
CHEVRON - MID-CONTINENT EBIZ

**Skinner Ridge 598-08-BV-04
SKINNER RIDGE
Garfield County , Colorado**

Cement Production Casing **08-Oct-2013**

Post Job Report

The Road to Excellence Starts with Safety

Sold To #: 338668	Ship To #: 3097912	Quote #:	Sales Order #: 900801932
Customer: CHEVRON - MID-CONTINENT EBIZ	Customer Rep: Geiser, Greg		
Well Name: Skinner Ridge	Well #: 598-08-BV-04	API/UWI #:	
Field: SKINNER RIDGE	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
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	Srv 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 #
CAMPBELL, DAVID Arthur	13	544403	CARTER, ERIC Earl	13	345598	LAULAINEN, ROGER Edward	13	524413
WOLFE, JON P	13	485217						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10296152C	120 mile	10565341	120 mile	10867304	120 mile	10867423	120 mile
10897925	120 mile	10973571	120 mile	10998054	120 mile	11021972	120 mile
11562538	120 mile	11583933	120 mile	11808849	120 mile		

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
10/8/13	13	2						

TOTAL Total is the sum of each column separately

Job					Job Times			
Formation Name					Date	Time	Time Zone	
Formation Depth (MD)	Top	1024 FT.	Bottom	4855 FT.	Called Out	08 - Oct - 2013	01:00	MST
Form Type		BHST			On Location	08 - Oct - 2013	04:30	MST
Job depth MD	4833. ft	Job Depth TVD	4833. ft		Job Started	08 - Oct - 2013	14:16	MST
Water Depth		Wk Ht Above Floor	5. ft		Job Completed	08 - Oct - 2013	16:05	MST
Perforation Depth (MD)	From		To		Departed Loc	08 - Oct - 2013	17:30	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				1024.	4855.	1024.	4855.
4-1/2" Production Casing	New		4.5	4.	11.6		N-80	.	4833.	.	4833.
8-5/8" Surface Casing	New		8.625	8.097	24.		J-55	.	1024.		

Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug	4.5"	1	HES
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container	4.5"	1	HES
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 ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk				

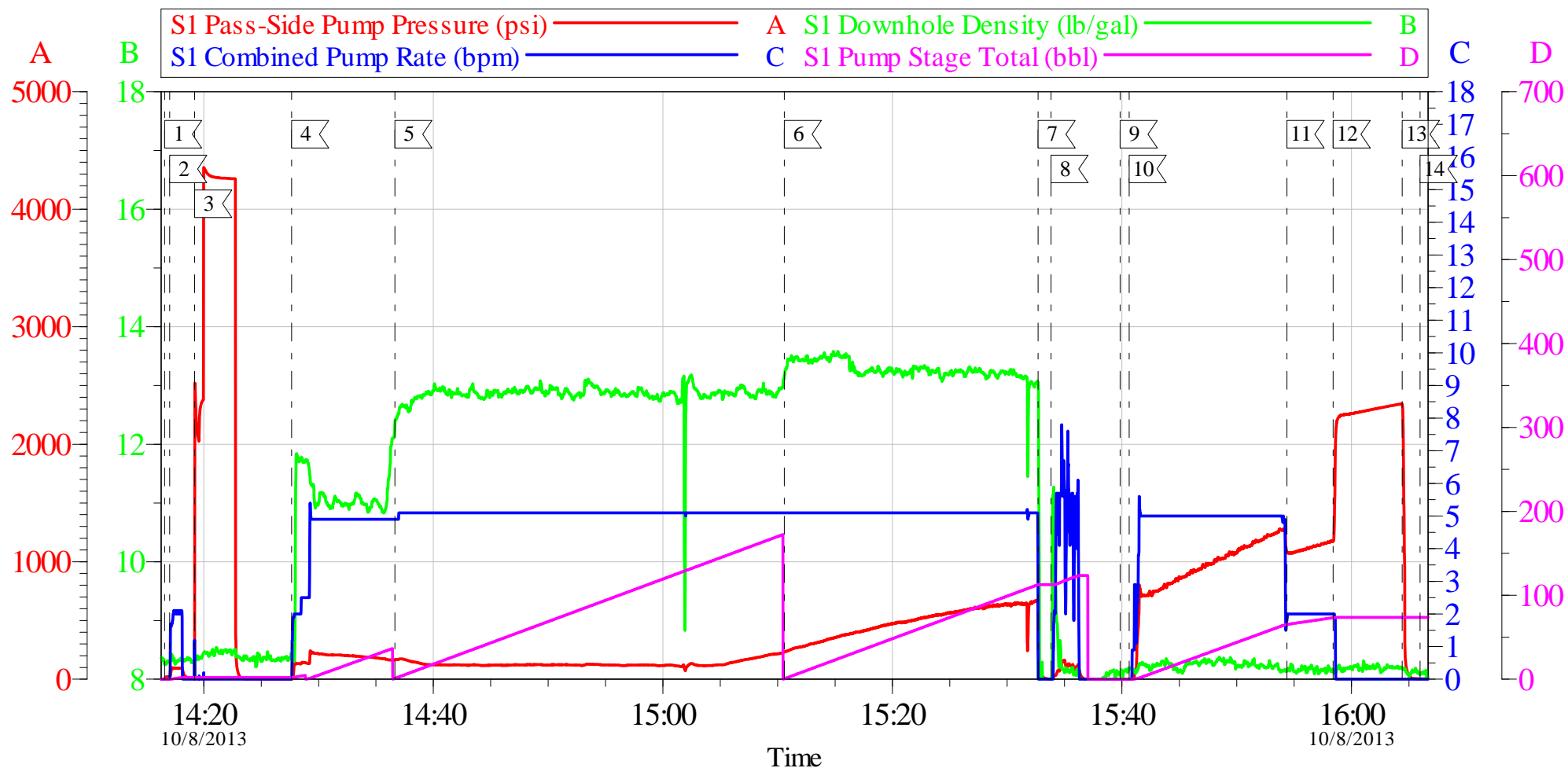
1	TUNED SPACER III	TUNED SPACER III - SBM (483826)	40.00	bbl	11.	3.43	22.6	5	
	36.83 gal/bbl	FRESH WATER							
	128.25 lbm/bbl	BARITE, BULK (100003681)							
2	50/50 Poz Premium	VARICEM (TM) CEMENT (452009)	590.0	sacks	12.8	1.64	7.45	5	7.45
	6 lbm	KOL-SEAL, 50 LB BAG (100064232)							
	0.125 lbm	POLY-E-FLAKE (101216940)							
	7.45 Gal	FRESH WATER							
3	50/50 Poz Premium	VARICEM (TM) CEMENT (452009)	395.0	sacks	13.2	1.51	6.45	5	6.45
	6 lbm	KOL-SEAL, 50 LB BAG (100064232)							
	0.125 lbm	POLY-E-FLAKE (101216940)							
	6.45 Gal	FRESH WATER							
4	2% KCl		74.30	bbl	8.43			5	
Calculated Values		Pressures		Volumes					
Displacement	74.3	Shut In: Instant		Lost Returns	0	Cement Slurry	257.5	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	110	Actual Displacement	74.3	Treatment	
Frac Gradient		15 Min		Spacers	40	Load and Breakdown		Total Job	371.8
Rates									
Circulating	RIG	Mixing	5	Displacement	5	Avg. Job			5
Cement Left In Pipe	Amount	41 ft	Reason	Shoe Joint					
Frac Ring # 1 @	ID		Frac ring # 2 @	ID		Frac Ring # 3 @	ID		Frac Ring # 4 @
The Information Stated Herein Is Correct				Customer Representative Signature					

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Well Name: Skinner Ridge		Well #: 598-08-BV-04	API/UWI #:
Field: SKINNER RIDGE	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat:		Long:	
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		Srv 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	10/08/2013 01:00							
Depart Yard Safety Meeting	10/08/2013 02:50							ATTENDED BY ALL HES CREW
Crew Leave Yard	10/08/2013 03:00							
Arrive At Loc	10/08/2013 04:30							RIG PULLING DRILL PIPE
Assessment Of Location Safety Meeting	10/08/2013 12:30							ATTENDED BY ALL HES CREW
Other	10/08/2013 12:40							SPOT EQUIPMENT
Pre-Rig Up Safety Meeting	10/08/2013 12:50							ATTENDED BY ALL HES CREW
Rig-Up Equipment	10/08/2013 13:00							
Pre-Job Safety Meeting	10/08/2013 13:40							ATTENDED BY ALL HES CREW, RIG CREW AND COMPANY REP
Start Job	10/08/2013 14:16							TP 4833', TD 4855', SJ 41', FC 4792', MW 9.9 PPG, CASING 4.5", 11.6, I-80, SURFACE CASING 8.625", 24#, J-55 SET AT 1024', HOLE 7.875", RIG CIRCULATED FOR 2HR'S PRIOR TO JOB
Other	10/08/2013 14:17		2	2			90.0	FILL LINES
Test Lines	10/08/2013 14:19							PRESSURED UP TO 4300 PSI, PRESSURE HELD
Pump Spacer	10/08/2013 14:27		5	40			230.0	TUNED SPACER

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Lead Cement	10/08/2013 14:36		5	151.3			170.0	590 SKS VARICEM MIXED AT 12.8 PPG, 1.64 YIELD, 7.45 GL/SK
Pump Tail Cement	10/08/2013 15:10		5	106.2			600.0	395 SKS VARICEM MIXED AT 13.2 PPG, 1.51 YIELD, 6.45 GL/SK
Shutdown	10/08/2013 15:32							
Clean Lines	10/08/2013 15:33							CLEANED LINES TO OPEN TOP TANK
Drop Top Plug	10/08/2013 15:39							PLUG LUANCHED
Pump Displacement	10/08/2013 15:40		5	64.3			1260.0	FRESH WATER WITH 2% KCL
Slow Rate	10/08/2013 15:54		2	10			1190.0	
Bump Plug	10/08/2013 15:58						2340.0	PLUG LANDED
Check Floats	10/08/2013 16:04							FLOATS HELD
End Job	10/08/2013 16:05							GOOD CIRCULATION THROUGH OUT JOB, PIPE NOT MOVED DURING JOB, 110 BBLS CEMENT TO SURFACE
Post-Job Safety Meeting (Pre Rig-Down)	10/08/2013 16:10							ATTENDED BY ALL HES CREW
Rig-Down Equipment	10/08/2013 16:15							
Depart Location Safety Meeting	10/08/2013 17:20							ATTENDED BY ALL HES CREW
Crew Leave Location	10/08/2013 17:30							THANK YOU FOR USING HALLIBURTON CEMENT, ERIC CARTER AND CREW.



Local Event Log

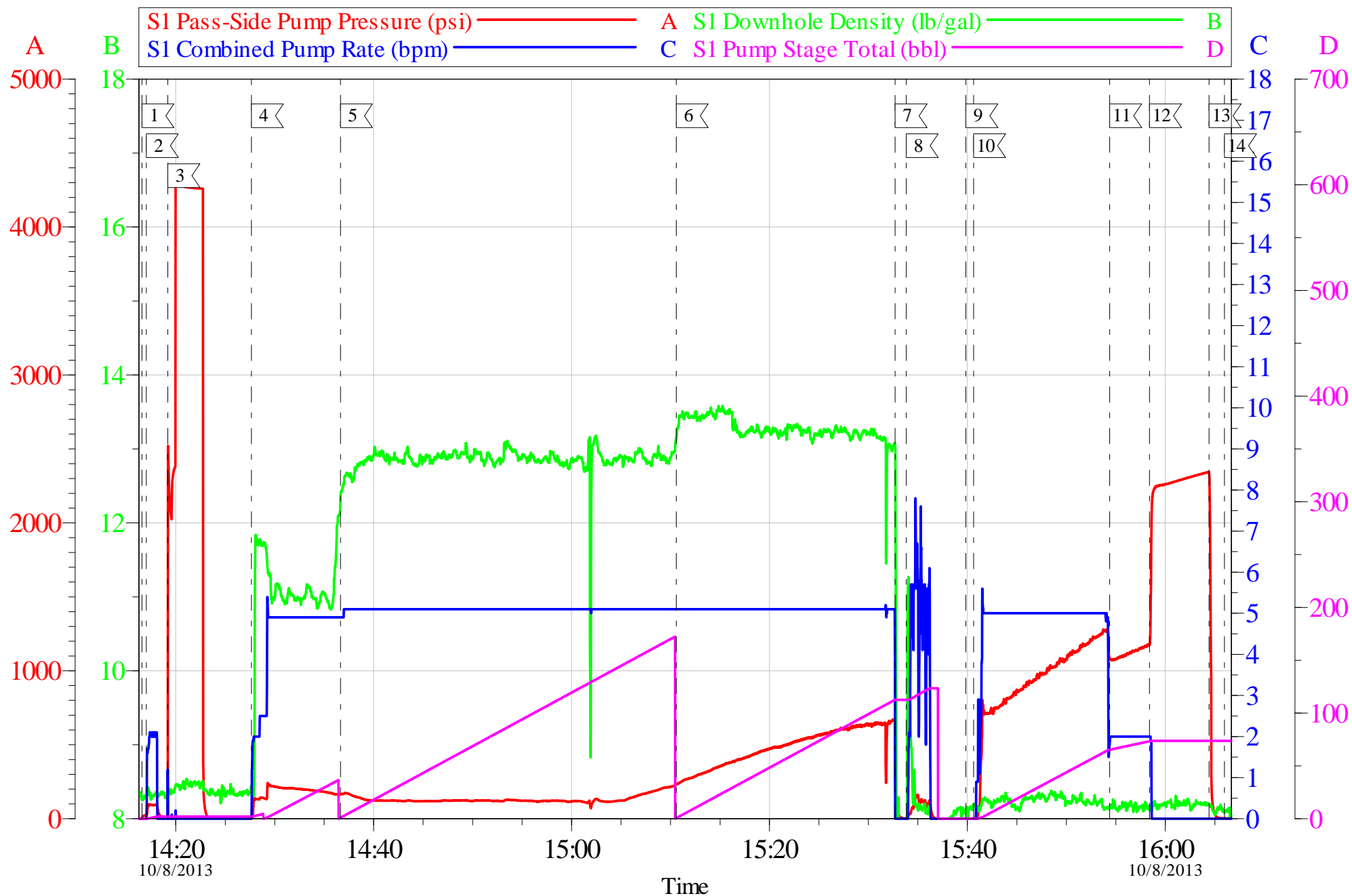
1 START JOB	14:16:35	2 FILL LINES	14:17:02	3 TEST LINES	14:19:12
4 PUMP SPACER	14:27:39	5 PUMP LEAD CEMENT	14:36:39	6 PUMP TAIL CEMENT	15:10:35
7 SHUTDOWN	15:32:42	8 CLEAN LINES	15:33:49	9 DROP TOP PLUG	15:39:51
10 PUMP DISPLACEMENT	15:40:38	11 SLOW RATE	15:54:23	12 BUMP PLUG	15:58:24
13 CHECK FLOATS	16:04:25	14 END JOB	16:05:59		

Customer: CHEVRON - MID-CONTINENT EBIZ
 Well Description: Skinner Ridge 598-08-BV-04
 Company Rep: JOEL KAUFMAN

Job Date: 08-Oct-2013
 Job Type: PRODUCTION
 Service Supervisor: ERIC CARTER

Sales Order #: 900801932
 ADC Used: YES
 Elite#/Operator: 9/JHON WOLFE

OptiCem v6.4.10
 08-Oct-13 16:34



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OptiCem v6.4.10
08-Oct-13 16:35

HALLIBURTON

Water Analysis Report

Company: CHEVRON

Submitted by: ERIC CARTER

Attention: J.Trout

Lease: ENSIGN 122

Well #: SKR 598-08-BV4

Date: 10/11/2013

Date Rec.: 10/11/2013

S.O.#: 900801932

Job Type: PRODUCTION

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	7
Potassium (K)	<i>5000</i>	250 Mg / L
Hrdness	<i>500</i>	350 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		510 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 #: 900801932	Line Item: 10	Survey Conducted Date: 10/8/2013
Customer: CHEVRON - MID-CONTINENT EBIZ		Job Type (BOM): CMT PRODUCTION CASING BOM
Customer Representative: JOEL KAUFMAN		API / UWI: (leave blank if unknown) AFEYKZ2B2LKQKBH5AAA
Well Name: Skinner Ridge		Well Number: 598-08-BV-04
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	10/8/2013
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	

CUSTOMER SIGNATURE

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Customer Representative: JOEL KAUFMAN		API / UWI: (leave blank if unknown) AFEYKZ2B2LKQKBH5AAA
Well Name: Skinner Ridge		Well Number: 598-08-BV-04
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	10/8/2013
The date the survey was conducted	

Cementing KPI Survey	
Type of Job	0
Select the type of job. (Cementing or Non-Cementing)	
Select the Maximum Deviation range for this Job	Vertical
What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	
Total Operating Time (hours)	3.5
Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	
HSE Incident, Accident, Injury	No
HSE Incident, Accident, Injury. This should be recordable incidents only.	
Was the job purpose achieved?	Yes
Was the job delivered correctly as per customer agreed design?	
Operating Hours (Pumping Hours)	2
Total number of hours pumping fluid on this job. Enter in decimal format.	
Customer Non-Productive Rig Time (hrs)	0
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.	
Type of Rig Classification Job Was Performed	Drilling Rig (Portable)
Type Of Rig (classification) Job Was Performed On	
Number Of JSAs Performed	5
Number Of Jsas Performed	
Number of Unplanned Shutdowns	0
Unplanned shutdown is when injection stops for any period of time.	
Was this a Primary Cement Job (Yes / No)	Yes

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Well Name: Skinner Ridge		Well Number: 598-08-BV-04
Well Type: Development Well	Well Country: United States of America	
H2S Present:	Well State: Colorado	Well County: Garfield

Primary Cement Job= Casing job, Liner job, or Tie-back job.	
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	98
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	98
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