

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

Vogl McCoy 2H-5H-F267

H&P 278

Post Job Summary

Cement Production Casing

Date Prepared: 3/4/2014
Version: 1

Service Supervisor: OTERI, VAUGHN

Submitted by: LANSDALE, JUSTIN

HALLIBURTON

HALLIBURTON

Wellbore Geometry

Job Tubulars					MD		TVD		Shoe Joint Length ft
Type	Description	Size in	ID in	Wt lbm/ft	Top ft	Bottom ft	Top ft	Bottom ft	
Open Hole Section	6 1/8" Open Hole Section		6.125		7,695.00	15,135.00	0.00	7,385.00	0.00
Casing	4 1/2" Production Casing	4.50	3.920	13.50	0.00	15,135,000.00	0.00	7,385.00	40.00
Casing	7" Intermediate Casing String	7.00	6.366	26.00	0.00	7,695.00	0.00	7,385.00	0.00

HALLIBURTON

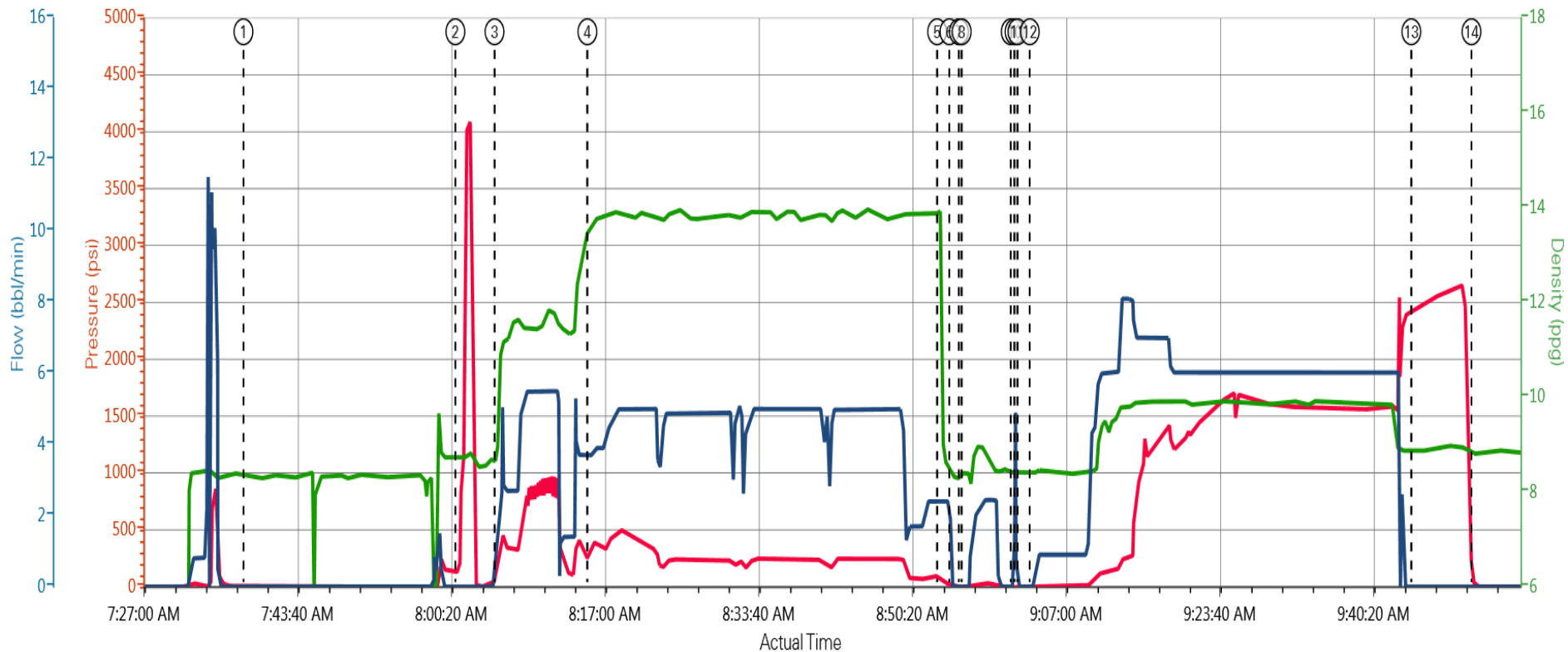
Pumping Schedule

Stage /Plug #	Fluid #	Fluid Type	Fluid Name	Surface Density lbm/gal	Avg Rate bbl/min	Surface Volume
1	1	Spacer	TUNED SPACER III	11.50	4	40.0 bbl
1	2	Cement Slurry	13.8# ExpandaCem	13.80	4	563.0 sacks
1	3	Spacer	MMCR DISPLACEMENT	8.34	2.5	3.25 bbl
1	4	Spacer	DISPLACEMENT	8.34	6	223

HALLIBURTON

Data Acquisition

ENCANA VOGL MCCOY 2H-5H-F267 PRODUCTION



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

① Start Job 0;8.37;0	④ Pump Cement 339;13.66;3.7	⑦ Clean Lines -7;8.38;0	⑩ Shutdown 12;8.46;0	⑬ Bump Plug 2426;8.85;0
② Test Lines 132;8.75;0	⑤ Pump Displacement 92;13.89;2.4	⑧ Drop Top Plug -7;8.43;0	⑪ Drop Ball 6;8.4;0	⑭ End Job 19;8.81;0
③ Pump Spacer 1 234;9.46;1.4	⑥ Shutdown 8;8.36;0	⑨ Pump Displacement 5;8.38;0.9	⑫ Pump Displacement 4;8.34;0	

Service Supervisor Reports

Job Log

Date/Time	Chart #	Activity Code	Pump Rate	Cum Vol	Pump		Pressure (psig)	Comments
02/22/2014 13:00		Call Out						CALL OUT FROM ARS OFFICE
02/22/2014 17:00		Arrive At Loc						ARRIVE ON LOCATION STILL HAD 30 JOINTS OF CASING TO RUN , MET WITH COMPANY REP TO DISCUSS JOB PROCESS AND ANY CONCERNS
02/23/2014 01:00		Casing on Bottom						HELD PRE RIG UP SAFTY MEETING WHEN LAST JOINT WAS LANDED ADVISED AT THAT TIME SAFE TO RIG UP AFTER CASING CREW WAS RIGGED DOWN
02/23/2014 03:00		Other						CASING CREW RIGGED DOWN AND WAS SAFE TO RIG UP HES IRON
02/23/2014 03:00		HES or HES Sub-Contractor Equipment Problem - Star						WHILE RIGGING UP DPF LIGHT CAME ON THE PUMP TRUCK AFTER SEVERAL TRIES TO REGEN TRUCK SHUT DOWN, HAVE NEW PUMP TRUCK BEING HOT SHOTED OUT
02/23/2014 07:00		HES or HES Sub-Contractor Equipment Problem - End						NEW PUMP TRUCK ARRIVED AND RIGGED UP TO IRON AND BULK SYSTEM, DID NOT CHARGE FOR ADD HOURS ON HES DOWN TIME
02/23/2014 07:41		Start Job						HELD SAFTY MEETING IN DOG HOUSE WITH ALL PARTIES ON LOCATION TO DISCUSS JOB PROCESS AND HAZARDS
02/23/2014 08:04		Test Lines					3990.0	PRESSURE TESTED PUMPS AND LINES FOUND NO LEAKS AND PRESSURE HELD GOOD
02/23/2014 08:08		Pump Spacer 1	4	40			450.0	MIXED 11.5PPG TUNE SPACER WITH FRESH WATER
02/23/2014 08:18		Pump Lead Cement	4	168			389.0	MIXED 13.8PPG EXPANDACEM WITH FRESH WATER
02/23/2014 08:56		Pump Displacement	2.5	3			360.0	PUMPED 3BBL OF MMCR WATER
02/23/2014 08:58		Shutdown						
02/23/2014 08:59		Clean Lines						WASH PUMP AND LINES
02/23/2014 08:59		Drop Top Plug						BLACK HAWK HAND RELEASED PLUG WITNESSED BY COMPANY REP AND HES TOOL HAND
02/23/2014 09:04		Pump Displacement		0.25				PUMPED 1/4 BBL OF MMCR WATER
02/23/2014 09:05		Shutdown						
02/23/2014 09:05		Drop Ball						BLACK HAWK HAND RELEASED BALL WITNNESSED BY COMPANY REP AND HES TOOL HAND
02/23/2014 09:06		Pump Displacement	6	223.23			1500.0	PUMPED 10.0PPG BRINE WATER
02/23/2014 09:48		Bump Plug	4				2350.0	BUMPED PLUG 500PSI OVER FINAL PUMP PRESSURE
02/23/2014 09:54		Check Floats		1				RELEASE PRESSURE BACK TO PUMP TRUCK TO CHECK FLOATS, FLOATS HELD GOOD
02/23/2014 09:54		End Job						

The Road to Excellence Starts with Safety

Sold To #: 340078		Ship To #: 3191318		Quote #:		Sales Order #: 901134612	
Customer: ENCANA OIL & GAS (USA) INC. - EBUS				Customer Rep: Roane, Mike			
Well Name: Vogl McCoy			Well #: 2H-5H-F267			API/UWI #: 05-123-37781	
Field: WATTENBERG		City (SAP): FIRESTONE		County/Parish: Weld		State: Colorado	
Lat: N 40.168 deg. OR N 40 deg. 10 min. 5.196 secs.				Long: W 104.915 deg. OR W -105 deg. 5 min. 6.324 secs.			
Contractor: H&P			Rig/Platform Name/Num: H&P 278				
Job Purpose: Cement Production Casing							
Well Type: Development Well			Job Type: Cement Production Casing				
Sales Person: GREGORY, JON			Srvc Supervisor: OTERI, VAUGHN			MBU ID Emp #: 443828	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
HARRAH, THADDEUS Gregory	0.0	552592	MULLER, MICHEL B	0.0	529830	OTERI, VAUGHN Steeves	7.0	443828
SCILEPPI, JOSEPH Dean	0.0	555492	VIATOR, JASON R.	0.0	550394	WILEY, JAMES A	12.0	440080

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10829457	25 mile	10857080C	25 mile	11064535	25 mile	11362287C	25 mile
11633848	25 mile	11808819	25 mile	NA	25 mile		

Job

Formation Name								
Formation Depth (MD)	Top	Bottom			Called Out	Date	Time	Time Zone
Form Type			BHST		On Location	22 - Feb - 2014	17:00	MST
Job depth MD	15000. ft		Job Depth TVD	7385. ft	Job Started	22 - Feb - 2014	22:00	MST
Water Depth			Wk Ht Above Floor	35. ft	Job Completed	23 - Feb - 2014	03:00	MST
Perforation Depth (MD)	From	To			Departed Loc	23 - Feb - 2014	05:00	MST

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
6 1/8" Open Hole Section				6.125				7695.	15135.	.	7385.
4 1/2" Production Casing	Unknown		4.5	3.92	13.5		P-110	.	1513500.	.	7385.
7" Intermediate Casing String	Unknown		7.	6.366	26.	VAM - NEW	P-110	.	7695.	.	7385.

Sales/Rental/3 rd Party (HES)										
Description					Qty	Qty uom	Depth	Supplier		
CMT CASING EQUIPMENT BOM					1	JOB				
MILEAGE FOR CEMENTING CREW,ZI					15	MI				
ZI FUEL SURCHG-CARS/PICKUPS<1 1/2TON					15	MI				
SH,FLT,4-1/2 ULT DQX 13.5,P110,2-3/4,HP					1	EA				
CLR,FLT,4-1/2 ULTRA DQX 13.5, P110, SSII					1	EA				
CTRZR ASSY,STR BL,SLIP-ON,AL,4 1/2 CSG					34	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	
1	TUNED SPACER III	TUNED SPACER III - SBM (483826)	40.00	bbl	11.5	7.21	53.96	4		
		36.83 gal/bbl	FRESH WATER							
		148.725 lbm/bbl	BARITE, 100 LB SK (100003680)							
2	13.8# ExpandaCem	EXPANDACEM (TM) SYSTEM (452979)	563.0	sacks	13.8	1.68	7.74	4	7.74	
		7.74 Gal	FRESH WATER							
3	MMCR DISPLACEMENT		10.00	bbl	8.34			2.5		
		0.2 gal/bbl	MICRO MATRIX CEMENT RETARDER, 1 GAL PAIL (100003780)							
4	DISPLACEMENT		223	bbl	8.34			6		
Rates										
Circulating		Mixing		Displacement		Avg. Job				
Cement Left In Pipe		Amount	40 ft	Reason	Shoe Joint					
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID			
The Information Stated Herein Is Correct				Customer Representative Signature						

