HALLIBURTON

Cementing

CAERUS OIL AND GAS LLC - EBUS

NOLTE 14C-13

PATTERSON/303

Post Job Summary
Cement Surface Casing

Date Prepared: 04/11/2013

Submitted by: Grand Junction Cement Engineering

HALLIBURTON

The Road to Excellence Starts with Safety			
Sold To #: **360446**	Ship To #: **3280248**	Primary Sales Order #: **0901254497**	
Customer: **CAERUS OIL** AND GAS LLC - EBUS		Job Purpose: **7521 CMT** SURFACE CASING BOM	
Well Name: **NOLTE**		Well #: **14C-13**	API/UWI #: **05-045-22300-00**
Field: **GRAND VALLEY**	City: **PAR**	Country/Parish: **GARFIELD**	State/Prov: **COLORADO**
Legal Description:			
Rig Name & Number / Phone Number: **PATTERSON 303 / 432-312-5195**			Location: **LAND**
myCem id# :	Job Criticality Status: **GREEN**		iFacts Request id #:

Contacts

Type	Name	Email	Phone
Company Man			
Service Coordinator	**John Trout**	**John.Trout@Halliburton.com**	**+19705233622**
Account Rep	**Mark Mayo**	**Mark.Mayo@Halliburton.com**	**+19705233716**

PPE, Safety Huddles, JSA's, HOC & Near Miss Reporting, BBP Observations			
Distance/Mileage(1 way) Srvcs:	**60 mile**	Distance/Mileage(1 way) Mtls:	**60 mile**
		Rqstd Job Start Date/Time:	**04/08/2014**

HSE Information

H2S Present:	**Unknown**	CO2 Present:	**Unknown**

Drive Safely. Lights On for Safety. Wear Seat Belts. Observe all HES / Customer Safety Policies.

Directions:

Head East on I-70 to West Parachute Exit #72, enter roundabout and merge onto the South Frontage Road heading East, go .3 of a mile and turn right, go .1 of a mile onto location.

Instruction

Take Top PLug, Take 100 Lbs Sugar

Job Info / Well Data

Job Depth (MD) **ft**	Job Depth (TVD) **ft**	Well Fluid Type	Well Fluid Weight **lbm/gal**	Displacement Fluid	Displ Fluid Weight **lbm/gal**
1005		**Water Based Mud**	**9.9**	**Displacement**	**8.34**

BHST **degF**	BHCT **degF**	Log Temp **degF**	Time Since Circ Stopped **HH:MM:SS**

Job Tubulars/Tools

Description	Size **in**	Weight **lbm/ft**	ID **in**	Thread	Grade	Top MD **ft**	Btm MD **ft**	Top TVD **ft**	Btm TVD **ft**	Shoe Jnt **ft**	% Excess
Open Hole			**13.5**			**72**	**1020**	**0**	**0**		
Surface	**9.625**	**36**	**8.921**	**LTC**	**J-55**	**0**	**1005**		**0**	**46.88**	

Mud conditioning plan

The condition of the drilling fluid is one of the most important variables in achieving a cement barrier. Prior to cementing, circulate the

mud at the planned highest displacement rate for the cement job for at least 2 bottoms-up until the well is clean, mud is free of gas and pump pressures have stabilized.

Materials

Stage/Plug #: **1**

Fluid #	Fluid Name	Package/SBM/Material Name	Rqstd Del Qty	UOM	Density **lbm/gal**	Yield **ft3/ sack**	Water Req **Gal/sack**	Rate **bbl/min**	Total Mix Fluid **Gal/sack**	Surface Batch Mixing Time
1	**Fresh Water** Spacer		**20**	**bbl**	**8.34**					
iFacts Test id #										

Fluid #	Fluid Name	Package/SBM/Material Name	Rqstd Del Qty	UOM	Density **lbm/gal**	Yield **ft3/ sack**	Water Req **Gal/sack**	Rate **bbl/min**	Total Mix Fluid **Gal/sack**	Surface Batch Mixing Time **hr**
2	**Tail Cement**	**VERSACEM (**TM) SYSTEM	**265**	**sack**	**12.8**	**2.18**	**12.11**	**4**	**12.07**	
iFacts Test id #										

Fluid #	Fluid Name	Package/SBM/Material Name	Rqstd Del Qty	UOM	Density **lbm/gal**	Yield **ft3/ sack**	Water Req **Gal/sack**	Rate **bbl/min**	Total Mix Fluid **Gal/sack**	Surface Batch Mixing Time
3	**Displacement**		**84**	**bbl**	**8.34**					
iFacts Test id #										

Caution: Displacement quantities and densities are estimates ONLY! Do not use them for the actual job.

Packaged Materials

SAP #	Material	Qty	UOM	Comments
	FRESH WATER	**3198.3**	**Gal**	

Casing Equipment

General Equipment

Type	Name	Qty	Comment
Plug Container		**1**	
Pickup		**1**	
Plug Container	**9 5/8**	**1**	
Quick Latch	**9 5/8**	**1**	
Bulk Trucks		**2**	
Pump Truck		**1**	

4.1 Job Event Log

Type	Seq. No.	Graph Label/Activity	Date	Time	Source	DH Density *(ppg)*	Comb Pump Rate *(bbl/min)*	PS Pump Press *(psi)*	Pump Stg Tot *(bbl)*	Comment
Event	1	Pre-Job Safety Meeting	4/9/2014	06:15:00	USER					All personnel on site
Event	2	Start Job	4/9/2014	06:32:20	COM5					TD 1020', TP 1005', SJ 46.88', Mud 9.8 ppg, 13 1/2" OH, 9 5/8" csg 36 lb
Event	3	Prime Lines	4/9/2014	06:33:01	USER	8.24	2.0	53	2.0	
Event	4	Test Lines	4/9/2014	06:37:01	COM5			3256		Pressure held well
Event	5	Pump H20 Spacer	4/9/2014	06:39:11	COM5	8.25	4.0	105	20.0	Fresh Water
Event	6	Pump Tail Cement	4/9/2014	06:47:52	COM5	12.8	8.0	355	102.9	265 sks, 12.8 ppg, 2.18 yield, 12.11 gal/sk
Event	7	Shutdown/Wash Lines	4/9/2014	07:05:32	USER					Wash up on top of plug
Event	8	Drop Top Plug	4/9/2014	07:07:56	USER					
Event	9	Pump Displacement	4/9/2014	07:09:41	COM5	8.35	10.0	523	74.0	Fresh Water
Event	10	Slow Rate	4/9/2014	07:19:03	COM5	8.33	2.0	214	10.0	
Event	11	Bump Plug	4/9/2014	07:24:08	COM5			238		Good returns throughout
Event	12	Check Floats	4/9/2014	07:26:01	COM5			984		Floats held - 1/2 bbl flowback
Event	13	End Job	4/9/2014	07:27:46	COM5					15 bbls cement to surface, 40 lbs sugar used
Event	14	Pre-Rig Down Safety Meeting	4/9/2014	07:45:00	USER					
Event	15	Rig-Down Equipment	4/9/2014	08:00:00	USER					
Event	16	Pre-Convoy Safety Meeting	4/9/2014	09:00:00	USER					
Event	17	Crew Leave Location	4/9/2014	09:15:00	USER					Thank you for using Halliburton