

HALLIBURTON

BLM

30-025-40044

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**DEVON ENERGY PROD CO LP-EBUSINESS**

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Trionyx 6 Fed 4H  
COTTON DRAW  
Lea County, New Mexico

HOBBS OCD

JUN 02 2014

RECEIVED

**Cement Multiple Stages**

22-Jan-2014

**Job Site Documents**

**Accepted for Record Only**

YMB/OCD 6-3-2014

JUN 03 2014

## The Road to Excellence Starts with Safety

<b>Sold To #:</b> 346244	<b>Ship To #:</b> 3114607	<b>Quote #:</b>	<b>Sales Order #:</b> 900922420
<b>Customer:</b> DEVON ENERGY PROD CO LP-EBUSINESS		<b>Customer Rep:</b> Gombar, David	
<b>Well Name:</b> Trionyx 6 Fed	<b>Well #:</b> 4H	<b>API/UWI #:</b> 30-025-40044 ✓	
<b>Field:</b> COTTON DRAW	<b>City (SAP):</b> JAL	<b>County/Parish:</b> Lea	<b>State:</b> New Mexico
<b>Legal Description:</b> Section 22 Township 18S Range 33E			
<b>Lat:</b> N 0 deg. OR N 0 deg. 0 min. 0 secs.		<b>Long:</b> E 0 deg. OR E 0 deg. 0 min. 0 secs.	
<b>Contractor:</b> Cactus Drilling	<b>Rig/Platform Name/Num:</b> Cactus Drilling #105		
<b>Job Purpose:</b> Cement Multiple Stages		<b>Ticket Amount:</b>	
<b>Well Type:</b> Development Well	<b>Job Type:</b> Cement Multiple Stages		
<b>Sales Person:</b> ROSBY, DAVID	<b>Srv Supervisor:</b> BELMUDEZ, JOHNNY	<b>MBU ID Emp #:</b> 448541	

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	01/22/2014 06:30							ALL TIMES IN MST.
Safety Meeting - Service Center or other Site	01/22/2014 09:45							DISCUSSED ROUTE AND HAZARDS ASSOCIATED WITH DRIVING.
Depart from Service Center or Other Site	01/22/2014 10:00							DEPARTED YARD DISPATCH AND ODESSA NOTIFIED.
Arrive At Loc	01/22/2014 12:01							ARRIVED ON LOCATION RIG RUNNING CASING.
Assessment Of Location Safety Meeting	01/22/2014 12:05							LOCATION WAS CONGESTED UPON ARRIVAL. NO ENTRY AVAILABLE TO SPOT IN EQUIPMENT DUE TO HOT WORK ON NORTH ENTRY AND BINS BEING LOADED ON SOUTH ENTRY. EQUIPMENT STAGED ON NEARBY PAD UNTIL FURTHER NOTICE.
Safety Meeting - Pre Rig-Up	01/22/2014 17:00							DISCUSSED HAZARDS ASSOCIATED WITH RIGGING UP, PINCH POINTS, TRIPPING HAZARDS, LINE OF FIRE, PPE AND COMMUNICATION.
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	

# HALLIBURTON

## Cementing Job Log

Rig-Up Equipment	01/22/2014 17:15							SPOTTED IN EQUIPMENT AND RIGGED UP IRON TO V-DOOR. RIG STILL RUNNING CASING. WILL WAIT UNTIL CASING CREW OUT OF WAY TO FINISH RIGGING UP IRON.
Casing on Bottom	01/22/2014 18:06							CASING ON BOTTOM. RIG TO RIG DOWN CASING CREW PRIOR TO HOISTING HALLIBURTON IRON TO RIG. FLOOR.
Pre-Job Safety Meeting	01/22/2014 20:45							DISCUSSED HAZARDS AND PROCEDURES ASSOCIATED WITH CEMENT JOB.
Start Job	01/22/2014 21:47							HEAD STABBED AND CHECKED EMPTY FOR JOB.
Test Lines	01/22/2014 21:52		1		3		5700.0	TESTED HALLIBURTON IRON TO 5000 AND PRESSURE DID NOT HOLD. SUPERVISOR TO TROUBLE SHOOT LEAK. LEAK FOUND AT 1 INCH VALVE TO PITS. VALVE CHANGED AND PRESSURE TESTED IRON TO 5100 PSI TEST HELD WITH NO LEAKS AT UNIONS.
Pump Spacer 1	01/22/2014 22:20		3		20		95.0	PUMPED 20 BBLS FRESH WATER SPACER WITH BLUE DYE AHEAD OF CEMENT PER CUSTOMER REQUEST. BLUE DYE PROVIDED BY CUSTOMER.
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	

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Quote # :

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SUMMIT Version: 7.3.0109

Thursday, January 23, 2014 11:19:00

# HALLIBURTON

## Cementing Job Log

Pump Lead Cement	01/22/2014 22:30		6.7		98		385.0	PUMPED 98 BBLS/280 SACKS ECONOCEM WITH 0.5% HR-601 AND 0.125# POLY -E-FLAKE WEIGHING 12.5 PPG, YIELD 1.96 AND 10.84 GAL/SACK. WEIGHT VERIFIED USING PRESSURIZED MUD SCALES.
Pump Tail Cement	01/22/2014 22:51		7.8		299		716.0	PUMPED 299 BBLS/1400 SACKS VERSACEM WITH 0.5% HALAD(R)-344 AND 0.25% CFR-3, W/O DEFOAMER WEIGHING 14.5 PPG, YIELD 1.2 AND 5.3GAL/SACK. 100 SACKS NOT PUMPED ONLY 1400.
Shutdown	01/22/2014 23:44							SHUT DOWN TO DROP PLUG AND CLEAN LINES.
Clean Lines	01/22/2014 23:45							CLEANED PUMPS AND LINES TO PIT PER CUSTOMER REQUEST.
Drop Plug	01/22/2014 23:48							REMOVED CAP TO DROP PLUG PER CUSTOMER REQUEST.
Pump Displacement	01/22/2014 23:50		8.5		302		899.0	PUMPED 302 BBLS FRESH WATER TO DISPLACE TOP PLUG TO FLOAT COLLAR AT 899 PSI. RED DYE ADDED TO TUB 18 TO SPOT ON TOP OF TOOL.
Bump Plug	01/23/2014 00:40						1464.0	PLUG LANDED AT 899 PSI. PRESSURED UP TO 1464 PSI AND WAIT 2 MINUTES BEFORE CHECKING FLOATS PER CUSTOMER REQUEST.
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	

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## Cementing Job Log

Check Floats	01/23/2014 00:43				2			CHECKED FLOATS. FLOATS HELD BLED BACK 2 BBLS TO DISPLACEMENT TANKS ON PUMP TRUCK.
Drop Opening Device For Multiple Stage Cementer	01/23/2014 00:47							OPENED CAP TO DROP MSC OPENING TOOL. WILL WAIT 31 MINUTES FOR BOMB TO LAND ON TOOL.
Open Multiple Stage Cementer	01/23/2014 01:16						723.0	PRESSURED UP TO 723 PSI TO OPEN TOOL. CIRCULATED 20 BBLS AT 4.5 BPM AT 350 PSI AND TURNED OVER TO RIG TO CIRCULATE REMAINING 3 HOURS.
Safety Meeting - Pre Job	01/23/2014 05:45							DISCUSSED HAZARDS AND PROCEDURES ASSOCIATED WITH CEMENT JOB.
Start Job	01/23/2014 06:30							RIGGED UP BULK TRUCK AND IRON FOR SECOND STAGE.
Test Lines	01/23/2014 06:37		1		3		5100.0	TESTED HALLIBURTON IRON TO 5100 PSI TEST HELD WITH NO LEAKS AT UNIONS.
Pump Spacer	01/23/2014 06:42		3		20		55.0	PUMPED 20 BBLS FRESH WATER WITH RED DYE AHEAD OF CEMENT.
Pump 2nd Stage Lead Slurry	01/23/2014 06:53		6.9		146		433.0	PUMPED 146 BBLS/ 425 SACKS ECONOCEM WITH 0.125# POLY-E-FLAKE WEIGHING 12.5 PPG, YIELD 1.93 AND 10.63 GAL/SACK. WEIGHT VERIFIED USING PRESSURIZED MUD SCALES.
Pump 2nd Stage Tail Slurry	01/23/2014 07:18		6.3		42		496.0	PUMPED 42 BBLS/ 180 SACKS HALCEM WITH 2% HR-800 WEIGHING 14.8 PPG, YIELD 1.33 AND 6.34 GAL/SACK.
Shutdown	01/23/2014 07:26							SHUTDOWN TO CLEAN PUMP AND LINES.

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*Cementing Job Log*

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Clean Lines	01/23/2014 07:27							CLEANED LINES TO PIT PER CUSTOMER REQUEST.
Drop Plug	01/23/2014 07:30							REMOVED CAP TO DROP CLOSING PLUG PER CUSTOMER REQUEST.
Pump Displacement	01/23/2014 07:31		7		139.4		730.0	PUMPED 139.4 BBLS FRESH WATER TO DISPLACE CLOSING PLUG TO TOOL.PLUG LANDED AT 730 PSI.
Bump Plug	01/23/2014 08:00						730.0	PLUG LANDED ON TOOL AT 730 PSI.
Close Multiple Stage Cementer	01/23/2014 08:01						2070. 0	PRESSURED UP TO 2070 TO CLOSE TOOL.
Bleeding Tubing Or Casing	01/23/2014 08:03				1.5			BLD BACK PRESSURE TO DISPLACEMENT TANKS ON PUMP TRUCK. BLED BACK 1.5 BBLS.
End Job	01/23/2014 08:05							THANK YOU JOHNNY AND CREW!
Pre-Rig Down Safety Meeting	01/23/2014 08:10							
Rig-Down Equipment	01/23/2014 08:15							
Rig-Down Completed	01/23/2014 09:30							
Pre-Convoy Safety Meeting	01/23/2014 09:45							
Depart Location for Service Center or Other Site	01/23/2014 10:00							

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Well Name: Trionyx 6 Fed	Well #: 4H	API/UWI #: 30-025-40044	
Field: COTTON DRAW	City (SAP): JAL	County/Parish: Lea	State: New Mexico
Legal Description: Section 22 Township 18S Range 33E			
Contractor: Cactus Drilling	Rig/Platform Name/Num: Cactus Drilling #105		
Job Purpose: Cement Multiple Stages			
Well Type: Development Well	Job Type: Cement Multiple Stages		
Sales Person: ROSBY, DAVID	Srv Supervisor: BELMUDEZ, JOHNNY	MBU ID Emp #: 448541	

## Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BELMUDEZ, JOHNNY Jesse	17	448541	BORSBERRY, WILLIAM Kelly	17	480683	MCLAUGHLIN, DAVID Brian	20	503602
WILLIAMS, CHRISTOPHER T	20	228435						

## Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way

## Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
01-22-2014	12	7	1-23-00	10	4.5			

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			BHST	On Location	22 - Jan - 2014	12:00	MST
Job depth MD	13055. ft		Job Depth TVD	Job Started	22 - Jan - 2014	21:47	MST
Water Depth			Wk Ht Above Floor	Job Completed	22 - Jan - 2014	08:05	MST
Perforation Depth (MD)	From	To	Departed Loc	22 - Jan - 2014	10:00		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
8-3/4" Hole Kick-off Point	Unknown			8.75				4455.	13023.		
Multiple Stage Cementer								6000.	6000.		
Intermediate Casing	Unknown		9.625	8.835	40.	LTC	J-55	4455.			
Production Casing	Unknown		5.5	4.892	17.	BTC	HCP110	13023.			

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

Description	Qty	Qty uom	Depth	Supplier
SUGAR, GRANULATED, IMPERIAL	400	LB		
RHODAMINE RED LIQ DYE (2)	4	LB		

## 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 <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Fresh Water		20.00	bbl	8.33	.0	.0	.0	
2	EconoCem - HLH	ECONOCEM (TM) SYSTEM (452992)	280.0	sacks	12.5	1.96	10.84		10.84
	10.835 Gal	FRESH WATER							
	0.5 %	HR-601, 50 LB BAG (101328348)							
	0.125 lbm	POLY-E-FLAKE (101216940)							
3	VersaCem - H - Tail Cement	VERSACEM (TM) SYSTEM (452010)	1500.0	sacks	14.5	1.2	5.3		5.3
	5.297 Gal	FRESH WATER							
	0.5 %	HALAD(R)-344, 50 LB (100003670)							
	0.25 %	CFR-3, W/O DEFOAMER, 50 LB SK (100003653)							
Stage/Plug #: 2									
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density uom	Yield uom	Mix Fluid uom	Rate uom	Total Mix Fluid uom
1	Fresh Water		20.00	bbl	8.33	.0	.0	.0	
2	EconoCem - HLC	ECONOCEM (TM) SYSTEM (452992)	425.0	sacks	12.5	1.93	10.63		10.63
	10.625 Gal	FRESH WATER							
	0.125 lbm	POLY-E-FLAKE (101216940)							
3	Hal-Cem C	HALCEM (TM) SYSTEM (452986)	180.0	sacks	14.8	1.33	6.34		6.34
	0.2 %	HR-800, 50 LB SACK (101619742)							
	6.337 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

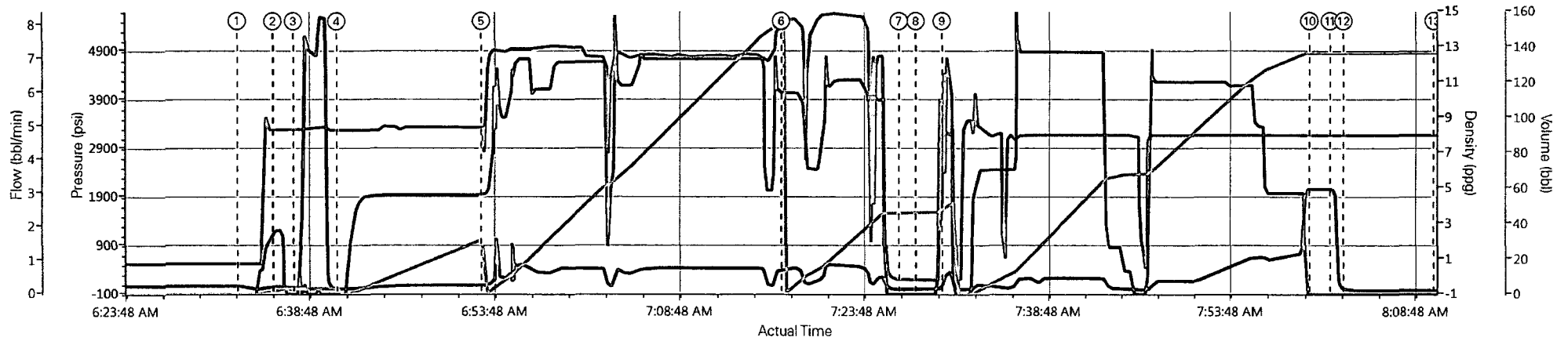
Rates							
Circulating		Mixing		Displacement		Avg. Job	
Cement Left In Pipe	Amount	40 ft	Reason	Shoe Joint			
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID

The Information Stated Herein Is Correct	Customer Representative Signature
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# DEVON-TRIONYX 6 FED 4H 2ND STAGE 01-23-2014



DS Pump Press (psi) DH Density (ppg) Comb Pump Rate (bbl/min) Pump Stg Tot (bbl)

① Start Job ② Circulate Well ③ Test Lines ④ Pump Spacer 1 ⑤ Pump Lead Cement ⑥ Pump Tail Cement ⑦ Clean Lines ⑧ Drop Top Plug ⑨ Pump Displacement ⑩ Bump Plug ⑪ Other ⑫ Zero Flow Total ⑬ End Job

▼ HALLIBURTON | iCem® Service

Created: 2014-01-23 05:28:46, Version: 3.0.121

Edit

Customer: DEVON ENERGY PROD CO LP-  
EBUSINESS

Job Date: 1/23/2014 5:29:22 AM

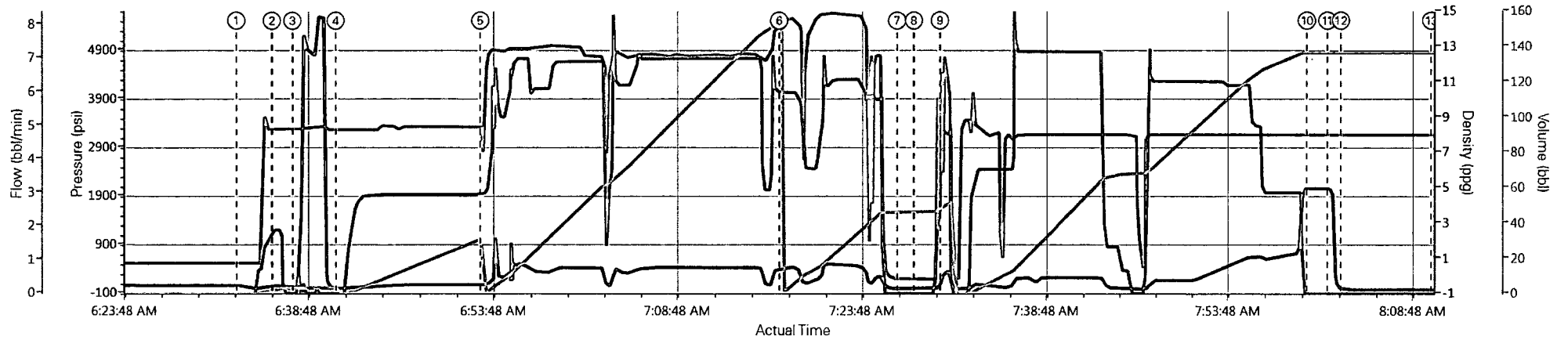
Well: 4H

Representative:

Sales Order #: 900922420

SUPERVISOR: JOHNNY BELMUDEZ

# DEVON-TRIONYX 6 FED 4H 2ND STAGE 01-23-2014



DS Pump Press (psi)    DH Density (ppg)    Comb Pump Rate (bbl/min)    Pump Stg Tot (bbl)

① Start Job    ② Circulate Well    ③ Test Lines    ④ Pump Spacer 1    ⑤ Pump Lead Cement    ⑥ Pump Tail Cement    ⑦ Clean Lines    ⑧ Drop Top Plug    ⑨ Pump Displacement    ⑩ Bump Plug    ⑪ Other    ⑫ Zero Flow Total    ⑬ End Job

▼ **HALLIBURTON** | iCem® Service

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Edit

Customer: DEVON ENERGY PROD CO LP-  
EBUSINESS

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Representative:

Sales Order #: 900922420

SUPERVISOR: JOHNNY BELMUDEZ