	Arrive on location	48					arrived at 11:21 2 hour early
3/28/2018 15:00	Steacs briefing						Discussed how to rig up and spot trucks
3/28/2018 15:20	rig up	50					used teamwork work slow and safe
3/28/2018 17:00	Safety meeting	53					Discussed how we were going to pump surface pipe.
3/28/2018 17:35	Fill Lines		8.33	2	3	200	Used fresh water
3/28/2018 17:38	Test lines		8.33	1	1	2000	lines tested to 2000 psi good
3/28/2018 17:39	Pump spacer	56	8.33	2	20	180	dye spacer
3/28/2018 17:50	Pump Lead cement	58	12	6	119	200	mix and pump 365 sks of s-100 @12# with 2.52 yield and 14.86 wr
3/28/2018 18:12	Pump tail cement	60	12.5	6	59.3	220	mix and pump 150 sks of s-100 @12.5# ,2.22 yield and 12.59 wr
3/28/2018 18:26	drop plug						used their plug wash on top of plug
3/28/2018 18:28	Dispace well		8.33	6	40	250	Fresh water
3/28/2018 18:32	Dispace well		8.33	6	57	400	got spacer back all 20 bbls
3/28/2018 18:36	Dispace well		8.33	6	77	420	got cement back 40 bbl to the surface
3/28/2018 18:40	Slow rate		8.33	3	100	400	slowed down to land the plug
3/28/2018 18:51	Land the Plug		8.33	3	116	1000	plug landed
3/28/2018 18:55	Check floats	68					float is holding flooded back 1 bbl
3/28/2018 19:20	Journey Steacs Briefing						Discussed rigging down
3/28/2018 19:40	rig down	73					used teamwork to wash up and rig down
3/28/2018 20:00	After action review						Discussed entire job and how it went
3/29/2018 20:10	wait for next job						waited on location for the next surface on well

Customer: BAYSWATER
 Well Number: TA-27-28HN
 Lease Info: G&D Hanks



Print Date/Time
 3/28/2018 7:05:14 PM



	Name	Y value	X value/time stamp	Tag name Y
1	DS - Press (PSI)	227.7	3/28/2018 6:02:31 PM	Cementer\DS_DISCHARGE_PRESS_DIAL
2	DH - Density (PPG)	12.30	3/28/2018 6:02:31 PM	Cementer\DENSITY2_ACTUAL_RATE
3	Combined Rate	5.93	3/28/2018 6:02:33 PM	Cementer\Flow_Combined
4				
5				

Source: Control1 7:05:08 PM