
MINERAL RESOURCES INC

Poudre Trail 5 #2-2-1

Weld County , Colorado

Cement Production Casing
30-May-2012

Job Site Documents

The Road to Excellence Starts with Safety

Sold To #: 345252	Ship To #: 2929946	Quote #:	Sales Order #: 9550516
Customer: MINERAL RESOURCES INC		Customer Rep: WEITZEL, CRAIG	
Well Name: Poudre Trail		Well #: 5 #2-2-1	API/UWI #: 05-123-35501
Field:	City (SAP): GREELEY	County/Parish: Weld	State: Colorado
Lat: N 40.431 deg. OR N 40 deg. 25 min. 50.736 secs.		Long: W 104.739 deg. OR W -105 deg. 15 min. 38.628 secs.	
Contractor: Ensign		Rig/Platform Name/Num: 14	
Job Purpose: Cement Production Casing			
Well Type: Development Well		Job Type: Cement Production Casing	
Sales Person: FLING, MATTHEW		Srv Supervisor: NIELSON, BRANDON	MBU ID Emp #: 479703

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
EDWARDS, HEATH	8.0	522592	HOLLOWAY, DUSTIN Craig	8.0	504032	LINEBARGER, JOSHUA W	8.0	419614
MILLER, GEOFFREY Alan	8.0	460232	NIELSON, BRANDON K	8.0	479703	SMITH, AARON David	8.0	518187

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10679720C	34 mile	10824253C	34 mile	10857012C	34 mile	10867415	34 mile
10951212	34 mile	11562562	34 mile	11606994	34 mile		

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
5/29/12	5	0	5/30/12	3.5	1.5			

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	29 - May - 2012	16:45	MST
Form Type	BHST			On Location	29 - May - 2012	19:30	MST
Job depth MD	7811. ft	Job Depth TVD	7811. ft	Job Started	30 - May - 2012	01:05	MST
Water Depth		Wk Ht Above Floor	5. ft	Job Completed	30 - May - 2012	02:30	MST
Perforation Depth (MD)	From	To		Departed Loc	30 - May - 2012	03:30	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 Section				7.875				481.	7811.		
4 1/2" Production Casing	Mixed		4.5	4.	11.6			.	7800.		
8 5/8" Surface Casing	Unknown		8.625	8.097	24.			.	481.		

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

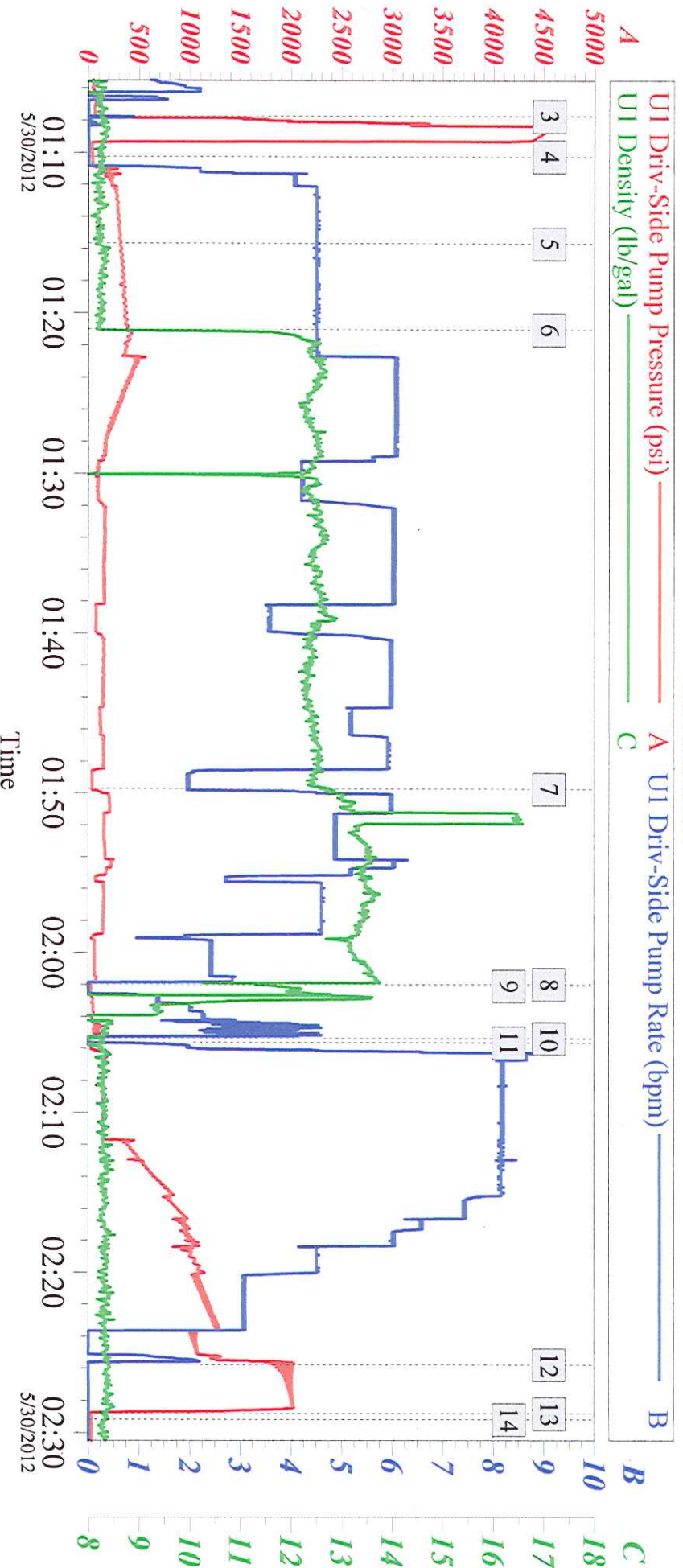
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	MUD FLUSH III	MUD FLUSH III - SBM (528788)	24.00	bbl	8.4	.0	.0	.0	
2	EconoCem B3	ECONOCHEM (TM) SYSTEM (452992)	480.0	sacks	12.5	1.97	10.7		10.7
		10.7 Gal	FRESH WATER						
3	FracCem B2	FRACCHEM (TM) SYSTEM (452963)	160.0	sacks	13.5	1.74	8.29		8.29
		8.29 Gal	FRESH WATER						
Calculated Values		Pressures		Volumes					
Displacement		Shut In: Instant		Lost Returns	0	Cement Slurry		Pad	
Top Of Cement		5 Min		Cement Returns	0	Actual Displacement		Treatment	
Frac Gradient		15 Min		Spacers	0	Load and Breakdown		Total Job	
Rates									
Circulating		Mixing		Displacement		Avg. Job			
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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Well Type: Development Well		Job Type: Cement Production Casing	
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Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Test Lines	05/30/2012 01:07							PRESSURE TEST TO 3500 PSI NO VISIBLE LEAKS
Pump Spacer 1	05/30/2012 01:10		5	20			350.0	RIG WATER
Pump Spacer 2	05/30/2012 01:15		5	24			350.0	RIG WATER MIXED WITH MUD FLUSH
Pump Lead Cement	05/30/2012 01:21		6	168.4			165.0	480 SKS ECONOCCEM MIXED @ 12.5 PPG WITH RIG WATER
Pump Tail Cement	05/30/2012 01:49		6	49.5			167.0	160 SKS FRACCCEM MIXED @ 13.5 PPG WITH RIG WATER
Shutdown	05/30/2012 02:01							
Clean Lines	05/30/2012 02:02							
Drop Top Plug	05/30/2012 02:05							PLUG PRE LOADED WITNESSED BY COMPANY REP
Pump Displacement	05/30/2012 02:05		6	120.6			670.0	RIG WATER MIXED WITH CLAWEB
Bump Plug	05/30/2012 02:25		3				1311.0	CALCULATED PRESSURE TO LAND WAS 1295 PSI
Check Floats	05/30/2012 02:28						1998.0	FLOATS HELD
End Job	05/30/2012 02:29							

MINERAL RESOURCES
POUDRE TRAIL 5 #2-2-1
 4.5 PRODUCTION



Global Event Log

Intersection			Intersection			Intersection					
UDPP			UDPP			UDPP					
1	Starting Job	00:36:44	34.03	2	Start Job	01:05:23	39.86	3	Test Lines	01:07:42	61.25
4	Pump Spacer 1	01:10:14	38.89	5	Pump Spacer 2	01:15:39	318.9	6	Pump Lead Cement	01:21:01	381.1
7	Pump Tail Cement	01:49:42	40.84	8	Shutdown	02:01:57	25.28	9	Clean Lines	02:02:03	26.25
10	Drop Top Plug	02:05:20	24.31	11	Pump Displacement	02:05:37	23.33	12	Bump Plug	02:25:46	1827
13	Other	02:28:49	26.25	14	End Job	02:29:12	28.20	15	Ending Job	02:40:05	32.08

Customer:
Well Description:

Job Date: 30-May-2012
UWI:

Sales Order #: 9550516