

HALLIBURTON

MINERAL RESOURCES INC

Island Grove 2-32

Weld County , Colorado

Cement Surface Casing

Job Site Documents

The Road to Excellence Starts with Safety

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Sold To #: 345252	Ship To #: 2925111	Quote #:	Sales Order #: 9488076
Customer: MINERAL RESOURCES INC		Customer Rep: Benge, Red	
Well Name: Island Grove		Well #: 2-32	API/UWI #: 05-123-35463
Field:	City (SAP): GREELEY	County/Parish: Weld	State: Colorado
Contractor: Ensign		Rig/Platform Name/Num: 14	
Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: FLING, MATTHEW		Srv Supervisor: FANTASIA, JOSEPH	MBU ID Emp #: 485445

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BOETTIGER, MARK Anthony	17.0	500519	BULINSKI, MATTHEW J	17.0	483865	FANTASIA, JOSEPH Brandon	17.0	485445
HELMICK, MATTHEW James	17.0	507553	LANGE, TIMOTHY Paul	17.0	520811	SEALE, ANDREW W	17.0	511496

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
11036295C	32 mile	11036301	32 mile	11064046C	32 mile	11142998	32 mile
11410470C	32 mile						

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
5-2-2012	5.5	0	5-3-2012	11.5	4			
TOTAL	Total is the sum of each column separately							

Job

Job Times

Formation Name					Date				Time	Time Zone
Formation Depth (MD)	Top		Bottom		Called Out	02 - May - 2012	15:00	MST		
Form Type	BHST				On Location	02 - May - 2012	18:30	MST		
Job depth MD	1575. ft		Job Depth TVD	1575. ft	Job Started	03 - May - 2012	08:10	MST		
Water Depth	Wk Ht Above Floor				Job Completed	03 - May - 2012	10:00	MST		
Perforation Depth (MD)	From		To		Departed Loc	03 - May - 2012	11:30	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
Open Hole				13.5				.	1575.		
Surface Casing	Unknown		9.625	8.921	36.		J-55	.	1575.		

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		

Stage/Plug #: 1

Cementing Job Summary

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	Fresh Water Spacer		30.00	bbl	8.33	.0	.0	.0	
2	SwiftCem B2	SWIFTCM (TM) SYSTEM (452990)	410.0	sacks	12.	2.42	14.36		14.36
	14.36 Gal	FRESH WATER							
3	SwiftCem B2	SWIFTCM (TM) SYSTEM (452990)	240.0	sacks	13.	1.9	10.47		10.47
	10.47 Gal	FRESH WATER							
Calculated Values		Pressures		Volumes					
Displacement		Shut In: Instant		Lost Returns	0	Cement Slurry	257	Pad	
Top Of Cement		5 Min		Cement Returns	100	Actual Displacement	120	Treatment	
Frac Gradient		15 Min		Spacers	30	Load and Breakdown		Total Job	407
Rates									
Circulating	5	Mixing	5	Displacement	5	Avg. Job	5		
Cement Left In Pipe	Amount	45 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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Customer: MINERAL RESOURCES INC				Customer Rep: Bengé, Red			
Well Name: Island Grove			Well #: 2-32		API/UWI #: 05-123-35463		
Field:		City (SAP): GREELEY		County/Parish: Weld		State: Colorado	
Legal Description:							
Lat: N 0 deg. OR N 0 deg. 0 min. 0 secs.				Long: E 0 deg. OR E 0 deg. 0 min. 0 secs.			
Contractor: Ensign			Rig/Platform Name/Num: 14				
Job Purpose: Cement Surface Casing						Ticket Amount:	
Well Type: Development Well			Job Type: Cement Surface Casing				
Sales Person: FLING, MATTHEW			Srv Supervisor: FANTASIA, JOSEPH			MBU ID Emp #: 485445	

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Arrive at Location from Service Center	05/02/2012 18:30							
Assessment Of Location Safety Meeting	05/02/2012 19:00							
Start Job	05/03/2012 08:00							
Test Lines	05/03/2012 08:12							PRESSURE TEST LINES TO 2000 PSI
Pump Spacer 1	05/03/2012 08:13		5	30			106.0	30 BBLS WATER WITH 2 # RED DYE TRACER ADDED TO LAST 10 BBLS.
Pump Lead Cement	05/03/2012 08:25		6	176			113.0	410 SKS SWIFTCM MIXED AT 12 PPG USING RIG WATER.
Pump Tail Cement	05/03/2012 09:02		6	81			120.0	240 SKS SWIFTCM MIXED AT 13 PPG USING RIG WATER.
Shutdown	05/03/2012 09:18							
Drop Top Plug	05/03/2012 09:23							PLUG PRELOADED
Pump Displacement	05/03/2012 09:24		6	120			90.0	GOOD RETURNS THROUGHOUT. CEMENT TO SURFACE AT 20 BBLS INTO DISPLACEMENT. APPROX 100 BBLS CEMENT TO SURFACE.
Bump Plug	05/03/2012 09:53		3				401.0	PLUG LANDED AT 401 PSI AND PRESSURE HELD AT 700 PSI FOR 3 MIN. PRESSURE RELEASED AND WELL SHUT IN.

HALLIBURTON

Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Check Floats	05/03/2012 09:56							FLOATS HELD
End Job	05/03/2012 10:00							

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Quote # :

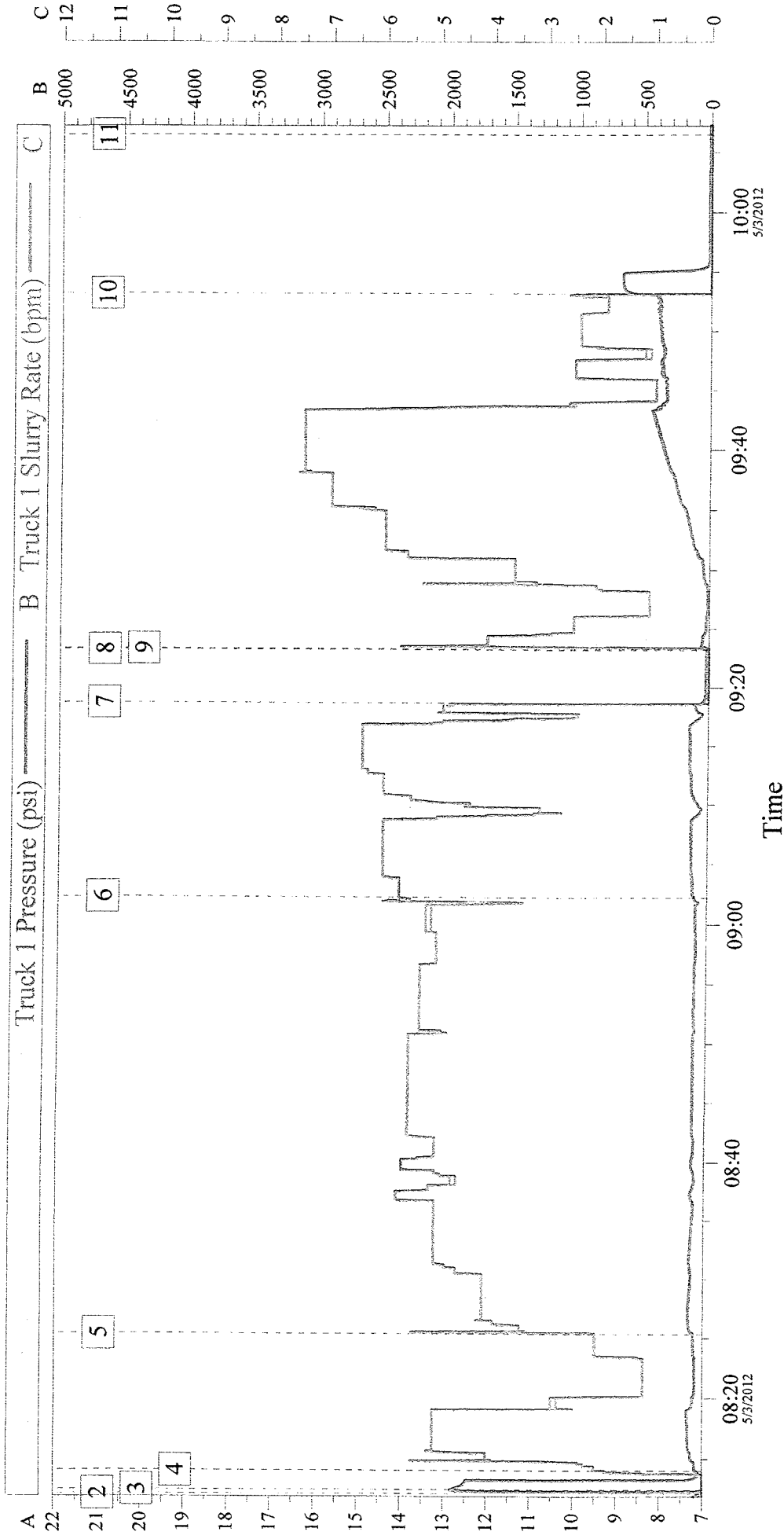
Sales Order # :

9488076

SUMMIT Version: 7.3.0021

Thursday, May 03, 2012 10:20:00

MINERAL RESOURCES ISLAND AND GROVE 2-32 SURFACE



Global Event Log

1 Starting Job	07:37:51	2 Start Job	08:12:04	3 Test Lines	08:12:24
4 Pump Spacer 1	08:13:59	5 Pump Lead Cement	08:25:19	6 Pump Tail Cement	09:02:13
7 Shutdown	09:18:37	8 Drop Top Plug	09:23:10	9 Pump Displacement	09:23:13
10 Bump Plug	09:53:09	11 End Job	10:06:28	12 Ending Job	10:07:51

Customer: MINERAL RESOURCES Job Date: 03-May-2012 Sales Order #: 9488076

Well Description: 9.625" SURFACE UWI: