

APOLLO OPERATING
1538 WAZEE ST #200
DENVER, Colorado

R&R Farms
R&R Farms 22-31D

Midcontinent/Midcontinent/1

Post Job Summary

Cement Production Casing

Date Prepared: 12/31/2012
Version: 1

Service Supervisor: VIGIL, NICHOLAS

Submitted by: MCKAY, ADAM

HALLIBURTON

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Wellbore Geometry

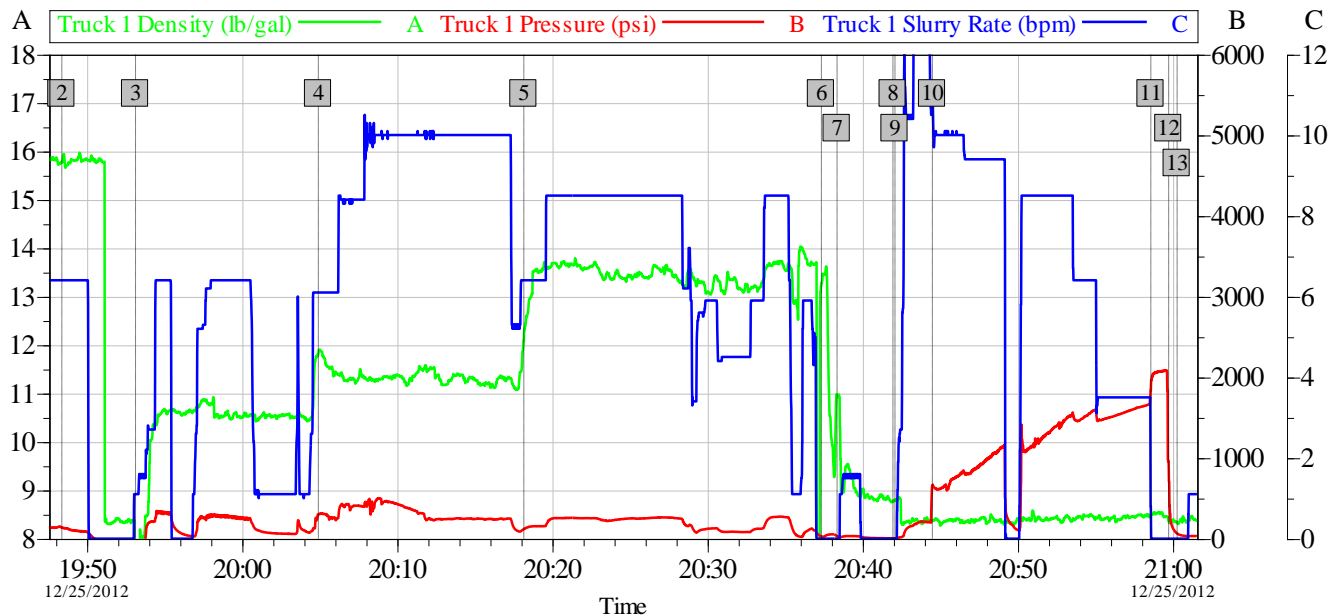
Job Tubulars					MD		Shoe Joint Length ft
Type	Description	Size in	ID in	Wt lbm/ft	Top ft	Bottom ft	
Casing	8 5/8" Surface Casing	8.63	8.097	24.00	0.00	686.00	
Open Hole Section	7 7/8" Open Hole Section		7.875		686.00	7,200.00	
Casing	4 1/2" Production Casing	4.50	4.000	11.60	0.00	7,190.00	15.77

Pumping Schedule

Stage /Plug #	Fluid #	Fluid Type	Fluid Name	Surface Density lbm/gal	Avg Rate bbl/min	Surface Volume	Downhole Volume
1	1	Spacer	Clean Spacer III	10.50	6.00	30.0 bbl	30.0 bbl
1	2	Cement Slurry	EXTENDACEM B1	11.30	10.0	300.0 sacks	300.0 sacks
1	3	Cement Slurry	FracCem B3	13.50	8.00	380.0 sacks	380.0 sacks

Data Acquisition

Apollo R&R Farms 22-31D 4.5 Production



Global Event Log

1 Starting Job	18:34:31	2 Start Job	19:48:23	3 10.5 ppg Clean Spacer	19:53:08
4 11.3 ppg ExtendaCem	20:04:56	5 13.5 ppg FracCem	20:18:10	6 Shutdown	20:37:21
7 Clean Lines	20:38:22	8 Drop Top Plug	20:41:58	9 Pump Displacement	20:42:06
10 Displ Reached Cmmt	20:44:31	11 Bump Plug	20:58:36	12 Check Floats	20:59:44
13 End Job	21:00:17	14 Ending Job	21:05:50		

Customer:	Job Date: 25-Dec-2012	Sales Order #: 900098363
Well Description:	UWI:	

OptiCem v6.4.10
25-Dec-12 21:11

Service Supervisor Reports

Job Log

Date/Time	Chart #	Activity Code	Pump Rate	Cum Vol	Pump		Pressure (psig)	Comments
12/25/2012 17:30		Arrive At Loc						WELL SITE ASSESMENT,HAZARD HUNT,WATER TEST,RIG UP SAFETY MEETING
12/25/2012 19:48		Start Job						PRE JOB SAFETY MEETING
12/25/2012 19:53		Pump Spacer 1	6.4	30			254.0	10.5 PPG CLEAN SPACER
12/25/2012 20:04		Pump Lead Cement	10	128			314.0	11.3 PPG EXTENDACEM (300 SKS)
12/25/2012 20:18		Pump Tail Cement	8.5	124.5			256.0	13.5 PPG FRACCEM (380 SKS)
12/25/2012 20:37		Shutdown						
12/25/2012 20:38		Clean Lines						
12/25/2012 20:41		Drop Top Plug						PLUG WAS PRE LOADED
12/25/2012 20:42		Pump Displacement	9.4	60			1061.0	
12/25/2012 20:58		Bump Plug	3.5	111.4			1664.0	CALCULATED PRESSURE TO LAND WAS 1367 PSI
12/25/2012 20:59		Check Floats						FLOATS HELD
12/25/2012 21:00		End Job						RIG DOWN SAFETY MEETING

The Road to Excellence Starts with Safety

Sold To #: 353960	Ship To #: UNKNOWN	Quote #:	Sales Order #: 900098363
Customer: APOLLO OPERATING		Customer Rep:	
Well Name: R&R Farms		Well #: 22-31D	API/UWI #: 05-123-36327
Field:	City (SAP): Kersey	County/Parish: Weld	State: Colorado
Lat: N 40.361 deg. OR N 40 deg. 21 min. 40.752 secs.		Long: W 104.481 deg. OR W -105 deg. 31 min. 7.248 secs.	
Contractor: Midcontinent		Rig/Platform Name/Num: Midcontinent 1	
Job Purpose: Cement Production Casing			
Well Type: Development Well		Job Type: Cement Production Casing	
Sales Person: AARON, WESLEY		Srvc Supervisor: VIGIL, NICHOLAS	MBU ID Emp #: 443481

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BANUELOS, GUADALUPE	0.0	372277	EDWARDS, MICHEAL H	0.0	522592	LANGE, TIMOTHY Paul	0.0	520811
Mayfield, Byron	0.0	528751	VIGIL, NICHOLAS Joseph	0.0	443481			

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
11036298	40 mile	11360865C	40 mile	11398490	40 mile	11562570C	40 mile
11764054C	40 mile	12010168	40 mile	5707C	40 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

Job

Job					Job Times			
Formation Name					Date	Time	Time Zone	
Formation Depth (MD)	Top		Bottom		Called Out	25 - Dec - 2012	11:00	MST
Form Type	BHST				On Location	25 - Dec - 2012	05:30	MST
Job depth MD	6783. ft				Job Started	25 - Dec - 2012	19:48	MST
Water Depth	Wk Ht Above Floor				Job Completed	25 - Dec - 2012	21:00	MST
Perforation Depth (MD)	From		To		Departed Loc	25 - Dec - 2012	22:00	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
7 7/8" Open Hole Section				7.875				686.	7200.		.
4 1/2" Production Casing	Unknown		4.5	4.	11.6			.	7190.		.
8 5/8" Surface Casing	Unknown		8.625	8.097	24.			.	686.		

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			
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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 ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Clean Spacer III		30.00	bbl	10.5				
2	EXTENDACEM B1	EXTENDACEM (TM) SYSTEM (452981)	300.0	sacks	11.3	2.4	13.79		13.79
	13.79 Gal	FRESH WATER							
3	FracCem B3	FRACCEM (TM) SYSTEM (452963)	380.0	sacks	13.5	1.84	8.67		8.67
	10 lbm	ENHANCER 923, BULK (101894003)							
	0.3 %	VERSASET, 55 LB SK (101376573)							
	5 %	SALT, 100 LB BAG (100003652)							
	8.67 Gal	FRESH WATER							

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	15.77 ft	Reason	Shoe Joint					
Frac Ring # 1 @	ID		Frac ring # 2 @	ID		Frac Ring # 3 @	ID		Frac Ring # 4 @

The Information Stated Herein Is Correct	Customer Representative Signature
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HALLIBURTON

Field Ticket Number: 900098363		Field Ticket Date: Tuesday, December 25, 2012	
Bill To: APOLLO OPERATING 1538 WAZEE ST #200 DENVER, CO 80202		Job Name: R & R Farms Order Type: Streamline Order (ZOH) Well Name: R&R Farms 22-31D Company Code: 1100 Customer PO No.: NA Shipping Point: Brighton, CO, USA Sales Office: Rocky Mountains BD Well Type: Gas Well Category: Development	
Ship To: APOLLO R&R FARMS 22-31D,WELD R&R FARMS 22-31D 2971399 S31 5N 63W KERSEY, CO 80644			

Material	Description	QTY	UOM	Base Amt	Unit Amt	Gross Amount	Discount	Net Amount
7523	CMT PRODUCTION CASING BOM	1	JOB	0.00	0.00	0.00		0.00
16091	ZI - PUMPING CHARGE	1	EA	0.00	9,081.00	9,081.00	61%	3,541.59
	DEPTH	7200						
	FEET/METERS (FT/M)		FT					
432904	CMT, ROCKIES SG SETUP	1	EA			12,168.00	47.81%	6,350.43
	NUMBER OF UNITS	1						
432905	CMT, ROCKIES SG MILEAGE	80	MI			1,315.20	57.7%	556.36
	Number of Units	1						
432906	CMT, ROCKIES SG DELIVERY	37.22	TNM			11,421.71	59.25%	4,654.26
	NUMBER OF TONS	37.22						
719269	SBM, CMT CleanSpacer III	30	BBL	0.00	279.25	8,377.50	61%	3,267.22
452981	EXTENDACEM (TM) SYSTEM	300	SK			15,180.75	61.0%	5,920.48
452963	FRACCEN (TM) SYSTEM	380	SK			20,249.19	61.0%	7,897.18
101894003	ENHANCER 923	3804	LB	0.00	1.05	3,994.20	61%	1,557.74
101376573	VERSASET	96	LB	0.00	12.12	1,163.52	61%	453.77
100003652	SALT,MORTON-PUREX-FINE	1560	LB	0.00	0.44	686.40	61%	267.70
				Totals	USD	83,637.47	49,170.74	34,466.73

Halliburton Rep: NICHOLAS VIGIL

Customer Agent:

Halliburton Approval

THIS OUTPUT DOES NOT INCLUDE TAXES. APPLICABLE SALES TAX WILL BE BILLED ON THE FINAL INVOICE.
 CUSTOMER HEREBY ACKNOWLEDGES RECEIPT OF THE MATERIALS AND SERVICES DESCRIBED ABOVE AND ON THE ATTACHED DOCUMENTS.

X	FIELD TICKET TOTAL: USD	34,466.73
_____ Customer Signature		
Was our HSE performance satisfactory? Y or N	Were you satisfied with our Equipment? Y or N	Were you satisfied with our people? Y or N
(Health, Safety, Environment)		
Comments		

