



# Well History

Well Name: **Brown 20-1**

API 05123119630000	Surface Legal Location NWNW 20 4N 67W	Field Name Wattenberg	State CO	Well Configuration Type Vertical
Ground Elevation (ft) 4,894.00	Original KB Elevation (ft) 4,911.00	KB-Ground Distance (ft) 17.00	Spud Date 8/30/1984 19:52	Rig Release Date 10/1/1984 01:00
			On Production Date 1/31/1985	

**Job**

<b>Drilling - original, 8/30/1984 19:52</b>				
Job Category Drilling	Primary Job Type Drilling - original	Start Date 8/30/1984	End Date 10/22/1984	Objective Drill and complete new Codell well

<b>Daily Operations</b>		
Start Date	Summary	End Date

**Fracture Treatment, 7/5/2001 07:00**

Job Category Completion/Workover	Primary Job Type Fracture Treatment	Start Date 7/5/2001	End Date 8/11/2001	Objective Refrac the Codell
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<b>Daily Operations</b>		
Start Date	Summary	End Date

**Recompletion, 8/13/2008 09:30**

Job Category Completion/Workover	Primary Job Type Recompletion	Start Date 8/13/2008	End Date 10/29/2008	Objective Recomplete the Niobrara
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**Daily Operations**

Start Date	Summary	End Date
9/15/2008	180#s tbg/130#s csg/0#s surface csg, MIRU Ensign rig #304, blew well down, circulated gas and oil out, caught plunger, ND WH, NU BOPs, POOH laying down production tbg, (POOH w/227 jts 1.900" 2.76# J-55 IJ tbg, sn/nc - did not tally tbg - 1/3 of the pins are gas cut bad enough they will need replaced when ran back in), ND BOPs, removed Well Head Inc 3K tbg head, installed PDC owned 5K flange style WH, NU BOPs, PU STS Oil Tools 2 1/4" blade bit/csg scraper dressed for 2 7/8" 6.7# csg, TIH picking up tallying 1 1/4" 3.02# N-80 CSHD workstring, 192 jts in at 6002.03' KB and tools isolate well, SDFN	9/15/2008
9/16/2008	0#s at WH, continue TIH picking up tallying 1 1/4" workstring, tagged fill at 7260.95' KB and tools w/232 jts, RU to clean out, broke circulation, attempt to make hole, was not able to break through hard crust, PU power swivle, drilled through hard crust cleaning out to 7309.37' KB and tools (PBDT) w/15' in on jt 234, rolled hole clean, rack up swivle, POOH laying down 4 jts and standing back remaing 230 jts, LD tools, PU STS Oil Tools 2 7/8" WLTC RBP, TIH w/1 1/4" workstring, set RBP at 7194.77' KB and tools w/230 jts, LD 1 jt circulate gas and oil out, ND BOPs, flange up WH, RU H-S Testing, pressure tested csg to 5200 psi, held pressure 20 minutes, test good, release tester, ND WH, NU BOPs, POOH laying down 10 jts, spotted 1 sk sand across RBP (est sand top at (7179.97)'), POOH laying down 30 jts leaving 189 jts in the hole at 5906.25' KB, isolate well, SDFN.	9/16/2008
9/17/2008	0#s at WH, finish POOH laying down 1 1/4" workstring, RU Superior Wireline Services, RIH w/2 1/8" Scallop gun (two gun runs), correlate cased hole w/open hole logs getting on depth, select fired perforating Niobrara "B" 7032-7038 4 spf and Niobrara "A" 6968', 6964', 6960', 6957', 6948', 6945', all 4 spf, (48 holes total), 60 deg phasing, 6.5 gram Gunslinger charges, .27" entry holes w/27.51" penetration, all shots fired, wireline tag 7177', RD e-line, ND BOPs, remove WH, install BJS 3" 10K frac valve, isolate well, RDMO.	9/17/2008
10/27/2008	170#s production csg open flowing to sales/0#s surface csg, MIRU Ensign rig #304, prepare for tomorrows operations, left well open flowing to sales, SDFN.	10/27/2008
10/28/2008	210#s production csg open flowing to sales/0#s surface csg, blew well down, control well w/20 bbls 2% KCL, ND WH, remove BJS 3" frac valve, install new 3K Well Head Inc mandrel style tbg head, NU BOPs, PU STS Oil Tools retrieving head, TIH picking up tallying 1 1/4" 3.02# N-80 CSHD workstring, tagged sand fill at 7034.52' KB and tools w/225 jts, RU to clean out, broke circulation, circulated down latching onto RBP at 7194.77' KB and tools w/230 jts, rolled hole clean, released RBP, POOH laying down workstring and tools, prepare for tomorrows operations, isolate well, SDFN.	10/28/2008
10/29/2008	0#s at WH, RU H-S Testing, PU 1.900" O.D. x 1.500" I.D. notched seatnipple, TIH sorting through original production string and used replacement pipe throwing out bad gas cut pins and testing to 5000 psi, RD tester, PU tag jts, tagged sand fill at 7293.67' KB w/229 jts, RU to clean out, circulated down to 7309.00' KB (PBDT) w/230 jts, rolled hole clean, LD 3 jts, ND BOPs, land tbg at 7241.62' KB w/227 jts 1.900" 2.76# J-55 10 rd tbg, NU WH, dropped PCS full port standing valve and chased to seatnipple, isolate well, RDMO.	10/29/2008

**Wellbore Integrity, 7/21/2015 06:00**

Job Category Completion/Workover	Primary Job Type Wellbore Integrity	Start Date 7/21/2015	End Date	Objective WBI Prep
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**Daily Operations**

Start Date	Summary	End Date
7/21/2015	SCP 0 psi, STP 0 psi, SSCP 0 psi, held safety meeting, MIRU Bayou 3, opened well to rig tank, RU rig and all equipment, pressure tested hard lines, opened well to rig tank, function tested BOP's, ND WH, NU BOP's, held safety meeting, RU circulation equipment, broke circulation, rolled hole clean rolling out all oil and gas, changed equipment over to pull 1 1/2" 2.75# IJ production tubing, POOH w/production tbg laying down onto trailer provided by ATP, out of hole w/ 227 jts 1 1/2" 2.75# IJ tbg, sn/nc, tbg was landed at 7,273.34' KB, visually inspected tubing 141 jts have bad pins, ATP PU trailer and hauled to ATP yard, all tubing will be sold to ATP, Jones Trucking delivered out 1 1/4" CS Hydril WS, spotted in trailer, changed equipment over to run 1 1/4" WS, PU bit and scraper dressed for 2 7/8" 6.7# casing provided by STS, TIH w/ scraper and 234 jts of tubing, tagged @ 7,275.89', RU circulation equipment, rolled hole clean, no communication up surface casing, held safety meeting, POOH w/34 jts of tbg to trailer, leaving 200 jts in the hole @ 6217.12, SI and isolate well, shut and locked pipe rams on BOP's, drained lines and pump, prepared for next day operations, SDFN	7/21/2015



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Daily Operations		
Start Date	Summary	End Date
7/22/2015	<p>SCP 0 psi, STP 0 psi, SSCP 0 psi, held safety meeting, opened well to rig tank, held safety meeting, continued TOOH LD w/ 1 1/4" workstring onto trailer, MIRU Nabors Wireline, PU Baker 2 7/8" CIBP. RIH w/CIBP and collar locator getting on correct depth and setting CIBP @ 6,900'. CIBP set 45' above top Niobrara perf. POOH LD tools and PU dump bailor filled w/2 sacks of cement. RIH and dumped cement accross CIBP. POOH, PU and RIH GR/CCL/CBL/VDL log from 6300' to surface, found good cement top @ 5500', appears to be no cement from 5500'- 2700', unable to log above 2700' due to poor fluid. RD e-line, installed 5K WH. RU circulation equipment, loaded hole, pressure tested casing and plug to 2000 psi, held for 15 mins, good test, released pressure, RD circulation equipment. SI and isolate well, drained lines and pump, racked pump and tank, RDMOL</p> <p>Note: The 227 jts of 1 1/2" 2.75# IJ production tubing will be sold to ATP and FMT'd will be completed when check is received.</p>	7/22/2015

<b>Abandon Well, 11/4/2015 06:00</b>				
Job Category Abandon	Primary Job Type Abandon Well	Start Date 11/4/2015	End Date	Objective P&A Procedures

Daily Operations		
Start Date	Summary	End Date
11/4/2015	MIRU Ensign 354. Spot in equipment. RU. RU Pump and tank. Had trouble Rigging up because of unlevel location. ICP 0-psi. ISCP 0-psi. Open well. ND WH. NU BOPs. Pick up 1 1/4" mule shoe and TIH Picking up 210 jts to 6615' KB. Load tbg/csg. establish circulation. Circulate well clean. SWI, SDFN. Crew to yard.	11/4/2015
11/5/2015	Crew on location. Held safety meeting. ITP 0-psi. ICP 0-psi. ISCP 0-psi. Open well. Spot in cement equipment with CAT because of muddy location. Held safety meeting, pumped 10 sx of 15.8# cement, shut down cementers. TOOH Laying down 210 jts 1 1/4 CS Hydrill tbg. RU WL and perforated at 100'. RD WL. PU 17 jts 1 1/4" CS Hydrill to 523', Shut in surface csg and pumped cement till we got cement up casing. TOOH LD 17 jts 2 3/8" hydrill. Opened surface casing and rigged up cement to casing. Pumped down casing till we got returns up surface. pumped a total of 60 sacks of 15# cement or 14 bbls . RD Cementers. ND BOPs. ND WH. Rack up pump and tank. RDMO. Dug out Wellhead and Cut and cap surface. Backfill wellhead. SDFN. Crew to yard.	11/5/2015

<b>Abandon Well, &lt;dtmstart&gt;</b>				
Job Category Abandon	Primary Job Type Abandon Well	Start Date	End Date	Objective

Daily Operations		
Start Date	Summary	End Date

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**Service Ticket**

**9208137**

**Field Estimate**

Client Name PDC Energy, Inc.			Well Name Brown 20-1		Surface Well Location NW NW Sec 20:T4N:R67W		Job Date November 05, 2015	
			Job Type Abandonment Plugs		Down Hole Location		Service Point Fort Lupton	Call Sheet 1062246
Address PO Box 26 Attn: Accounts Payable			Client Representative Mr. Eloy Cossio		State CO	County Weld	Pricing Area Area U	
City Bridgeport	State WV	Postal Code 26330	Drilling Company Ensign Drilling Inc.		Rig No. 354	AFE/PO #		

District	Service, Equipment & Material Type	Disc	SL	Code	Quantity/Unit	Unit Price	Amount
D505	Travel Charge (1 Unit(s) X 30 miles)	58	12	1380	30	\$7.50	\$225.00
D505	Service Charge 6001 to 7000 ft	58	12	1110	1	\$7,300.00	\$7,300.00
D505	Twin Pumping	58	12	1150	1	\$1,460.00	\$1,460.00
D505	Handling Service Charge Min	58	12	1481	1	\$470.00	\$470.00
D505	Bulk Delivery / Return Minimum	58	12	1485	1	\$1,095.00	\$1,095.00
D505	SAM Unit	58	12	1497	1	\$1,015.00	\$1,015.00
D505	OWG	58	12	3000	60	\$30.00	\$1,800.00
D505	CFL-3	58	12	3132	20	\$13.20	\$264.00
D505	CFR-2	58	12	3161	17	\$10.00	\$170.00
D505	Calcium Chloride	58	12	3100	57	\$1.80	\$102.60
D505	EnviroBag	58	12	1492	1	\$78.00	\$78.00
D505	CDF-3L	58	12	3262	5	\$141.00	\$705.00
D505	Calcium Chloride	58	12	3100	50	\$1.80	\$90.00
D505	Environmental Surcharge	-	12	1493	1	\$50.00	\$50.00 *
D505	Sugar	-	12	3265	100	\$2.00	\$200.00 *

* Not Subject to Discount	Field Estimate	Before Discount: <b>\$15,024.60</b>
		Discount Amount: <b>\$8,569.27</b>
		Net Amount: <b>\$6,455.33</b>
		FOR OFFICE USE ONLY
<input type="checkbox"/> Cementing - Prim	<input checked="" type="checkbox"/> Cementing -Rem.	<input type="checkbox"/> Code 9000
<input type="checkbox"/> Coiled Tubing	<input type="checkbox"/> Nitrogen	
<input type="checkbox"/> Acidization	<input type="checkbox"/> Fracturing	
<input type="checkbox"/> Industrial Services	<input type="checkbox"/> MPCT	
<input type="checkbox"/> Other		
Field		Sales 1
		Sales 2
Comments Job went according to prog. and customers request. Plug #1 pumped 2.3 bbls of slurry @ 15.0 density, displaced 10.5 to balance. Plug #2 pumped 6.9 bbls. of slurr @ 15.0 densitiv. displaced 1 bbl.		This service ticket is not an invoice; pricing is subject to review and change without notice. This signature confirms that I have read and comply with the terms and conditions page of this service ticket.  X

## General Terms and Conditions

Under these terms and conditions ("T&Cs") Sanjel (USA) Inc. ("Sanjel") agrees to provide, and you agree to purchase, the goods and services in the attached proposal or work order ("goods," "services" or "goods and services"). You understand and agree that the T&Cs govern and control the provision of all goods or services Sanjel provides to you, including any goods or services Sanjel provides or performs under written or oral requests for goods or services. You accept the T&Cs by informing Sanjel or allowing Sanjel to provide goods and services, whichever is first. You cannot change the T&Cs, and Sanjel rejects any proposals on your forms or otherwise. When used in the T&Cs, "we," "us," and "our" refer to both you and Sanjel, collectively.

- 1. Entire Agreement.** If we have signed an agreement applicable to the goods and services, that agreement will apply and the T&Cs do not. If no signed agreement exists between us, the T&Cs are our entire agreement for the goods and services, and no prior discussion, agreement, conduct, or industry practice will affect them. The T&Cs may not be changed, superseded or replaced by any other agreement (including any terms in a purchase order, service order, invoice or other similar document) unless specifically agreed by each of us in writing.
- 2. Acknowledgment.** You understand that interpretations, research, analysis, advice or interpretational data furnished by Sanjel ("Recommendations") are opinions based on inferences from measurements, empirical relationships and assumptions and industry practice and that Recommendations are not infallible, and the opinions of professional geologists, engineers, drilling consultants and analysts may differ. Sanjel does not warrant the accuracy, correctness, or completeness of the Recommendations, or that your or any third party's reliance on the Recommendations will accomplish any particular results. You assume full responsibility for the use of and decisions based on the Recommendations, and you hereby agree to release, defend, indemnify and hold Sanjel harmless from Claims arising from the use of the Recommendations.
- 3. Payment.** You will pay Sanjel at the rates in the applicable proposal or work order (which are good for 90 days) in US dollars within 30 days of performance or a correct invoice, whichever is later. Sanjel may charge interest at 18% per year on all overdue amounts, and you will bear all costs of collection of overdue accounts, including legal fees.
- 4. Services.** You acknowledge and agree that the services Sanjel may perform are of such a nature that results cannot be guaranteed, and Sanjel makes no representations, warranties or guarantees with respect to the results of the services. Sanjel's only warranty with regard to the services is that they will conform to the material aspects of the applicable scope of work.
- 5. Goods.** Sanjel may provide goods to you under the T&Cs or in connection with the services. Sanjel warrants that goods will (a) substantially conform to the applicable scope of work (b) be free of defects and of good quality and workmanship, and (c) not be subject to any liens, claims or encumbrances. There are no warranties, express or implied, of merchantability, use, and fitness that extend beyond those expressly stated herein.
- 6. Warranty Remedies.** Sanjel will re-perform any non-conforming services if Sanjel is notified before leaving the work site, and will repair or replace any non-conforming or defective goods you notify Sanjel of within 30 days after Sanjel provided them to you free of charge. If Sanjel is unable to repair the non-conforming services, Sanjel will reimburse you for costs of a third party to repair such services, up to 10% of the original work order for such services. If fishing services are required to retrieve goods, Sanjel may specify the provider and be present during recovery. The remedies will not apply if damage is caused by: (i) your failure to properly store or maintain the goods, (ii) abnormal well conditions, abrasive materials, corrosion due to aggressive fluids or incorrect specifications, (iii) unauthorized alteration or repair of the goods, (iv) loss of goods while on your site due to your or any third party's negligence, vandalism or force majeure, (v) Sanjel's lack of or incorrect information regarding well conditions, or (vi) use or handling of the goods in a manner inconsistent with Sanjel's recommendations. Sanjel's warranty obligations will terminate if you fail to perform your obligations, including your failure to pay on time.
- 7. Delay and Cancellation.** If Sanjel cannot provide goods or services to you due to circumstances beyond its control, Sanjel may charge you actual costs incurred, including but not limited to: mileage; blending; materials (including handling and hauling); return delivery and restocking charges; and all location time in excess of the location time allowance. Orders for goods or services that you cancel after Sanjel has procured the required materials may be subject to a 25% restocking fee. If Sanjel provides materials to your specifications and you cancel for any reason (including an uncontrollable event) you will be charged a cancellation fee plus actual costs incurred as a result of such cancellation.
- 8. Taxes.** Prices are exclusive of any municipal, state, federal, special or use taxes or levies imposed on the sale of goods or services. You will be responsible for all

taxes applicable to the provision of the goods or services.

- 9. Additional Services Requests.** You will pay for services, equipment or materials not listed in a proposal but purchased or rented by Sanjel at your request at cost plus 25%. Sanjel has no liability to you for such services, equipment or materials.
- 10. Proprietary Rights.** You acknowledge that any intellectual property Sanjel uses in connection with the T&Cs, or that is created or developed by Sanjel in the course of performing under the T&Cs, is the property of Sanjel at all times, and you understand that you are not entitled to any intellectual property rights in any of Sanjel's intellectual property, except as required to receive the benefit of the goods or services.
- 11. Confidentiality.** Any non-public information that we learn about each other in connection with the T&Cs, including our relationship, is confidential information of the disclosing party, and neither of us may disclose confidential information of the other to any third party without the prior written consent of the disclosing party. We may each use confidential information of the other to perform under the T&Cs, and may share it only on a need-to-know basis with employees.
- 12. Indemnity.** (A) Subject to Section 12(b) below, each of us ("Indemnitor") hereby agrees to release, defend, indemnify and hold the other, its affiliates, officers, directors, agents, partners, joint venturers, employees and contractors of every tier ("Indemnitee Group") harmless for all losses, claims, demands, causes of action, costs and expenses (including reasonable legal fees) (collectively, "Claims"), for personal injury, death and property damage to Indemnitor, its affiliates, officers, directors, agents, partners, joint venturers, employees and contractors of every tier arising out of or incident to the T&Cs or any goods or services provided hereunder, without regard to whether such Claim is caused, in whole or in part, by the negligence (whether sole, joint or concurrent, active or passive), contractual liability or other fault of any member of the Indemnitee Group or by any defect or pre-existing condition (whether known or unknown, patent or otherwise). (B) You hereby agree to release, defend, indemnify and hold Sanjel harmless for any Claims Sanjel may suffer or incur arising out of or incident to: well blowout or any uncontrolled well condition, fire, cratering, redrill or sidetracking, seepage or reservoir damage, loss or damage to the hole, pollution and contamination (except sudden and accidental pollution originating above the service of the earth and emanating from Sanjel's equipment while in Sanjel's care, custody and control), and loss or damage to Sanjel's (or its contractors') equipment while down the hole at new replacement value; even if caused in whole or in part by the sole, joint or concurrent negligence or other fault of Sanjel or any other person.
- 13. Consequential Damages Exclusion:** Notwithstanding anything to the contrary, neither of us will be liable to the other for business interruptions, punitive, indirect or consequential damages relating to the goods or services (including but not limited to any loss of profit, loss of expected revenue, loss of hydrocarbons or loss of rig time).
- 14. Disposal of Chemicals.** You will arrange and be responsible for the disposal of any used chemicals and hazardous materials related to the goods or services.
- 15. Insurance.** Each of us will maintain, at its own cost, commercial general liability insurance covering its indemnification obligations under the T&Cs with combined single limits of at least \$5,000,000 per occurrence and in the aggregate, worker's compensation coverage as and in amounts required by applicable law, and automobile liability coverage with a combined single limit of \$2,000,000. We will obtain insurance from carriers with AM Best ratings of at least A-VII (or equivalent), ensure the other party is named as an additional insured, and ensure that our carriers waive rights of subrogation against the other party.
- 16. Uncontrollable Events.** Except for payment obligations, if either of us is unable to comply with the T&Cs because of events beyond our reasonable control, we will promptly notify the other in writing and will make reasonable efforts to restore our ability to perform as soon as possible. If the inability to perform continues for more than 10 days, the other party may cancel the applicable job immediately, by giving written notice to the affected party.
- 17. Waiver.** Failure to enforce any or all of the T&Cs will not relieve either party of its rights or obligations or constitute a waiver or prevent further enforcement.
- 18. Assignment.** You will not assign any of your rights or obligations under this PO without Sanjel's approval, which Sanjel may not unreasonably withhold. Any assignment in violation of this provision will be null and void.
- 19. Governing Law.** We agree that the laws of the State of Colorado govern the T&Cs, without the application of choice of law rules. Each of us voluntarily submits to the jurisdiction and venue of the federal or state courts (as applicable) of the State of Colorado for the adjudication of all disputes under the T&Cs.

April 2014



Client Name PDC Energy, Inc.	Well Name Brown 20-1	Rig Ensign Drilling Inc. 354	Job Date November 05,2015	Call Sheet 1062246
Client Representative Mr. Eloy Cossio	Surface Well Location NW NW Sec 20:T4N:R67W	Down Hole Well Location	Job Type Abandonment Plugs	Lead Supervisor Prigmore, Dominic (27161)

**Well Profile**

Well Type:	Oil
Maximum Treating Pressure (psi):	---
Predicted Bottom Hole Static Temperature (°F):	--- @ --
Bottom Hole Circulating Temperature (°F):	--- @ --
Bottom Hole Logged Temperature (°F):	--- @ --

**Casing**

Size (in)	Weight (lb/ft)	Grade	Collapse Pressure (psi)	Internal Yield Pressure (psi)	Capacity (bbl)	I.D. (in)	O.D. (in)	Depth From (ft)	Depth To (ft)
8.625	24.000	J-55	1,370.0	2,950.0	20.44	8.097	9.625	0.0	321.0

**Tubing**

Size (in)	Weight (lb/ft)	Grade	Collapse Pressure (psi)	Capacity (bbl)	I.D. (in)	O.D. (in)	Depth From (ft)	Depth To (ft)
2.875	6.500	J-55	7,680.000	38.290	2.441	3.668	0.000	6,615.000
1.660	2.400	J-55	8,490.000	12.240	1.380	2.200	0.000	6,615.000

**Products**

**Stage 1**

From Depth (ft): 6615  
To Depth (ft): 6218

Acids/Blends/Fluids :

Tail: 10 Sacks of 0-1-0 G, Density = 15 lb/gal, Volume Pumped = 2.3 (bbl)  
Water Temperature(°F) = 66 , Bulk Temperature(°F) = 66 , Slurry Temperature(°F) = 68  
+ 0.3 % of CFL-3 (Preblend),  
+ 0.25 % of CFR-2 (Preblend),  
+ 1 % of CaCl2 (Preblend)

**Stage 2**

From Depth (ft): 100  
To Depth (ft): 520

Acids/Blends/Fluids :

Tail: 30 Sacks of 0-1-0 G, Density = 15 lb/gal, Volume Pumped = 6.9 (bbl)  
Water Temperature(°F) = 66 , Bulk Temperature(°F) = 66 , Slurry Temperature(°F) = 68  
+ 0.3 % of CFL-3 (Preblend),  
+ 0.25 % of CFR-2 (Preblend),  
+ 1 % of CaCl2 (Preblend)

**Stage 3**

From Depth (ft): 0  
To Depth (ft): 100

Acids/Blends/Fluids :

Tail: 20 Sacks of 0-1-0 G, Density = 15 lb/gal, Volume Pumped = 4.5 (bbl)  
Water Temperature(°F) = 66 , Bulk Temperature(°F) = 66 , Slurry Temperature(°F) = 68  
+ 0.3 % of CFL-3 (Preblend),  
+ 0.25 % of CFR-2 (Preblend),  
+ 1 % of CaCl2 (Preblend),  
+ 0.5 % of CaCl2 (Prehydrate)

#### Fluid & Cement Data

Expected Cement Top:	Surface				
<b>Wellbore Fluid</b>					
<u>Fluid Type</u>	<u>Viscosity (cP)</u>	<u>Density (lbs/gal)</u>	<u>Yield Point (psi)</u>	<u>Temperature (°F)</u>	<u>Recorded@</u>
Water	--	--	--	--	Jul 20, 2015 15:46

#### Units & Personnel

<b>Units</b>							
<u>Truck Unit No.</u>	<u>Main Type</u>	<u>Sub Type</u>	<u>Tractor Unit No.</u>	<u>Main Type</u>	<u>Sub Type</u>	<u>Time On Location</u>	<u>Time Off Location</u>
201017	PICKUP	1 Ton	449086	TRAILER	Utility Trailer	11/05/2015 06:30	11/05/2015 13:00
445046	TRAILER	SCM Twin	745046	TRACTOR	Tandem - Tractor	11/05/2015 06:30	11/05/2015 13:00
446047	TRAILER	Bulker	746047	TRACTOR	Tandem - Tractor	11/05/2015 06:30	11/05/2015 13:00

#### Crew and Bonuses

<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>	<u>Second Start Shift</u>	<u>Second End Shift</u>
Prigmore, Dominic (27161)	11/05/2015 07:00	11/05/2015 13:00		
Pigg, Martin (28301)	11/05/2015 07:00	11/05/2015 13:00		
Vitera, John (29843)	11/05/2015 07:00	11/05/2015 13:00		



Treatment Reports & Remarks

Treatment Report								
Event #	Event Time	Event Description	Fluid Type	Rate (bbl/min)	Tubular Pressure (psi)	Annular Pressure (psi)	Stage Volume (bbl)	Total Volume (bbl)
1	Nov 05,2015 06:30	Arrive On Location		--	--	--	--	0.00
2	Nov 05,2015 06:40	Crew Briefing (Rig in)		--	--	--	--	0.00
3	Nov 05,2015 08:40	Rig in Complete		--	--	--	--	0.00
4	Nov 05,2015 08:50	Crew Briefing (Pre Job)		--	--	--	--	0.00
5	Nov 05,2015 09:00	Pressure Test Start	Water	--	2,700.0	--	--	0.00
6	Nov 05,2015 09:01	Pressure Test Complete	Water	--	2,700.0	--	--	0.00
7	Nov 05,2015 09:03	Establish Circulation	Water	1.00	1,100.0	--	3.00	3.00
		Remarks: Circulation						
8	Nov 05,2015 09:07	Mix Cement	0-1-0 G	1.00	1,500.0	--	2.30	5.30
		Remarks: T.O.C 6218'						
9	Nov 05,2015 09:10	Displace Fluid	Water	1.00	1,550.0	--	10.50	15.80
		Remarks: Displaced to balance.						
10	Nov 05,2015 09:20	Wait On Instructions		--	--	--	--	15.80
		Remarks: Wait for rig to pull to 520' and wire-line						
11	Nov 05,2015 11:53	Establish Circulation	Water	0.50	17.0	--	2.00	2.00
		Remarks: Circulation						
12	Nov 05,2015 11:55	Mix Cement	0-1-0 G	1.50	300.0	--	6.90	8.90
		Remarks: T.O.C 100'						
13	Nov 05,2015 12:40	Mix Cement	0-1-0 G	1.50	40.0	--	4.50	13.40
		Remarks: Cement to surface.						
14	Nov 05,2015 13:09	Job Complete		--	--	--	--	15.80
15	Nov 05,2015 13:30	Leave Location		--	--	--	--	15.80

Did Float Hold:

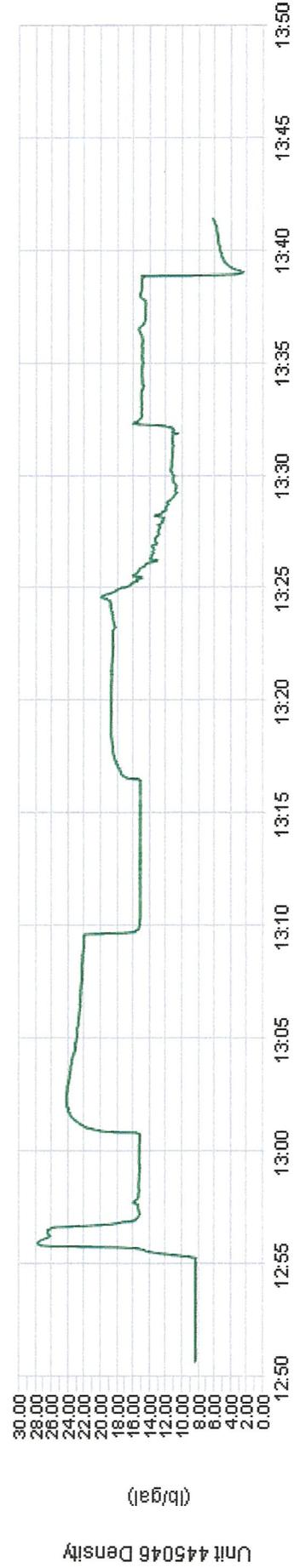
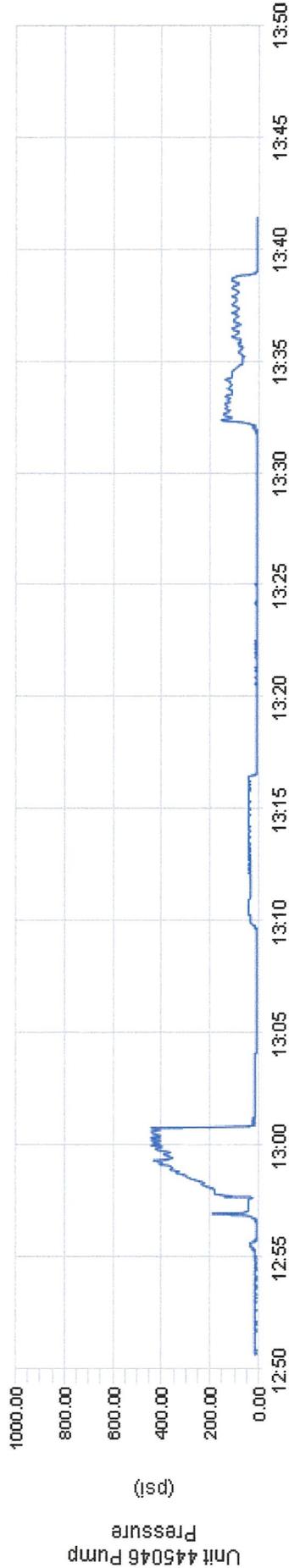
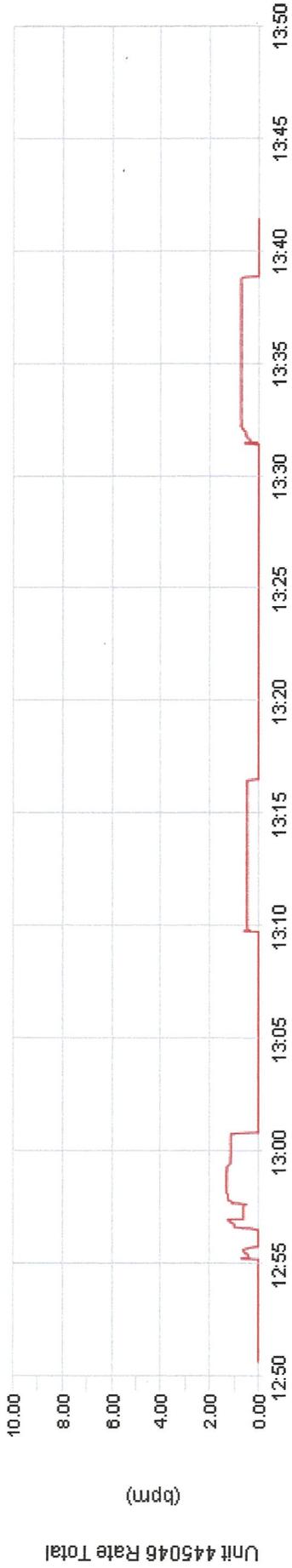
Fluid Returns : Yes  
 Type : Cement  
 Volume (bbl) : 1  
 Temperature (°F) : 70  
 FDAS Functioning Correctly : Yes  
 Was the Program Followed As Per Design? : Yes

Material Transfer Sheet Number

Material Transfer Sheet Number  
 63693  
 63694



Client	PDC Energy, Inc.	Client Rep	Eloy Cossio	Supervisor	Nick Prigore
Ticket No.	9208137	Well Name	Brown 20-1	Unit No.	445046
Location	NW NW Sec:T4N:R67W	Job Type	Abandonment Plugs	Service District	Fort Lupton, Co.
Comments	20 sacks of 0-1-0 G Density 15.0 .3% CFL-3 .25 % CFR-2 1% CaCl2	Job Date	11/05/2015		





Sater Tools and Services LLC, 19708 CR 50.5, LaSalle CO 80645 Office 970-301-2028 Fax 970-284-7808

Field Ticket # **N2 15707**  
 15707  
 Date 11/5/2015

Bill To Customer:	P D C	PO#	Lease Name:	Brown	Well #:	20-1
Address:	3801 Carson Ave	AFE # PA000310	County:	CO	Invoice Ref. #:	
City:	Evans	Field:	Job Type:	CO	OCSG #:	
State:	CO	Legal Description:	Casing Sz & Wt:	4-1/2 11.6#		
Ordered By:	Eloy Cossio		Service Man:	MERCED TERRAZAS		

NO.	RENTALS/SALES	QTY	PRICE	DSC	TOTAL
1	Rental of LYT elevators	1	505.00	35%	\$328.25
2	Rental of 1-1/4 cs pin x 2-3/8 8rd box	1	125.00	35%	81.25
3					0.00
4					0.00
5					0.00
6					0.00
7					0.00
8					0.00
9					0.00
10					0.00
11					0.00
12					0.00
13					0.00
14					0.00
Subtotal Taxable Charges					\$409.50

SERVICE MANS TIME					\$0.00
Subtotal Non-Taxable Charges					\$0.00
Subtotal Non-Taxable Charges					\$0.00
Subtotal Non-Taxable Charges					\$0.00

MILEAGE		QTY	PRICE	TOTAL	
Mileage		30	\$2.95	\$88.50	
Subtotal Non-Taxable Charges					\$88.50

Subtotal Non-Taxable Charges	\$88.50
Terms: Net 30 Days	
Total Service & Material:	\$498.00
Tax:	\$11.88
TOTAL CHARGES:	\$509.88

Authorized Agent: \$ Date: 11/9/15





# NABORS

## FIELD TICKET No.

## 28710

PLEASE REMIT TO:  
**NABORS COMPLETION & PRODUCTION SERVICES CO.**  
 P.O. BOX 975682  
 DALLAS, TX 75397-5682  
 435-725-5344

DELIVERED FROM 45  
 DATE 11-5-15

<b>INVOICE NO.</b>		P.O. NO.	AFE NO.
CUSTOMER NO.		LEASE <u>Brown 20-1</u>	WELL NO.
CUSTOMER <u>PDC</u>		FIELD <u>Wattah</u> STATE <u>CO</u>	COUNTY <u>W. Ad</u>
ADDRESS		LOCATION <u>WCR44415</u>	
CITY		CASING SIZE & WT. <u>2 7/8"</u>	TBG. SIZE
STATE	ZIP	TYPE OF JOB <u>Sp hole</u>	
ORDERED BY <u>Cossio</u>		TITLE	SERVICE SUPV.

PART NO.	DESCRIPTION	REV. CODE	QTY.	UNIT PRICE	AMOUNT
75-810-1111	Sp Gun 1-9/16 4' CPT	M.10			\$ 1300
75-810-1111	16 shot 2 Entry Hole at 100'		6	\$ 25	\$ 150
					\$ 1450
	<i>1/2 clay</i>				
				less 15%	(\$ 217 =)

CALLED OUT _____ Time _____ Date	ON LOCATION _____ Time _____ Date	COMPLETED _____ Time _____ Date	TOTAL SERVICE & MATERIALS DISCOUNT TAX TOTAL CHARGES <u>\$ 1233 =</u>
--	---	---------------------------------------	--

**WITH MY INITIALS, I CONFIRM THAT THE TIME SHOWN IN THE "HOURS" COLUMN, ACCURATELY REFLECTS MY COMPENSABLE TIME.**

I was not injured, involved in or witness to an accident during the performance of this work. If an injury or accident occurred a signature is not to be provided. The injury or accident is to be reported to the supervisor so that a report can be prepared.

I hereby attest that my employer NCPSS, did permit me to eat while working.

Employee Name (Print)	Hours	Initials	Employee Number
<u>Jake M. Shuck, T.K.</u>			

CUSTOMER AGREES to pay Nabors Completion & Production Services Co. (the "Company") on a net 30 day basis from date of invoice. If Customer disputes any item invoiced, Customer shall, within 20 days after receipt of invoice, notify the Company of the item(s) disputed, specifying the reason(s) therefor; payment of the disputed item(s) may be withheld until settlement of dispute, but payment of undisputed portion of invoice shall be made without delay. All payments shall be made at the address shown on the reverse side of this document. In the absence of a separate written contract, CUSTOMER REPRESENTATIVE REPRESENTS AND WARRANTS THAT HE/SHE IS AUTHORIZED TO ENTER INTO THIS AGREEMENT ON BEHALF OF CUSTOMER AND ACCEPTS ALL TERMS AND CONDITIONS AS PRINTED ON THE REVERSE SIDE OF THIS DOCUMENT (WHICH INCLUDES INDEMNITY LANGUAGE THAT ALLOCATES RISKS RELATED TO THE ABOVE DESCRIBED SERVICES). Pricing and extensions, if shown above, are subject to verification and correction at time of invoicing.

X \_\_\_\_\_  
 NABORS COMPLETION & PRODUCTION SERVICES CO.

X \_\_\_\_\_  
 CUSTOMER REPRESENTATIVE