



Well History

Well Name: State Peterson 32-16

API 05123216640000		Surface Legal Location SWNE 16 5N 63W		Field Name Wattenberg		State CO		Well Configuration Type Vertical			
Ground Elevation (ft) 4,660.00		Original KB Elevation (ft) 4,670.00		KB-Ground Distance (ft) 10.00		Spud Date 9/26/2003 00:00		Rig Release Date 9/29/2003 00:00		On Production Date 10/27/2003	

Job

Drilling - original, 9/26/2003 00:00

Job Category Drilling	Primary Job Type Drilling - original	Start Date 9/26/2003	End Date 9/29/2003	Objective Drill a New Codell Well
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Daily Operations

Start Date	Summary	End Date
9/26/2003	Caza Rig #1: MIRU. Drill rat and mouse holes and spud 12 1/4" hole at 1 PM. TD 12 1/4" hole at 6:15 PM at 387'. Condition mud and make a wiper trip and survey (1/2 degree at 387'). Trip out and ran 8 joints of new, 24#, J-55, 8 5/8" casing to 355'. Set at 365'. Rig up Cemeniter's Well Service at 9:30 PM and pumped 240 sacks of Class G cement + 3% CaCl2 + 1/4# flake per sack. Plug down at 11 PM. Wait on cement.	
9/27/2003	Caza Rig #1: Test BOP and began drilling plug and shoe with 7 7/8" bit at 6:00 AM.	
9/28/2003	Caza Rig #1: At 4365' and drilling 7 7/8" hole. Last survey: 1 degree at 3167'.	
9/29/2003	Caza Rig #1: Drillers TD at 6920. MIRU. PSI. Ran comp Density/comp Neutron. Dual induction finding LTD at 6914'kb. Rig up casing crew and ran Topco auto fill guide shoe. 159jts. of 10.5#/ft, M-65, 4 1/2" casing and 1 joint of 11.6"/ft, N-80, on top of casing string. Casing set at 6901.34'. PBDT @ 6886.89' kb. RU Halliburton and pumped 12bbl mud flush. 10bbl spacer. 8bbls (20sx) of 50/50 poz. 144bbl (200sx) HLC III and additives and 43bbls (150sx) of 50/50 poz + additives. Released wiper plug and displaced with 110bbls treated water. Plug down ok @ 7:09pm. ECT @ 3150'. Released rig at 8pm.	
9/29/2003	Caza Rig #1: At 6920' and drilling 7 7/8" hole. Last survey: 1 degree at 6263'.	

Initial Completion, 10/2/2003 00:00

Job Category Completion/Workover	Primary Job Type Initial Completion	Start Date 10/2/2003	End Date 12/2/2003	Objective Complete a New Codell
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Daily Operations

Start Date	Summary	End Date
10/2/2003	RU NUEX Wireline run Gamma bond VDL. Run bond log from PBDT 6856 to 3600 TOC 3840. Perf Codell 6724.32 with 3 1/8 ppg 3spf 120phase (24shots) 11gram charges .34" entry hole. RDMO. Install frac valve.	
10/3/2003	BJ Services Frac Codell 6724' to 6732' with 2698bbls Vistar 20 gel with 218320# of 20/40 and 8000# of Super LC 20/40. Sand stage of 1#, 2#, 3#, 4#. Avg treating press 3290# at 16.19 BPM. ISDP 3264. Well on flowback on 20/64 choke at 2700 psi. RDMO BJ Services.	
11/26/2003	DJR Completion Rig: MIRU. Kill well with 40 bbls of 2% KCL fluid. NU BOP. RIH with 2 3/8" tubing. Ran 204 joints to tag sand fill @ 6,760'. Circulate and clean out to 6,850'. Roll hole clean for 1 hour. Lay down 5 joints to land tubing with 204 joints + (1) 6' sub @ 6,715' KB. Broach tubing to SN. Drop and chase SV to bottom. Shut in well for weekend.	
11/28/2003	DJR Completion Rig: RDMO completion rig.	
12/1/2003	DJR Swab Rig: MIRU. Shut down for night.	
12/2/2003	DJR Swab Rig: Gauged SI well pressure. ICP 350 and ITP 250. Blew down well and swab. IFL 800'. Made 7 runs to kick off string. Install 18/64 choke and flow well to tank. Recovered 110 bbls 40% oil cut. FCP 450 FTP 250. Shut in well for night	

Swab, 7/8/2016 10:00

Job Category LOE	Primary Job Type Swab	Start Date 7/8/2016	End Date 7/8/2016	Objective SWAB
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Daily Operations

Start Date	Summary	End Date
7/8/2016	RU CLARK WS STRT PSI 100/500 STRT GAUGE 5'5" SFL 2000' 8 RUNS MADE END PSI VAC/240 END GAUGE 8'8" 3 OIL 58 H2O RCVD RDMO	7/9/2016

Swab, 9/21/2016 12:00

Job Category LOE	Primary Job Type Swab	Start Date 9/21/2016	End Date 9/22/2016	Objective SWAB
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Daily Operations

Start Date	Summary	End Date
9/21/2016	RU LVV STRT PSI 80/520 SFL 1900 7 RUNS MADE END PSI VAC/380 SDFN 28 H2O RCVD	9/21/2016
9/22/2016	STRT PSI VAC/470 SFL 2500 16 RUNS MADE END PSI VAC/280 RDMO 55 H2O RCVD	9/22/2016

Abandon Well LOE, 9/24/2018 06:00

Job Category Abandon	Primary Job Type Abandon Well LOE	Start Date 9/24/2018	End Date 9/26/2018	Objective PLUG AND ABANDON WELL.
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Well History

Well Name: State Peterson 32-16

API 05123216640000		Surface Legal Location SWNE 16 5N 63W		Field Name Wattenberg		State CO		Well Configuration Type Vertical			
Ground Elevation (ft) 4,660.00		Original KB Elevation (ft) 4,670.00		KB-Ground Distance (ft) 10.00		Spud Date 9/26/2003 00:00		Rig Release Date 9/29/2003 00:00		On Production Date 10/27/2003	

Daily Operations

Start Date	Summary	End Date
9/24/2018	ITP 0 PSI, ICP 400 PSI, ISCP 0 PSI, WELL WAS SHUT IN, MIRU RANGER RIG 03, BLEW DOWN WELL TO RIG TANK, FUNCTION TESTED BOP, CIRCULATED OIL AND GAS OUT, GOT COMMUNICATION UP TO SURFACE, ND PRODUCTION TREE, NU BOP, PULLED 120 JTS TO DERRICK, LD 84 JTS ON ATP'S TRAILER, MIRU RANGER WIRE LINE, MADE A GAUGE RING RUN DOWN TO 6700', PU 4 1/2 10K CIBP, RIH WITH WIRE LINE, SET CIBP AT 6674' CORRELATED WITH LOGS, SPOTTED 2 SACKS OF CEMENT ON TOP OF THE PLUG, RAN SECOND CIBP, SET IT AT 6404' CORRELATED WITH LOGS, SPOTTED 2 SACKS OF CEMENT ON TOP OF THE PLUG. RIG DOWN WIRE LINE, LOADED THE HOLE WITH WATER, TRIED PRESSURE TESTING CASING, GOT COMMUNICATION UP TO SURFACE, SI AND SECURE WELL FOR THE NIGHT, SD.	9/24/2018
9/25/2018	NO PRESSURES, OPENED WELL, PICKED UP STS'S 4 1/2 TENSION PACKER, RIH WITH PRODUCTION PIPE DOWN TO 1711' WITH 52 JTS, SET PACKER, PRESSURE TESTED DOWN TO THE PLUG, COMMUNICATED UP TO SURFACE, GOT A GOOD TEST FROM 1711' UP TO SURFACE, STARTED HUNTING HOLES, FOUND THE HOLES BETWEEN 2733' AND 2598', RELEASED PACKER, PULLED PIPE, LD PACKER, ND BOP AND 5K WELL HEAD, UNLANDED CASING PULLING 90K, NU BOP, WORKED CASING, GOT FREE CASING DOWN TO TOC AT 3830', MIRU RANGER WIRE LINE, WAIT 1 HOUR FOR APPROVAL FROM THE STATE TO CUT CASING, CUT CASING AT 2800', RD WIRE LINE, LD LIFTING SUB, PUMPED 2 SACKS OF SAPP DOWN CASING, CONDITIONED THE HOLE WITH MUD FOR 2 HOURS PUMPING 2.5 BBL/MIN, LD 65 JTS OF 4 1/2 CASING ON ATP'S TRAILER, CHANGED EQUIPMENT FROM 4 1/2 TO 2 3/8, SI AND SECURE WELL FOR THE NIGHT, SD.	9/25/2018
9/26/2018	NO PRESSURES, OPENED WELL, PICKED UP 2 3/8 MULE SHOE, RAN 88 JTS DOWN TO 2902', BROKE CIRCULATION WITH MUD, MIRU C&J CEMENT TRUCKS, HELD SAFETY MEETING, PRESSURE TESTED LINES UP TO 2000 PSI, NO LEAKS, ESTABLISHED CIRCULATION WITH WATER, PUMPED 60 SACKS OF 15.8 CLASS G CEMENT DOWN TUBING, BALANCED CEMENT WITH 10.4 BBL OF WATER, EST TOC AT 2691', LD 33 JTS, EOT AT 1815.05' WITH 55 JTS, ESTABLISHED CIRCULATION WITH WATER, PUMPED 255 SACKS OF 14.8 TYPE III CEMENT DOWN TUBING, BALANCED CEMENT WITH 4.2 BBL, EST TOC AT 1098', LD 37 JTS, EOT AT 601' WITH 18 JTS, ESTABLISHED CIRCULATION WITH WATER, OPENED WELL FOR 5 MINUTES, NO FLOW OR GAS MIGRATION, PUMPED 233 SACKS (47 BBL) OF 14.8 TYPE III CEMENT AND GOT CEMENT ON RETURNS, LD THE 18 JTS, CLEAN UP EQUIPMENT FROM CEMENT, ND BOP, RACK PUMP AND TANK, RDMOL. PUMPED TOTAL OF 287 SACKS 14.8 TYPE III CEMENT. MOVE IN ATP'S CUT AND CAP CREW, DUG DOWN 6' CUT OFF WELL HEAD, WELDED CAP ONTO SURFACE, INSTALLED MARKER PLATE ON CAP, BACKFILLED, SHUT DOWN. FINAL REPORT. 226 JTS OF 2 3/8 J-55 4.7 AND 21 JTS OF 4 1/2 CASING SOLD TO KARST.	9/26/2018



Daily Completion Operations

Date: 9/26/2018
Report #: 3.0

Well Name: State Peterson 32-16

Well Name State Peterson 32-16	Operator PDC Energy Inc.	API 05123216640000	Well Number 105.003177	Last Mod By echavez	
District Evans	Field Name Wattenberg	County Weld	State CO		
Well Type Development	Surface Legal Location SWNE 16 5N 63W	Spud Date 9/26/2003	Original KB Elevation (ft) 4,670.00	Ground Elevation (ft) 4,660.00	KB-Ground Distance (ft) 10.00

Daily Operation: 9/26/2018 06:00 - 9/26/2018 16:00

A/E Number	Job Category Abandon	Objective PLUG AND ABANDON WELL.	Start Date 9/24/2018	End Date 9/26/2018	Primary Job Type Abandon Well LOE	Secondary Job Type
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Rigs

Contractor Ranger Energy Services	Rig Number 003
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Daily Operations

Report Start Date 9/26/2018	Report End Date 9/26/2018	Daily Field Est Total (Cost)	Cum Field Est To Date (Cost) 33,260.00
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Status at Reporting Time

Operations Summary

NO PRESSURES, OPENED WELL, PICKED UP 2 3/8 MULE SHOE, RAN 88 JTS DOWN TO 2902', BROKE CIRCULATION WITH MUD, MIRU C&J CEMENT TRUCKS, HELD SAFETY MEETING, PRESSURE TESTED LINES UP TO 2000 PSI, NO LEAKS, ESTABLISHED CIRCULATION WITH WATER, PUMPED 60 SACKS OF 15.8 CLASS G CEMENT DOWN TUBING, BALANCED CEMENT WITH 10.4 BBL OF WATER, EST TOC AT 2691', LD 33 JTS, EOT AT 1815.05' WITH 55 JTS, ESTABLISHED CIRCULATION WITH WATER, PUMPED 255 SACKS OF 14.8 TYPE III CEMENT DOWN TUBING, BALANCED CEMENT WITH 4.2 BBL, EST TOC AT 1098', LD 37 JTS, EOT AT 601' WITH 18 JTS, ESTABLISHED CIRCULATION WITH WATER, OPENED WELL FOR 5 MINUTES, NO FLOW OR GAS MIGRATION, PUMPED 233 SACKS (47 BBL) OF 14.8 TYPE III CEMENT AND GOT CEMENT ON RETURNS, LD THE 18 JTS, CLEAN UP EQUIPMENT FROM CEMENT, ND BOP, RACK PUMP AND TANK, RDMOL. PUMPED TOTAL OF 287 SACKS 14.8 TYPE III CEMENT. MOVE IN ATP'S CUT AND CAP CREW, DUG DOWN 6' CUT OFF WELL HEAD, WELDED CAP ONTO SURFACE, INSTALLED MARKER PLATE ON CAP, BACKFILLED, SHUT DOWN.

FINAL REPORT.

226 JTS OF 2 3/8 J-55 4.7 AND 21 JTS OF 4 1/2 CASING SOLD TO KARST.

Operations Next Report Period

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
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Daily Completion Operations

Date: 9/25/2018
Report #: 2.0

Well Name: State Peterson 32-16

Well Name State Peterson 32-16	Operator PDC Energy Inc.	API 05123216640000	Well Number 105.003177	Last Mod By echavez	
District Evans	Field Name Wattenberg	County Weld	State CO		
Well Type Development	Surface Legal Location SWNE 16 5N 63W	Spud Date 9/26/2003	Original KB Elevation (ft) 4,670.00	Ground Elevation (ft) 4,660.00	KB-Ground Distance (ft) 10.00

Daily Operation: 9/25/2018 06:00 - 9/25/2018 18:00

AFE Number	Job Category Abandon	Objective PLUG AND ABANDON WELL.	Start Date 9/24/2018	End Date 9/26/2018	Primary Job Type Abandon Well LOE	Secondary Job Type
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Rigs

Contractor Ranger Energy Services	Rig Number 003
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Daily Operations

Report Start Date 9/25/2018	Report End Date 9/25/2018	Daily Field Est Total (Cost) 15,437.00	Cum Field Est To Date (Cost) 33,260.00
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Status at Reporting Time

Operations Summary

NO PRESSURES, OPENED WELL, PICKED UP STS'S 4 1/2 TENSION PACKER, RIH WITH PRODUCTION PIPE DOWN TO 1711' WITH 52 JTS, SET PACKER, PRESSURE TESTED DOWN TO THE PLUG, COMMUNICATED UP TO SURFACE, GOT A GOOD TEST FROM 1711' UP TO SURFACE, STARTED HUNTING HOLES, FOUND THE HOLES BETWEEN 2733' AND 2598', RELEASED PACKER, PULLED PIPE, LD PACKER, ND BOP AND 5K WELL HEAD, UNLANDED CASING PULLING 90K, NU BOP, WORKED CASING, GOT FREE CASING DOWN TO TOC AT 3830', MIRU RANGER WIRE LINE, WAIT 1 HOUR FOR APPROVAL FROM THE STATE TO CUT CASING, CUT CASING AT 2800', RD WIRE LINE, LD LIFTING SUB, PUMPED 2 SACKS OF SAPP DOWN CASING, CONDITIONED THE HOLE WITH MUD FOR 2 HOURS PUMPING 2.5 BBL/MIN, LD 65 JTS OF 4 1/2 CASING ON ATP'S TRAILER, CHANGED EQUIPMENT FROM 4 1/2 TO 2 3/8, SI AND SECURE WELL FOR THE NIGHT, SD.

Operations Next Report Period

PUMP A 60 SACK BALANCE PLUG AT 2902', PUMP A 255 SACK PLUG AT 1815', PUMP CEMENT FROM 601' UP TO SURFACE, LD PIPE, TOP OFF, RDMOL.

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	CREW TRAVEL, SAFETY MEETING.
07:00	09:30	2.50	3.50	RTRIP	Tripping	RIH WITH PACKER, FIND HOLES ON CASING, PULL PIPE.
09:30	10:30	1.00	4.50	WHRP	Well Head Work	ND BOP, UNLAND CASING, NU BOP.
10:30	12:00	1.50	6.00	WLWK	Wireline	WAIT AN HOUR TO GET AN ANSWER FROM THE STATE TO CUT CASING. CUT CASING AT 2800'.
12:00	14:30	2.50	8.50	CIRC	Circulating	CORCULATE THE HOLE FOR 2 HOURS.
14:30	17:00	2.50	11.00	PULT	Pull Tubing	PD 65 JTS OF 4 1/2 CASING.
17:00	18:00	1.00	12.00	TRAV	Travel - From Location	



Daily Completion Operations

Date: 9/24/2018

Report #: 1.0

Well Name: State Peterson 32-16

Well Name State Peterson 32-16		Operator PDC Energy Inc.		API 05123216640000		Well Number 105.003177		Last Mod By echavez	
District Evans		Field Name Wattenberg			County Weld			State CO	
Well Type Development		Surface Legal Location SWNE 16 5N 63W			Spud Date 9/26/2003		Original KB Elevation (ft) 4,670.00	Ground Elevation (ft) 4,660.00	KB-Ground Distance (ft) 10.00

Daily Operation: 9/24/2018 06:00 - 9/24/2018 17:00

AFE Number	Job Category Abandon	Objective PLUG AND ABANDON WELL.	Start Date 9/24/2018	End Date 9/26/2018	Primary Job Type Abandon Well LOE	Secondary Job Type
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Rigs

Contractor Ranger Energy Services	Rig Number 003
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Daily Operations

Report Start Date 9/24/2018	Report End Date 9/24/2018	Daily Field Est Total (Cost) 17,823.00	Cum Field Est To Date (Cost) 17,823.00
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Status at Reporting Time

Operations Summary

ITP 0 PSI, ICP 400 PSI, ISCP 0 PSI, WELL WAS SHUT IN, MIRU RANGER RIG 03, BLEW DOWN WELL TO RIG TANK, FUNCTION TESTED BOP, CIRCULATED OIL AND GAS OUT, GOT COMMUNICATION UP TO SURFACE, ND PRODUCTION TREE, NU BOP, PULLED 120 JTS TO DERRICK, LD 84 JTS ON ATP'S TRAILER, MIRU RANGER WIRE LINE, MADE A GAUGE RING RUN DOWN TO 6700', PU 4 1/2 10K CIBP, RIH WITH WIRE LINE, SET CIBP AT 6674' CORRELATED WITH LOGS, SPOTTED 2 SACKS OF CEMENT ON TOP OF THE PLUG, RAN SECOND CIBP, SET IT AT 6404' CORRELATED WITH LOGS, SPOTTED 2 SACKS OF CEMENT ON TOP OF THE PLUG. RIG DOWN WIRE LINE, LOADED THE HOLE WITH WATER, TRIED PRESSURE TESTING CASING, GOT COMMUNICATION UP TO SURFACE, SI AND SECURE WELL FOR THE NIGHT, SD.

Operations Next Report Period

FIND CASING HOLES, CUT CASING, CONDITION THE HOLE AND LD CASING.

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	CREW TRAVEL, SAFETY MEETING.
07:00	07:30	0.50	1.50	RMOV	Rig Move	
07:30	08:30	1.00	2.50	SRIG	Rig Up/Down	RIG UP RIG, PUMP AND TANK.
08:30	10:00	1.50	4.00	CIRC	Circulating	BLOW DOWN WELL, CIRCULATE OIL AND GAS OUT.
10:00	10:30	0.50	4.50	BOPI	Install BOP's	ND PRODUCTION TREE, NU BOP.
10:30	13:00	2.50	7.00	PULT	Pull Tubing	PULLED 120 JTS TO DERRICK, LD 84 JTS.
13:00	15:00	2.00	9.00	WLWK	Wireline	MADE A GAUGE RING RUN, SET CIBP AT 6674' AND AT 6404' WITH 2 SACKS OF CEMENT ON TOP OF EACH PLUG.
15:00	15:30	0.50	9.50	PTST	Pressure Test	PRESSURE TEST CASING, DIDN'T HOLD PRESSURE.
15:30	16:30	1.00	10.50	TRAV	Travel - From Location	



Daily Work Ticket

Report #

Customer Name PDC Energy		Customer AFE #		Date: 9/26/2018	
Mailing Address	City	State CO	Zip	County WELD	
Field	Lease	Well STATE PETERSON 32-16		Order #	
Work Description	Workover <input type="checkbox"/>	Rod <input type="checkbox"/>	Rod & Tubing <input type="checkbox"/>	Re-entry <input type="checkbox"/>	
	Swabbing <input type="checkbox"/>	Tubing <input type="checkbox"/>	Completion <input type="checkbox"/>	P & A <input checked="" type="checkbox"/>	

Description	Qty.	Rate Hr/Dav/Ea	Total	Workover Equipment	Qty.	Rate Hr/Dav/Ea	Total
Riq & Crew	10.50			BOP	1.00		
Extra Labor	11.50			Pump	1.00		
Riq Fuel	@			Tank	1.00		
Pump Fuel	@			Base Beam	1.00		
Cementing Services	@			Pipe Handler	@		
Extra Cement - Cementing Services	@			Loader	@		
P & A Bidded Cost	@			Pipe Racks	@		
				Power Swivel	@		
				JU/Washington H	1.00		
				Rod/TBG Tongs	@		
				Adapter Flange	@		
				Catwalk	@		



Daily Work Ticket

Report #

Customer Name PDC Energy		Customer AFE #		Date: 9/25/2018	
Mailing Address	City	State CO	Zip	County WELD	
Field	Lease	Well STATE PETERSON 32-16		Order #	
Work Description	Workover <input type="checkbox"/>	Rod <input type="checkbox"/>	Rod & Tubing <input type="checkbox"/>	Re-entry <input type="checkbox"/>	
	Swabbing <input type="checkbox"/>	Tubing <input type="checkbox"/>	Completion <input type="checkbox"/>	P & A <input checked="" type="checkbox"/>	

Description		Qty.	Rate Hr/Day/Ea	Total	Workover Equipment		Qty.	Rate Hr/Day/Ea	Total			
Riq & Crew		11.5			BOP		1.00					
Extra Labor		12.5			Pump		1.00					
Riq Fuel		@			Tank		1.00					
Pump Fuel		@			Base Beam		1.00					
Cementing Services		@			Pipe Handler		@					
Extra Cement - Cementing Services		@			Loader		@					
P & A Bidded Cost		@			Pipe Racks		@					
ReCharge Items					Power Swivel		@					
					Crew Travel			1.00				
					Tool Pusher			@				
					Per Diem			@				
					Stripper Rubbers			@				
					Pipe Wipers			1.00				
					Tong Dies			@				
					Slip Dies			@				
					Safety Valve			@				
					Fishing Tools-Recharge			@				
					Pipe Dope			@				
					Handling Equipment			@				
Gas Monitors and Pack			@		Swabbing Equipment							
Description					Swab Cups - Size		@					
					Miscellaneous			1.00				
					Miscellaneous			1.00				
					Discount:		\$0.00 (0.00%)					
					TOTAL BILLABLE AMOUNT							

Ranger Energy Services, LLC
800 Gessner, Suite 1000
Houston, TX 77024
(713) 935-8900
(713) 935-8901 (FAX)



151603

Rig # R5003

Daily Work Ticket

Report #

Customer Name PDC Energy		Customer AFE #		Date: 9/24/2018	
Mailing Address	City	State CO	Zip	County WELD	
Field	Lease	Well STATE PETERSON 32/16		Order #	
Work Description	Workover <input type="checkbox"/>	Rod <input type="checkbox"/>	Rod & Tubing <input type="checkbox"/>	Re-entry <input type="checkbox"/>	
	Swabbing <input type="checkbox"/>	Tubing <input type="checkbox"/>	Completion <input type="checkbox"/>	P & A <input checked="" type="checkbox"/>	

Description	Qty.	Rate Hr/Day/Ea	Total	Workover Equipment	Qty.	Rate Hr/Day/Ea	Total
Riq & Crew	10.00			BOP	1.00		
Extra Labor	11.00			Pump	1.00		
Riq Fuel	@			Tank	1.00		
Pump Fuel	@			Base Beam	1.00		
Cementing Services	@			Pipe Handler	@		
Extra Cement - Cementing Services	@			Loader	@		
P & A Bidded Cost	@			Pipe Racks	@		
				Power Swivel	@		
				JU/Washington H	@		
				Rod/TBG Tongs	@		
				Adapter Flange	@		
				Catwalk	@		

RANGER ENERGY SERVICES, LLC

WIRELINE DIVISION

3333 Center Dr
Milliken, Co



Service Date:

Company Name: PDC		Company Address:		Field Ticket Number: 10001158
Well Name: STATE PETERSON 32-16	Field: WATTENBERG	County: WELD	State: COLORADO	Rig Name & Number: RANGER #3
SERVICE NOTES: CUT 4.5" CASING @ 2800'			Date: 9/25/2018	Wireline Unit # 233 Engineer: A.REAGAN Operator: J.MICHAEL Operator:

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	5000-011	Jet Cutter Depth Charge	2800			
1	5000-014	Jet Cutter Operation Charge for Casing	1			

Customer Signature:	Customer Name Printed: BERNIE CHAVEZ	Ranger Energy Services Representative Signature:
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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.

RANGER ENERGY SERVICES, LLC

WIRELINER DIVISION

3333 Center Dr
Milliken, Co



Service Date:

Company Name: PDC		Company Address:		Field Ticket Number: 10001157
Well Name: STATE PETERSON 32-16	Field: WATTENBERG	County: WELD	State: COLORADO	Rig Name & Number: RANGER #3
SERVICE NOTES: RIH WITH 3.63" GAUGE RING @ 6700', SET STS CIBP @ 6674' WITH 2SX CEMENT, SET STS CIBP @ 6404' WITH 2SX CEMENT.			Date: 9/24/2018	Wireline Unit # 233 Engineer: A.REAGAN Operator: J.MICHAEL Operator: T. VAN NEST

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	6700			
1	8000-010	Junk Catcher / Gauge Ring Operation Charge	1			
2	8000-001	Bridge Plug Depth Charge	6674			
2	8000-002	Bridge Plug Operation Charge	1			
2	8000-015	Setting Tool Rental, per tool	1			
3	7000-006	Dump Bailer Depth Charge	6674			
3	7000-007	Dump Bailer Operation Charge	1			
4	8000-001	Bridge Plug Depth Charge	6404			
4	8000-002	Bridge Plug Operation Charge	1			
4	8000-015	Setting Tool Rental, per tool	1			
5	7000-006	Dump Bailer Depth Charge	6404			
5	7000-007	Dump Bailer Operation Charge	1			
7	8000-014	Standard Set Power Charge	2			

Customer Signature:	Customer Name Printed: BERNIE CHAVEZ	Ranger Energy Services Representative Signature:
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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.

COUNTY	COMPANY	API Number
Weld	PDC ENERGY	05-123-21664
WELL NAME	RIG	JOB TYPE
State Peterson 32-16	Ranger #3	Plug to Abandon
SURFACE WELL LOCATION	CJES Field Supervisor	CUSTOMER REP
40.401256 104.439541	Francisco Corral-Flores	Eduardo Chavez

EMPLOYEES

<i>Ryan Peterson</i>		
<i>Justin Collin</i>		
<i>Anthony Hagemeyer</i>		

WELL PROFILE

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

Open Hole

1	Size (in)	TMD From (ft)	TMD to (ft)	TVD From (ft)	TVD to (ft)
	10"	2902	365		
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)
Surface	8.625	24		0	365		
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (ft)	TVD to (ft)
Production	4.5	11.6		2800	2902		
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (ft)	TVD to (ft)
Tubing	2.375	4.7		0	2902		

CEMENT DATA

Stage 1:	From Depth (ft):	2902	To Depth (ft):	2689
Type: Stub Plug	Volume (sacks):	60	Volume (bbls):	12.3
Cement & Additives:				
100% Class G Neat		Density (ppg):	Yield (ft³/sk)	Water Req.
		15.8	1.15	5.00

Stage 2:	From Depth (ft):	1815	To Depth (ft):	1193
Type: Balance Plug	Volume (sacks):	255	Volume (bbls):	60.4
Cement & Additives:				
100% CJ922 Type III		Density (ppg):	Yield (ft³/sk)	Water Req.
		14.8	1.33	6.32

Stage 3:	From Depth (ft):	601	To Depth (ft):	0
Type: Surface Plug	Volume (sacks):	238	Volume (bbls):	48
Cement & Additives:				
100% CJ922 Type III		Density (ppg):	Yield (ft³/sk)	Water Req.
		14.8	1.33	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

			Stage 1	Stage 2
Preflushes:	18 bbls of	Fresh Water	Calculated Displacement (bbl):	10.4
	bbls of		Actual Displacement (bbl):	10.4
	bbls of			4.6
Total Preflush/Spacer Volume (bbl):	18		Plug Bump (Y/N):	N/A
Total Slurry Volume (bbl):	120.7		Lost Returns (Y/N):	N (if Y, when)
Total Fluid Pumped	153.7		Bump Pressure (psi):	N/A
Returns to Surface:	Cement	7 bbls		

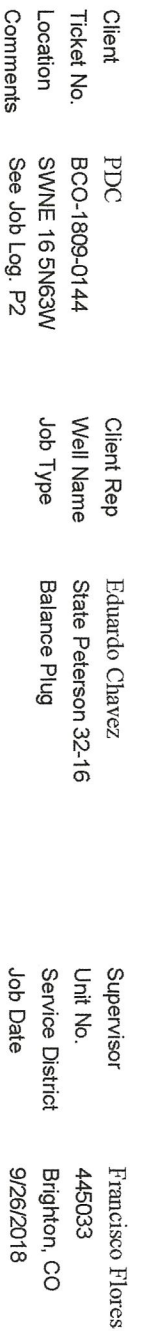
Job Notes (fluids pumped / procedures / tools / etc.):

Thank You For Using
CJES O-TEX Cementing

Customer Representative Signature:

C&J ENERGY SERVICES

1 of 1
9/26/2018



The graph displays pressure in psi on the vertical axis and time on the horizontal axis. The vertical axis is labeled from 0.00 to 2500.00 in increments of 500.00. The horizontal axis is labeled with times: 10:15, 10:22, 10:29, 10:36, 10:43, and 10:51. The data line is blue and shows a baseline near 0.00 psi until about 10:43. After 10:43, the pressure begins to rise, reaching approximately 1500.00 psi by 10:51, with some minor fluctuations during the rise.

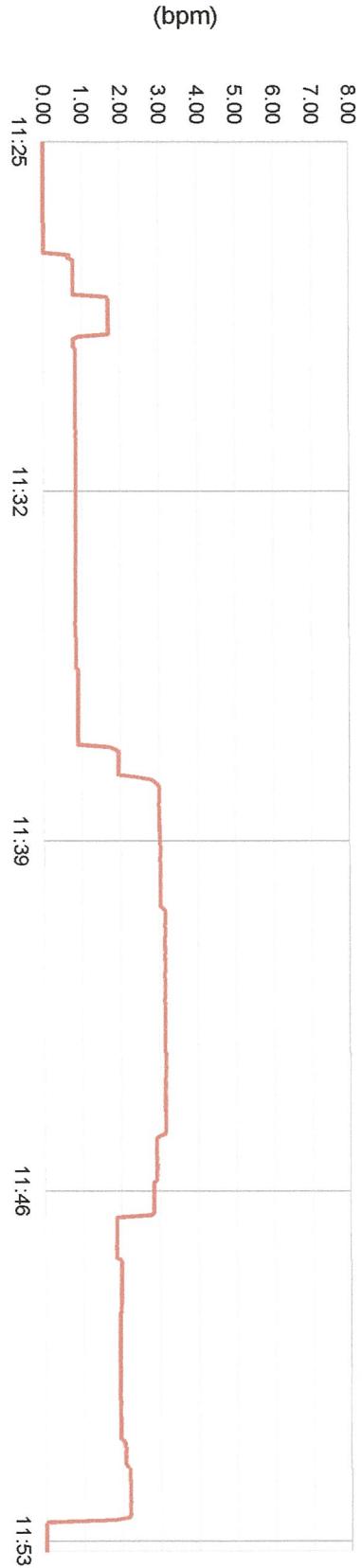
The graph displays the density of a water sample over time. The y-axis represents density in lb/gal, ranging from 0.00 to 20.00. The x-axis represents time, with labels at 10:15, 10:22, 10:29, 10:36, 10:43, and 10:51. The density starts at approximately 8.5 lb/gal at 10:15, rises to about 14.5 lb/gal by 10:22, and then remains relatively stable around 14.5 lb/gal until 10:51.

Time	Density (lb/gal)
10:15	8.5
10:22	14.5
10:29	14.5
10:36	14.5
10:43	14.5
10:51	14.5

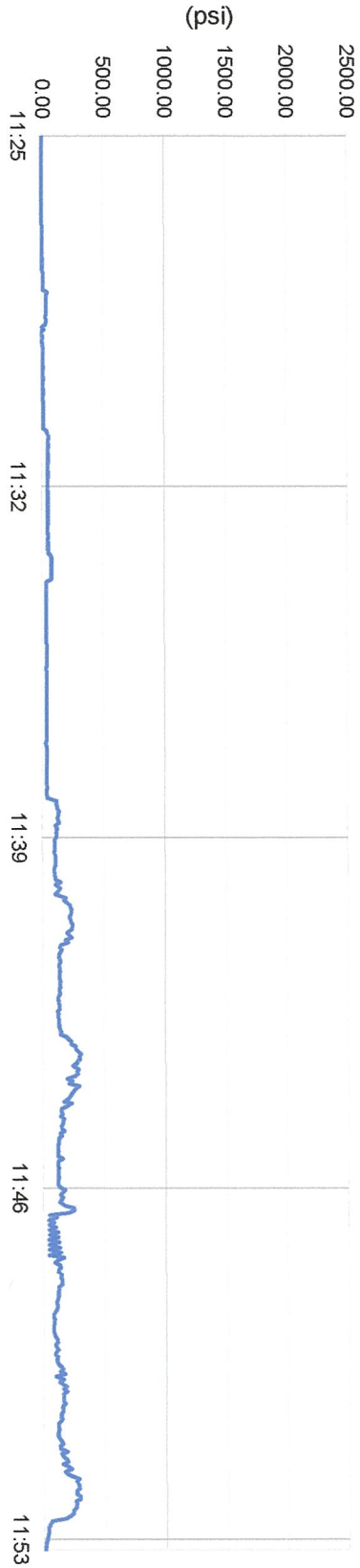


Client	PDCC	Client Rep	Eduardo Chavez	Supervisor	Francisco Flores
Ticket No.	BCO-1809-0144	Well Name	State Peterson 32-16	Unit No.	445033
Location	SWNE 16 5N63W	Job Type	Surface Plug	Service District	Brighton, CO
Comments	See Job Log: P3			Job Date	9/26/2018

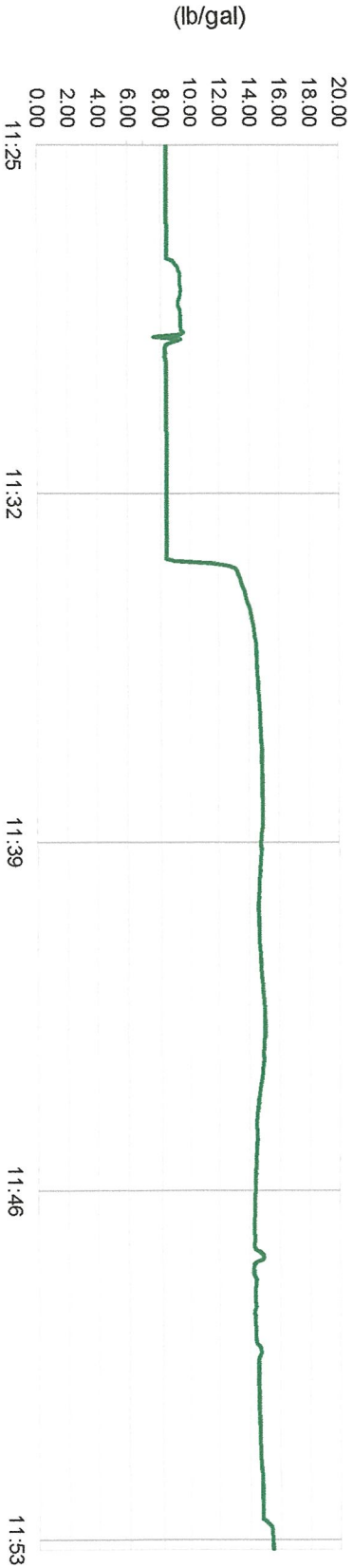
Unit 445033 Rate Total



Unit 445033 Pump Pressure



Unit 445033 Density





9/25/2018

9/25/2018

Terms: Net 30 Days

Date:

Mo 22843

8/29/2018

32-16

Invoice /

OCSG #:

[illegible]

100

QTY	PRICE	DSC	TOTAL
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Date: _____