

ENCANA OIL & GAS (USA) INC. - EBUS
DO NOT MAIL - 370 17TH ST STE 1700
DENVER, Colorado

Vogl Geist 2C-5H-E267

H&P 522

Post Job Summary

Cement Intermediate Casing

Date Prepared: 4/1/2014
Version: 1

Service Supervisor: WHIPPLE, WESLEY

Submitted by: LANSDALE, JUSTIN

HALLIBURTON

HALLIBURTON

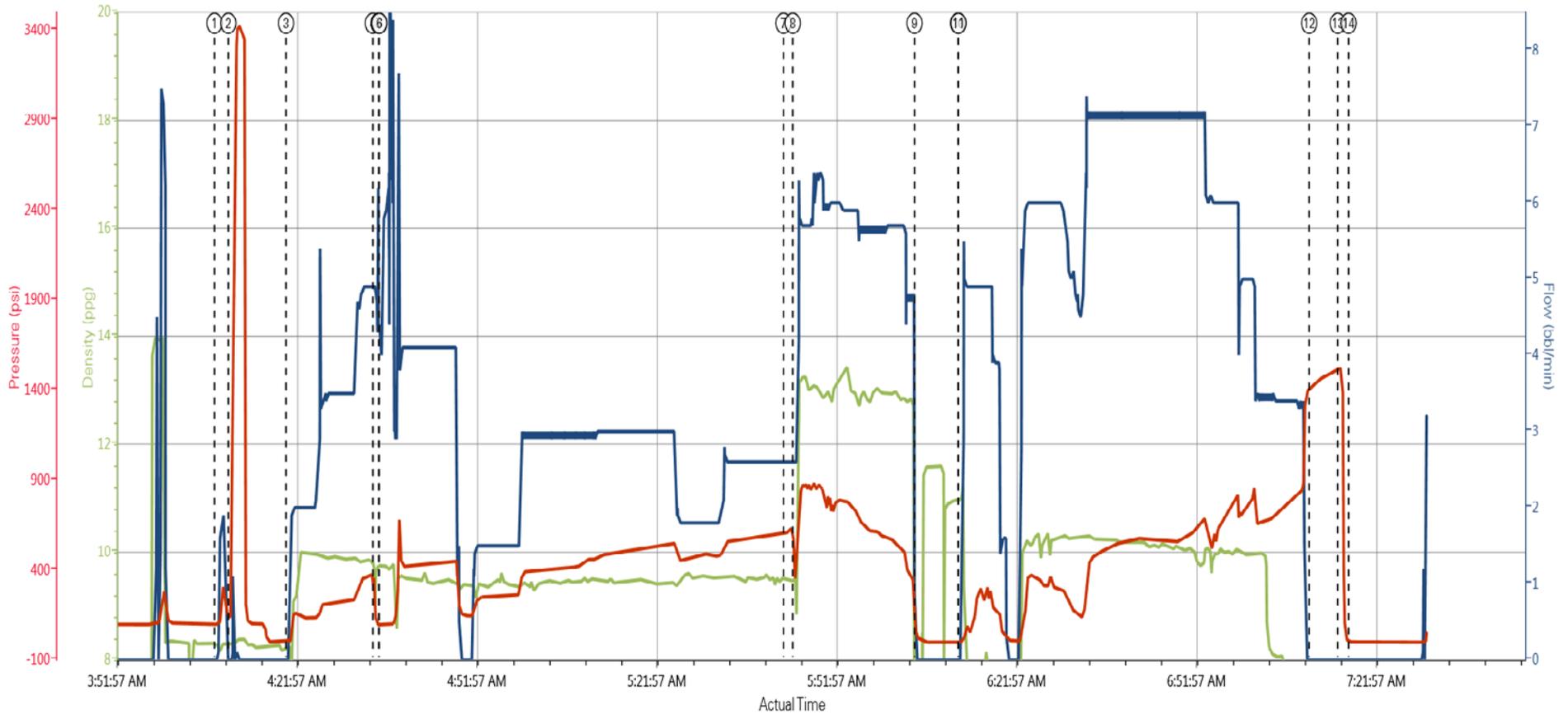
Pumping Schedule

Stage /Plug #	Fluid #	Fluid Type	Fluid Name	Surface Density lbm/gal	Avg Rate bbl/min	Surface Volume
1	1	Spacer	TUNED SPACER III	10.00	3.5	30.0 bbl
1	2	Cement Slurry	TUNED LIGHT (TM) B1	10.00	4	332.0 sacks
1	3	Cement Slurry	VARICEM B1	13.00	6	317.0 sacks
1	4	Mud	DISPLACEMENT	8.40	7	288.8 bbls

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Data Acquisition

Job Graph



DH Density (ppg) Comb Pump Rate (bbl/min) PS Pump Press (psi)

- ① Start Job 8:3,0;99
- ② Test Lines 8:32,0;137
- ③ Pump Spacer 18:25,0;0
- ④ Drop Bottom Plug 9:29;4,9;140
- ⑤ Drop Bottom Plug 9:74;4;92
- ⑥ Pump Lead Cement 9:73;4;92
- ⑦ Drop Bottom Plug 9:5;2,6;608
- ⑧ Pump Tail Cement 9:52;2,6;342
- ⑨ Shutdown -13:12,0;27
- ⑩ Drop Top Plug 10:97,0;-1
- ⑪ Pump Displacement 11;0;-2
- ⑫ Bump Plug 7:51;0;1425
- ⑬ Other 7:54;0;1526
- ⑭ End Job 7:63;0;1

HALLIBURTON

Service Supervisor Reports

Job Log

Date/Time	Chart #	Activity Code	Pump Rate	Cum Vol	Pump	Pressure (psig)	Comments
03/28/2014 20:00		Call Out					Crew called out by ARS office at 2000 and requested on location at 0000.
03/28/2014 23:20		Crew Leave Yard					Crew pre tripped all equipment in yard to ensure working quality. Held a pre journey safety meeting to discuss route being traveled, road/weather conditions and potential driving hazards. All drivers fit for duty
03/28/2014 23:45		Arrive At Loc					Crew arrived on location and met with Company Rep to discuss job details.
03/29/2014 01:00		Rig-Up Equipment					Crew performed site assesment and hazard hunt. Commenced rig up of all equipment.
03/29/2014 02:00		Casing on Bottom					Rig landed casing on bottom and began circulating
03/29/2014 03:00		Rig-Up Completed					Crew completed rig up of all equipment
03/29/2014 03:30		Safety Meeting					Held a pre job safety meeting with all hands on location to discuss job process, procedures ad potential hazards that could occur while pumping.
03/29/2014 04:08		Start Job					Start Job
03/29/2014 04:10		Test Lines				3500.0	Pressure test pumps and lines to 3500 psi. Found no leaks in iron and pressure held.
03/29/2014 04:20		Pump Spacer 1	3.5	30		210.0	Mix and Pump 30bbls of Tuned Spacer @ 10.0ppg. Density verified by pressurized mud scales.
03/29/2014 04:34		Drop Bottom Plug					Drop Bottom plug from HES plug container. Witnessed by Company Rep.
03/29/2014 04:35		Pump Lead Cement	4	137.17		420.0	Mix and Pump 332 sks of Tuned Light @ 10.0 ppg. Density verified by pressurized mud scales.
03/29/2014 05:44		Drop Bottom Plug					Drop Bottom plug from HES plug container. Witnessed by Company Rep.
03/29/2014 05:45		Pump Tail Cement	6	110.09		875.0	Mix and pump 317sks of Varicem @ 13.0ppg. Density verified by pressurized mud scales.
03/29/2014 06:04		Shutdown					Shutdown to wash Cement Mixing System
03/29/2014 06:13		Drop Top Plug					Drop Top plug from HES plug Container. Witnessed by Company Rep
03/29/2014 06:14		Pump Displacement	7	288.75		570.0	Pump 10.7 ppg. Mud displacement. recieved 30bbls of cement to surface.
03/29/2014 07:10		Bump Plug				1400.0	Bump plug 500 psi over final pumping pressure.
03/29/2014 07:15		Check Floats					Released pressure back to pump truck. Recieved 3bbls back and floats held.
03/29/2014 07:17		End Job					End Job
03/29/2014 07:30		Rig-Down Equipment					Crew held rig down safety meeting. Commenced rig down of all equipment.
03/29/2014 08:00		Rig-Down Completed					Rig down completed.
03/29/2014 08:30		Crew Leave Location					Crew held a pre journey safety meeting to discuss route being traveled, road/weather conditions and potential driving hazards. All drivers fit for duty

The Road to Excellence Starts with Safety

Sold To #: 340078	Ship To #: 3456554	Quote #:	Sales Order #: 901219936
Customer: ENCANA OIL & GAS (USA) INC. - EBUS		Customer Rep: Bergeron, Kevin	
Well Name: Vogl Geist		Well #: 2C-5H-E267	API/UWI #: 05-123-37860
Field:	City (SAP): FIRESTONE	County/Parish: Weld	State: Colorado
Lat: N 40.168 deg. OR N 40 deg. 10 min. 5.484 secs.		Long: W 104.922 deg. OR W -105 deg. 4 min. 39.864 secs.	
Contractor: H&P Drilling		Rig/Platform Name/Num: H&P 522	
Job Purpose: Cement Intermediate Casing			
Well Type: Development Well		Job Type: Cement Intermediate Casing	
Sales Person: CORMIER, ALLISON		Srvc Supervisor: WHIPPLE, WESLEY	MBU ID Emp #: 518611

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
ALVAREZ, BRANDON Paul	8.8	555850	BROOM, KENDALL L	8.8	524682	PRUDHOMME, JOSHUA Paul	8.8	548040
RODRIGUEZ, ISRAEL	8.8	77771	TRIER, DEREK Adam	8.8	546461	VIATOR, JASON R.	8.8	550394
WHIPPLE, WESLEY Morgan	8.8	518611						

Equipment

HES Unit #	Distance-1 way						
11019824	15 mile	11398319	15 mile	11488570C	15 mile	11526488	15 mile
11605599	15 mile	11633848	15 mile	11923776C	15 mile		

Job

Job Times

Formation Name	Formation Depth (MD)	Top	Bottom	Called Out	Date	Time	Time Zone
					28 - Mar - 2014	20:00	MST
Form Type			BHST	On Location	28 - Mar - 2014	23:45	MST
Job depth MD	7661. ft		Job Depth TVD	7318. ft	Job Started	29 - Mar - 2014	04:08
Water Depth			Wk Ht Above Floor	5. ft	Job Completed	29 - Mar - 2014	07:17
Perforation Depth (MD)	<i>From</i>		<i>To</i>		Departed Loc	29 - Mar - 2014	08:30

Well Data

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft

Sales/Rental/3rd Party (HES)

Description	Qty	Qty uom	Depth	Supplier
CMT CASING EQUIPMENT BOM	1	JOB		
SHOE,FLT,7 8RD,2-3/4 SS II VLV	1	EA		
CLR,FLT,7 8RD 17-26PPF,2-3/4SSII	1	EA		
CTRZR ASSY,API,7 CSG X 8 3/4HOLE,HNGD	40	EA		
Description	Qty	Qty uom	Depth	Supplier
CTRZR ASSY,SPRL BL,LEFT HD,7 CSG X 8	20	EA		
CLAMP - LIMIT - 7 - HINGED -	1	EA		
PLUG,CMTG,TOP,7,HWE,5.66 MIN/6.54 MAX CS	1	EA		
PLUG,CMTG,BOT,7,HWE,5.66 MIN/6.54 MAX CS	1	EA		

KIT,HALL WELD-A						2	EA		
Fluid Data									
Stage/Plug #: 1									
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
2	TUNED SPACER III	TUNED SPACER III - SBM (483826)	30.00	bbl	10.	5.86	38.0	3.5	
	39.07 gal/bbl	FRESH WATER							
	61.01 lbm/bbl	BARITE, BULK (100003681)							
3	TUNED LIGHT (TM) B1	TUNED LIGHT (TM) SYSTEM (452984)	332.0	sacks	10.	2.32	8.73	4	8.73
	8.73 Gal	FRESH WATER							
4	VARICEM B1	VARICEM (TM) CEMENT (452009)	317.0	sacks	13.	1.95	9.83	6	9.83
	9.83 Gal	FRESH WATER							
5	DISPLACEMENT		288.8	bbl	8.4			7	
<i>The Information Stated Herein Is Correct</i>				<i>Customer Representative Signature</i>					

