

HALLIBURTON

WILLIAMS PRODUCTION RMT INC - EBUS

**GM 322-26
GRAND VALLEY
Garfield County , Colorado**

Cement Surface Casing

24-Aug-2011

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	Water Spacer		20.00	bbl	8.34	.0	.0	6	
2	Lead Cement	VERSACEM (TM) SYSTEM (452010)	200.0	sacks	12.3	2.38	13.75	8	13.75
3	Tail Cement	VERSACEM (TM) SYSTEM (452010)	160.0	sacks	12.8	2.11	11.75	8	11.75
4	Displacement Fluid		103.2	bbl	8.34	.0	.0	10	
Calculated Values		Pressures		Volumes					
Displacement	103.2	Shut In: Instant		Lost Returns	NONE	Cement Slurry	144.9	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	20	Actual Displacement	103.2	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	233.5
Rates									
Circulating	RIG	Mixing	8	Displacement	10	Avg. Job	9		
Cement Left In Pipe	Amount	42.69 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					

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 2870100	Quote #:	Sales Order #: 8371141
Customer: WILLIAMS PRODUCTION RMT INC - EBUS		Customer Rep: Olsen, Mike	
Well Name: GM	Well #: 322-26	API/UWI #: 05-045-20221	
Field: GRAND VALLEY	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat: N 39.5 deg. OR N 39 deg. 29 min. 58.801 secs.		Long: W 108.088 deg. OR W -109 deg. 54 min. 44.194 secs.	
Contractor: H&P 280		Rig/Platform Name/Num: H&P 280	
Job Purpose: Cement Surface Casing			Ticket Amount:
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: KOHL, KYLE		Srvc Supervisor: ERIC CARTER	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	08/23/2011 23:30							RIG PERFORMING WIPER TRIP
Assessment Of Location Safety Meeting	08/23/2011 23:40							ATTENDED BY ALL HES CREW
Other	08/24/2011 05:20							SPOT EQUIPMENT
Pre-Rig Up Safety Meeting	08/24/2011 05:30							ATTENDED BY ALL HES CREW
Rig-Up Equipment	08/24/2011 05:40							
Pre-Job Safety Meeting	08/24/2011 06:20							ATTENDED BY ALL HES CREW, RIG CREW AND COMPANY REP
Start Job	08/24/2011 06:39							TP 1353.82', TD 1398', SJ 42.69', FC 1311.13', MW 10.2 PPG, CASING 9.625", 32.3#, H-40, HOLE 13.5"
Other	08/24/2011 06:39		2	2			80.0	FILL LINES
Test Lines	08/24/2011 06:40							PRESSURED UP TO 2410 PSI, PRESSURE HELD
Pump Spacer 1	08/24/2011 06:43		6	20			222.0	FRESH WATER
Pump Lead Cement	08/24/2011 06:50		8	84.8			400.0	200 SKS MIXED AT 12.3 PPG, 2.38 YIELD, 13.75 GL/SK
Pump Tail Cement	08/24/2011 07:02		8	60.1			370.0	160 SKS MIXED AT 12.8 PPG, 2.11 YIELD, 11.75 GL/SK
Shutdown	08/24/2011 07:11							
Drop Top Plug	08/24/2011 07:14							COMPANY REP VERIFIED THAT PLUG LAUNCHED

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Displacement	08/24/2011 07:14		10	93.2			615.0	FRESH WATER, WASHED UP ON TOP OF PLUG AT COMPANY REP'S REQUEST
Slow Rate	08/24/2011 07:26		2	10			290.0	
Bump Plug	08/24/2011 07:31						702.0	PLUG LANDED
Check Floats	08/24/2011 07:36							FLOATS HELD
End Job	08/24/2011 07:37							GOOD CIRCULATION THROUGH OUT JOB, TRACE OF CEMENT AT 60 BBLs DISPLACEMENT, 20 BBLs GOOD CEMENT TO SURFACE, PIPE WAS NOT MOVED DURING JOB
Post-Job Safety Meeting (Pre Rig-Down)	08/24/2011 07:40							ATTENDED BY ALL HES CREW
Rig-Down Equipment	08/24/2011 07:45							
Depart Location Safety Meeting	08/24/2011 08:20							ATTENDED BY ALL HES CREW
Crew Leave Location	08/24/2011 08:30							THANK YOU FOR USING HALLIBURTON CEMENT, ERIC CARTER AND CREW.