
	PDC ENERGY	YARD CALL	1/10/2019		DISTRICT		
	Harold 6X-204	RTS DATE	10/13/2018		Brighton		
		YARD RTN					
CUSTOMER INFORMATION		1.08c					
Customer Name	PDC ENERGY	WELL INFORMATION		WELL DATA		TUBULAR DATA	
Customer #:	1000700	API #:	05-123-45753	Casing Size	9.625	Size	Grade
AFE #:	DR002974	Field Name:	Wattenberg	Depth		5.5	Weight
Cust Rep on Loc:	John Falton	Well Name:	Harold 6X-204	TVD	6,700 ft	20#	
Cust Phone #:	970-580-5364			MD	11,898 ft	5.5 in. 20#, (0 to 11,898 ft)	
Order Placed By:	PDC ENERGY	Well Type:	Oil	OH		CEMENTING PLUG	
Phone #:		Formation:		OH Depth		Qty	Size
Proposed Job Amt:	\$94,882.46	Rig Contractor:	Ensign	BHST	200°F	Type	Material
JOB INFORMATION		Rig Name/Num.:	Ensign 161	BHCT	180°F		
Ticket #:	BCO-1901-0071	Rig Phone:		Est. BHST/BHCT		200°F / 180°F (0) (2.99°F/100ft)	
PO #:		County:	Weld	MD / TVD	11,898 ft / 6,700 ft		TOP CONNECTION
Order Taken By:	Laeger	State:	CO	Mud Weight & Type	10#, Water Based		Size
Order Date:	1/10/2019	Latitude:	40.33562	Open Hole	8.5 in. O.H. (1,655 to 11,898 ft)		Type
CJES Acct. Manager:	Cody Michel	Longitude:	-105				Thread
CJES Engineer	Cody Michel	Township:	SESE 6 4N64W	Previous Casing	9.625 in. 36# (0 to 1,655 ft)		JOB TYPE
		Quote Number:	1-BCO_190110103013				Production Casing
COMMENTS							
SPECIAL JOB INSTRUCTIONS							
100# Sugar , 5 1/2 Head Bowl and swedge plug , Latex							
DIRECTIONS TO WELL							
CR 49 and Cr 48, E 1 mile , N into							
Emergency Contacts							
Nearest Hospital					Phone Number:		
Police Department					Phone Number:		
Fire Department					Phone Number:		
Designated Emergency Vehicle				Vehicle Location:			
MSDS on Dash of Emergency Vehicle? (y/n)							
Muster Area #1							
Muster Area #2							
Cell Phone Service on location? (y/n)							
If not, nearest working phone							
Iron Tracking							
	Taken Out			Returned			
Iron Type	Taken By	Date Out	Time Out	Returned By	Date In	Time In	

Cement Job Log

C&J ENERGY SERVICES													
Customer: PDC ENERGY				Date: 1/13/2019				Serv. Supervisor: Sam Cheal					
Cust. Rep.: John Falton				Ticket #: BCO-1901-0071				Serv. Center Brighton - 3021					
Lease: Harold 6X-204				API Well #: 05-123-45753				County: Weld		State: CO			
Well Type: Oil				Rig: Ensign 161				Type of Job: Production Casing					
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)	Mix Water (bbls)	
0													
0													
150 bbls ppg Weighted Spacer - 150 bbls of 12		+10.0 PPB CJ890+222.16 PPB CJ300+1.0 PPB CJ209+0.5 PPB CJX157011+8.1 PPB CJ801					12.5				150.00		
C&J Non Latex Lead 1-1		50 % CJ914+50 % CJ010-74 +2.0 % CJ020+0.4 % CJ548+0.3 % CJ240+10.0 % CJ041+0.3 % CJX157011				25	14		1.37	5.98	6.08	4	
C&J Latex Lead 1-1		50 % CJ914+50 % CJ010-74 +2.0 % CJ020+0.4 % CJ548+0.3 % CJ240+10.0 % CJ041+0.3 % CJX157011+1.0 GPS CJ550L+0.2 GPS CJ891				755	14		1.37	4.71	183.66	85	
C&J Tail 1-1		65 % CJ914+35 % CJ010-74 +0.3 % CJ704+0.15 % CJ210K+0.5 % CJ511				930	14.5		1.22	5.41	201.36	120	
Displacement											262.93		
50 % CJ914+50 % CJ010-74+2.0 % CJ020+0.4													
Displacement Chemicals:													
OPEN HOLE DATA				TUBULAR DATA									
8.5 in. O.H. (1,655 to 11,898 ft)				5.5 in. 20# (0 to 11,898 ft)		SIZE WEIGHT	THREAD	DEPTH (ft)	GRADE	ID (in)	BURST (psi)	COLLAPSE (psi)	
PREVIOUS CASING DATA				PERFORATED INTERVAL DATA				CASING EQUIPMENT DEPTHS					
9.625 in. 36# (0 to 1,655 ft)				TOP	BTM	SPF	SIZE	SHOE	FLOAT	STAGE	ACP		
								11899	11861	N/A			
WELL FLUID		DISPLACEMENT FLUID		DIFF PRESS (psi)	CSG LIFT (psi)	MAX PRESS (psi)	Stage Details						
TYPE	DENSITY	VOLUME	TYPE									DENSITY	
Mud	10.6 ppg	263.3 bbl	Water	8.3 ppg				1100					
Time	Rate (bbl/min)	Csg. Press. (psi)	Tbg. Press. (psi)	Ann. Press. (psi)	Stg. Vol. (bbl)	Cum. Vol. (bbl)							
7:00 AM							0 ARRIVE ON LOCATION						
7:05 AM							0 SPOT EQUIPMENT						
7:10 AM							0 RIG UP IRON AND HOSES						
9:00 AM							0 MIX LATEX MIX WATER						
12:30 PM							0 PRE JOB SAFETY MEETING						
12:56 PM	4	230				5	5 LOAD LINES TO TEST						
12:58 PM		5000					5 TEST PUMP AND LINES TO 5,000 PSI						
1:04 PM	7	500			150	155	MIX / PUMP WEIGHTED SPACER						
1:35 PM	5	430			6	161	MIX / PUMP NON-LATEX LEAD CEMENT @14.0PPG						
1:40 PM	8	780			184.2	345.2	MIX / PUMP LATEX LEAD CEMENT @14.0PPG						
2:15 PM	8	790			202	547.2	MIX / PUMP TAIL CEMENT @14.5PPG						
2:40 PM		0				547.2	SHUTDOWN / WASH PUMP UNIT / DROP PLUG						
2:50 PM	9	2400			263.3	810.5	DISPLACE WITH FRESH WATER						
3:40 PM	5	3000				810.5	BUMP PLUG						
3:41 PM		3100				810.5	HOLD PRESSURE						
3:42 PM	1.5	3600			1.5	812	PRESSURE UP CASING						
3:43 PM	4	3700			5	817	OPEN WSS / DISPLACE WITH FRESH WATER						
3:47 PM							SHUTDOWN / CHECK FLOATS						
4:00 PM							RIG OUT						
4:50 PM							AAR / DISCUSS LEAVING LOCATION						
5:00 PM							LEAVE LOCATION						
Left Yard													1/13/19 6:00 AM
Arrived Loc.													1/13/19 7:00 AM
Left Loc.				Returned Yd.				1/13/19 5:00 PM		Start Pump		1/13/18 12:56 PM	
								1/13/19 6:00 PM		End Pump		1/13/18 3:43 PM	
		Floats Held (Y/N)	PSI Left on Casing	Cement to Surface (bbl)	Top of Cement (ft)	Full Circ. During Job (Y/N)	Max Pump Pressure (psi)	Casing Rotation	Standby Charged(hrs)	Casing Reciprocation			
		YES	N/A	N/A	2,434ft.	Yes	5,000	N/A	2	N/A			
													
								Service Supervisor Date					