
CHEVRON - MID-CONTINENT EBIZ

**Skinner Ridge 598-08-BV-03
SKINNER RIDGE
Garfield County , Colorado**

Cement Production Casing **01-Oct-2013**

Post Job Report

The Road to Excellence Starts with Safety

Sold To #: 338668	Ship To #: 3097911	Quote #:	Sales Order #: 900777647
Customer: CHEVRON - MID-CONTINENT EBIZ		Customer Rep: Geiser, Greg	
Well Name: Skinner Ridge	Well #: 598-08-BV-03	API/UWI #: 05-045-22096	
Field: SKINNER RIDGE	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Lat: N 39.622 deg. OR N 39 deg. 37 min. 18.019 secs.		Long: W 108.415 deg. OR W -109 deg. 35 min. 7.116 secs.	
Contractor: Ensign		Rig/Platform Name/Num: Ensign 122	
Job Purpose: Cement Production Casing			
Well Type: Development Well		Job Type: Cement Production Casing	
Sales Person: HIMES, JEFFREY	Srvc Supervisor: CARTER, ERIC	MBU ID Emp #: 345598	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
CARTER, ERIC Earl	0.0	345598	JENSEN, SHANE	0.0	441759	LINN, PAUL Andrew	0.0	479143
LYNGSTAD, FREDRICK D	0.0	403742	WARDELL, STEVEN	0.0	549567			

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10001431	120 mile	10025118	120 mile	10565341	120 mile	10616651C	120 mile
10995025	120 mile	11021972	120 mile	11027039	120 mile	11360871	120 mile
11360881	120 mile	11583933	120 mile	11808827	120 mile		

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
TOTAL			Total is the sum of each column separately					

Job

Formation Name	Formation Depth (MD)	Top	Bottom	Form Type	Job depth MD	Water Depth	Perforation Depth (MD)	From	To
				BHST	4925. ft				
						Wk Ht Above Floor			
					4925. ft	5. ft			

Job Times

Called Out	Date	Time	Time Zone
	30 - Sep - 2013	20:00	MST
On Location	01 - Oct - 2013	00:00	MST
Job Started	01 - Oct - 2013	16:57	MST
Job Completed	01 - Oct - 2013	18:53	MST
Departed Loc	01 - Oct - 2013	20:30	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
7-7/8" Open Hole				7.875				1004.	4951.	1004.	4951.
4-1/2" Production Casing	New		4.5	4.	11.6		N-80	.	4925.	.	4925.
8-5/8" Surface Casing	New		8.625	8.097	24.		J-55	.	1004.		

Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug			
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container			
Stage Tool										Centralizers			

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

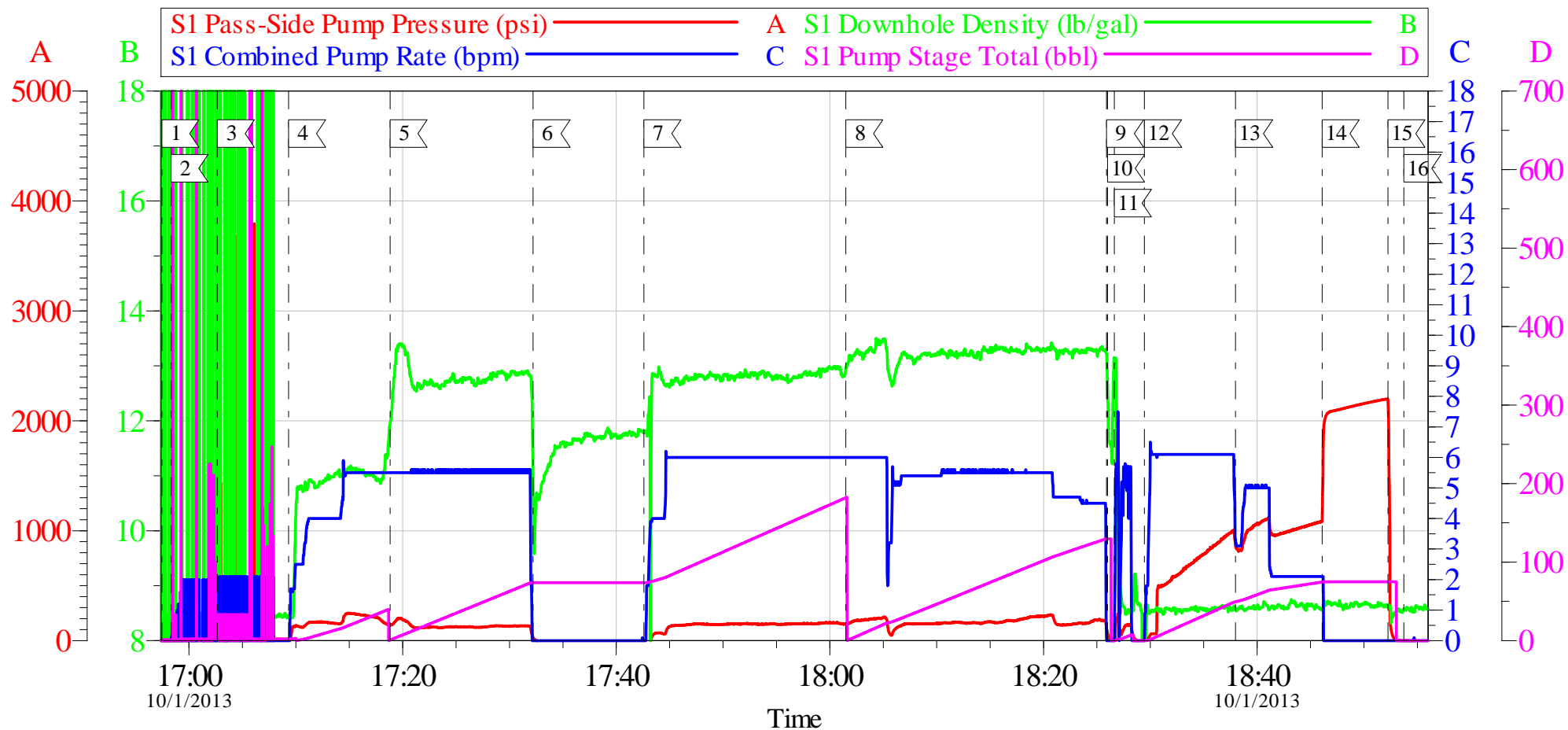
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	TUNED SPACER III	TUNED SPACER III - SBM (483826)	40.00	bbl	11.	3.43	22.6	.0	
	36.83 gal/bbl	FRESH WATER							
2	50/50 Poz Premium	VARICEM (TM) CEMENT (452009)	575.0	sacks	12.8	1.64	7.45		7.45
	0.125 lbm	POLY-E-FLAKE (101216940)							
	7.45 Gal	FRESH WATER							
3	50/50 Poz Premium	VARICEM (TM) CEMENT (452009)	425.0	sacks	13.2	1.51	6.45		6.45
	6.45 Gal	FRESH WATER							
	4	2% KCl							
Calculated Values		Pressures							
Displacement			75.00	bbl	8.43			5.0	
Top Of Cement		Volumes							
Frac Gradient		Shut In: Instant			Lost Returns		Cement Slurry		Pad
Rates		5 Min			Cement Returns		Actual Displacement		Treatment
Circulating		15 Min			Spacers		Load and Breakdown		Total Job
Cement Left In Pipe									
Frac Ring # 1 @		Mixing			Displacement		Avg. Job		
The Information Stated Herein Is Correct		Customer Representative Signature	45 ft	Reason	Shoe Joint				

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Field: SKINNER RIDGE	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat: N 39.622 deg. OR N 39 deg. 37 min. 18.019 secs.		Long: W 108.415 deg. OR W -109 deg. 35 min. 7.116 secs.	
Contractor: Ensign		Rig/Platform Name/Num: Ensign 122	
Job Purpose: Cement Production Casing			Ticket Amount:
Well Type: Development Well		Job Type: Cement Production Casing	
Sales Person: HIMES, JEFFREY		Srvc Supervisor: CARTER, ERIC	MBU ID Emp #: 345598

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	09/30/2013 20:00							
Depart Yard Safety Meeting	09/30/2013 21:50							ATTENDED BY ALL HES CREW
Crew Leave Yard	09/30/2013 22:00							
Arrive At Loc	09/30/2013 23:30							RIG RUNNING CASING
Assessment Of Location Safety Meeting	10/01/2013 15:20							ATTENDED BY ALL HES CREW
Other	10/01/2013 15:30							SPOT EQUIPMENT
Pre-Rig Up Safety Meeting	10/01/2013 15:50							ATTENDED BY ALL HES CREW
Rig-Up Equipment	10/01/2013 16:00							
Pre-Job Safety Meeting	10/01/2013 16:30							ATTENDED BY ALL HES CREW, RIG CREW AND COMPANY REP
Start Job	10/01/2013 16:57							TP 4925', TD 4951', SJ 45', FC 4880', MW 9.5 PPG, CASING 4.5", 11.6#, N-80, 32 CENTRALIZERS, SURFACE CASING 8.625", 24# SET AT 1004', RIG CIRCULATED FOR PRIOR TO JOB
Other	10/01/2013 16:58		2	2			100.0	FILL LINES
Test Lines	10/01/2013 17:02							PRESSURED UP TO 3750 PSI, PRESSURE HELD
Pump Spacer	10/01/2013 17:09		4	40			250.0	TUNED SPACER WITH RED DYE

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Lead Cement	10/01/2013 17:18		5.5	74			120.0	575 SKS VARICEM MIXED AT 12.8 PPG, 1.64 YIELD, 7.45 GL/SK
Shutdown	10/01/2013 17:32							HES SHUTDOWN DUE TO HYDRAULIC LEAK. LEAK WAS FIXED AND RESUMED JOB
Resume	10/01/2013 17:42		6	93.9			150.0	
Pump Tail Cement	10/01/2013 18:01		5.5	114.3			220.0	425 SKS VARICEM MIXED AT 13.2 PPG, 1.51 YIELD, 6.45 GL/SK
Shutdown	10/01/2013 18:25							
Clean Lines	10/01/2013 18:26							CLEANED LINES INTO OPEN TOP TANK
Drop Top Plug	10/01/2013 18:29							PLUG LUANCHED
Pump Displacement	10/01/2013 18:29		5	65.6			1100.0	FRESH WATER WITH 2% KCL
Slow Rate	10/01/2013 18:37		2	10			1050.0	
Bump Plug	10/01/2013 18:46						2200.0	PLUG LANDED
Check Floats	10/01/2013 18:52							FLOATS HELD
End Job	10/01/2013 18:53							GOOD CIRCULATION THROUGH OUT JOB, PIPE NOT MOVED DURING JOB, 10 BBLS CEMENT TO SURFACE
Post-Job Safety Meeting (Pre Rig-Down)	10/01/2013 19:00							ATTENDED BY ALL HES CREW
Rig-Down Equipment	10/01/2013 19:10							
Depart Location Safety Meeting	10/01/2013 20:20							ATTENDED BY ALL HES CREW
Crew Leave Location	10/01/2013 20:30							THANK YOU FOR USING HALLIBURTON CEMENT, ERIC CARTER AND CREW.



Local Event Log

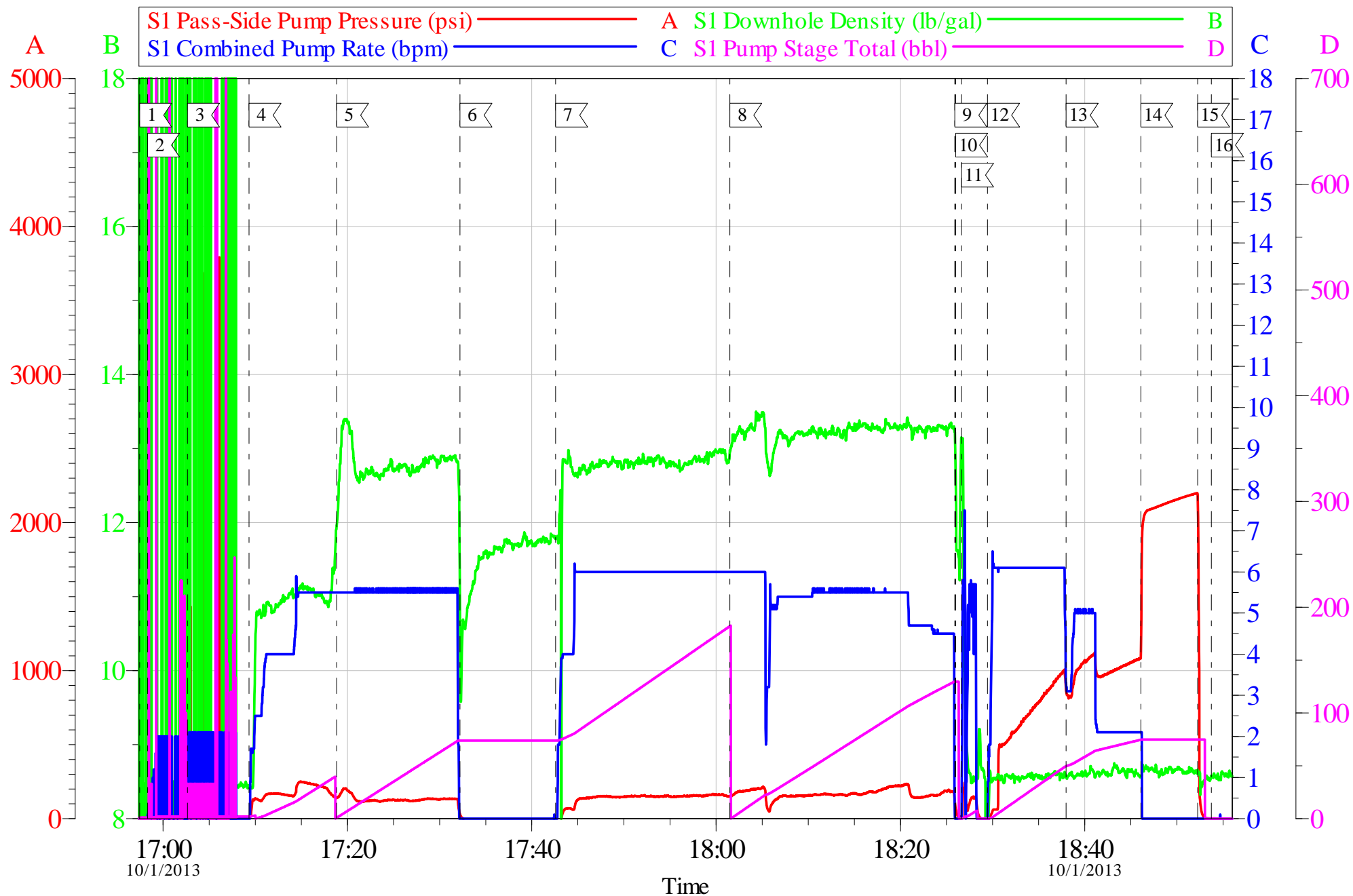
1 START JOB	16:57:27	2 FILL LINES	16:58:19	3 TEST LINES	17:02:39
4 PUMP SPACER	17:09:19	5 PUMP LEAD CEMENT	17:18:50	6 SHUTDOWN	17:32:13
7 RESUME	17:42:35	8 PUMP TAIL CEMENT	18:01:29	9 CLEAN LINES	18:25:54
10 SHUTDOWN	18:26:00	11 DROP TOP PLUG	18:26:38	12 PUMP DISPLACEMENT	18:29:27
13 SLOW RATE	18:37:59	14 BUMP PLUG	18:46:05	15 CHECK FLOATS	18:52:15
16 END JOB	18:53:45				

Customer: CHEVRON - MID-CONTINENT EBIZ
 Well Description: Skinner Ridge 598-08-BV-03
 Company Rep: GREG GEISER

Job Date: 01-Oct-2013
 Job Type: PRODUCTION
 Service Supervisor: ERIC CARTER

Sales Order #: 900777647
 ADC Used: YES
 Elite/Operator: 4/ANDREW LINN

OptiCem v6.4.10
 01-Oct-13 19:17



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Company Rep: GREG GEISER

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Service Supervisor: ERIC CARTER

Sales Order #: 900777647
ADC Used: YES
Elite/Operator: 4/ANDREW LINN

OptiCem v6.4.10
01-Oct-13 19:18

HALLIBURTON

Water Analysis Report

Company: CHEVRON

Submitted by: ERIC CARTER

Attention: J.Trout

Lease: ENSIGN 122

Well #: SKR 598-08-BV-03

Date: 10/9/2013

Date Rec.: 10/9/2013

S.O.#: 900777647

Job Type: PRODUCTION

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	7
Potassium (K)	<i>5000</i>	0 Mg / L
Hrdness	<i>500</i>	250 Mg / L
Iron (FE2)	<i>300</i>	0 Mg / L
Chlorides (Cl)	<i>3000</i>	500 Mg / L
Sulfates (SO ₄)	<i>1500</i>	<200 Mg / L
Temp	<i>40-80</i>	60 Deg
Total Dissolved Solids		500 Mg / L

Respectfully: ERIC CARTER

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.

Sales Order #: 900777647	Line Item: 10	Survey Conducted Date: 10/1/2013
Customer: CHEVRON - MID-CONTINENT EBIZ		Job Type (BOM): CMT PRODUCTION CASING BOM
Customer Representative: JOEL KAUFMAN		API / UWI: (leave blank if unknown) 05-045-22096
Well Name: Skinner Ridge		Well Number: 598-08-BV-03
Well Type: Development Well	Well Country: United States of America	
H2S Present:	Well State: Colorado	Well County: 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	10/1/2013
Survey Interviewer	The survey interviewer is the person who initiated the survey.	ERIC CARTER (HX15491)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	JOEL KAUFMAN
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	CREW DID AN EXCELLENT JOB. VERY SAFETY AWARE AND TOOK CARE OF OUR NEEDS.

CUSTOMER SIGNATURE

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Customer Representative: JOEL KAUFMAN		API / UWI: (leave blank if unknown) 05-045-22096
Well Name: Skinner Ridge		Well Number: 598-08-BV-03
Well Type: Development Well	Well Country: United States of America	
H2S Present:	Well State: Colorado	Well County: Garfield

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date The date the survey was conducted	10/1/2013

Cementing KPI Survey	
Type of Job Select the type of job. (Cementing or Non-Cementing)	0
Select the Maximum Deviation range for this Job What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	Vertical
Total Operating Time (hours) Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	4
HSE Incident, Accident, Injury HSE Incident, Accident, Injury. This should be recordable incidents only.	No
Was the job purpose achieved? Was the job delivered correctly as per customer agreed design?	Yes
Operating Hours (Pumping Hours) Total number of hours pumping fluid on this job. Enter in decimal format.	2
Customer Non-Productive Rig Time (hrs) 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.	0
Type of Rig Classification Job Was Performed Type Of Rig (classification) Job Was Performed On	Drilling Rig (Portable)
Number Of JSAs Performed Number Of Jsas Performed	5
Number of Unplanned Shutdowns Unplanned shutdown is when injection stops for any period of time.	1
Reason For Unplanned Shutdown	HYDRAULIC LEAK

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Well Type: Development Well	Well Country: United States of America	
H2S Present:	Well State: Colorado	Well County: Garfield

Reason For Unplanned Shutdowns (after Starting To Pump)	
Was this a Primary Cement Job (Yes / No) Primary Cement Job= Casing job, Liner job, or Tie-back job.	Yes
Did We Run Wiper Plugs? Did We Run Top And Bottom Casing Wiper Plugs?	Top
Mixing Density of Job Stayed in Designed Density Range (0-100%) Density Range defined as +/- .20 ppg. Calculation: Total BBLs cement mixed at designed density divided by total BBLs of cement multiplied by 100	94
Was Automated Density Control Used? Was Automated Density Control (ADC) Used ?	Yes
Pump Rate (percent) of Job Stayed At Designed Pump Rate 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	94
Nbr of Remedial Sqz Jobs Rqd - Competition Number Of Remedial Squeeze Jobs Required After Primary Job Performed By Competition	0
Nbr of Remedial Plug Jobs Rqd - HES Number Of Remedial Plug Jobs Needed After Primary Plug Pumped By HES	0
Nbr of Remedial Sqz Jobs Rqd - HES Number Of Remedial Squeeze Jobs Required After Primary Job Performed By HES	0