



# Daily Completion Operations

Date: 5/3/2017  
Report #: 3.0

Well Name: Culbreath 23-21

Well Name Culbreath 23-21	Operator PDC Energy Inc.	API 05123144810000	Well Number 105.000824	Last Mod By BHolman
District Evans	Field Name Wattenberg	County Weld	State CO	
Well Type Development	Surface Legal Location NESW 21 6N 64W	Spud Date 4/7/1990	Original KB Elevation (ft) 4,745.00	Ground Elevation (ft) 4,732.00 KB-Ground Distance (ft) 13.00

Daily Operation: 5/3/2017 06:00 - 5/3/2017 18:00

AFE Number WBINOBLE	Job Category Completion/Workover	Objective Set CIBP above perfs, Perform annular fill and install 5k wellhead ahead of horizontal fracs	Start Date 5/1/2017	End Date 5/3/2017	Primary Job Type WBI - Plug Set	Secondary Job Type Annular Fill
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## Rigs

Contractor Ensign	Rig Number 356
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## Daily Operations

Report Start Date 5/3/2017	Report End Date 5/3/2017	Daily Field Est Total (Cost) 12,275.74	Cum Field Est To Date (Cost) 49,009.78
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Status at Reporting Time

## Operations Summary

CREW TO LOCATION. HELD SAFETY MEETING. 0 PRESSURES ON WELL. MIRU RANGER WIRELINE. RAN CBL, GR, VDL AND CCL FROM 1400' TO SURFACE. RDMO WIRELINE. RIH WITH RMOR 3-7/8" CONE BIT, P/O BIT SUB WITH FLOAT, SEAT NIPPLE AND 208 JNTS OF 2-3/8" TBNG. LAY DOWN 9 JNTS. BROACHED TBNG TO SN. LAND TBNG IN 5K WELLHEAD AT 6229.09' KB ND BOPS, NU 5K TOP FLANGE, MASTER VALVE AND LUBRICATOR. SECURED WELL. CLEANED LOCATION. RDMO

WELL WILL NEED TO BE RE-TREED DUE TO INSTALLATION OF 5K WELLHEAD.

FMT'd 22 jnts of 2-3/8" tbng to Inventory at ATP yard

Operations Next Report Period  
FINAL REPORT

Weather	Temperature (°F)	Hole Condition	Road Condition
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## Time Log

Start Time	End Time	Dur (hr)	Cum Dur (hr)	Code	Code Des	Com
06:00	07:00	1.00	1.00	TRAV	Travel - To Location	
07:00	07:30	0.50	1.50	SMTG	Safety Meeting	
07:30	09:30	2.00	3.50	EWLL	Logging	
09:30	12:30	3.00	6.50	RUTB	Run Tubing	RAN CBL
12:30	13:30	1.00	7.50	ROTH	Other Rig Work	RAN P/O BIT SUB AND TBNG
13:30	14:30	1.00	8.50	BOPR	Remove BOP's	BROACHED TO SN
14:30	15:00	0.50	9.00	LOCL	Lock Wellhead & Secure	ND BOPS, NU 5K TOP FLANGE
15:00	17:00	2.00	11.00	SRIG	Rig Up/Down	
17:00	18:00	1.00	12.00	TRAV	Travel - From Location	CLEANED LOCATION AND RIGGED DOWN



# Daily Completion Operations

Date: 5/2/2017

Report #: 2.0

Well Name: Culbreath 23-21

Well Name Culbreath 23-21	Operator PDC Energy Inc.	API 05123144810000	Well Number 105.000824	Last Mod By BHolman
District Evans	Field Name Wattenberg	County Weld	State CO	
Well Type Development	Surface Legal Location NESW 21 6N 64W	Spud Date 4/7/1990	Original KB Elevation (ft) 4,745.00	Ground Elevation (ft) 4,732.00
				KB-Ground Distance (ft) 13.00

## Daily Operation: 5/2/2017 06:00 - 5/2/2017 19:00

AFE Number WBINOBLE	Job Category Completion/Workover	Objective Set CIBP above perms, Perform annular fill and install 5k wellhead ahead of horizontal fracs	Start Date 5/1/2017	End Date	Primary Job Type WBI - Plug Set	Secondary Job Type Annular Fill
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## Rigs

Contractor Ensign	Rig Number 356
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## Daily Operations

Report Start Date 5/2/2017	Report End Date 5/2/2017	Daily Field Est Total (Cost) 21,047.88	Cum Field Est To Date (Cost) 36,734.04
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Status at Reporting Time

## Operations Summary

CREW TO LOCATION. HELD SAFETY MEETING. 0 PRESSURES ON WELL. ND BOPS, TBNG HEAD AND CASING HEAD. UNLAND CASING WITH SPEAR. NU DUAL STRING FLANGES AND WASHINGTON HEAD. PU AND RIH WITH MULE SHOE AND 11 JOINTS OF 1-1/4" 3.02# CS-HYDRIL TBNG TO 363'. (39' BELOW SURFACE CASING SHOE) STACKED OUT. WORKED TBNG DOWN TO 488' WITH 15 TOTAL JNTS. ROLLED HOLE. RAN 21 MORE JOINTS. EOT AT 1143.56'. ROLLED HOLE FOR 30 MINUTES. LOST CIRCULATION. PRESSURED TO 600 PSI. TBNG STUCK. WORKED TBNG FREE. LAY DOWN 11 JTNS. UNABLE TO BREAK CIRCULATION OR WORK TBNG DOWN. LD 12 MORE JOINTS. EOT AT 426' WITH 13 JNTS. BROKE CIRCULATION. PUMPED 5 BBL SAPP SWEEP. UNABLE TO MAKE HOLE. RU TBNG SWIVEL. CIRCULATED AND ROTATED DOWN TO 550'. TBNG FELL THRU BRIDGE. PUMPED 5 BBL SAPP SWEEP. RIH WITH 10 MORE JNTS TO 862'. ROLLED HOLE. CONTINUED IN HOLE TO 1143.56' WITH 36 JNTS AND MULE SHOE. ROLLED HOLE. MIRU O-TEX PUMPING. HELD SAFETY MEETING. TEST PUMP AND LINES TO 3000 PSI. MIXED AND PUMPED 10 BBL SAPP SWEEP. PUMPED 10 BBL FRESH WATER SPACER. MIXED AND PUMPED 525 SKS OF CLASS G 15.8# CEMENT IN A 107.5 BBL SLURRY TO SURFACE. 2 BBLs OF CEMENT RETURNED TO TANK. LAY DOWN TBNG. TOPPED OFF PLUG WITH 5 SKS. TOTAL OF 530 SKS PUMPED. WASHED UP PUMP AND LINES. ND DUAL STRING FLANGES. LAND CASING IN SLIPS WITH 73K. NU CASING HEAD. INSTALLED 5K WELLHEAD AND BOPS. SECURED WELL. SDFD

## Operations Next Report Period

RUN CBL, RUN P/O BIT SUB, BROACH TBNG

Weather	Temperature (°F)	Hole Condition	Road Condition
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## Time Log

Start Time	End Time	Dur (hr)	Cum Dur (hr)	Code	Code Des	Com
06:00	07:00	1.00	1.00	TRAV	Travel - To Location	
07:00	07:30	0.50	1.50	SMTG	Safety Meeting	
07:30	08:30	1.00	2.50	ROTH	Other Rig Work	
08:30	10:30	2.00	4.50	RUTB	Run Tubing	ND BOPS, UNLAND CASING, RU DUAL STRING FLANGES, NU BOPS
10:30	12:30	2.00	6.50	CIRC	Circulating	CIRCULATE 1-1/4" TBNG DOWN TO 1143'
12:30	16:00	3.50	10.00	CEMT	Cement Squeeze	CONDITIONED HOLE
16:00	16:30	0.50	10.50	PULT	Pull Tubing	PUMPED 530 SK ANNULAR FILL
16:30	17:30	1.00	11.50	ROTH	Other Rig Work	LD TBNG
17:30	18:00	0.50	12.00	LOCL	Lock Wellhead & Secure	ND BOPS AND DUAL STRING FLANGES, LAND CASING, NU BOPS
18:00	19:00	1.00	13.00	TRAV	Travel - From Location	