

CEMENT JOB REPORT



CUSTOMER CARRIZO OIL & GAS INC XML			DATE 21-SEP-14		F.R. # 10011100989			SERV. SUPV. ERIC S DEWIT						
LEASE & WELL NAME O'HARE #1-29-11-57 - API 05123400810000			LOCATION 29-11N-57W			COUNTY-PARISH-BLOCK Weld Colorado								
DISTRICT Brighton			DRILLING CONTRACTOR RIG # Xtreme Coil 19			TYPE OF JOB Intermediate								
SIZE & TYPE OF PLUGS		LIST-CSG-HARDWARE			MECHANICAL BARRIERS		MD	TVD	HANGER TYPES		MD	TVD		
Cement Plug, Rubber, Bottom 7 in		Centralizer, with Pins, 7 in												
Cement Plug, Rubber, Top 7 in		Float Collar, Auto Fill, 7 - 8rd												
		Float Shoe 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		
SealBond + SB Plus						0	8.4	0	0	00:00	40			
Premium Lite Cmt + adds						341	12.5	1.94	10.64	03:30	117.94	86.35		
50:50 (Poz:Class G) + adds						194	13.5	1.45	7.06	02:45	50.02	32.59		
Drilling Mud						0	9.7	0	0	00:00	231.09			
Available Mix Water <u>400</u> Bbl.			Available Displ. Fluid <u>400</u> Bbl.			TOTAL			<u>439.05</u>	<u>118.94</u>				
HOLE			TBG-CSG-D.P.						COLLAR DEPTHS					
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE		
8.75	35	5998	6.366	7	23	CSG	5979	5700	N-80	5979	5904	0		
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	1475	1475	No Packer		0	0	0	7	8RND	WATER BASED	9.7
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			
232.4	BBLS	Drilling Mud		9.7	944	0	0	0	0	5047	3000	Rig Tank		
Circulation Prior to Job														
Circulated Well: Rig <input checked="" type="checkbox"/> BJ <input type="checkbox"/>				Circulation Time: 1				Circulation Rate: 5 BPM						
Mud Density In: 9.7 LBS/GAL				Mud Density Out: 9.7 LBS/GAL				PV & YP Mud In: 19		PV & YP Mud Out: 19				
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"/>				
Displacement And Mud Removal														
Displaced By: Rig <input 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 checked="" type="checkbox"/> YES <input type="checkbox"/> NO				Were Returns Planned at Surface: <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES										
Pipe Movement: <input type="checkbox"/> ROTATION <input type="checkbox"/> RECIPROICATION <input checked="" type="checkbox"/> NONE <input type="checkbox"/> UNABLE DUE TO STUCK PIPE														
Centralizers: <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES				Quantity: 50				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: 0				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						
Squeezes (Update Original Treatment Report for Primary Job)														
BLOCK SQUEEZE <input type="checkbox"/>				SHOE SQUEEZE <input type="checkbox"/>				TOP OF LINER SQUEEZE <input type="checkbox"/>				PLANNED <input type="checkbox"/>	UNPLANNED <input type="checkbox"/>	
Liner Packer: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES				Bond Log: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES				PSI Applied: 0		Fluid Weight: 0 LBS/GAL				
Casing Test (Update Original Treatment Report for Primary Job)														
Casing Test Pressure: 1554 PSI				With 9.7 LBS/GAL Mud				Time Held: 00 Hours 15 Minutes						
EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING None														

CEMENT JOB REPORT



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)
None

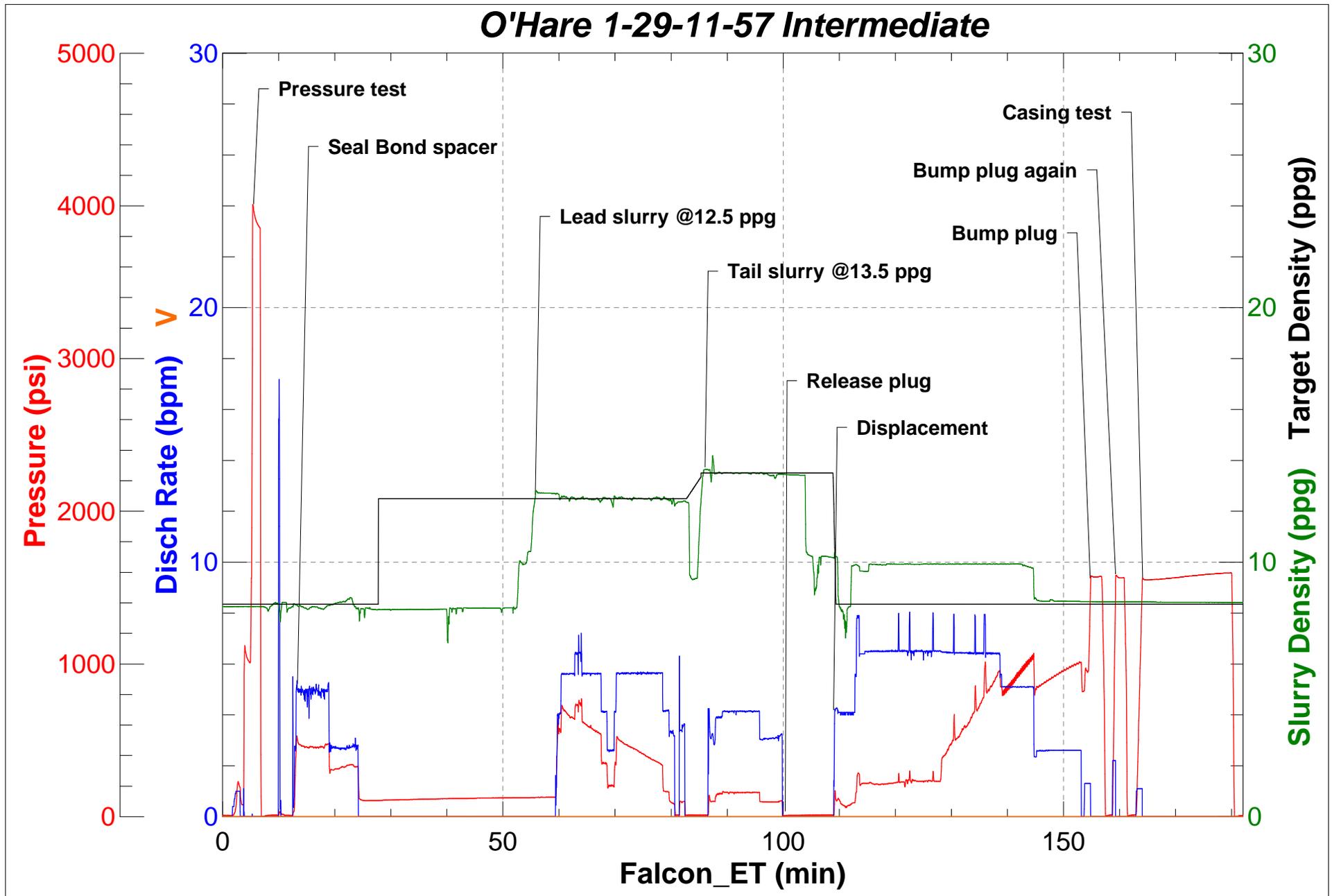
Problems During Job (I.E. Lost Returns, Equipment Failure, Bulk Delivery, Foaming, ETC)
None

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 4009 PSI	
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>	
20:13	0	0	0	0	N/A	Leave yard	
23:40	0	0	0	0	N/A	Arrive on location 9-20-14 (123 Miles) Rig running casing	
04:53	0	0	0	0	N/A	Spot trucks on location	
05:13	0	0	0	0	N/A	Pre rig up safety meeting	
06:23	0	0	0	0	N/A	Pre job safety meeting	
06:51	0	0	0	0	N/A	Stab cement head	
07:04	202	0	1	1	H2O	Load pumps and lines	
07:06	4009	0	0	0	H2O	Pressure test pumps and lines	
07:16	341	0	5	40	H2O	Pump seal bond plus spacer	
07:30	0	0	0	0	N/A	While attempting to batch up we realized the versa valves for the product line were not working, so we had to hook product line directly up to the goose neck causing a short del	
07:54	101	0	5.6	112	CMT	Batch, weigh, and pump lead slurry @12.5 ppg	
08:27	97	0	3.9	49	CMT	Batch, weigh, and pump tail slurry @13.5 ppg	
08:44	0	0	0	0	N/A	Release cement wiper plug	
08:51	903	0	6.5	180	MUD	Displacement	
09:20	1060	0	5.1	30	MUD	Drop rate	
09:27	1022	0	2.6	13.5	MUD	Drop rate	
09:36	1574	0	0	0	MUD	Bump plug (Approx. 17 BBLS of cement to surface)	
09:38	0	0	0	0	MUD	Check floats	
09:40	1574	0	2.2	1.5	MUD	Company man wanted to bump the plug again to make sure floats were holding	
09:42	0	0	0	0	MUD	Check floats again (floats held)	
09:46	1554	0	0	0	MUD	Start casing test	
10:01	0	0	0	0	N/A	End casing test (Ending Pressure 1597 Psi)	
10:03	0	0	0	0	N/A	Pre rig down safety meeting	
10:50	0	0	0	0	N/A	Leave location	
	0	0	0	0	N/A	Arrive back at the yard	

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	1574	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	17	437	0	Y <input checked="" type="checkbox"/> N	

O'Hare 1-29-11-57 Intermediate





CEMENTING LABORATORY REPORT
Lab Report #C09-079-14

COMPANY :	Carrizo Oil & Gas	DATE:	September 19, 2014
WELL NAME:	O'Hare #1-29-11-57	LOCATION:	Weld County, Colorado
DISTRICT:	Brighton	TYPE JOB:	Intermediate
API #	05-123-40081-0000	TOC(md):	
DEPTH MD(ft):	5,950 ft	BHST(°F):	182 °F
CASING SIZE("):	7 in	BHCT(°F):	141 °F
TUBING SIZE("):		BHSqT(°F):	153 °F
HOLE SIZE("):	8 3/4 in	TOL (°F):	Static Circ

SLURRY DESIGN DATA

#1	Lead Slurry: Premium Lite Cement + 6% Bentonite II, 0.4% FL-52, 0.25% pps Cello Flake, 0.04% Static Free, 0.5 gal/100sack FP-6L	
#2	Tail Slurry: 50:50:3 (FA:G:Bentonite II) + 0.5% SMS, 0.4% FL-52, 0.04% Static Free, gal/100sack FP-6L	0.5
#3		

SLURRY PROPERTIES		#1	#2	#3
Density : ppg		12.50	13.50	
Yield :cu.ft./sk.		1.94	1.45	
Mixing Water: gal/sk.		10.64	7.06	
Water Type:		Fresh	Fresh	
Testing Temperature :		138 °F	139 °F	
Thickening Time: hrs:mins.		4:54	4:45	
Free Water: mls.				
Fluid Loss:ml/30min				
Compressive Strength:				
	hrs.			
	hrs.			
Rheologies	RPM			
	300			
	200			
	100			
	6			
	3			
	600			
	PV			
	YP			
Gel Strength : #/100sq.ft.	10 sec.			
	10 min.			

REMARKS :

COMMENTS : The above data is supplied solely for informational purposes and BHI makes no guarantees or warranties, either express or implied, with respect to the accuracy or use of this data. All product warranties and guarantees shall be governed by the standard contract terms at the time of sale.



FIELD RECEIPT NO. 10011100989

CUSTOMER CARRIZO OIL & GAS INC XML				CREDIT APPROVAL NO.	PURCHASE ORDER NO.	CUSTOMER NUMBER 0040003338 - 0040139823-1	INVOICE NUMBER		
MAIL INVOICE TO : 500 DALLAS STREET, SUITE 2499		STREET OR BOX NUMBER		CITY Houston		STATE Texas	ZIP CODE 77063		
DATE WORK COMPLETED 09 21 2014	MO. 09	DAY 21	YEAR 2014	BHI REPRESENTATIVE ERIC S DEWIT	WELL API NO: 05123400810000	WELL TYPE : New Well			
DISTRICT PP, BRIGHTON				JOB DEPTH(ft) 5,979		WELL CLASS : Oil			
WELL NAME AND NUMBER O'HARE #1-29-11-57				TD WELL DEPTH(ft) 5,998		GAS USED ON JOB : No Gas			
WELL LOCATION : 29-11N-57W		LEGAL DESCRIPTION		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	97	31.800	3,084.60	70%	925.38
100275	Sodium Metasilicate			lbs	82	4.100	336.20	70%	100.86
100295	Cello Flake			lbs	86	5.100	438.60	70%	131.58
100317	Poz (Fly Ash)			sacks	97	14.200	1,377.40	70%	413.22
121113	Cement Plug, Rubber, Top 7 in			ea	1	243.600	243.60	70%	73.08
398224	Premium Lite Cement			sacks	341	27.650	9,428.65	70%	2,828.60
488015	FL-52			lbs	185	26.900	4,976.50	70%	1,492.95
488019	FP-6L			gals	3	104.250	312.75	70%	93.83
488449	Bentonite II			lbs	2269	0.440	998.36	70%	299.51
488521	SealBond Plus			lbs	600	4.730	2,838.00	45%	1,560.90
499632	Granulated Sugar			lbs	100	3.840	384.00	70%	115.20
499680	Static Free			lbs	19	40.700	773.30	70%	231.99
L398463-00	SealBond Spacer, w/ 45 lb bag			bbbls	40	278.000	11,120.00	45%	6,116.00
	SUB-TOTAL FOR Product Material						36,311.96	60.39%	14,383.10
ARRIVE LOCATION : 09 20 2014 23:43	MO. 09	DAY 20	YEAR 2014	TIME 23:43	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. Bob McNeese					CUSTOMER AUTHORIZED AGENT X			BHI APPROVED X	
SEE LAST PAGE FOR GENERAL TERMS AND CONDITIONS					CUSTOMER AUTHORIZED AGENT				



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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%	210.00
M100	Bulk Materials Blending Charge				cu ft	638	5.450	3,477.10	70%	1,043.13
R798	Automatic Density System				job	1	1,990.000	1,990.00	70%	597.00
	SUB-TOTAL FOR Service Charges							5,677.10	67.41%	1,850.13
F063A	Cement Pumping, 5001 - 6000 ft				6hrs	1	7,325.000	7,325.00	70%	2,197.50
F088	Cement Pumping, Additional hrs				hrs	2	900.000	1,800.00		1,800.00
F090	Fuel per pump charge - cement				pump/hr	6	70.250	421.50	0%	421.50
J050	Cement Head				job	1	830.000	830.00	70%	249.00
J225	Data Acquisition, Cement, Standard				job	1	2,130.000	2,130.00	70%	639.00
J390	Mileage, Heavy Vehicle				miles	246	11.850	2,915.10	70%	874.53
J391	Mileage, Auto, Pick-Up or Treating Van				miles	246	6.700	1,648.20	70%	494.46
	SUB-TOTAL FOR Equipment							17,069.80	60.89%	6,675.99
J401	Bulk Delivery, Dry Products				ton-mi	3069	3.940	12,091.86	70%	3,627.56
	SUB-TOTAL FOR Freight/Delivery Charges							12,091.86	70.00%	3,627.56
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CUSTOMER REP. Bob McNeese					CUSTOMER AUTHORIZED AGENT			X		
SEE LAST PAGE FOR GENERAL TERMS AND CONDITIONS								BHI APPROVED		
					CUSTOMER AUTHORIZED AGENT					



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PRODUCT CODE	DESCRIPTION			UNIT OF MEASURE	QUANTITY	LIST PRICE UNIT	GROSS AMOUNT	% DISC.	NET AMOUNT
	FIELD ESTIMATE						71,150.72	62.70%	26,536.78
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