
OXY GRAND JUNCTION EBUSINESS

**CC 697-16-15A
Parachute
Garfield County , Colorado**

**Squeeze Perfs
21-Nov-2011**

Post Job Report

The Road to Excellence Starts with Safety

Sold To #: 344034		Ship To #: 2578468		Quote #:		Sales Order #: 9065943	
Customer: OXY GRAND JUNCTION EBUSINESS				Customer Rep: DECKER, MIKE			
Well Name: CC			Well #: 697-16-15A			API/UWI #:	
Field: Parachute		City (SAP):		County/Parish: Garfield		State: Colorado	
Lat: N 39.527 deg. OR N 39 deg. 31 min. 37.2 secs.				Long: W 108.217 deg. OR W -109 deg. 46 min. 58.8 secs.			
Contractor: WORKOVER			Rig/Platform Name/Num: WORKOVER				
Job Purpose: Squeeze Perfs							
Well Type: Development Well				Job Type: Squeeze Perfs			
Sales Person: HIMES, JEFFREY			Srvc Supervisor: JAMISON, PRICE			MBU ID Emp #: 229155	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
JAMISON, PRICE W	13	229155	JENSEN, SHANE Lynn	13	441759	MILLER, KEVIN Paul	13	443040
PRUETT, BRADLEY A	13	475748	VANALSTYNE, TROY L	13	420256	WOLFE, JON P	13	485217

Equipment

HES Unit #	Distance-1 way						
10297346	120 mile	10744648C	120 mile	10783493	120 mile	10822007	120 mile
10998508	120 mile	11057895	120 mile	11071559	120 mile	11583916	120 mile
11583934	120 mile						

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
11/21/11	13	4						

TOTAL *Total is the sum of each column separately*

Job

Job Times

Formation Name	Job			Date	Time	Time Zone
Formation Depth (MD)	Top	Bottom	Bottom	Called Out	21 - Nov - 2011	01:00 MST
Form Type	BHST			On Location	21 - Nov - 2011	06:45 MST
Job depth MD	6750. ft	Job Depth TVD	6750. ft	Job Started	21 - Nov - 2011	14:34 MST
Water Depth	Wk Ht Above Floor			Job Completed	21 - Nov - 2011	00:00 MST
Perforation Depth (MD)	From	7,139.00 ft	To	7,140.00 ft	Departed Loc	21 - Nov - 2011

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
Perforation Interval								7139.	7140.	.	.
PRODUCTION CASING	Unknown		4.5	4.	11.6		P-110	6500.	6750.	6500.	6750.
TUBING	Unknown		2.375	1.995	4.6		J-55	.	6500.	.	6500.

Sales/Rental/3rd Party (HES)

Description	Qty	Qty uom	Depth	Supplier
ADC (AUTO DENSITY CTRL) SYS, /JOB,ZI	1	JOB		
PORT. DATA ACQUIS. W/OPTICEM RT W/HES	1	EA		
R/A DENSOMETER W/CHART RECORDER,/JOB,ZI	1	JOB		

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 ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk	
1	Fresh Water				30.00	bbl	8.4	.0	.0	2.0		
2	Squeeze Cement	SQUEEZECEM (TM) SYSTEM (452971)			500.0	sacks	15.5	1.2	5.32	2.0	5.32	
5.32 Gal		FRESH WATER										
3	Fresh Water				26.00	bbl	8.4			2.0		
Calculated Values			Pressures			Volumes						
Displacement	26	Shut In: Instant			Lost Returns	YES	Cement Slurry		106.9	Pad		
Top Of Cement	????	5 Min			Cement Returns	NO	Actual Displacement		26	Treatment		
Frac Gradient		15 Min			Spacers	15	Load and Breakdown			Total Job 147		
Rates												
Circulating	NO	Mixing		2	Displacement		2	Avg. Job		2		
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							

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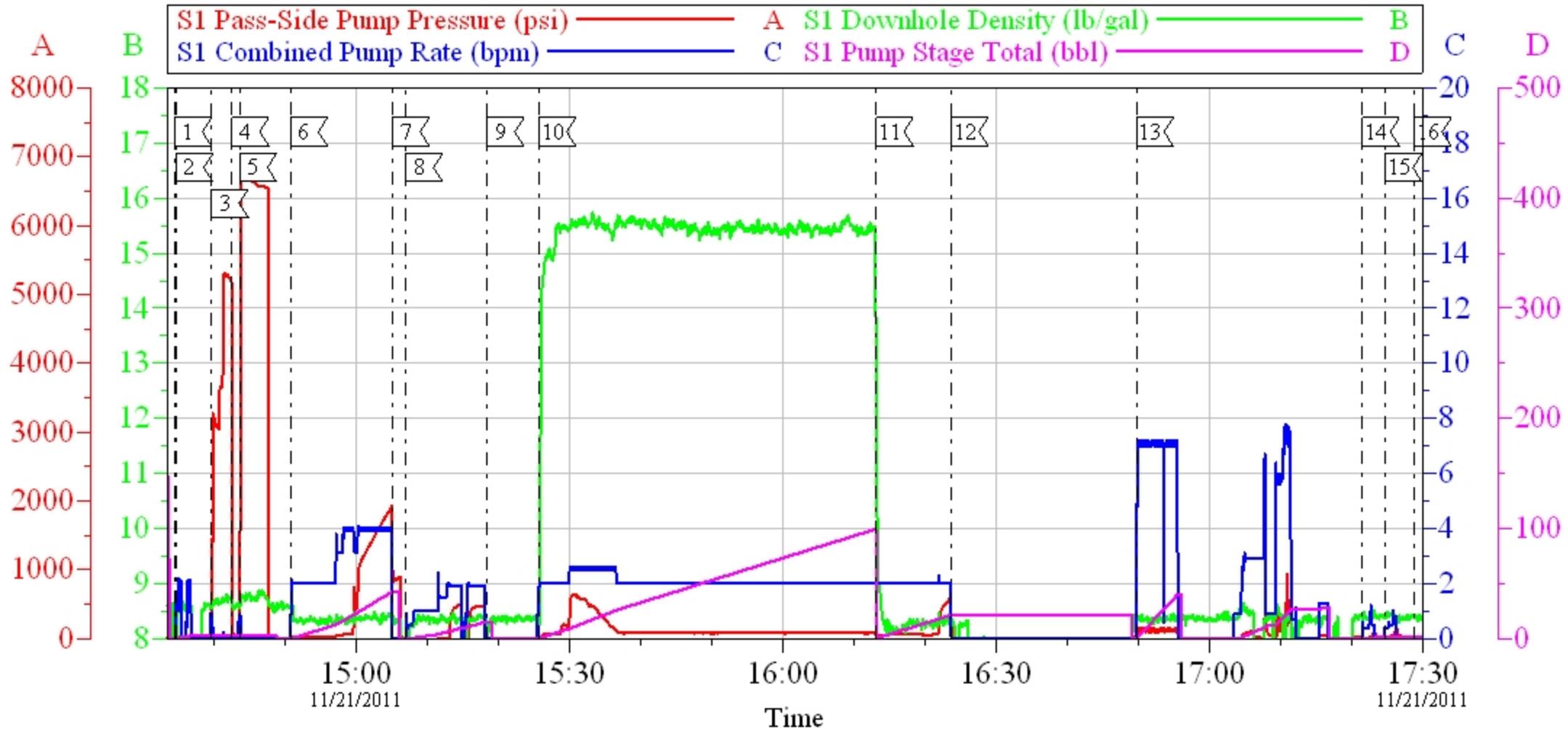
Sold To #: 344034	Ship To #: 2578468	Quote #:	Sales Order #: 9065943
Customer: OXY GRAND JUNCTION EBUSINESS		Customer Rep: DECKER, MIKE	
Well Name: CC		Well #: 697-16-15A	API/UWI #:
Field: Parachute	City (SAP):	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat: N 39.527 deg. OR N 39 deg. 31 min. 37.2 secs.		Long: W 108.217 deg. OR W -109 deg. 46 min. 58.8 secs.	
Contractor: WORKOVER		Rig/Platform Name/Num: WORKOVER	
Job Purpose: Squeeze Perfs			Ticket Amount:
Well Type: Development Well		Job Type: Squeeze Perfs	
Sales Person: HIMES, JEFFREY		Srvc Supervisor: JAMISON, PRICE	MBU ID Emp #: 229155

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	11/21/2011 01:00							TUBING 2 3/8 4.6 SET @ 6500 PERFS @ 6750 CASING 4.5 11.6 P110
Depart Yard Safety Meeting	11/21/2011 02:50							
Crew Leave Yard	11/21/2011 03:00							
Arrive At Loc	11/21/2011 06:45							
Assessment Of Location Safety Meeting	11/21/2011 07:00							
Pre-Rig Up Safety Meeting	11/21/2011 07:30							
Wait on Customer or Customer Sub-Contractor Equip	11/21/2011 09:30							WIRE LINE RIG TO RUN TUBING
Wait on Customer or Customer Sub-Contractor Equipm	11/21/2011 14:10							
Pre-Job Safety Meeting	11/21/2011 14:20							
Start Job	11/21/2011 14:34							
Prime Pumps	11/21/2011 14:35		2	2			23.0	FRESH WATER
Test Lines	11/21/2011 14:39						5000.0	
Load Backside	11/21/2011 14:50		4	42			1925.0	PRODUCED WATER
Injection Test	11/21/2011 15:06		2	15			484.0	FRESH WATER
ISIP	11/21/2011 15:18						.0	WELL ON A SUCK
Activity Description	Date/Time	Cht	Rate bbl/min	Volume bbl		Pressure psig		Comments

		#		Stage	Total	Tubing	Casing	
Pump Cement	11/21/2011 15:25		2	106.9			80.0	MIXED @ 15.5 PPG YIELD 1.2 WAT/REQ 5.32 500 SKS
Pump Displacement	11/21/2011 16:13		2	26			596.0	PRODUCED WATER FOR DISPLACEMENT
Shutdown	11/21/2011 16:23							WELL ON A SUCK
Stage Cement	11/21/2011 17:21		0.5	0.25			85.0	
Stage Cement	11/21/2011 17:24		0.5	0.25			180.0	
End Job	11/21/2011 17:28							NO RETURNS THROUGHOUT JOB
Post-Job Safety Meeting (Pre Rig-Down)	11/21/2011 19:00							
Depart Location Safety Meeting	11/21/2011 19:50							
Crew Leave Location	11/21/2011 20:00							THANKS FOR USING HALLIBURTON BILL JAMISON & CREW

OXY CC 697-16-15A

SQUEEZE



Local Event Log								
1	START JOB	14:34:24	2	FILL LINES	14:34:36	3	PRESSURE TEST	14:39:35
4	FIX LEAK	14:42:29	5	RE-PRESSURE TEST	14:43:34	6	FILL BACKSIDE	14:50:44
7	SHUTDOWN	15:05:03	8	INJECTION TEST	15:06:56	9	ISIP	15:18:23
10	PUMP CEMENT	15:25:41	11	PUMP DISPLACEMENT	16:13:10	12	SHUT DOWN	16:23:42
13	CLEAN PUMPS & LINES	16:49:45	14	STAGE CEMENT	17:21:35	15	STAGE CEMENT	17:24:45
16	END JOB	17:28:52						

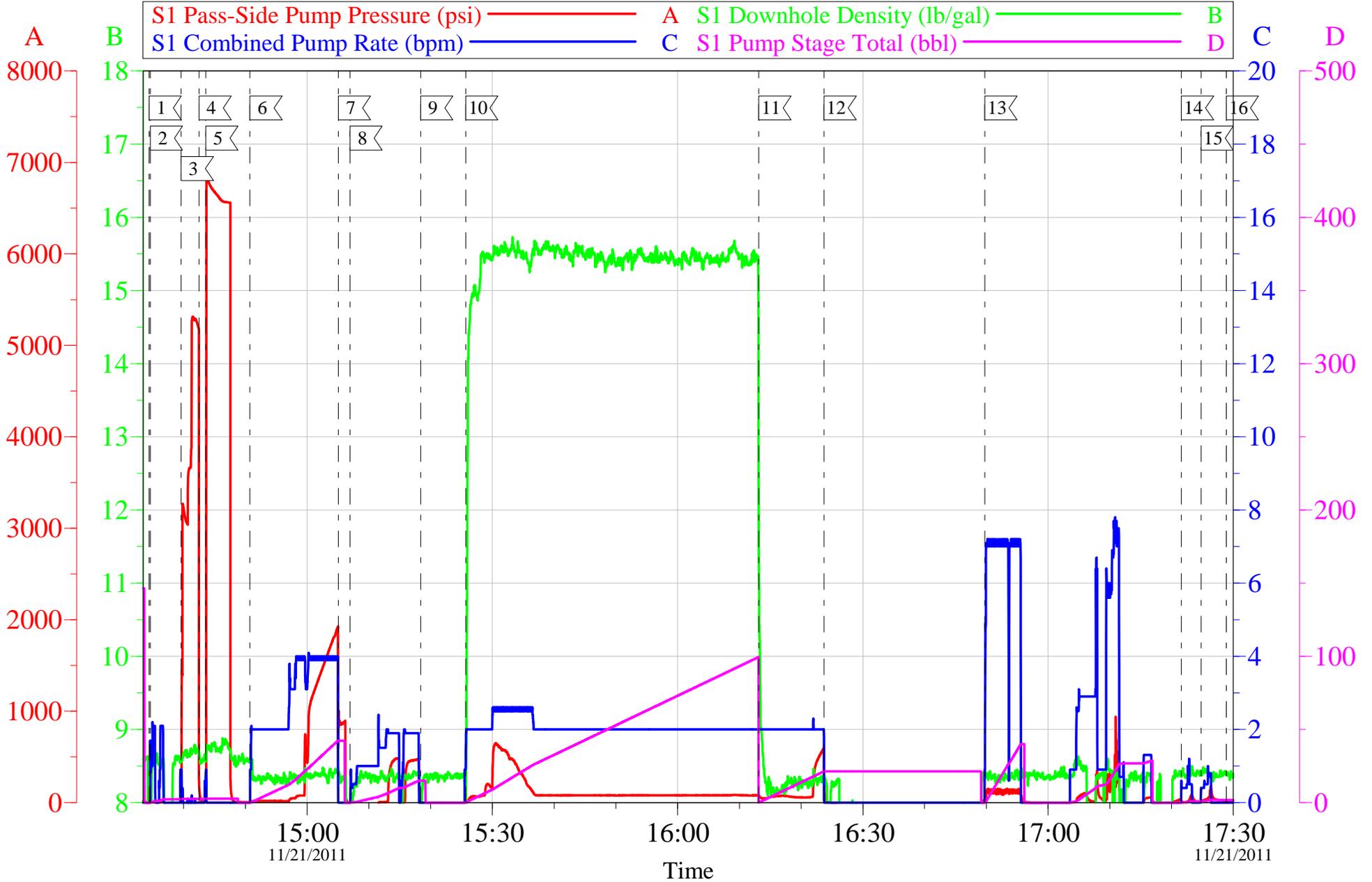
Customer: OXY
 Well Description: CC 697-16-15A
 Company Rep: MIKE DECKER

Job Date: 21-Nov-2011
 Job Type: CEMENT
 Cement Supervisor: BILL JAMISON

Sales Order #: 9065943
 ADC Used: YES
 Elite # 6 SHANE JENSEN

OXY CC 697-16-15A

SQUEEZE



Customer: OXY	Job Date: 21-Nov-2011	Sales Order #: 9065943
Well Description: CC 697-16-15A	Job Type: CEMENT	ADC Used: YES
Company Rep: MIKE DECKER	Cement Supervisor: BILL JAMISON	Elite # 6 SHANE JENSEN

HALLIBURTON

Water Analysis Report

Company: OXY
Submitted by: BILL JAMISON
Attention: J.Trout
Lease: C.C.
Well #: 697-16-15A

Date: 11/21/2011
Date Rec.: 11/21/2011
S.O.#: 9065943
Job Type: SQUEEZE

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	7
Potassium (K)	<i>5000</i>	400 Mg / L
Calcium (Ca)	<i>500</i>	120 Mg / L
Iron (FE2)	<i>300</i>	0 Mg / L
Chlorides (Cl)	<i>3000</i>	0 Mg / L
Sulfates (SO ₄)	<i>1500</i>	-200 Mg / L
Chlorine (Cl ₂)		0 Mg / L
Temp	<i>40-80</i>	85 Deg
Total Dissolved Solids		400 Mg / L

Respectfully: BILL JAMISON

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 #: 9065943	Line Item: 10	Survey Conducted Date: 11/21/2011
Customer: OXY GRAND JUNCTION EBUSINESS		Job Type (BOM): CMT SQUEEZE PERFORATIONS BOM
Customer Representative:		API / UWI: (leave blank if unknown) AFEYSGY330JJ4STKAAA
Well Name: CC		Well Number: 697-16-15A
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	11/21/2011
Survey Interviewer	The survey interviewer is the person who initiated the survey.	PRICE JAMISON (HAL9235)
Customer Participation	Did the customer participate in this survey? (Y/N)	No
Customer Representative	Enter the Customer representative name	
HSE	Was our HSE performance satisfactory? Circle Y or N	
Equipment	Were you satisfied with our Equipment? Circle Y or N	
Personnel	Were you satisfied with our people? Circle Y or N	
Customer Comment	Customer's Comment	

CUSTOMER SIGNATURE

Sales Order #: 9065943	Line Item: 10	Survey Conducted Date: 11/21/2011
Customer: OXY GRAND JUNCTION EBUSINESS		Job Type (BOM): CMT SQUEEZE PERFORATIONS BOM
Customer Representative:		API / UWI: (leave blank if unknown) AFEYSGY330JJ4STKAAA
Well Name: CC		Well Number: 697-16-15A
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	11/21/2011
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	Deviated
What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	
Total Operating Time (hours)	4
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)	3
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	Workover
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)	No

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Customer Representative:		API / UWI: (leave blank if unknown) AFEYSGY330JJ4STKAAA
Well Name: CC		Well Number: 697-16-15A
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.	
Was this a Plug or a Squeeze Job? Please select the appropriate choice	No
Was this a Primary or a Remedial Job? Kick off plug, Plug to Abandon, LCM plug or Planned Liner Top Squeeze, Squeeze of existing perforations, Squeeze of casing leak	No
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