

**HALLIBURTON**

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**WILLIAMS PRODUCTION RMT INC - EBUS**

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**KP 31-17  
KOKOPELLI  
Garfield County , Colorado**

**Cement Surface Casing**

**31-Dec-2011**

**Post Job Report**

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 2896805	Quote #:	Sales Order #: 9133480
Customer: WILLIAMS PRODUCTION RMT INC - EBUS		Customer Rep: Mulherin, Seth	
Well Name: KP	Well #: 31-17	API/UWI #: 05-045-21135	
Field: KOKOPELLI	City (SAP): SILT	County/Parish: Garfield	State: Colorado
Lat: N 39.536 deg. OR N 39 deg. 32 min. 7.865 secs.		Long: W 107.579 deg. OR W -108 deg. 25 min. 14.351 secs.	
Contractor: NABORS 574	Rig/Platform Name/Num: NABORS 574		
Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: MAYO, MARK		Srcv Supervisor: SLAUGHTER, JESSE MBU ID Emp #: 454315	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
DOUT, JACOB J	6.5	430298	KUKUS, CHRISTOPHER A	6.5	413952	PRUETT, BRADLEY A	6.5	475748
ROMKEE, DALE Alan	6.5	488215	SLAUGHTER, JESSE Dean	6.5	454315			

Equipment

HES Unit #	Distance-1 way						
10297346	60 mile	10567589C	60 mile	10784080	60 mile	10804579	60 mile
10995027	60 mile	11027039	60 mile	11583931	60 mile		

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
12-30-2011	3	0	12-31-2011	3.5	3			

TOTAL Total is the sum of each column separately

Job

Job Times

Formation Name	Formation Depth (MD)	Top	Bottom	Called Out	Date	Time	Time Zone
Form Type	Job depth MD	1290. ft	Job Depth TVD	1290. ft	Job Started	31 - Dec - 2011	01:07
Water Depth	Perforation Depth (MD)	From	To	Job Completed	31 - Dec - 2011	20:00	MST
				Departed Loc	31 - Dec - 2011	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
OPEN HOLE				13.5					1305.		
SURFACE CASING	Unknown		9.625	9.001	32.3				1290.		

Sales/Rental/3<sup>rd</sup> Party (HES)

Description	Qty	Qty uom	Depth	Supplier
PLUG,CMTG, TOP, 9 5/8, HWE, 8.16 MIN/9.06 MA	1	EA		

Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug	9.625	1	HES
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container	9.625	1	HES
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
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Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Water Spacer	FRESH WATER	20.00	bbl	8.33	.0	.0	4	
2	Lead Cement	VERSACEM (TM) SYSTEM (452010)	190.0	sacks	12.3	2.38	13.75	8	13.75
		13.75 Gal FRESH WATER							
3	Tail Cement	VERSACEM (TM) SYSTEM (452010)	160.0	sacks	12.8	2.11	11.75	8	11.75
		11.75 Gal FRESH WATER							
4	Displacement Fluid	FRESH WATER	98.3	bbl	8.33	.0	.0	10	
Calculated Values		Pressures			Volumes				
Displacement	98.3	Shut In: Instant		Lost Returns	NO	Cement Slurry	140.7	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	28	Actual Displacement	98.3	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	259
Rates									
Circulating		Mixing	8	Displacement	10	Avg. Job	9.5		
Cement Left In Pipe	Amount	41.1 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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Field: KOKOPELLI	City (SAP): SILT	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat: N 39.536 deg. OR N 39 deg. 32 min. 7.865 secs.		Long: W 107.579 deg. OR W -108 deg. 25 min. 14.351 secs.	
Contractor: NABORS 574		Rig/Platform Name/Num: NABORS 574	
Job Purpose: Cement Surface Casing			Ticket Amount:
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: MAYO, MARK		Srvc Supervisor: SLAUGHTER, JESSE MBU ID Emp #: 454315	

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	12/30/2011 16:00							TD 1305 FT, TP 1290 FT, SHOE 41.15 FT, CSG 9 5/8 IN 32.3 LB/FT, HOLE 13 1/2 IN, MUD WT 9.8 PPG
Pre-Convoy Safety Meeting	12/30/2011 18:20							WITH ALL HES PERSONNEL
Crew Leave Yard	12/30/2011 18:30							
Arrive At Loc	12/30/2011 21:00							RIG WAS RUNNING CASING UPON HES ARRIVAL
Assessment Of Location Safety Meeting	12/30/2011 23:00							WITH ALL HES PERSONNEL
Other	12/30/2011 23:10							SPOT EQUIPMENT
Pre-Rig Up Safety Meeting	12/30/2011 23:20							WITH ALL HES PERSONNEL
Rig-Up Equipment	12/30/2011 23:30							
Pre-Job Safety Meeting	12/31/2011 01:00							WITH ALL PERSONNEL ON LOCATION
Start Job	12/31/2011 01:07							
Other	12/31/2011 01:08		2	2			42.0	FILL LINES WITH FRESH WATER
Test Lines	12/31/2011 01:09							TESTED LINES TO 3100 PSI PRESSURE HOLDING
Pump Spacer 1	12/31/2011 01:14		4	20			120.0	FRESH WATER
Pump Lead Cement	12/31/2011 01:23		8	80.5			375.0	190 SKS AT 12.8 PPG, 2.38 FT3/SK, 13.75 GAL/SK

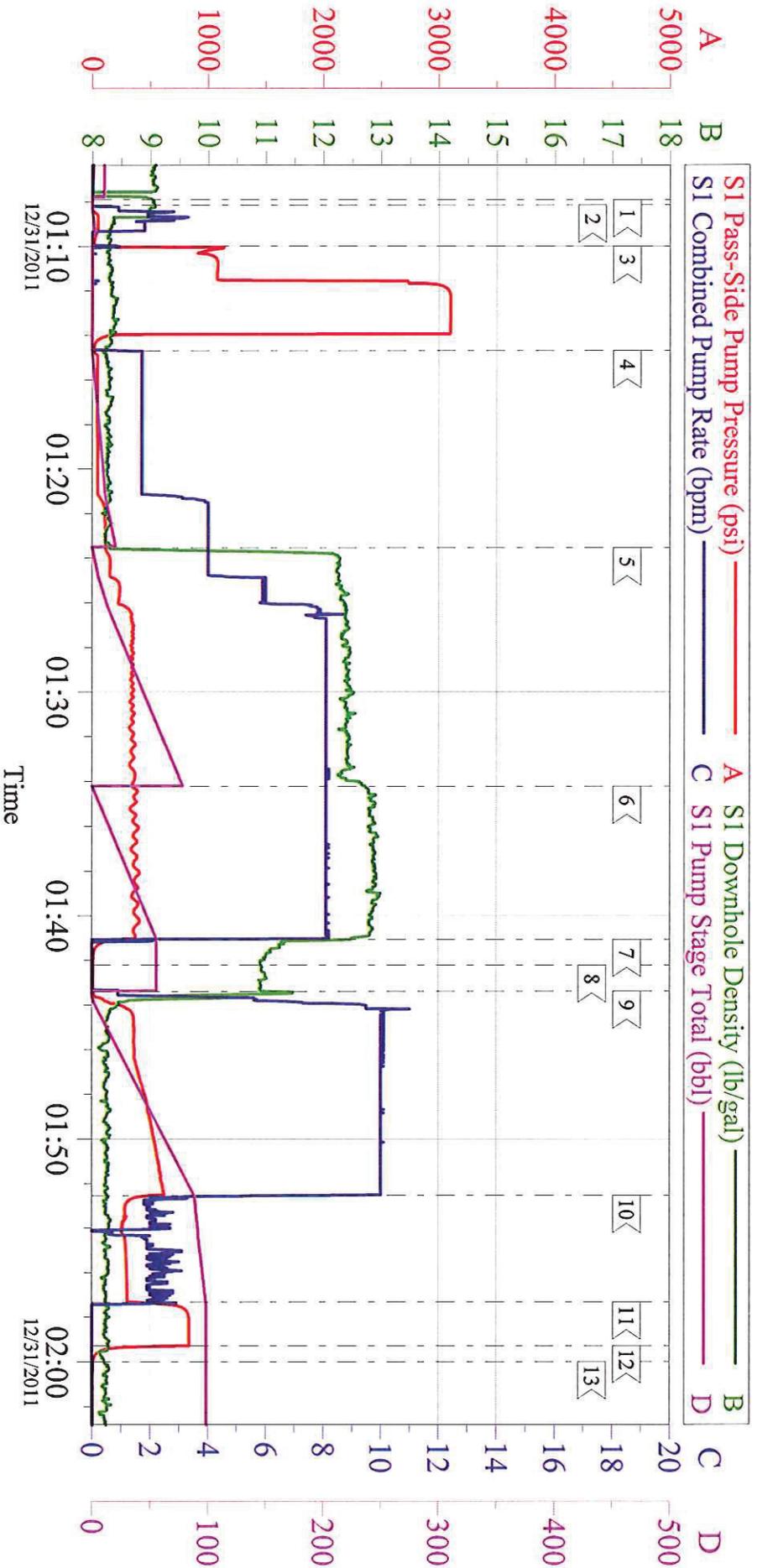
Activity Description	Date/Time	Cht	Rate bbl/min	Volume bbl	Pressure psig	Comments
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Sold To #: 300721      Ship To #: 2896805      Quote #:      Sales Order #: 9133480

		#		Stage	Total	Tubing	Casing	
Pump Tail Cement	12/31/2011 01:34		8	60.1			350.0	160 SKS AT 12.8 PPG, 2.11 FT3/SK, 11.75 GAL/SK
Shutdown	12/31/2011 01:41							
Drop Top Plug	12/31/2011 01:42							PLUG LAUNCHED
Pump Displacement	12/31/2011 01:43		10	88.3			640.0	FRESH WATER
Slow Rate	12/31/2011 01:52		2	10			320.0	SLOW RATE 10 BBLs PRIOR TO CALCULATED DISPLACEMENT
Bump Plug	12/31/2011 01:57		2		98.3		841.0	PLUG BUMPED
Check Floats	12/31/2011 01:59							FLOATS HOLDING. HES RETURNED 1 BBL H2O TO PUMP
End Job	12/31/2011 02:00							PIPE WAS STATIC DURING JOB, GOOD CIRCULATION THROUGHOUT JOB, HES RETURNED 28 BBLs CEMENT TO SURFACE
Pre-Rig Down Safety Meeting	12/31/2011 02:05							WITH ALL HES PERSONNEL
Rig-Down Equipment	12/31/2011 02:10							
Pre-Convoy Safety Meeting	12/31/2011 03:20							WITH ALL HES PERSONNEL
Crew Leave Location	12/31/2011 03:30							
Comment	12/31/2011 03:31							THANK YOU FOR USING HALLIBURTON CEMENT DEPARTMENT. JESSE SLAUGHTER AND CREW.

# WILLIAMS KP 31-17

## 9 5/8 SURFACE



### Local Event Log

1	START JOB	01:07:54	2	FILL LINES	01:08:09	3	TEST LINES	01:09:59
4	PUMP H2O SPACER	01:14:42	5	PUMP LEAD CMT	01:23:32	6	PUMP TAIL CMT	01:34:13
7	SHUTDOWN	01:41:04	8	DROP PLUG	01:42:13	9	PUMP DISPLACEMENT	01:43:23
10	SLOW RATE	01:52:32	11	BUMP PLUG	01:57:19	12	CHECK FLOATS	01:59:17
13	END JOB	02:00:00						

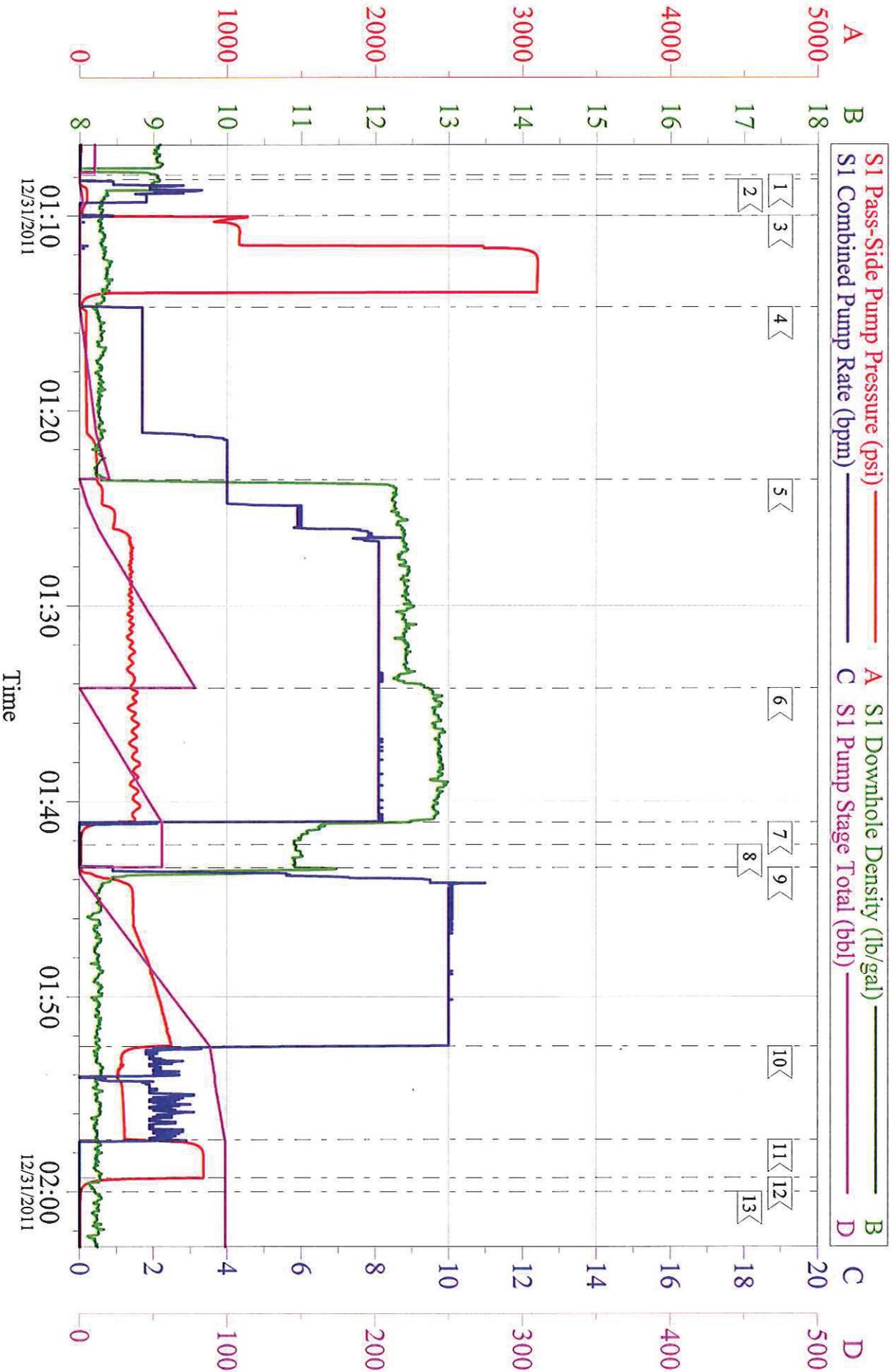
Customer: WILLIAMS  
 Well Description: KP 31-17  
 Customer Rep: SETH MULHERIN

Job Date: 30-Dec-2011  
 Job Type: SURFACE  
 Cement Supervisor: JESSE SLAUGHTER

Sales Order #: 9133480  
 ADC Used: YES  
 Elite #: JACOB DOUT

# WILLIAMS KP 31-17

## 9 5/8 SURFACE



<p>Customer: WILLIAMS          Well Description: KP 31-17          Customer Rep: SETH MULHERIN</p>	<p>Job Date: 30-Dec-2011          Job Type: SURFACE          Cement Supervisor: JESSE SLAUGHTER</p>
<p>Sales Order #: 9133480          ADC Used: YES          Elite #: JACOB DOUT</p>	<p>OptiCem v6.4.10          31-Dec-11 02:15</p>