

CEMENT JOB REPORT



CUSTOMER NGL WATER SOLUTIONS DJ L			DATE 06-OCT-14		F.R. # 10011103803		SERV. SUPV. FELIPE LANDA							
LEASE & WELL NAME SWD GROVER #C-9 - API 05123401940000			LOCATION 13-10N-61W				COUNTY-PARISH-BLOCK Weld Colorado							
DISTRICT Brighton			DRILLING CONTRACTOR RIG # SAVANNA 650				TYPE OF JOB Intermediate							
SIZE & TYPE OF PLUGS		LIST-CSG-HARDWARE		MECHANICAL BARRIERS		MD	TVD	HANGER TYPES		MD	TVD			
Cement Plug, Rubber, Top 7 in		Cement Basket, Slip On, 7 in												
		Centralizer, with Pins, 7 in												
		Float Collar, AI Flap, 7 - 8rd												
		Float Shoe 7 - 8rd												
		Stage Cementing Tool 7 - 8rd												
MATERIALS FURNISHED BY BJ				LAB REPORT NO.		PHYSICAL SLURRY PROPERTIES								
						SACKS OF CEMENT	SLURRY WGT PPG	SLURRY YLD FT³	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY	Bbl MIX WATER		
Fresh Water							8.34				10			
UltraFlush Spacer							11.5				20			
(50:50:2) + Adds						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 + Adds						616	12.7	1.86	9.98	04:08	204	146.65		
(50:50:2) + Adds						85	14.4	1.45	6.33	06:07	21.9	12.79		
Fresh Water							8.34				269.1			
Available Mix Water 500 Bbl.				Available Displ. Fluid 500 Bbl.				TOTAL		949.8		200.87		
HOLE			TBG-CSG-D.P.						COLLAR DEPTHS					
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE		
8.75	15	8521	6.276	7	26	CSG	8521			8511	8465	7036		
LAST CASING			PKR-CMT RET-BR PL-LINER			PERF. DEPTH			TOP CONN		WELL FLUID			
ID	OD	WGT	TYPE	MD	TVD	BRAND & TYPE		DEPTH	TOP	BTM	SIZE	THREAD	TYPE	WGT.
8.9	9.63	36	CSG	880		NO PACKER		0	0	0	7	8RD	WATER BASED	9.6
DISPL. VOLUME		DISPL. FLUID		CAL. PSI	CAL. MAX PSI	OP. MAX	MAX TBG PSI		MAX CSG PSI		MIX WATER			
VOLUME	UOM	TYPE		WGT.	BUMP PLUG	TO REV.	SQ. PSI	RATED	Operator	RATED	Operator			
323.8	BBLS	Fresh Water		8.34	682	0	0	0	0	7240	5792	TANK		
		Fresh Water		8.34										
Circulation Prior to Job														
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"/>					
Displacement And Mud Removal														
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														
Plugs														
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					
EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING: NONE														

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	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"/>
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

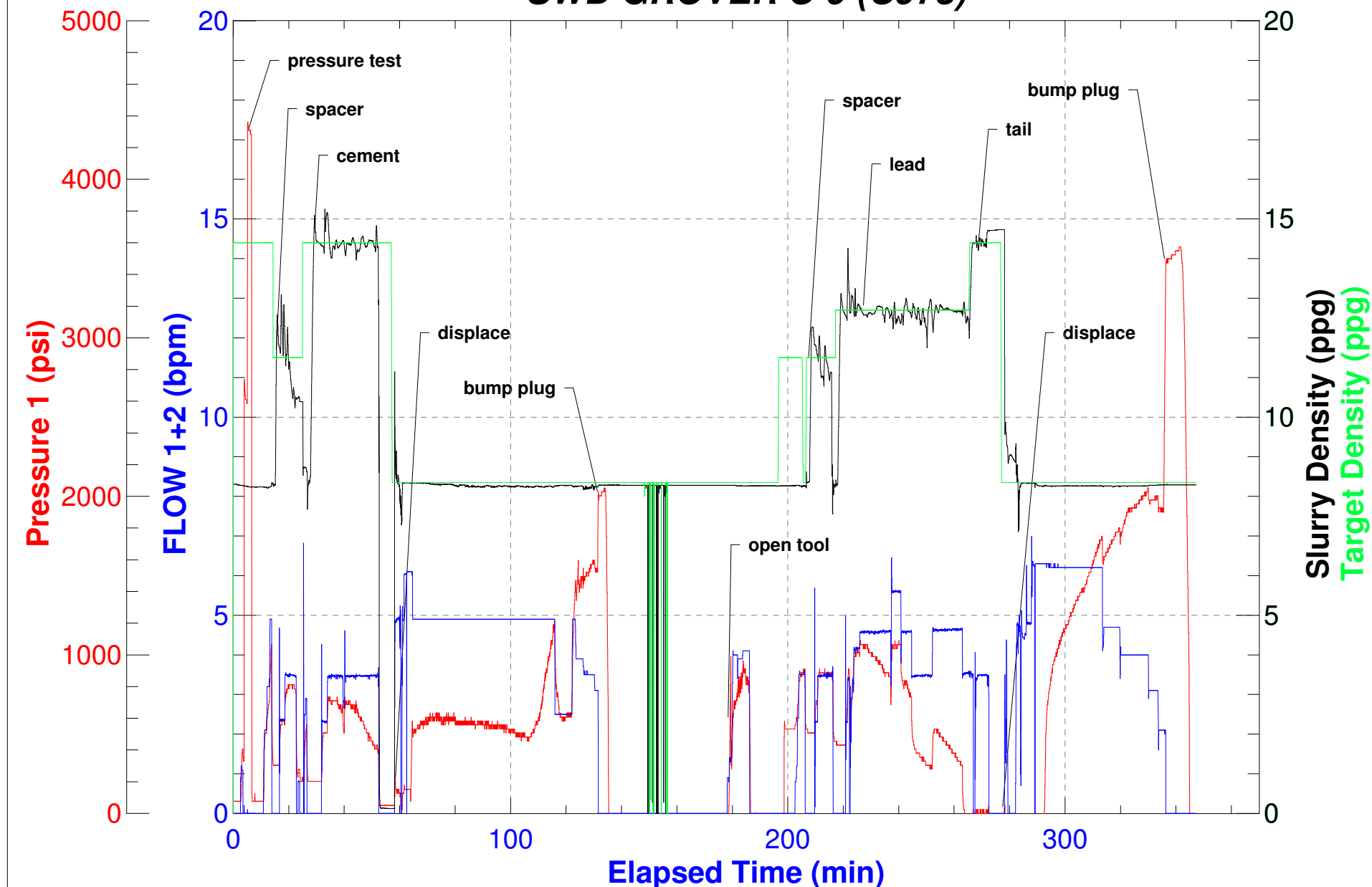
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PRESSURE/RATE DETAIL						EXPLANATION	
TIME HR:MIN.	PRESSURE - PSI		RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	SAFETY MEETING: BJ CREW <input checked="" type="checkbox"/> CO. REP. <input checked="" type="checkbox"/>	
	PIPE	ANNULUS				TEST LINES	4360 PSI
						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 <input type="checkbox"/> Y <input checked="" type="checkbox"/> N	PSI TO BUMP PLUG 2028	TEST FLOAT EQUIP. <input type="checkbox"/> Y <input checked="" type="checkbox"/> N	BBL.CMT RETURNS/ REVERSED 0	TOTAL BBL. PUMPED 979	PSI LEFT ON CSG 0	SPOT TOP OUT CEMENT Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	Service Supervisor Signature:
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SWD GROVER C-9 (C973)





FIELD RECEIPT NO. 10011103803

CUSTOMER NGL WATER SOLUTIONS DJ LLC					CREDIT APPROVAL NO.		PURCHASE ORDER NO.		CUSTOMER NUMBER 0040152619 - 0040152619		INVOICE NUMBER	
MAIL STREET OR BOX NUMBER 8207 W 20TH ST					CITY Greeley		STATE Colorado		ZIP CODE 80634			
DATE WORK MO. DAY YEAR COMPLETED 10 06 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			
WELL LOCATION : 13-10N-61W					TD WELL DEPTH (ft) 8,521		GAS USED ON JOB : No Gas		WELL TYPE CODE : Intermediate			
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	
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%		
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				BHI APPROVED X		
SEE LAST PAGE FOR GENERAL TERMS AND CONDITIONS												
CUSTOMER AUTHORIZED AGENT												



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INVOICE TO												
DATE WORK COMPLETED		MO. 10	DAY 06	YEAR 2014	BHI REPRESENTATIVE FELIPE LANDA		WELL API NO: 05123401940000		WELL TYPE : New Well			
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WELL LOCATION : 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%		
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CUSTOMER REP. RUBER MARKARIAN						CUSTOMER AUTHORIZED AGENT CUSTOMER AUTHORIZED AGENT				X		
SEE LAST PAGE FOR GENERAL TERMS AND CONDITIONS										BHI APPROVED X		



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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%		
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