
BLACK DIAMOND MINERALS LLC

**TRP 112-6
WILD CAT
Garfield County , Colorado**

Cement Intermediate Casing
13-Oct-2013

Post Job Report

The Road to Excellence Starts with Safety

Sold To #: 357065	Ship To #: 3111120	Quote #:	Sales Order #: 900811450
Customer: BLACK DIAMOND MINERALS LLC	Customer Rep: Brumley, Jamey		
Well Name: TRP	Well #: 112-6	API/UWI #: 05-045-16951	
Field: WILD CAT	City (SAP): RIFLE	County/Parish: Garfield	State: Colorado
Lat: N 39.395 deg. OR N 39 deg. 23 min. 41.921 secs.	Long: W 107.832 deg. OR W -108 deg. 10 min. 5.059 secs.		
Contractor: H&P	Rig/Platform Name/Num: H&P 319		
Job Purpose: Cement Intermediate Casing			
Well Type: Development Well	Job Type: Cement Intermediate Casing		
Sales Person: PRUETT, BRADLEY	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 #
CAMPBELL, DAVID Arthur	1080. 0	544403	CARTER, ERIC Earl	1080. 0	345598	EICKHOFF, ROBERT Edward	1080. 0	495311
JENSEN, SHANE	1080. 0	441759	MUHLESTEIN, RYAN Herrick	1080. 0	453609			

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10297346	50 mile	10567589C	50 mile	10973571	50 mile	11583933	50 mile
11808847	50 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							
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Job

Job Times

Formation Name						Date	Time	Time Zone		
Formation Depth (MD)		Top		Bottom		Called Out	12 - Oct - 2013	15:30	MST	
Form Type		BHST		264 degF		On Location	12 - Oct - 2013	18:00	MST	
Job depth MD		12027. ft		Job Depth TVD		12027. ft	Job Started	12 - Oct - 2013	21:46	MST
Water Depth				Wk Ht Above Floor		5. ft	Job Completed	13 - Oct - 2013	00:22	GMT
Perforation Depth (MD)		From		To		Departed Loc	13 - Oct - 2013	02:00	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
8 3/4" Intermediate Open Hole				8.75				2313.	12072.		
7" Intermediate Casing	Unknown		7.	6.276	26.		P-110	.	12027.		12027.
9 5/8" Surface Casing	Unknown		9.625	8.921	36.		J-55	.	2313.		

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	MUD FLUSH III	MUD FLUSH III - SBM (528788)	40.00	bbl	8.4	.0	.0	4.0	
2	EconoCem Lead 1	HALCEM (TM) SYSTEM (452986)	260.0	sacks	12.7	1.72	8.2	4.0	8.2
	8.2 Gal	FRESH WATER							
3	ExpandaCem Lead 2 Cement	EXPANDACEM (TM) SYSTEM (452979)	260.0	sacks	12.7	2.03	9.8		9.8
	9.8 Gal	FRESH WATER							
4	ExpandaCem GJ Tail	EXPANDACEM (TM) SYSTEM (452979)	70.0	sacks	13.5	1.71	7.45	4.0	7.45
	7.45 Gal	FRESH WATER							
5	Displacement		456.00	bbl	9.	.0	.0	6.0	
Calculated Values		Pressures		Volumes					
Displacement		Shut In: Instant		Lost Returns		Cement Slurry		Pad	
Top Of Cement		5 Min		Cement Returns		Actual Displacement		Treatment	
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job	
Rates									
Circulating		Mixing		Displacement		Avg. Job			
Cement Left In Pipe	Amount	90 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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Well Name: TRP			Well #: 112-6		API/UWI #: 05-045-16951		
Field: WILD CAT		City (SAP): RIFLE		County/Parish: Garfield		State: Colorado	
Legal Description:							
Lat: N 39.395 deg. OR N 39 deg. 23 min. 41.921 secs.				Long: W 107.832 deg. OR W -108 deg. 10 min. 5.059 secs.			
Contractor: H&P			Rig/Platform Name/Num: H&P 319				
Job Purpose: Cement Intermediate Casing						Ticket Amount:	
Well Type: Development Well			Job Type: Cement Intermediate Casing				
Sales Person: PRUETT, BRADLEY			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	
Arrive at Location from Other Job or Site	10/12/2013 18:30							RIG CIRCULATING, 1800 SCFM THROUGH PARASITE STRING
Assessment Of Location Safety Meeting	10/12/2013 18:50							ATTENDED BY ALL HES CREW
Other	10/12/2013 19:00							SPOT EQUIPMENT
Pre-Rig Up Safety Meeting	10/12/2013 19:10							ATTENDED BY ALL HES CREW
Rig-Up Equipment	10/12/2013 19:20							
Pre-Job Safety Meeting	10/12/2013 21:00							ATTENDED BY ALL HES CREW, RIG CREW AND COMPANY REP
Start Job	10/12/2013 21:46							TP 12027', TD 12072', SJ 90', FC 11937', MW 9 PPG, CASING 7", 26#, P-110, HOLE 8.75", SURFACE CASING 9.625", 36# SET AT 2313', RIG CIRCULATED FOR 4.5 HR'S PRIOR TO JOB AT 8 BPM, PLUGS SUPPLIED BY COMPANY REP
Other	10/12/2013 21:46		2	2			48.0	FILL LINES
Drop Bottom Plug	10/12/2013 21:46							PLUG LUANCHED
Test Lines	10/12/2013 21:48							PRESSURED UP TO 5403 PSI, PRESSURE HELD
Pump Spacer	10/12/2013 21:53		4	40			66.0	FRESH WATER, 670 SCFM THROUGH PARASITE STRING

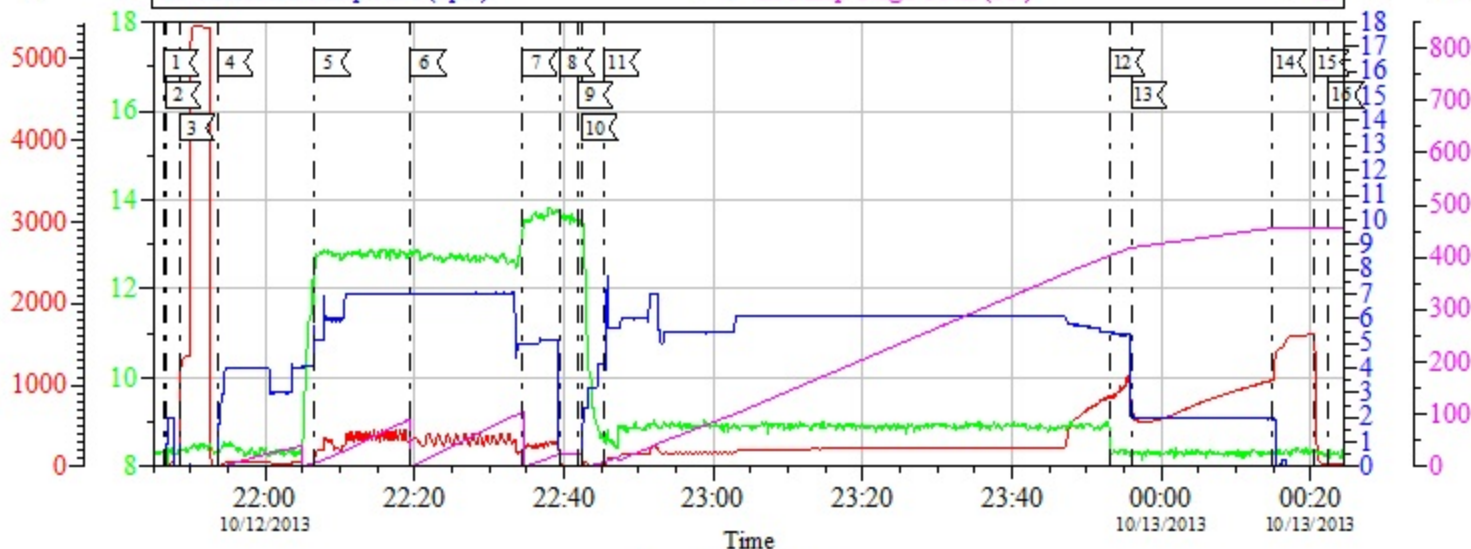
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Lead Cement	10/12/2013 22:06		7	79.6			355.0	260 SKS ECONOCCEM MIXED AT 12.7 PPG, 1.72 YIELD, 8.2 GL/SK, 670 SCFM THROUGH PARASITE STRING
Pump Lead Cement	10/12/2013 22:19		7	94			355.0	260 SKS EXPANDACEM MIXED AT 12.7 P-G, 2.03 YIELD, 9.8 GL/SK, 670 SCFM THROUGH PARASITE STRING
Pump Tail Cement	10/12/2013 22:34		5	21.3			270.0	70 SKS EXPANDACEM MIXED AT 13.5 PPG, 1.71 YIELD, 7.45 GL/SK, 670 SCFM THROUGH PARASITE STRING
Shutdown	10/12/2013 22:39							AIR THROUGH PARASITE STRING BYPASSED
Drop Top Plug	10/12/2013 22:41							PLUG LAUNCHED
Pump Displacement	10/12/2013 22:42		4	10			25.0	FRESH WATER, 760 SCFM THROUGH PARASITE STRING
Pump Displacement	10/12/2013 22:45		6	410			850.0	MUD AT 9 PPG, 760 SCFM THROUGH PARASITE STRING
Pump Displacement	10/12/2013 23:53		6	6			1050.0	FRESH WATER, 600 SCFM THROUGH PARASITE STRING
Slow Rate	10/12/2013 23:56		2	30			1040.0	FRESH WATER
Bump Plug	10/13/2013 00:14						1620.0	PLUG LANDED, AIR THROUGH PARASITE STRING SHUT OFF
Check Floats	10/13/2013 00:20							FLOATS HELD
End Job	10/13/2013 00:22							GOOD CIRCULATION THROUGH OUT JOB, PIPE NOT MOVED DURING JOB, 0 BBLS CEMENT TO SURFACE
Post-Job Safety Meeting (Pre Rig-Down)	10/13/2013 00:30							ATTENDED BY ALL HES CREW
Rig-Down Equipment	10/13/2013 00:45							
Depart Location Safety Meeting	10/13/2013 01:50							ATTENDED BY ALL HES CREW

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Crew Leave Location	10/13/2013 02:00							THANK YOU FOR USING HALLIBURTON CEMENT, ERIC CARTER AND CREW.

BLACK DIAMOND - TPR 112-6

7" INTERMEDIATE

S1 Pass-Side Pump Pressure (psi) — A
 S1 Downhole Density (lb/gal) — B
 S1 Combined Pump Rate (bpm) — C
 S1 Pump Stage Total (bbl) — D



Local Event Log

1	START JOB	10/12/2013 21:46:22	2	FILL LINES	10/12/2013 21:46:40
3	TEST LINES	10/12/2013 21:48:35	4	PUMP SPACER	10/12/2013 21:53:44
5	PUMP LEAD CEMENT	10/12/2013 22:06:39	6	PUMP LEAD CEMENT	10/12/2013 22:19:31
7	PUMP TAIL CEMENT	10/12/2013 22:34:30	8	SHUTDOWN	10/12/2013 22:39:22
9	DROP TOP PLUG	10/12/2013 22:41:51	10	PUMP DISPLACEMENT	10/12/2013 22:42:30
11	PUMP DISPLACEMENT	10/12/2013 22:45:26	12	PUMP DISPLACEMENT	10/12/2013 23:53:04
13	SLOW RATE	10/12/2013 23:56:00	14	BUMP PLUG	10/13/2013 00:14:47
15	CHECK FLAOTS	10/13/2013 00:20:29	16	END JOB	10/13/2013 00:22:22

Customer: BLACK DIAMOND MINERALS LLC
 Well Description: TRP 112-6
 Company Rep: JAMES BRUMLEY

Job Date: 12-Oct-2013
 Job Type: INTERMEDIATE
 Service Supervisor: ERIC CARTER

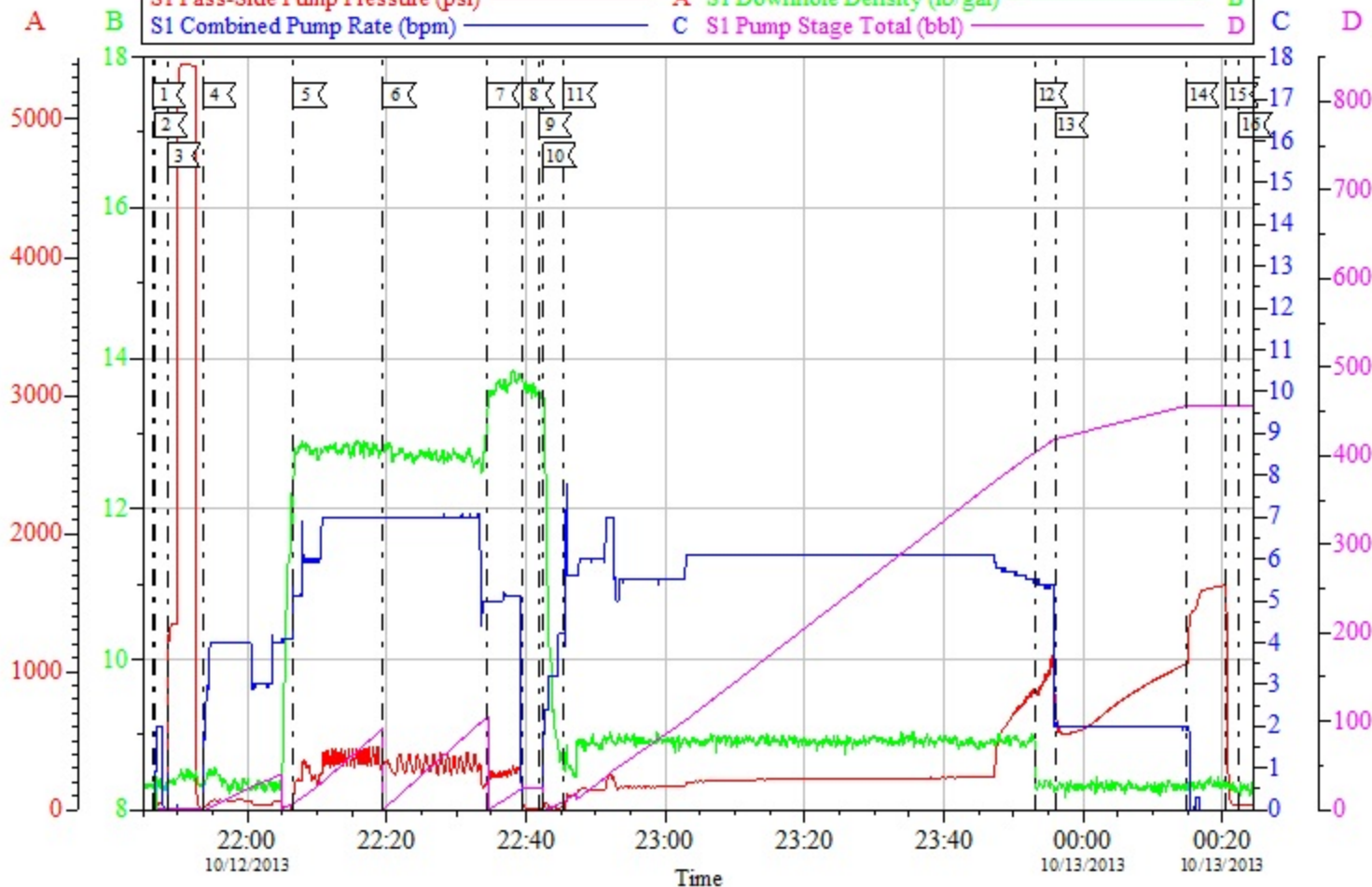
Sales Order #: 900811450
 ADC Used: YES
 Elite# Operator: 3/ROB EICKHOFF

OptiCem v6.4.10
 13-Oct-13 01:07

BLACK DIAMOND - TPR 112-6

7" INTERMEDIATE

S1 Pass-Side Pump Pressure (psi) — A S1 Downhole Density (lb/gal) — B
 S1 Combined Pump Rate (bpm) — C S1 Pump Stage Total (bbl) — D



Customer: BLACK DIAMOND MINERALS LLC
 Well Description: TRP 112-6
 Company Rep: JAMES BRUMLEY

Job Date: 12-Oct-2013
 Job Type: INTERMEDIATE
 Service Supervisor: ERIC CARTER

Sales Order #: 900811450
 ADC Used: YES
 Elite# Operator: 3/ROB EICKHOFF

OptiCem v6.4.10
 13-Oct-13 01:08

HALLIBURTON

Water Analysis Report

Company: BLACK DIAMOND

Submitted by: ERIC CARTER

Attention: J.Trout

Lease H+P 319

Well # TRP 112-6

Date: 11/2/2013

Date Rec.: 11/2/2013

S.O.# 900811450

Job Type: INTERMEDIATE

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	7
Potassium (K)	<i>5000</i>	1000 Mg / L
Hrdness	<i>500</i>	250 Mg / L
Iron (FE2)	<i>300</i>	10 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		OR 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 it

Sales Order #: 900811450	Line Item: 10	Survey Conducted Date: 10/13/2013
Customer: BLACK DIAMOND MINERALS LLC		Job Type (BOM): CMT INTERMEDIATE CASING BOM
Customer Representative: JAMES BRUMELY		API / UWI: (leave blank if unknown) 05-045-16951
Well Name: TRP		Well Number: 112-6
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	10/13/2013
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	JAMES BRUMELY
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

Sales Order #: 900811450	Line Item: 10	Survey Conducted Date: 10/13/2013
Customer: BLACK DIAMOND MINERALS LLC		Job Type (BOM): CMT INTERMEDIATE CASING BOM
Customer Representative: JAMES BRUMELY		API / UWI: (leave blank if unknown) 05-045-16951
Well Name: TRP		Well Number: 112-6
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	10/13/2013
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)	7
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)	5
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

Sales Order #: 900811450	Line Item: 10	Survey Conducted Date: 10/13/2013
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Customer Representative: JAMES BRUMELY		API / UWI: (leave blank if unknown) 05-045-16951
Well Name: TRP		Well Number: 112-6
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?	None
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