

# CEMENT JOB REPORT



<b>CUSTOMER</b> NGL WATER SOLUTIONS DJ L			<b>DATE</b> 06-OCT-14		<b>F.R. #</b> 10011103803			<b>SERV. SUPV.</b> FELIPE LANDA						
<b>LEASE &amp; WELL NAME</b> SWD GROVER #C-9 - API 05123401940000			<b>LOCATION</b> 13-10N-61W			<b>COUNTY-PARISH-BLOCK</b> Weld Colorado								
<b>DISTRICT</b> Brighton			<b>DRILLING CONTRACTOR RIG #</b> SAVANNA 650			<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		Cement Basket, Slip On, 7 in												
		Centralizer, with Pins, 7 in												
		Float Collar, Al Flap, 7 - 8rd												
		Float Shoe 7 - 8rd												
		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							8.34				10			
UltraFlush Spacer							11.5				20			
(50:50:2) + Addds						275	14.4	1.45	6.32	05:28	71	41.43		
Fresh Water							8.34				323.8			
Fresh Water							8.34				10			
UltraFlush							11.5				20			
PLC + Addds						616	12.7	1.86	9.98	04:08	204	146.65		
(50:50:2) + Addds						85	14.4	1.45	6.33	06:07	21.9	12.79		
Fresh Water							8.34				269.1			
<b>Available Mix Water</b> 500 <b>Bbl.</b>				<b>Available Displ. Fluid</b> 500 <b>Bbl.</b>		<b>TOTAL</b>				949.8	200.87			
<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	15	8521	6.276	7	26	CSG	8521			8511	8465	7036		
<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	880		NO PACKER		0	0	0	7	8RD	WATER BASED	9.6
<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>			
323.8	BBLS	Fresh Water Fresh Water		8.34 8.34	682	0	0	0	0	7240	5792	TANK		
<b>Circulation Prior to Job</b>														
Circulated Well: Rig <input checked="" type="checkbox"/> BJ <input type="checkbox"/>						Circulation Time: 1			Circulation Rate: 3.5 BPM					
Mud Density In: 9.6 LBS/GAL Mud Density Out: 9.6 LBS/GAL						PV & YP Mud In:			PV & YP Mud Out:					
Gas Present: NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> Units:						Solids Present at End of Circulation:			NO <input type="checkbox"/> YES <input checked="" type="checkbox"/>					
<b>Displacement And Mud Removal</b>														
Displaced By: Rig <input type="checkbox"/> BJ <input checked="" type="checkbox"/>						Amount Bled Back After Job: 2 BBLS								
Returns During Job: <input type="checkbox"/> NONE <input checked="" type="checkbox"/> PARTIAL <input 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 type="checkbox"/> NONE <input type="checkbox"/> UNABLE DUE TO STUCK PIPE														
Centralizers: <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES						Quantity: 67			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:			Wiper Balls Used: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES Quantity:					
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					
<b>EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING: NONE</b>														

# 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: 0 PSI With 0 LBS/GAL Mud Time Held: 00 Hours 00 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 WHILE RUNNING CASING @ 5500'  
 PARTIAL CIRCULATION PRIOR TO CEMENT JOB

Problems During Job (I.E. Lost Returns, Equipment Failure, Bulk Delivery, Foaming, ETC)  
 LOST CIRCULATION AFTER 1ST. STAGE. RIG PUMPED 2 LCM PLUGS, NO CIRCULATION  
 PUMPED ENTIRE 2ND STAGE NO CIRCULATION

Problems After Job (I.E. Gas at Surface, Float Equipment Failed, ETC)  
 NONE

### PRESSURE/RATE DETAIL

### EXPLANATION

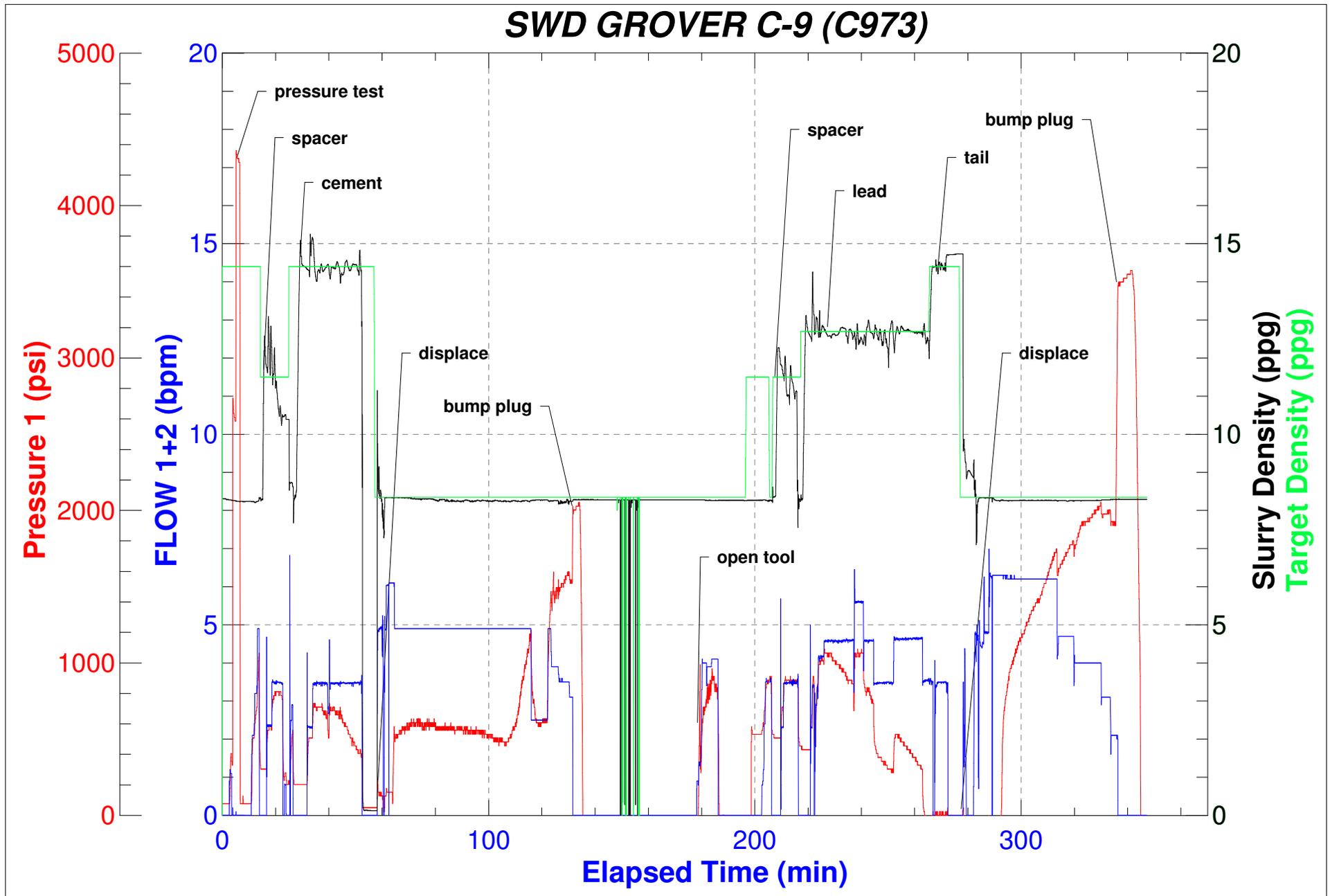
TIME HR:MIN.	PRESSURE - PSI		RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	EXPLANATION
	PIPE	ANNULUS				
						SAFETY MEETING: BJ CREW <input checked="" type="checkbox"/> CO. REP. <input checked="" type="checkbox"/> TEST LINES 4360 PSI CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>
16:00	0	0	0	0	NA	ARRIVE ON LOCATION 10/5/14 ( rig running casing about 2500' to go )
16:10	0	0	0	0	NA	STANDING BY RIG LOST CIRCULATION
04:30	0	0	0	0	NA	CASING CREW RIGGING DOWN
05:15	0	0	0	0	NA	SPOT TRUCKS/PRE RIG UP SAFETY MEETING
06:14	0	0	0	0	NA	SAFETY MEETING
06:57	127	0	1.2	1	H2O	LOAD LINES
06:59	4360	0	0	0	H2O	PRESSURE TEST
07:06	837	0	4.8	10	H2O	FRESH WATER
07:12	811	0	3.5	20	H2O	ULTRAFLUSH II @ 11.5 PPG
07:25	659	0	3.4	68	TAIL	275 SACKS OF 50:50 POZ (FLY ASH): CLASS "G" CEMENT + 0.1% R-3 + 0.2% CD-32 + 0.5% FL-52 + 0.01 gps FP-6L + 0.1% SODIUM METASILICATE +20% SILICA FLOUR + 2% BENTONITE II @ 14.4 PPG
07:53	0	0	0	0	NA	DROP PLUG
07:54	538	0	6	30	MUD	DISPLACE
08:00	1012	0	4.8	230	MUD	RATE CHANGE
08:51	685	0	2.5	15	MUD	RATE CHANGE
08:57	1145	0	4	15	MUD	RATE CHANGE
09:00	1470	0	3.5	33	MUD	RATE CHANGE
09:06	2028	0	3.5	0	MUD	BUMP PLUG @ 323 BBLs ( good circulation entire 1st. stage)
09:07	0	0	0	0	MUD	CHECK FLOATS
09:15	0	0	0	0	NA	DROP BOMB
09:55	953	0	1	0	NA	OPEN STAGE TOOL
09:56	655	0	4	20	MUD	CIRCULATE
10:10	0	0	0	0	MUD	RIG ATTEMPTING TO CIRCULATE (lost circulation)
15:40	0	0	0	0	NA	INFORMED BY COMPANY MAN TO CONTINUE THE 2ND STAGE (no circulation)
15:45	0	0	0	0	NA	STARTING 2ND STAGE
						NA
						NA
						NA

# 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 4360 PSI	
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>	
						NA	
						NA	
15:50	887	0	3.6	10	H2O	FRESH WATER	
16:00	952	0	3.6	20	H2O	ULTRAFLUSH II @ 11.5 PPG	
16:08	1056	0	4.5	195	LEAD	616 SACKS OF PREMIUM LITE CEMENT + 0.7% FL-52 + 0.2% ASA-301 + 0.01 gps FP-6L + 6% BENTONITE II @ 12.7 PPG	
16:57	6	0	3.4	19	TAIL	85 SACKS OF 50:50 POZ (FLY ASH) : CLASS "G" CEMENT + 0.2% CD-32 + 0.5% FL-52 + 0.01 gps FP-6L + 0.1% SODIUM METASILICATE + 20% SILICA FLOUR + 2% BENTONITE II @ 14.4. PPG	
17:11	0	0	0	0	NA	DROP PLUG	
17:12	1724	0	6.2	180	MUD	DISPLACE	
17:43	1901	0	4	70	MUD	RATE CHANGE	
18:00	2003	0	3	10	MUD	RATE CHANGE	
18:03	2022	0	2	6	MUD	RATE CHANGE	
18:06	3498	0	2	0	MUD	BUMP PLUG @ 266 BBLs ( no circulation during entire job )	
18:09	0	0	0	0	MUD	CHECK FLOATS	
18:15	0	0	0	0	NA	POST JOB RIG DOWN SAFETY MEETING	

BUMPED PLUG	PSI TO BUMP PLUG	TEST FLOAT EQUIP.	BBL.CMT RETURNS/ REVERSED	TOTAL BBL. PUMPED	PSI LEFT ON CSG	SPOT TOP OUT CEMENT	Service Supervisor Signature:
<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	2028	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	0	979	0	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	





FIELD RECEIPT NO. 10011103803

<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>		<b>STREET OR BOX NUMBER</b> 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> 10	<b>DAY</b> 06	<b>YEAR</b> 2014	<b>BHI REPRESENTATIVE</b> FELIPE LANDA	<b>WELL API NO:</b> 05123401940000	<b>WELL TYPE :</b> New Well				
<b>DISTRICT</b> PP, BRIGHTON					<b>JOB DEPTH (ft)</b> 8,511	<b>WELL CLASS :</b> Injection				
<b>WELL NAME AND NUMBER</b> SWD GROVER #C-9					<b>TD WELL DEPTH (ft)</b> 8,521	<b>GAS USED ON JOB :</b> No Gas				
<b>WELL LOCATION :</b>		<b>LEGAL DESCRIPTION</b> 13-10N-61W			<b>COUNTY/PARISH</b> Weld	<b>STATE</b> Colorado	<b>JOB TYPE CODE :</b> Intermediate			
PRODUCT CODE	DESCRIPTION				UNIT OF MEASURE	QUANTITY	LIST PRICE UNIT	GROSS AMOUNT	% DISC.	NET AMOUNT
100021	Class G Cement				sacks	181	31.800	5,755.80	55%	Redacted
100121	Silica Flour				lbs	6048	0.590	3,568.32	55%	
100275	Sodium Metasilicate				lbs	32	4.100	131.20	55%	
100283	R-3				lbs	24	3.840	92.16	55%	
100316	Barite, Bulk				lbs	7000	0.630	4,410.00	55%	
100317	Poz (Fly Ash)				sacks	181	14.200	2,570.20	55%	
398117	Ultra Flush II System				bbls	40	213.500	8,540.00	55%	
398224	Premium Lite Cement				sacks	616	27.650	17,032.40	55%	
488013	CD-32				lbs	62	13.300	824.60	55%	
488015	FL-52				lbs	528	26.900	14,203.20	55%	
488019	FP-6L				gals	10	104.250	1,042.50	55%	
488449	Bentonite II				lbs	3821	0.440	1,681.24	55%	
499632	Granulated Sugar				lbs	50	3.840	192.00	55%	
499705	ASA-301				lbs	108	20.250	2,187.00	55%	
	SUB-TOTAL FOR Product Material							62,230.62	55.00%	
<b>ARRIVE LOCATION :</b>	<b>MO.</b> 10	<b>DAY</b> 05	<b>YEAR</b> 2014	<b>TIME</b> 16:00	<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> RUBER MARKARIAN								<b>CUSTOMER AUTHORIZED AGENT</b>		
<b>SEE LAST PAGE FOR GENERAL TERMS AND CONDITIONS</b>								_____ <b>CUSTOMER AUTHORIZED AGENT</b>		
								X		



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MAIL INVOICE TO		STREET OR BOX NUMBER 8207 W 20TH ST			CITY Greeley		STATE Colorado	ZIP CODE 80634			
DATE WORK COMPLETED	MO. 10	DAY 06	YEAR 2014	BHI REPRESENTATIVE FELIPE LANDA	WELL API NO: 05123401940000	WELL TYPE : New Well					
DISTRICT PP, BRIGHTON					JOB DEPTH (ft) 8,511	WELL CLASS : Injection					
WELL NAME AND NUMBER SWD GROVER #C-9					TD WELL DEPTH (ft) 8,521	GAS USED ON JOB : No Gas					
WELL LOCATION :		LEGAL DESCRIPTION 13-10N-61W			COUNTY/PARISH Weld	STATE Colorado	JOB TYPE CODE : Intermediate				
PRODUCT CODE	DESCRIPTION				UNIT OF MEASURE	QUANTITY	LIST PRICE UNIT	GROSS AMOUNT	% DISC.	NET AMOUNT	
A152	Personnel Per Diem Chrg - Cement Svc				ea	1	210.000	210.00	0%	Redacted	
M100	Bulk Materials Blending Charge				cu ft	1229	5.450	6,698.05	55%		
M205	Environmental charges, non-BJ				ea	1	1,400.000	1,400.00	0%		
SUB-TOTAL FOR Service Charges								8,308.05	44.34%		
F069A	Cement Pumping, 8001 - 9000 ft				6hrs	1	10,950.000	10,950.00	55%		
F088	Cement Pumping, Additional hrs				hrs	20	900.000	18,000.00	0%		
F090	Fuel per pump charge - cement				pump/hr	12	70.250	843.00	0%		
J050	Cement Head				job	1	830.000	830.00	55%		
J225	Data Acquisition, Cement, Standard				job	1	2,130.000	2,130.00	55%		
J390	Mileage, Heavy Vehicle				miles	176	11.850	2,085.60	55%		
J391	Mileage, Auto, Pick-Up or Treating Van				miles	176	6.700	1,179.20	55%		
K230	Multiple Stage Cementing				stage	1	4,875.000	4,875.00	55%		
SUB-TOTAL FOR Equipment								40,892.80	29.66%		
ARRIVE LOCATION :	MO. 10	DAY 05	YEAR 2014	TIME 16:00	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.				SERVICE RECEIPT: I CERTIFY THAT THE MATERIALS AND SERVICES LISTED WERE RECEIVED AND ALL SERVICES PERFORMED IN A WORKMANLIKE MANNER.		
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WELL LOCATION :		LEGAL DESCRIPTION 13-10N-61W		COUNTY/PARISH Weld	STATE Colorado	JOB TYPE CODE : Intermediate					
PRODUCT CODE	DESCRIPTION				UNIT OF MEASURE	QUANTITY	LIST PRICE UNIT	GROSS AMOUNT	% DISC.	NET AMOUNT	
J401	Bulk Delivery, Dry Products				ton-mi	4468	3.940	17,603.92	55%	Redacted	
	SUB-TOTAL FOR Freight/Delivery Charges							17,603.92	55.00%		
	FIELD ESTIMATE							129,035.39	46.28%		
ARRIVE LOCATION :	MO. 10	DAY 05	YEAR 2014	TIME 16:00	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.				SERVICE RECEIPT: I CERTIFY THAT THE MATERIALS AND SERVICES LISTED WERE RECEIVED AND ALL SERVICES PERFORMED IN A WORKMANLIKE MANNER.		
CUSTOMER REP. RUBER MARKARIAN									CUSTOMER AUTHORIZED AGENT X		
SEE LAST PAGE FOR GENERAL TERMS AND CONDITIONS					CUSTOMER AUTHORIZED AGENT						