
CHEVRON - MID-CONTINENT EBIZ

**McLAUGHLIN 9x33
RANGELY
Rio Blanco County , Colorado**

Squeeze Perfs
10-Feb-2012

Job Site Documents

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	Establish Injection Test		20	bbl	8.33	.0	.0	5.0		
2	SqueezeCem Lead	SQUEEZECEM (TM) SYSTEM (452971)	115	sacks	12.5	2.13	12.3	5.0	12.3	
12.3 Gal		FRESH WATER								
3	SqueezeCem Tail	SQUEEZECEM (TM) SYSTEM (452971)	75	sacks	15.6	1.18	5.05	2.0	5.05	
2 %		CALCIUM CHLORIDE, PELLET, 50 LB (101509387)								
5.05 Gal		FRESH WATER								
4	Fresh Water Displacement		4.7	bbl	8.33	.0	.0	3.0		
Calculated Values			Pressures			Volumes				
Displacement	4.7	Shut In: Instant		Lost Returns	0	Cement Slurry	62	Pad		
Top Of Cement	SURF	5 Min		Cement Returns	0	Actual Displacement	4.7	Treatment		
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	86.7	
Rates										
Circulating	2	Mixing	3	Displacement	3	Avg. Job	3			
Cement Left In Pipe	Amount	0 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						

Cement Verification Sheet

Company:	<u>Chevron</u>	<u>2/9/2012 16:00</u>
Lease & Well:	<u>McLaughlin 9X33</u>	
Density:	<u>12.5 lbs/gal</u>	
Yield:	<u>2.26 ft³/sk</u>	
Water Req:	<u>12.9 gal/sk</u>	
Sacks:	<u>115 sks</u>	LEAD

<u>CEMENT BLEND:</u>	<u>Conc.</u>	<u>Unit</u>	<u>Weight</u>	
TYPE III	100	% BWOC	10810.0	115 sks
CEMENT		% BWOC		sks
POZ		% BWOC		
OTHER		% BWOC		

<u>ADDITIVES:</u>				
CALSEAL	2	% BWOC	216.2	4.3 sks
ECONOLITE	2	% BWOC	216.2	
VERSASET	0.3	% BWOC	32.4	
ADDITIVE	0	LB/SK		
ADDITIVE	0	LB/SK		
ADDITIVE	0	LB/SK		
ADDITIVE	0	LB/SK		
ADDITIVE	0	LB/SK		
ADDITIVE	0	LB/SK		
ADDITIVE	0	LB/SK		
ADDITIVE	0	LB/SK		
ADDITIVE	0	LB/SK		
ADDITIVE	0	LB/SK		
ADDITIVE	0	LB/SK		
ADDITIVE	0	LB/SK		
ADDITIVE	0	LB/SK		

TOTAL:		11274.8
	TONS:	5.6
	TOTAL FT ³ :	121.4

Cement Verification Sheet

Company: Chevron 2/9/2012 16:00
 Lease & Well: McLaughlin 9X33
 Density: 15.6 lbs/gal
 Yield: 1.18 ft³/sk
 Water Req: 5.05 gal/sk
 Sacks: 75 sks Type:

<u>CEMENT BLEND:</u>	<u>Conc.</u>	<u>Unit</u>	<u>Weight</u>	
<u>MOUNTAIN G</u>	100	% BWOC	7050.0	75 sks
CEMENT		% BWOC		sks
BORAL CRAIG		% BWOC	0.0	0 sks
OTHER		% BWOC		

ADDITIVES:

ADDITIVE	0	% BWOC		
ADDITIVE	0	% BWOC		
ADDITIVE	0	% BWOC		
ADDITIVE	0	% BWOC		
ADDITIVE	0	LB/SK		
ADDITIVE	0	LB/SK		
ADDITIVE	0	LB/SK		
ADDITIVE	0	LB/SK		
ADDITIVE	0	LB/SK		
ADDITIVE	0	LB/SK		
ADDITIVE	0	LB/SK		
ADDITIVE	0	LB/SK		
ADDITIVE	0	LB/SK		
ADDITIVE	0	LB/SK		
ADDITIVE	0	LB/SK		
ADDITIVE	0	LB/SK		

TOTAL: 7050.0
TONS: 3.5
TOTAL FT³: 75.0

The Road to Excellence Starts with Safety

Sold To #: 338668	Ship To #: 2904970	Quote #:	Sales Order #: 9274724
Customer: CHEVRON - MID-CONTINENT EBIZ		Customer Rep: Doyle	
Well Name: McLAUGHLIN	Well #: 9x33	API/UWI #:	
Field: RANGELY	City (SAP): RANGELY	County/Parish: Rio Blanco	State: Colorado
Contractor: WORKOVER	Rig/Platform Name/Num: Workover		
Job Purpose: Squeeze Perfs			
Well Type: Producing Well		Job Type: Squeeze Perfs	
Sales Person: SARVER, ZACHARY		Srv Supervisor: DEAN, MARK	MBU ID Emp #: 454214

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
ANDERSON, BENJAMIN L	5	342843	DEAN, MARK Christophe	5	454214	Jutson, Tim	5	510127

Equipment

HES Unit #	Distance-1 way						
11076824	50	10948690	50	11398321			

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
02-10-12	5	5						

TOTAL Total is the sum of each column separately

Job

Job Times

Formation Name	Formation Depth (MD)	Top	Bottom	Called Out	Date	Time	Time Zone
	1169. ft		911. ft	On Location	10 - Feb - 2012	07:45	MST
Form Type		BHST		Job Started	10 - Feb - 2012	10:30	MST
Job depth MD	1169. ft	Job Depth TVD	911. ft	Job Completed	10 - Feb - 2012	11:34	MST
Water Depth		Wk Ht Above Floor	5 ft	Departed Loc	10 - Feb - 2012	13:00	MST
Perforation Depth (MD)	From	911 ft	To	1169 ft			

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
Production Casing	Unknown		7.	6.366	23.		J-55	.	6000.		
Retainer	Unknown		7.	6.366	23.		J-55	850.	851.		
Surface Casing	Unknown		10.75	10.05	40.5		J-55	.	757.		
Tubing	Unknown		2.875	2.441	6.5		J-55	.	850.		
Squeeze Interval								3714.	3725.		

Sales/Rental/3rd Party (HES)

Description	Qty	Qty uom	Depth	Supplier
SUGAR - GRANULATED	20	LB		

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	

The Road to Excellence Starts with Safety

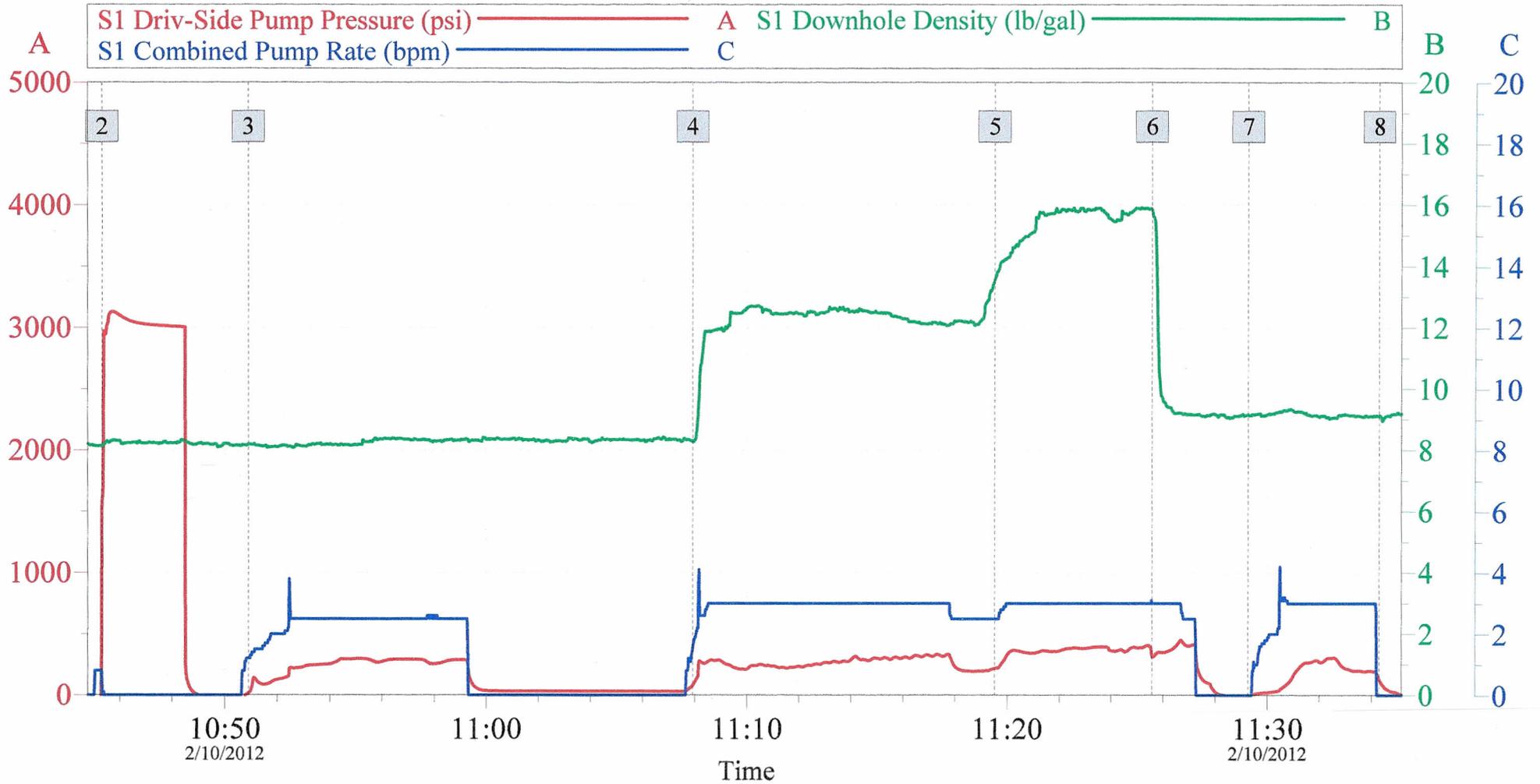
Sold To #: 338668	Ship To #: 2904970	Quote #:	Sales Order #: 9274724
Customer: CHEVRON - MID-CONTINENT EBIZ		Customer Rep: Doyle	
Well Name: McLAUGHLIN		Well #: 9x33	API/UWI #:
Field: RANGELY	City (SAP): RANGELY	County/Parish: Rio Blanco	State: Colorado
Legal Description:			
Lat:		Long:	
Contractor: WORKOVER		Rig/Platform Name/Num: Workover	
Job Purpose: Squeeze Perfs			Ticket Amount:
Well Type: Producing Well		Job Type: Squeeze Perfs	
Sales Person: SARVER, ZACHARY		Srvc Supervisor: DEAN, MARK	MBU ID Emp #: 454214

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	02/10/2012 05:00							CREW CALLED OUT, GOT TRUCKS PREPPED FOR CONVOY AND JOB
Pre-Convoy Safety Meeting	02/10/2012 06:15							DISCUSSED CONVOY PROCEDURES, ROUTE, STOP, ROAD HAZARDS, TRAFFIC, WILDLIFE, WEATHER HAZARDS, EMERGENCY, AND BREAKDOWN PROCEDURES
Depart from Service Center or Other Site	02/10/2012 06:30							CREW DEPARTED IN CONVOY
Arrive At Loc	02/10/2012 07:45							Assesed location for spotting Equipment
Pre-Rig Up Safety Meeting	02/10/2012 08:00							DISCUSSED RIG UP PROCEDURES, PINCH POINTS, LIFTING, HAMMERING, RED ZONES, AND SLIPS/TRIPS/FALLS
Rig-Up Equipment	02/10/2012 08:15							RIGGED UP SAFELY AND TO BOTH HALLIBURTON AND CHEVRON STANDARDS
Pre-Job Safety Meeting	02/10/2012 10:15							DISCUSSED JOB PROCEDURE, RIG ISSUES, SAFETY ISSUES, HAZARDS WITH PRESSURE, EMERGENCY, AND EVACUATION PROCEDURES

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Test Lines	02/10/2012 10:32							TESTED LINES TO 3000 PSI (LEAK) (REPLACED 2 INCH LO TORQ ON TBG)
Test Lines	02/10/2012 10:45							TESTED LINES TO 3000 PSI (PRESSURE HELD)
Circulate Well	02/10/2012 10:50		2.5	20			225.0	BROKE CIRCULATION @ 4 BBL GONE
Pump Lead Cement	02/10/2012 11:08		3	46.29			290.0	PUMPED 46 BBL OF SqueezeCem LEAD CMT @ 12.5# - Y: 2.26 - W: 12.9 (115 SKS)
Pump Tail Cement	02/10/2012 11:20		3	15.76			360.0	PUMPED 15 BBL OF SqueezeCem TAIL CMT @ 15.6# - Y: 1.18 - W: 5.05 (75 SKS)
Pump Displacement	02/10/2012 11:26		3	4.7			345.0	PUMPED A TOTAL OF 4.7 BBL OF FRESHWATER DISPLACEMENT
Slow Rate	02/10/2012 11:27		2.5	7			400.0	SLOWED RATE TO MAINTAIN LOW PRESSURE
Shutdown	02/10/2012 11:29							SHUTDOWN AND PULLED OUT OF RETAINER
Reverse Circ Well	02/10/2012 11:30		2	13			150.0	REVERSED 13 BBL OF FRESH
Shutdown	02/10/2012 11:34							SWAPPED MANIFOLD TO PIT TO WASH UP
Clean Lines	02/10/2012 11:38							WASHED PUMP & LINES TO PIT
Post-Job Safety Meeting (Pre Rig-Down)	02/10/2012 11:50							DISCUSSED PPE & HAZARDS
Rig-Down Equipment	02/10/2012 11:55							RIGGED DOWN EQUIPMENT SAFELY
Pre-Convoy Safety Meeting	02/10/2012 12:45							DISCUSSED FATIGUE & SAFE DRIVING
Depart Location for Service Center or Other Site	02/10/2012 13:00							THANKYOU FOR CHOOSING HALLIBURTON !

Chevron 2.875 Squeeze

02-10-12



Global Event Log

2	Test Lines	10:45:20	3	Circulate Well	10:50:55	4	Pump Lead Cement	11:07:55
5	Pump Tail Cement	11:19:31	6	Pump Displacement	11:25:34	7	Reverse Circ Well	11:29:15
8	Shutdown	11:34:18						

Customer: Chevron
 Well Description: McLaughlin
 Cementer: Mark Dean

Job Date: 10-Feb-2012
 Well #: 9X33
 Operator: Ben Anderson

Sales Order #: 9274724
 RCM #: 11076824

OptiCem v6.4.10
 10-Feb-12 11:48