





# Job Summary

Ticket Number	Ticket Date
TN# BCO-1903-0053	3/11/2019

COUNTY	COMPANY	API Number
Weld	PDC ENERGY	05-123-22565
WELL NAME	RIG	JOB TYPE
Hendricks 5	Ranger 22	Plug to Abandon
SURFACE WELL LOCATION	CJES Field Supervisor	CUSTOMER REP
40.359414 -104.55043	Francisco Flores	Ryan Beam

EMPLOYEES		
Chadwick Brantley		
Mike Arthur		

WELL PROFILE			
Max Treating Pressure (psi):	1000	Bottom Hole Static Temperature (°F):	
Bottom Hole Circulating Temperature (°F):		Well Type:	Oil

Open Hole					
1	Size (in)	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)
2	Size (in)	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)

Casing/Tubing/Drill Pipe							
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)
Production	4.5	11.6	J55	1629	0		
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)
Tubing	2.375	4.7	J55	1629	0		
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)

## CEMENT DATA

Stage 1:	From Depth (ft):	1629	To Depth (ft):	1200
Type: Balance Plug	Volume (sacks):	28	Volume (bbls):	6.6
Cement & Additives:				
100% CJ922				
	Density (ppg)	14.8	Yield (ft³/sk)	1.33
	Water Req.			6.32

Stage 2:	From Depth (ft):	631	To Depth (ft):	0
Type: Surface Plug	Volume (sacks):	48	Volume (bbls):	11.4
Cement & Additives:				
100% CJ922				
	Density (ppg)	14.8	Yield (ft³/sk)	1.33
	Water Req.			6.32

Stage 3:	From Depth (ft):		To Depth (ft):	
Type: Top Off	Volume (sacks):	5	Volume (bbls):	1
Cement & Additives:				
100% CJ922				
	Density (ppg)	14.8	Yield (ft³/sk)	1.33
	Water Req.			6.32

Stage 4:	From Depth (ft):		To Depth (ft):	
Type:	Volume (sacks):		Volume (bbls):	
Cement & Additives:				
	Density (ppg)		Yield (ft³/sk)	
	Water Req.			

## SUMMARY

Preflushes:	10 bbls of Fresh Water	Calculated Displacement (bbl):	4.6	Stage 1	Stage 2
		Actual Displacement (bbl):	4.6		
Total Preflush/Spacer Volume (bbl):	10	Plug Bump (Y/N):		Bump Pressure (psi):	
Total Slurry Volume (bbl):	19	Lost Returns (Y/N):		(if Y, when)	
Total Fluid Pumped	33.6				
Returns to Surface:	Cement	2 bbls			

Job Notes (fluids pumped / procedures / tools / etc.): 1st balance plug- end of tubing@1629'. Mix/pump 28sx@14.8ppg 1.33Y. ETOC@1200'. 2nd surface plug- End of tubing@631'. Mix/pump 48sx@14.8ppg 1.33Y. Brought cement to surface. Pumped job per customers request. Job went well. Thank you!

Customer Representative Signature: \_\_\_\_\_ Thank You For Using CJES O-TEX Cementing

Cement Job Log



Customer:	PDC ENERGY	Date:	3/11/2019	Serv. Supervisor:	Francisco Flores
Cust. Rep.:	Ryan Beam	Ticket #:	BCO-1903-0053	Serv. Center	Brighton - 3021
Lease:	Hendricks 5	API Well #:	05-123-22565	County:	Weld State: CO
Well Type:	Oil	Rig:	Ranger 22	Type of Job:	Plug to Abandon

Materials Furnished by C&J ENERGY SERVICES

Plugs	Casing Hardware	Physical Slurry Properties					
		Sacks of Cement	Fluid Dens (lb/gal)	Excess	Yield (cuft/sk)	Mix Water (gal/sk)	Fluid Volume (bbls)
5 bbl Water						5.00	
Stub Plug	100 % CJ922	140	14.8		1.33	6.32	33.05 21
0							
0							
Displacement Chemicals:							



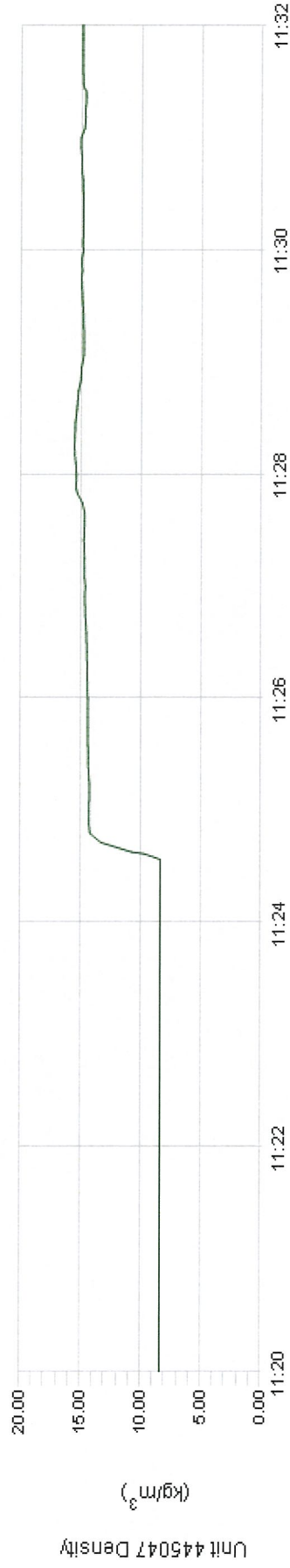
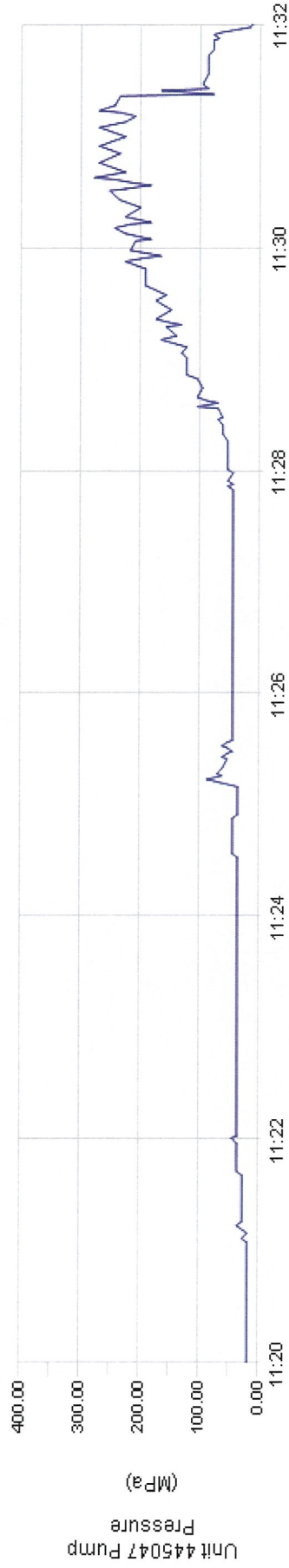
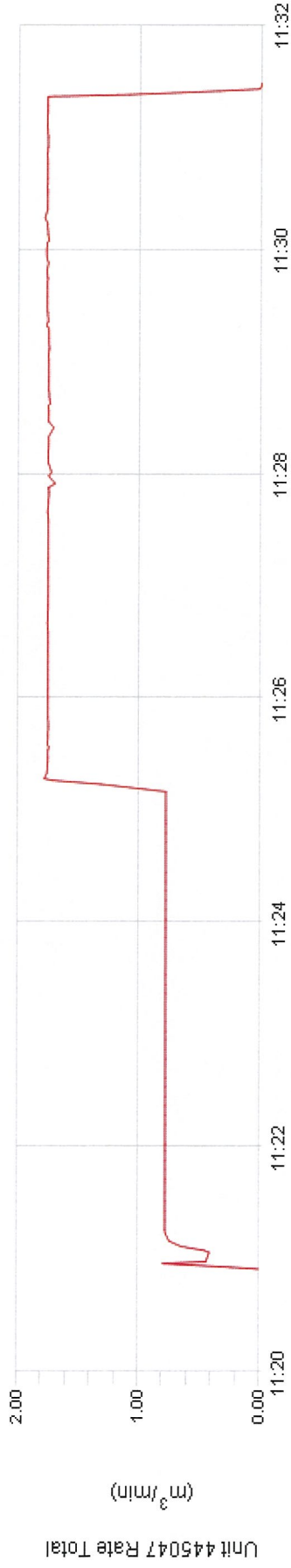




Client  
 Ticket No. 19030053  
 Location SENE 33 5N 64W  
 Comments Cement to surface 11.4 bbls

Client Rep  
 Well Name Hendriks 5  
 Job Type Abandonment Plugs

Supervisor Francisco Flores  
 Unit No. 445047  
 Service District Brighton  
 Job Date 03/11/2019

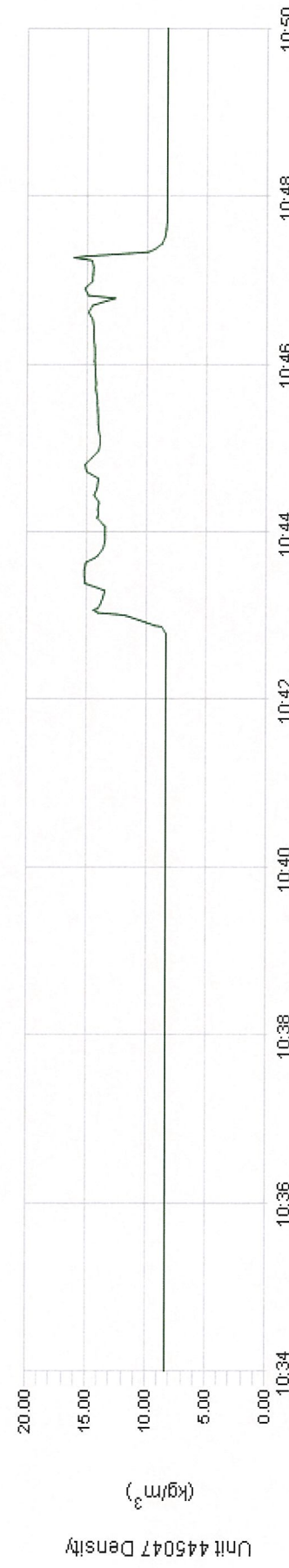
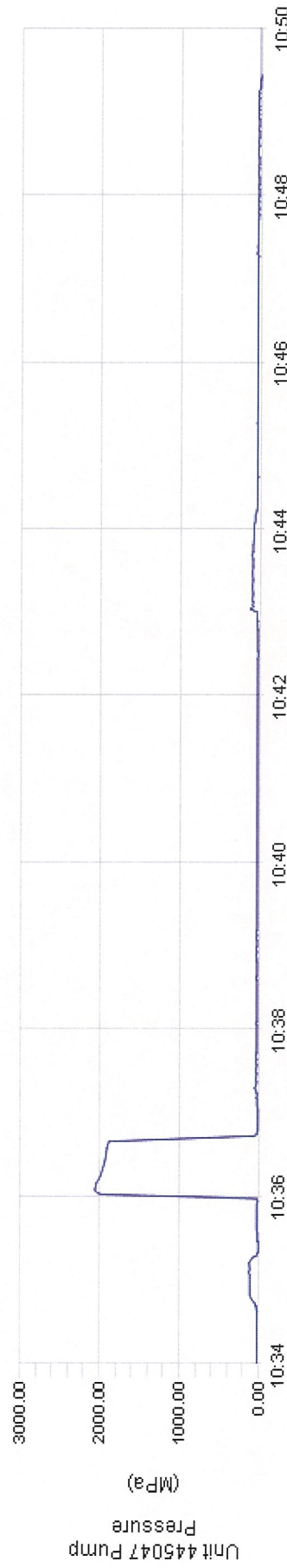
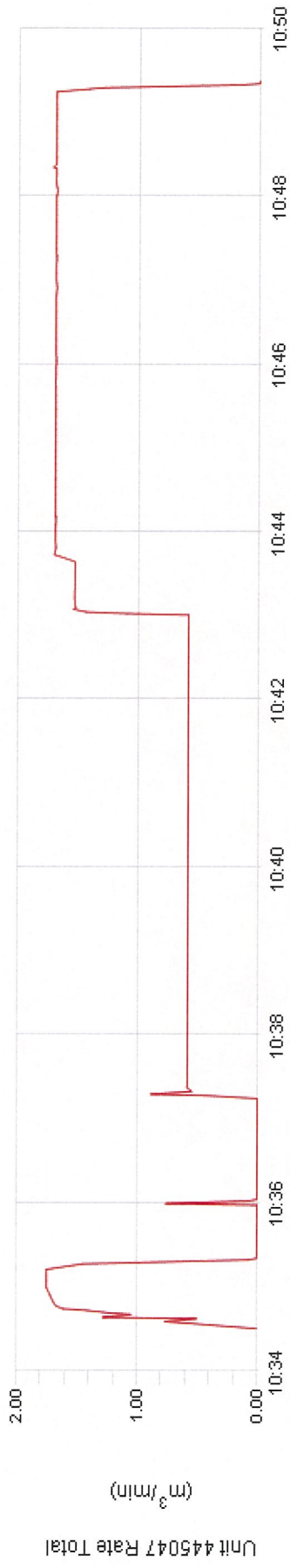




Client  
 Ticket No. 19030053  
 Location SENE 33 5N 64W  
 Comments 28sx@14.8ppg 1.33Y

Client Rep Ryan Beam  
 Well Name Hendriks 5  
 Job Type Abandonment Plugs

Supervisor Francisco Flores  
 Unit No. 445047  
 Service District Brighton  
 Job Date 03/11/2019



# RANGER ENERGY SERVICES, LLC

## WIRESLINE DIVISION

3333 Center Dr  
Milliken, Co



Service Date:

<b>Company Name:</b> PDC		<b>Company Address:</b>			<b>Field Ticket Number:</b> 10001206
<b>Well Name:</b> HENDRICKS #5	<b>Field:</b> WATTENBERG	<b>County:</b> WELD	<b>State:</b> COLORADO	<b>Rig Name &amp; Number:</b> RANGER #22	
<b>SERVICE NOTES:</b> RIH WITH 3.63" GUAGE RING @6540' , SET STS CIBP @6508' W 2SX CEMENT, CEMENT BOND LOG 6495' TO SURFACE.			<b>Date:</b> 3/8/2019	<b>Wireline Unit #</b> 233	
				<b>Engineer:</b> A.REAGAN	
				<b>Operator:</b> J.,MICHEAL	
				<b>Operator:</b> D.VENANZUALA	

RUN	CODE	DESCRIPTIONS	QTY	UNIT PRICE	DISCOUNT	AMOUNT
1	1000-001	Set Up Charge Cased Hole Unit	1			
	3000-001	Packoff Operation Charge0#-1000#	1			
	2000-003	API Type 6BX, 5,000 lb. WP 13-3/8" and smaller	1			
1	8000-009	Junk Catcher / Gauge Ring Depth Charge	6857			
1	8000-010	Junk Catcher / Gauge Ring Operation Charge	1			
2	8000-001	Bridge Plug Depth Charge	6570			
2	8000-002	Bridge Plug Operation Charge	1			
2	8000-015	Setting Tool Rental, per tool	1			
3	7000-006	Dump Bailer Depth Charge	6570			
3	7000-007	Dump Bailer Operation Charge	1			
4	4000-017	Cement Bond Log Depth Charge	6500			
4	4000-018	Cement Bond Log Operation Charge	6500			
4	4000-009	Simultaneous Gamma Ray Log Depth Charge	6500			
4	4000-010	Simultaneous Gamma Ray Log Operation Charge	6500			
4	4000-013	Simultaneous CCL Log Depth Charge	6500			
4	4000-014	Simultaneous CCL Log Operation Charge	6500			
7	8000-014	Standard Set Power Charge	1			

<b>Customer Signature:</b>	<b>Customer Name Printed:</b> RYAN BEAM	<b>Ranger Energy Services Representative Signature:</b>
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The above estimated charges and data shown are subject to change by Ranger Energy Services, LLC. Payment terms are net 30 Days.