

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

GM 312-21

Cyclone 17

## **Post Job Summary**

### **Cement Surface Casing**

Date Prepared: 9/18/2014

Job Date: 9/14/2014

Submitted by: Tony Eschete - Cement Engineer

*The Road to Excellence Starts with Safety*

Sold To #: 300721	Ship To #: 3464171	Quote #:	Sales Order #: 0901667073
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: Scott Geary	
Well Name: CHEVRON		Well #: GM 312-21	API/UWI #: 05-045-22356-00
Field: GRAND VALLEY	City (SAP): PARACHUTE	County/Parish: GARFIELD	State: COLORADO
Legal Description: SE NE-20-6S-96W-2042FNL-703FEL			
Contractor: CYCLONE		Rig/Platform Name/Num: CYCLONE 17	
Job BOM: 7521			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HX23209		Srvc Supervisor: Kyle Bath	
Job			

Formation Name			
Formation Depth (MD)	Top		Bottom
Form Type	BHST		
Job depth MD	1091ft		Job Depth TVD
Water Depth	Wk Ht Above Floor		
Perforation Depth (MD)	From		To

Well Data										
Description	New / Used	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
Casing	0	9.625	9.001	32.3	8 RD		0	1091		1091
Open Hole Section			13.5				0	1105	0	1105

Tools and Accessories									
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make
Guide Shoe	9.625			1091		Top Plug	9.625	1	HES
Float Shoe	9.625					Bottom Plug	9.625		HES
Float Collar	9.625					SSR plug set	9.625		HES
Insert Float	9.625					Plug Container	9.625	1	HES
Stage Tool	9.625					Centralizers	9.625		HES

Miscellaneous Materials											
Gelling Agt		Conc		Surfactant		Conc		Acid Type		Qty	Conc
Treatment Fld		Conc		Inhibitor		Conc		Sand Type		Size	Qty

Fluid Data										
Stage/Plug #: 1										
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
1	Fresh Water	Fresh Water	20	bbl	8.34					
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
2	VariCem GJ5	VARICEM (TM) CEMENT	135	sack	12.3	2.45		8	14.17	
14.10 Gal			FRESH WATER							

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
3	VariCem GJ5	VARICEM (TM) CEMENT	170	sack	12.8	2.18		8	12.11
12.05 Gal		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
4	Fresh Water Displacement	Fresh Water Displacement	82	bbl	8.34				
Cement Left In Pipe		Amount	44 ft		Reason		Shoe Joint		
Comment									

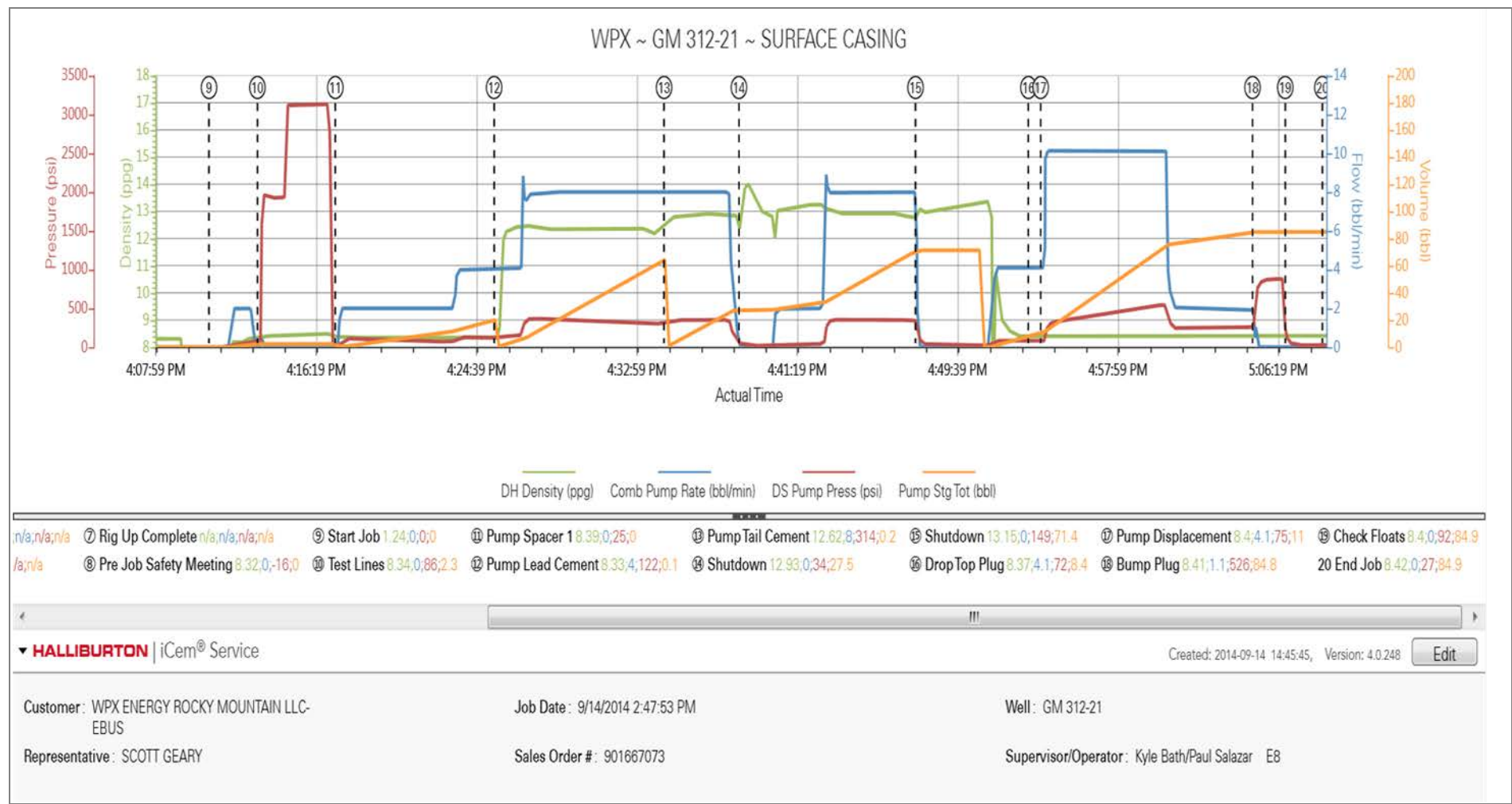
## 3.5 Job Event Log

Type	Seq. No.	Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	DS Pump Press (psi)	Pump Stg Tot (bbl)	Comments
Event	1	Call Out	9/14/2014	08:30:00	USER					
Event	2	Pre Convoy Safety Meeting	9/14/2014	10:45:00	USER					
Event	3	Crew Depart Yard	9/14/2014	11:00:00	USER					
Event	4	Arrive On Location	9/14/2014	12:15:00	USER					RIG PULLING DRILL PIPE UPON HES ARRIVAL
Event	5	Site Assesment Safety Meeting	9/14/2014	12:30:00	USER					
Event	6	Pre Rig Up Safety Meeting	9/14/2014	12:45:00	USER					
Event	7	Rig Up Complete	9/14/2014	13:45:00	USER					
Event	8	Pre Job Safety Meeting	9/14/2014	14:54:25	USER					
Event	9	Start Job	9/14/2014	16:10:52	COM3					TD 1105, TP 1091, SJ 44, CSG 9 5/8 32.3# H-40, HOLE 13 1/2, MUD 9.3#
Event	10	Test Lines	9/14/2014	16:13:23	COM3					TEST LINES TO 3130 PSI
Event	11	Pump Spacer 1	9/14/2014	16:17:26	COM3	8.33	4	120	20	PUMP 20 BBLS FRESH WATER SPACER
Event	12	Pump Lead Cement	9/14/2014	16:25:41	COM3	12.3	8	380	59	MIX AND PUMP 135 SKS AT 12.3 PPG, 2.45 FT3/FT, 14.17 GAL/SK
Event	13	Pump Tail Cement	9/14/2014	16:34:31	COM3	12.8	8	360	66	MIX AND PUMP 170 SKS AT 12.3 PPG, 2.18 FT3/FT, 12.11 GAL/SK
Event	14	Shutdown	9/14/2014	16:38:24	COM3					RIG PUMP QUIT WORKING, COMPANY REP REQUESTED A SHUTDOWN
Event	15	Shutdown	9/14/2014	16:47:35	USER					SHUTDOWN AND DROP PLUG
Event	16	Drop Top Plug	9/14/2014	16:53:27	COM3					PLUG LEFT CEMENT HEAD
Event	17	Pump Displacement	9/14/2014	16:54:05	COM3	8.33	10	480	82	PUMP 82 BBLS FRESH WATER DISPLACEMENT
Event	18	Bump Plug	9/14/2014	17:05:06	COM3					BUMPED PLUG AT 260 PSI TOOK TO 865 PSI
Event	19	Check Floats	9/14/2014	17:06:48	COM3					FLOATS HELD TOOK .5 BBLS BACK TO TRUCK
Event	20	End Job	9/14/2014	17:08:44	COM3					GOOD CIRCULATION THROUGHOUT JOB, RECIEAVED 35 BBLS CMT TO SURFACE
Event	21	Pre Rig Down Safety Meeting	9/14/2014	17:15:00	USER					

Type	Seq. No.	Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	DS Pump Press (psi)	Pump Stg Tot (bbl)	Comments
Event	22	Rig Down Complete	9/14/2014	18:15:00	USER					
Event	23	Pre Convoy Safety Meeting	9/14/2014	18:30:00	USER					
Event	24	Crew Depart Location	9/14/2014	18:45:00	USER					THANK YOU FOR USING HALLIBURTON, KYLE BATH AND CREW!

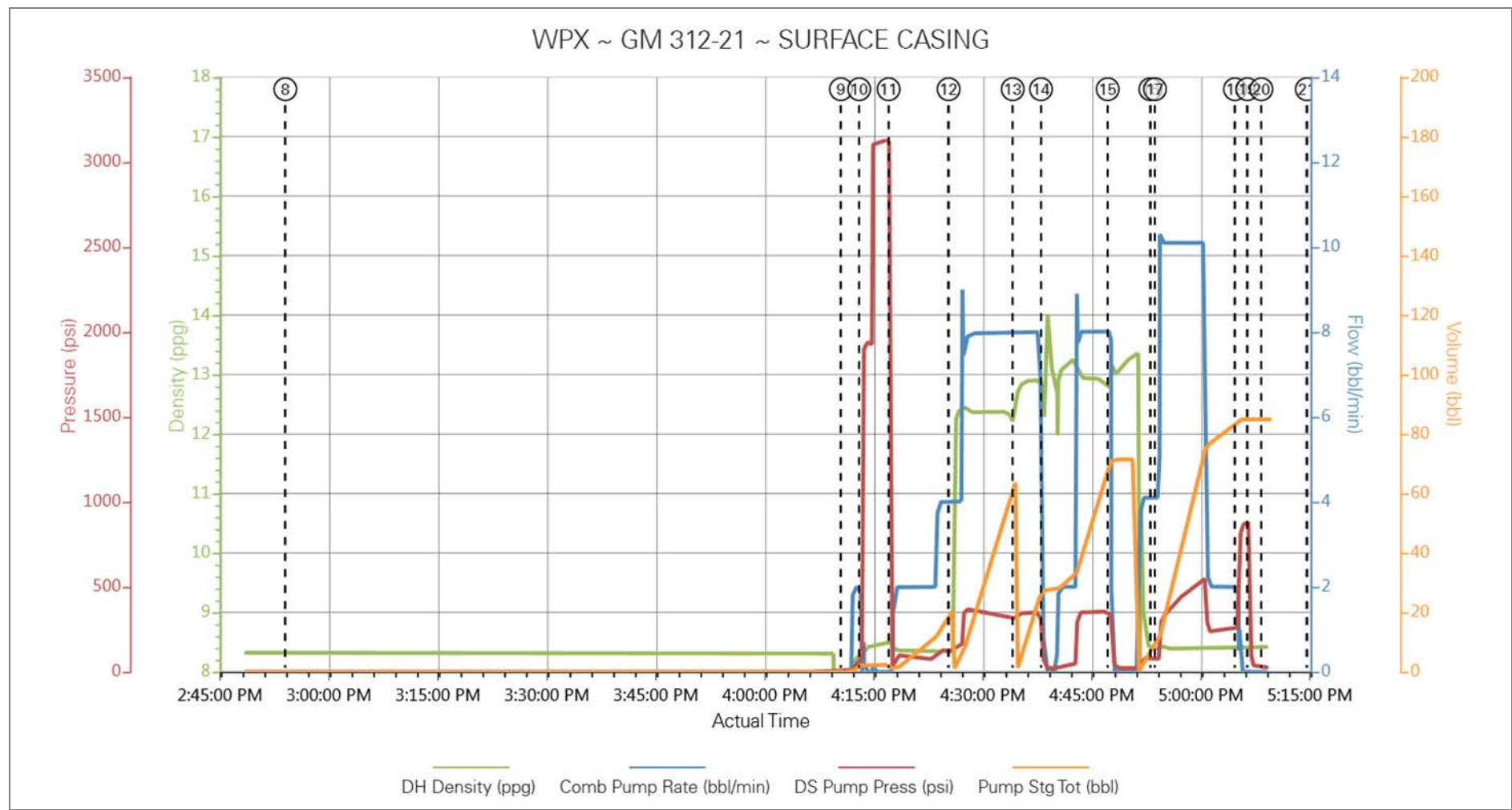
4.0 Attachments

4.1 Case 1-Custom Results.png



5.0 Custom Graphs

5.1 Custom Graph



# HALLIBURTON

## Water Analysis Report

Company: WPX

Submitted by: KYLE BATH

Attention: DALLAS SCOTT

Lease: GM

Well #: 312-21

Date: 9/14/2014

Date Rec.: 9/14/2014

S.O.#: 901667073

Job Type: SURFACE

Specific Gravity	<i>MAX</i>	<i>1</i>
pH	<i>8</i>	<i>7</i>
Potassium (K)	<i>5000</i>	<i>220</i> Mg / L
Hrdness	<i>500</i>	<i>0</i> Mg / L
Iron (FE2)	<i>300</i>	<i>200</i> Mg / L
Chlorides (Cl)	<i>3000</i>	<i>0</i> Mg / L
Sulfates (SO <sub>4</sub> )	<i>1500</i>	<i>&lt;200</i> Mg / L
Temp	<i>40-80</i>	<i>67</i> Deg
Total Dissolved Solids		<i>380</i> Mg / L

Respectfully: KYLE BATH

Title: CEMENTING SUPERVISOR

Location: Grand Junction, CO

NOTICE: This report is limited to the described sample tested. Any person using or relying on this report agrees that Halliburton shall not be liable for any loss or damage whether due to act or omission resulting from such report or its use.



<b>Sales Order #:</b> 0901667073	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 9/14/2014
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> SCOTT GEARY		<b>API / UWI: (leave blank if unknown)</b> 05-045-22356-00
<b>Well Name:</b> CHEVRON		<b>Well Number:</b> 0080599249
<b>Well Type:</b> DIRECTIONAL GAS	<b>Well Country:</b> USA	
<b>H2S Present:</b> No	<b>Well State:</b> COLORADO	<b>Well County:</b> GARFIELD

Dear Customer,

We hope that you were satisfied with the service quality of this job performed by Halliburton. It is the aim of our management and service personnel to deliver equipment and service of a standard unmatched in the service sector of the energy industry.

Please take the time to let us know if our performance met with your satisfaction. Please be as critical as possible to ensure we constantly improve our service. Your comments are of great value to us and are intended for the exclusive use of Halliburton.

### CUSTOMER SATISFACTION SURVEY

CATEGORY	CUSTOMER SATISFACTION RESPONSE	
Survey Conducted Date	The date the survey was conducted	9/14/2014
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HB49384
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	SCOTT GEARY
HSE	Was our HSE performance satisfactory? Circle Y or N	Yes
Equipment	Were you satisfied with our Equipment? Circle Y or N	Yes
Personnel	Were you satisfied with our people? Circle Y or N	Yes
Customer Comment	Customer's Comment	

<b>CUSTOMER SIGNATURE</b>
---------------------------

<b>Sales Order #:</b> 0901667073	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 9/14/2014
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> SCOTT GEARY		<b>API / UWI: (leave blank if unknown)</b> 05-045-22356-00
<b>Well Name:</b> CHEVRON		<b>Well Number:</b> 0080599249
<b>Well Type:</b> DIRECTIONAL GAS	<b>Well Country:</b> USA	
<b>H2S Present:</b> No	<b>Well State:</b> COLORADO	<b>Well County:</b> GARFIELD

### KEY PERFORMANCE INDICATORS

General	
<b>Survey Conducted Date</b> The date the survey was conducted	9/14/2014

Cementing KPI Survey	
<b>Type of Job</b> Select the type of job. (Cementing or Non-Cementing)	0
<b>Select the Maximum Deviation range for this Job</b> What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	Vertical
<b>Total Operating Time (hours)</b> Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	3
<b>HSE Incident, Accident, Injury</b> HSE Incident, Accident, Injury. This should be recordable incidents only.	No
<b>Was the job purpose achieved?</b> Was the job delivered correctly as per customer agreed design?	Yes
<b>Pumping Hours</b> Total number of hours pumping fluid on this job. Enter in decimal format.	1
<b>Type of Rig Classification Job Was Performed</b> Type Of Rig (classification) Job Was Performed On	Drilling Rig (Portable)
<b>Number Of JSAs Performed</b> Number Of Jsas Performed	5
<b>Was this a Primary Cement Job (Yes / No)</b> Primary Cement Job= Casing job, Liner job, or Tie-back job.	Yes
<b>Number of Unplanned Shutdowns</b> Unplanned shutdown is when injection stops for any period of time.	0
<b>Customer Non-Productive Rig Time (hrs)</b>	0

<b>Sales Order #:</b> 0901667073	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 9/14/2014
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> SCOTT GEARY		<b>API / UWI: (leave blank if unknown)</b> 05-045-22356-00
<b>Well Name:</b> CHEVRON		<b>Well Number:</b> 0080599249
<b>Well Type:</b> DIRECTIONAL GAS	<b>Well Country:</b> USA	
<b>H2S Present:</b> No	<b>Well State:</b> COLORADO	<b>Well County:</b> GARFIELD

Lost time due to Halliburton in the start, execution, or completion of an ordered service or product, or delays in a follow-on service. Enter in decimal format. 0 if none.	
<b>Was the non productive time or the unplanned shutdown caused by a problem with a piece of equipment?</b> Was the non productive time or the unplanned shutdown caused by a problem with a piece of equipment?	No
<b>Did We Run Wiper Plugs?</b> Did We Run Top And Bottom Casing Wiper Plugs?	Top
<b>If a top plug was run, was the plug bumped? (Yes/No/N/A)</b> If a top plug was run, was the plug bumped? (Yes/No/N/A)	Yes
<b>If applicable, was Halliburton float equipment used? (Yes/No/N/A)</b> If applicable, was Halliburton float equipment used? (Yes/No/N/A)	Not Available
<b>If applicable, did the floats hold? (Yes/No/N/A)</b> If applicable, did the floats hold? (Yes/No/N/A)	Yes
<b>Mixing Density of Job Stayed in Designed Density Range (0-100%)</b> Density Range defined as +/- .20 ppg. Calculation: Total BBLs cement mixed at designed density divided by total BBLs of cement multiplied by 100	98
<b>Pump Rate (percent) of Job Stayed At Designed Pump Rate</b> Pump Rate range defined as +/- 1bbl/min. Calculation: Total BBLs of fluid pumped at the designed rate divided by Total BBLs of fluid pumped, multiplied by 100	98
<b>If applicable, were there returns throughout the job? (Yes/No/N/A)</b> If applicable, were there returns throughout the job? (Yes/No/N/A)	Yes
<b>Nbr of Remedial Plug Jobs Rqd - HES</b> Number Of Remedial Plug Jobs Needed After Primary Plug Pumped By HES	0
<b>Nbr of Remedial Sqz Jobs Rqd - HES</b> Number Of Remedial Squeeze Jobs Required After Primary Job Performed By HES	0