

# CEMENT JOB REPORT



<b>CUSTOMER</b> NGL WATER SOLUTIONS DJ L			<b>DATE</b> 05-AUG-14		<b>F.R. #</b> 10011087569		<b>SERV. SUPV.</b> Zachary Fagg						
<b>LEASE &amp; WELL NAME</b> SWD #C11 - API 05123385330000			<b>LOCATION</b> 27-5N-61W			<b>COUNTY-PARISH-BLOCK</b> Weld Colorado							
<b>DISTRICT</b> Brighton			<b>DRILLING CONTRACTOR RIG #</b>			<b>TYPE OF JOB</b> Intermediate							
<b>SIZE &amp; TYPE OF PLUGS</b>		<b>LIST-CSG-HARDWARE</b>		<b>MECHANICAL BARRIERS</b>		<b>MD</b>	<b>TVD</b>	<b>HANGER TYPES</b>		<b>MD</b>	<b>TVD</b>		
Cement Plug, Rubber, Top 7 in		Float Shoe 7 - 8rd											
		Float Collar, Pop Valve, 7 - 8rd											
		Centralizer, with Pins, 7 in											
		Cement Basket, Slip On, 7 in											
		Stage Cementing Tool 7 - 8rd											
<b>MATERIALS FURNISHED BY BJ</b>				<b>LAB REPORT NO.</b>		<b>PHYSICAL SLURRY PROPERTIES</b>							
						<b>SACKS OF CEMENT</b>	<b>SLURRY WGT PPG</b>	<b>SLURRY YLD FT<sup>3</sup></b>	<b>WATER GPS</b>	<b>PUMP TIME HR:MIN</b>	<b>Bbl SLURRY</b>	<b>Bbl MIX WATER</b>	
Fresh Water						0	8.34	0	0	00:00	20		
UltraFlush Spacer						0	11.5	0	0	00:00	20		
(50:50:2) + Adds						160	14.4	1.45	6.33	05:02	41	23.93	
Fresh Water							8.34				296.15		
Fresh Water						0	8.34	0	0	00:00	10		
UltraFlush						0	11.5	0	0	00:00	20		
PLC + Adds						625	12.7	1.86	9.98	00:00	207	148.81	
(50:50:2) + Adds						50	14.4	1.45	6.33	00:00	0	0	
DRILLING MUD						0	9.3	0	0	00:00	242		
DRILLING MUD						0	0	0	0	00:00	294		
Available Mix Water 500 Bbl.				Available Displ. Fluid 500 Bbl.				<b>TOTAL</b>		1150.15		172.74	
<b>HOLE</b>			<b>TBG-CSG-D.P.</b>						<b>COLLAR DEPTHS</b>				
<b>SIZE</b>	<b>% EXCESS</b>	<b>DEPTH</b>	<b>ID</b>	<b>OD</b>	<b>WGT.</b>	<b>TYPE</b>	<b>MD</b>	<b>TVD</b>	<b>GRADE</b>	<b>SHOE</b>	<b>FLOAT</b>	<b>STAGE</b>	
8.75	25	7749	6.276	7	26	CSG	7738	7738	P-110	7738	7691	6331	
<b>LAST CASING</b>			<b>PKR-CMT RET-BR PL-LINER</b>				<b>PERF. DEPTH</b>		<b>TOP CONN</b>		<b>WELL FLUID</b>		
<b>ID</b>	<b>OD</b>	<b>WGT</b>	<b>TYPE</b>	<b>MD</b>	<b>TVD</b>	<b>BRAND &amp; TYPE</b>	<b>DEPTH</b>	<b>TOP</b>	<b>BTM</b>	<b>SIZE</b>	<b>THREAD</b>	<b>TYPE</b>	<b>WGT.</b>
8.9	9.63	36	CSG	737	737	NO PACKER	0	0	0	7	8 RND	WATER BASED	9.3
<b>DISPL. VOLUME</b>		<b>DISPL. FLUID</b>		<b>CAL. PSI</b>	<b>CAL. MAX PSI</b>	<b>OP. MAX</b>	<b>MAX TBG PSI</b>		<b>MAX CSG PSI</b>		<b>MIX WATER</b>		
<b>VOLUME</b>	<b>UOM</b>	<b>TYPE</b>	<b>WGT.</b>	<b>BUMP PLUG</b>	<b>TO REV.</b>	<b>SQ. PSI</b>	<b>RATED</b>	<b>Operator</b>	<b>RATED</b>	<b>Operator</b>			
536	BBLS	Fresh Water	8.34	1432	0	0	0	0	7968	5455	RIG		
		DRILLING MUD	9.3										
<b>Circulation Prior to Job</b>													
Circulated Well: Rig <input checked="" type="checkbox"/> BJ <input type="checkbox"/>						Circulation Time: 10			Circulation Rate: 5 BPM				
Mud Density In: 9.3 LBS/GAL Mud Density Out: 9.3 LBS/GAL						PV & YP Mud In: 10			PV & YP Mud Out: 10				
Gas Present: NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> Units:						Solids Present at End of Circulation:			NO <input checked="" type="checkbox"/> YES <input type="checkbox"/>				
<b>Displacement And Mud Removal</b>													
Displaced By: Rig <input checked="" type="checkbox"/> BJ <input checked="" type="checkbox"/>						Amount Bled Back After Job: 1.5 BBLS							
Returns During Job: <input type="checkbox"/> NONE <input type="checkbox"/> PARTIAL <input checked="" type="checkbox"/> FULL						Method Used to Verify Returns: VISUAL							
Cement Returns at Surface: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO						Were Returns Planned at Surface: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES							
Pipe Movement: <input type="checkbox"/> ROTATION <input type="checkbox"/> RECIPROCATION <input checked="" type="checkbox"/> NONE <input type="checkbox"/> UNABLE DUE TO STUCK PIPE													
Centralizers: <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES						Quantity: 40		Type: <input type="checkbox"/> BOW <input type="checkbox"/> RIGID					
Job Pumped Through: <input type="checkbox"/> CHOKE MANIFOLD <input type="checkbox"/> SQUEEZE MANIFOLD <input checked="" type="checkbox"/> MANIFOLD <input type="checkbox"/> NO MANIFOLD													
<b>Plugs</b>													
Number of Attempts by BJ: 0 Competition: 0						Wiper Balls Used: <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES Quantity: 0							
Plug Catcher Used: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES						Parabow Used: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES							
Was There a Bottom: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES						Top of Plug: 0 FT			Bottom of Plug: 0 FT				

# CEMENT JOB REPORT



## Squeezes (Update Original Treatment Report for Primary Job)

BLOCK SQUEEZE ☐ SHOE SQUEEZE ☐ TOP OF LINER SQUEEZE ☐ PLANNED ☐ UNPLANNED ☐  
 Liner Packer: ☒ NO ☐ YES Bond Log: ☒ NO ☐ YES PSI Applied: 0 Fluid Weight: 0 LBS/GAL

## Casing Test (Update Original Treatment Report for Primary Job)

Casing Test Pressure: PSI With 9.3 LBS/GAL Mud Time Held: Hours Minutes

## Shoe Test (Update Original Treatment Report for Primary Job)

Depth Drilled out of Shoe: 0 FT Target EMW: 0 LBS/GAL Actual EMW: 0 LBS/GAL  
 Number of Times Tests Conducted: 0 Mud Weight When Test was Conducted: 0 LBS/GAL

Problems Before Job (I.E. Running Casing, Circulating Well, ETC)

RIG LOST CIRCULATION FOR AN ESTIMATED 6 HOURS; CEMENT TESTED SHORT ON SETUP TIME 3 TIMES.

Problems During Job (I.E. Lost Returns, Equipment Failure, Bulk Delivery, Foaming, ETC)

WHILE BATCHING UP TAIL SLURRY ON 2ND STAGE A HYDRAULIC HOSE ON SLURRY PUMP BLEW AND POURED HYDRAULIC OIL ON GROUND UNDER THE PUMP. APPROX 20 GALLONS.

Problems After Job (I.E. Gas at Surface, Float Equipment Failed, ETC)

NONE

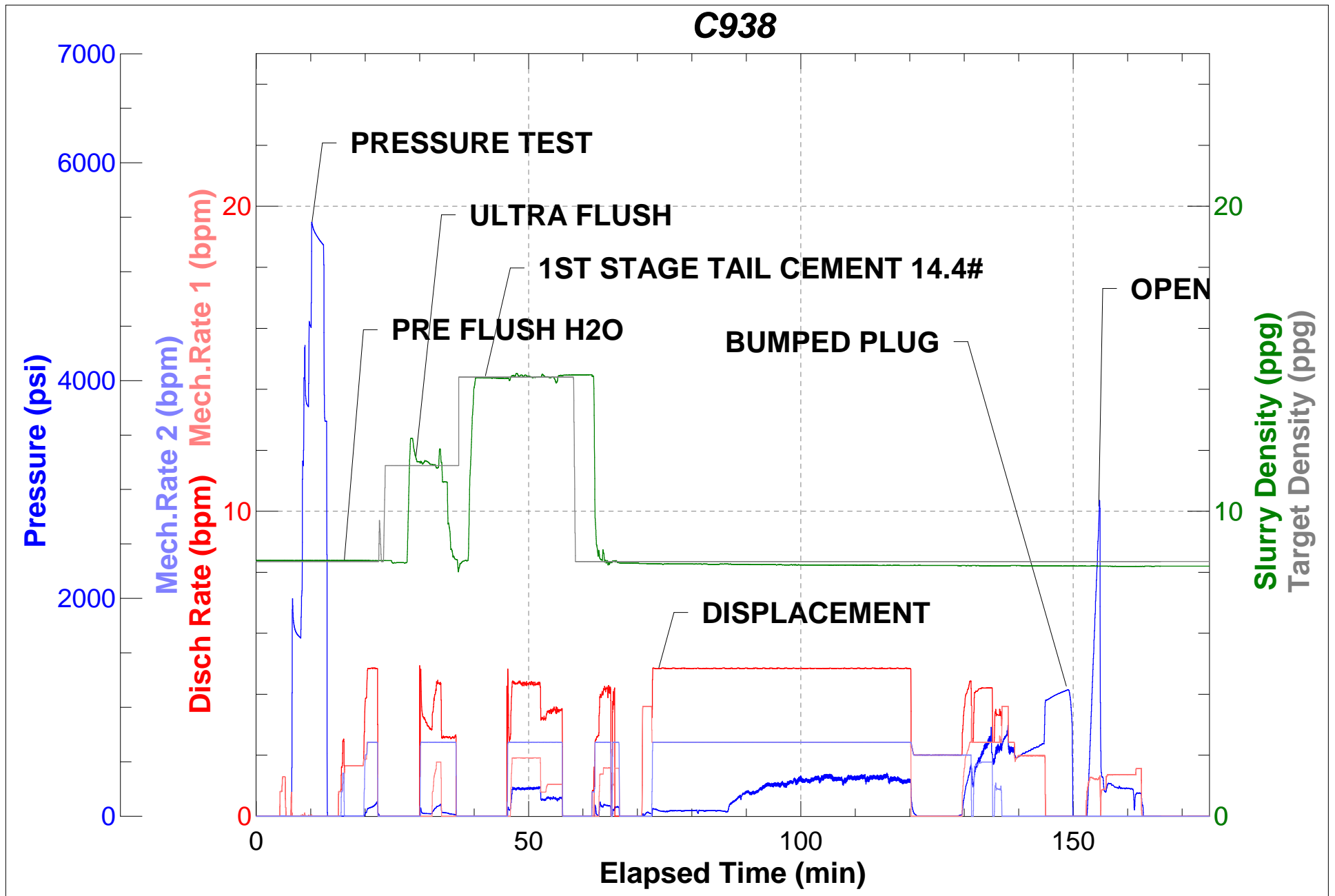
EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING NONE

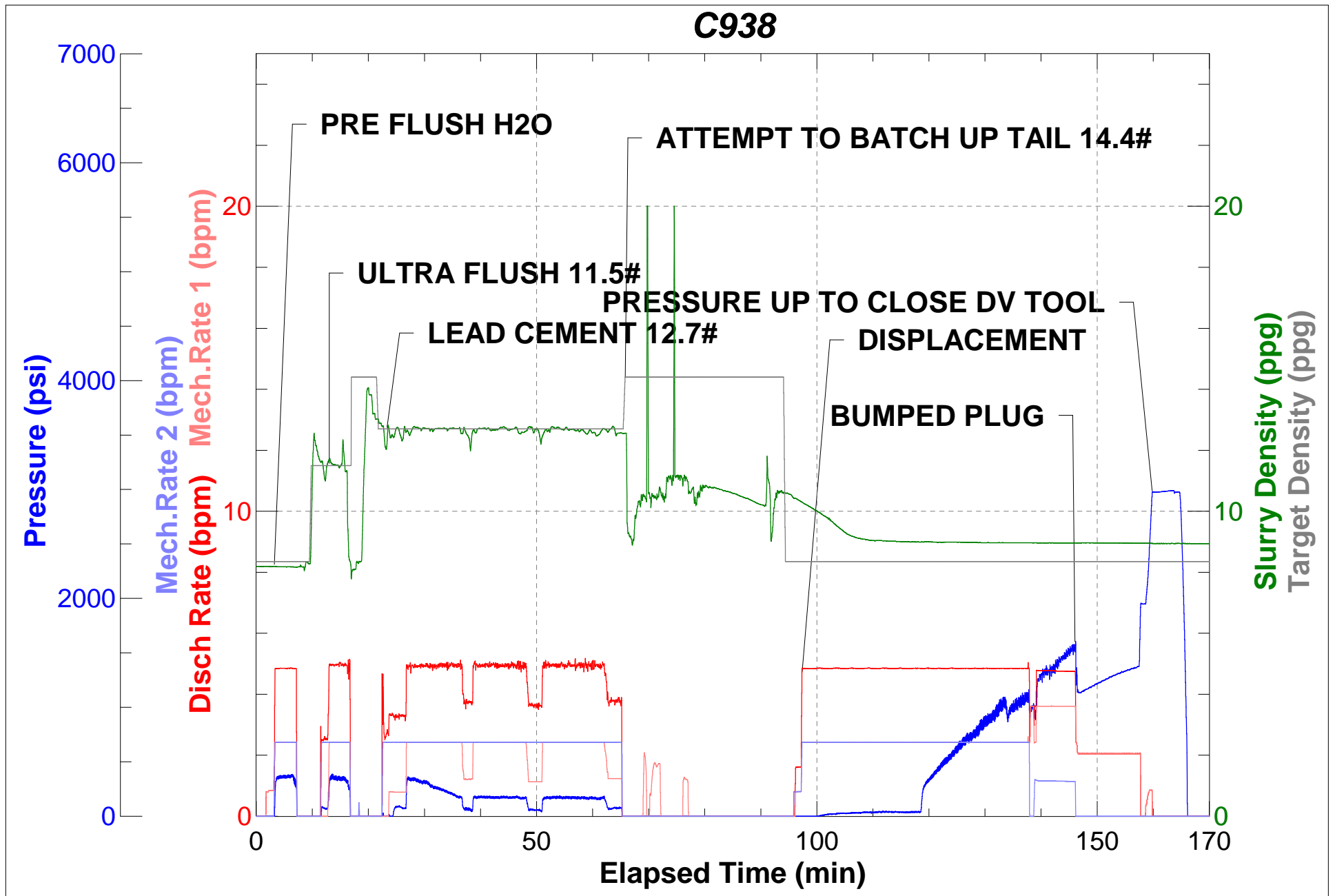
PRESSURE/RATE DETAIL						EXPLANATION
TIME HR:MIN.	PRESSURE - PSI		RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	SAFETY MEETING: BJ CREW <input checked="" type="checkbox"/> CO. REP. <input checked="" type="checkbox"/>
	PIPE	ANNULUS				TEST LINES 5455 PSI
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>
16:08	0	0	0	0	N/A	LEAVE YARD
17:45	0	0	0	0	N/A	ON LOCATION (63 MILES) RUNNING CSG
21:00	0	0	0	0	N/A	TALKED TO COMPANY MAN AND FOUND OUT THAT RIG LOST CIRCULATION
01:53	0	0	0	0	N/A	RIG UP AS FAR AS POSSIBLE
03:00	0	0	0	0	N/A	RIG ESTABLISHED CIRCULATION
04:00	0	0	0	0	N/A	CSG CREW RIGGING DOWN (WAITING ON CMNT)
05:30	0	0	0	0	N/A	NOTIFIED THAT CMNT IS GOOD AND HEADED TO LOCATION
07:30	0	0	0	0	N/A	CMNT FOR STG 1 ARRIVES ALONG WITH RELIEF CREW
08:00	0	0	0	0	N/A	SAFETY MEETING AND FINISHING RIGGING UP
08:36	0	0	1	1	H2O	LOAD LINES
08:38	2042	0	0	0	H2O	PRESSURE TEST
08:40	5455	0	0	0	H2O	PRESSURE TEST
08:45	72	0	4.8	20	H2O	PRE FLUSH
08:56	91	0	4.4	20	H2O	BARITE + ULTRA FLUSH 11.5 PPG
09:10	258	0	4.5	39.3	CMNT	2ND TAIL CMNT. 14.4 PPG
09:28	0	0	0	0	N/A	SHUT DOWN
09:30	0	0	0	0	N/A	LOAD PLUG
09:33	0	0	0	0	N/A	WASH UP
09:43	0	0	0	0	N/A	DROP PLUG
09:44	390	0	4.8	294.3	MUD	DISPLACE 9.3 PPG MUD
10:32	36	0	2	237	MUD	SLOW RATE (GOING THROUGH DV TOOL)
10:41	660	0	4.2	247	MUD	RAISE RATE (PASSED DV TOOL)
10:53	588	0	2	290	MUD	SLOW RATE
10:57	1055	0	0	0	N/A	BUMP PLUG
11:02	0	0	0	0	N/A	CHECK FLOATS
11:04	2899	0	1.4	1	MUD	PRESSURE UP
11:07	290	0	1.4	5	MUD	DISPLACE 5 ADDITIONAL BBLs
11:14	0	0	0	0	N/A	SHUT DOWN
11:24	0	0	0	0	N/A	RIG TAKES OVER TO CIRCULATE
17:03	0	0	0	0	N/A	SAFETY MEETING FOR 2ND STAGE

# CEMENT JOB REPORT



PRESSURE/RATE DETAIL						EXPLANATION		
TIME HR:MIN.	PRESSURE - PSI		RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	SAFETY MEETING: BJ CREW <input checked="" type="checkbox"/> CO. REP. <input checked="" type="checkbox"/>		
	PIPE	ANNULUS				TEST LINES	5455 PSI	
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>		
17:31	251	0	4.8	20	WATER	PRE FLUSH		
17:41	333	0	4.9	20	WATER	ULTRA FLUSH		
17:47	300	0	4.9	202	CMNT	LEAD CEMENT 12.7 PPG		
18:36	0	0	0	0	CMNT	ATTEMPTED TO BATCH UP AND SEND TAIL SLURRY		
18:40	0	0	0	0	N/A	BLEW HYDRAULIC HOSE ON SLURRY PUMP		
18:55	0	0	0	0	N/A	COMPANY REP DECIDED AFTER EXHAUSTING ALL OF OUR OPTIONS TO GO AHEAD AND SKIP TAIL SLURRY AND DISPLACE		
19:01	0	0	0	0	N/A	LOAD PLUG		
19:05	0	0	0	0	N/A	DROP PLUG		
19:06	937	0	4.8	242	MUD	DISPLACEMENT		
20:07	1948	0	0	242	MUD	BUMPED PLUG (APPROX 4 BBLS OF UF TO SURFACE)		
20:09	2987	0	0	0	MUD	PRESSURE UP TO CLOSE DV TOOL (HOLD FOR FIVE MINUTES)		
20:18	0	0	0	0	N/A	RIG DOWN SAFETY MEETING		
20:20	0	0	0	0	N/A	RIG DOWN		
20:41	0	0	0	0	N/A	CREW CLEANS UP SPILL		
22:30	0	0	0	0	N/A	LEAVE LOCATION		
BUMPED PLUG <input type="checkbox"/> Y <input checked="" type="checkbox"/> N		PSI TO BUMP PLUG 1055	TEST FLOAT EQUIP. Y <input checked="" type="checkbox"/> N	BBL.CMT RETURNS/ REVERSED 0	TOTAL BBL. PUMPED 866	PSI LEFT ON CSG 0	SPOT TOP OUT CEMENT Y <input checked="" type="checkbox"/> N	Service Supervisor Signature:







FIELD RECEIPT NO. 10011087569

<b>CUSTOMER</b> NGL WATER SOLUTIONS DJ LLC					<b>CREDIT APPROVAL NO.</b>		<b>PURCHASE ORDER NO.</b>		<b>CUSTOMER NUMBER</b> 0040152619 - 0040152619		<b>INVOICE NUMBER</b>	
<b>MAIL INVOICE TO :</b> STREET OR BOX NUMBER 8207 W 20TH ST					<b>CITY</b> Greeley		<b>STATE</b> Colorado		<b>ZIP CODE</b> 80634			
<b>DATE WORK COMPLETED</b> 08 05 2014		<b>BHI REPRESENTATIVE</b> Zachary Fagg			<b>WELL API NO:</b> 05123385330000		<b>WELL TYPE :</b> New Well					
<b>DISTRICT</b> BJS, BRIGHTON					<b>JOB DEPTH(ft)</b> 7,738		<b>WELL CLASS :</b> Injection					
<b>WELL NAME AND NUMBER</b> SWD #C11					<b>TD WELL DEPTH(ft)</b> 7,749		<b>GAS USED ON JOB :</b> No Gas					
<b>WELL LOCATION :</b> LEGAL DESCRIPTION 27-5N-61W					<b>COUNTY/PARISH</b> Weld		<b>STATE</b> Colorado		<b>JOB TYPE CODE :</b> Intermediate			
<b>PRODUCT CODE</b>	<b>DESCRIPTION</b>					<b>UNIT OF MEASURE</b>	<b>QUANTITY</b>	<b>LIST PRICE UNIT</b>	<b>GROSS AMOUNT</b>	<b>% DISC.</b>	<b>NET AMOUNT</b>	
100021	Class G Cement					sacks	80	31.800	2,544.00	55%	1,144.80	
100121	Silica Flour					lbs	2688	0.590	1,585.92	55%	713.66	
100275	Sodium Metasilicate					lbs	41	4.100	168.10	55%	75.65	
100283	R-3					lbs	34	3.840	130.56		130.56	
100316	Barite, Bulk					lbs	7000	0.630	4,410.00	55%	1,984.50	
100317	Poz (Fly Ash)					sacks	80	14.200	1,136.00	55%	511.20	
398117	Ultra Flush II System					bbls	40	213.500	8,540.00	55%	3,843.00	
398224	Premium Lite Cement					sacks	625	27.650	17,281.25	55%	7,776.56	
488013	CD-32					lbs	27	13.300	359.10	55%	161.60	
488015	FL-52					lbs	449	26.900	12,078.10	55%	5,435.15	
488019	FP-6L					gals	8	104.250	834.00	55%	375.30	
488449	Bentonite II					lbs	3532	0.440	1,554.08	55%	699.34	
499705	ASA-301					lbs	109	20.250	2,207.25	55%	993.26	
	SUB-TOTAL FOR Product Material								52,828.36	54.86%	23,844.58	
<b>ARRIVE LOCATION :</b> 08 04 2014 17:45		<b>SERVICE ORDER: I AUTHORIZE WORK TO BEGIN PER SERVICE INSTRUCTIONS IN ACCORDANCE WITH THE TERMS AND CONDITIONS PRINTED ON THE LAST PAGE OF THIS FORM AND REPRESENT THAT I HAVE AUTHORITY TO ACCEPT AND SIGN THIS ORDER.</b>						<b>SERVICE RECEIPT: I CERTIFY THAT THE MATERIALS AND SERVICES LISTED WERE RECEIVED AND ALL SERVICES PERFORMED IN A WORKMANLIKE MANNER.</b>				
<b>CUSTOMER REP.</b> CHRIS MONTOYA		<b>CUSTOMER AUTHORIZED AGENT</b>   <b>CUSTOMER AUTHORIZED AGENT</b>						<b>X</b>				
<b>SEE LAST PAGE FOR GENERAL TERMS AND CONDITIONS</b>								<b>X</b>				



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<b>MAIL INVOICE TO :</b> STREET OR BOX NUMBER 8207 W 20TH ST					<b>CITY</b> Greeley		<b>STATE</b> Colorado		<b>ZIP CODE</b> 80634			
<b>DATE WORK COMPLETED</b>		<b>MO.</b> 08	<b>DAY</b> 05	<b>YEAR</b> 2014	<b>BHI REPRESENTATIVE</b> Zachary Fagg		<b>WELL API NO:</b> 05123385330000		<b>WELL TYPE :</b> New Well			
<b>DISTRICT</b> BJS, BRIGHTON					<b>JOB DEPTH(ft)</b> 7,738		<b>WELL CLASS :</b> Injection					
<b>WELL NAME AND NUMBER</b> SWD #C11					<b>TD WELL DEPTH(ft)</b> 7,749		<b>GAS USED ON JOB :</b> No Gas					
<b>WELL LOCATION :</b>		<b>LEGAL DESCRIPTION</b> 27-5N-61W			<b>COUNTY/PARISH</b> Weld		<b>STATE</b> Colorado		<b>JOB TYPE CODE :</b> Intermediate			
<b>PRODUCT CODE</b>	<b>DESCRIPTION</b>				<b>UNIT OF MEASURE</b>	<b>QUANTITY</b>	<b>LIST PRICE UNIT</b>	<b>GROSS AMOUNT</b>	<b>% DISC.</b>	<b>NET AMOUNT</b>		
A152	Personnel Per Diem Chrg - Cement Svc				ea	1	210.000	210.00	0%	210.00		
M100	Bulk Materials Blending Charge				cu ft	1243	5.450	6,774.35	55%	3,048.46		
	SUB-TOTAL FOR Service Charges							6,984.35	53.35%	3,258.46		
F067A	Cement Pumping, 7001 - 8000 ft				6hrs	1	9,525.000	9,525.00	55%	4,286.25		
F090	Fuel per pump charge - cement				pump/hr	2	70.250	140.50	0%	140.50		
J050	Cement Head				job	1	830.000	830.00	55%	373.50		
J225	Data Acquisition, Cement, Standard				job	1	2,130.000	2,130.00	55%	958.50		
J390	Mileage, Heavy Vehicle				miles	126	11.850	1,493.10	55%	671.90		
J391	Mileage, Auto, Pick-Up or Treating Van				miles	126	6.700	844.20	55%	379.89		
K230	Multiple Stage Cementing				stage	1	4,875.000	4,875.00	55%	2,193.75		
	SUB-TOTAL FOR Equipment							19,837.80	54.61%	9,004.29		
J401	Bulk Delivery, Dry Products				ton-mi	3233	3.940	12,738.02	55%	5,732.11		
	SUB-TOTAL FOR Freight/Delivery Charges							12,738.02	55.00%	5,732.11		
<b>ARRIVE LOCATION :</b>		<b>MO.</b> 08	<b>DAY</b> 04	<b>YEAR</b> 2014	<b>TIME</b> 17:45	<b>SERVICE ORDER: I AUTHORIZE WORK TO BEGIN PER SERVICE INSTRUCTIONS IN ACCORDANCE WITH THE TERMS AND CONDITIONS PRINTED ON THE LAST PAGE OF THIS FORM AND REPRESENT THAT I HAVE AUTHORITY TO ACCEPT AND SIGN THIS ORDER.</b>				<b>SERVICE RECEIPT: I CERTIFY THAT THE MATERIALS AND SERVICES LISTED WERE RECEIVED AND ALL SERVICES PERFORMED IN A WORKMANLIKE MANNER.</b>		
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PRODUCT CODE		DESCRIPTION				UNIT OF MEASURE	QUANTITY	LIST PRICE UNIT	GROSS AMOUNT	% DISC.	NET AMOUNT	
		FIELD ESTIMATE							92,388.53	54.71%	41,839.44	
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