

BISON OIL WELL CEMENTING, INC.

1738 Wynkoop St., Ste. 102
 Denver, Colorado 80202
 Phone: 303-296-3010
 Fax: 303-298-8143
 E-mail: bisonoil1@qwestoffice.net



SERVICE INVOICE

WELL NO. AND FARM <i>1033</i>		COUNTY <i>weld</i>	STATE <i>colorado</i>	DATE <i>4-26-10</i>	
CHARGE TO <i>Noble</i>		WELL LOCATION SEC. <i>30</i> TWP. <i>4N</i> RANGE <i>6W</i>		CONTRACTOR	
		DELIVERED TO <i>25 - 25 Ave</i>		LOCATION 1 <i>Shop</i>	CODE
		SHIPPED VIA <i>101 4034 3000</i>		LOCATION 2 <i>25 - 25 Ave</i>	CODE
		TYPE AND PURPOSE OF JOB <i>Anchor fill</i>		LOCATION 3 <i>Shop</i>	CODE
				WELL TYPE	CODE

PRICE REFERENCE	DESCRIPTION	UNITS		UNIT PRICE	AMOUNT
		QTY.	MEAS.		
	Pump Charge	1	Y		
	Mileage	60	9		
	Mileage	60	9		
	iron inspection	1	9		
	Supervisor Charge	1	9		
	Daily Hq Fee	1	9		
	Storage	50	9		
	<i>143310</i>				
	<i>2.3/1T</i>				
	<i>Rick Long</i>				
	Total Weight			Ton	
	Loaded Miles			Miles	

If this account is not paid within 30 days of invoice date a FINANCE CHARGE will be made. Computed at a single monthly rate of 1 1/2% which is equal to an ANNUAL PERCENTAGE RATE OF 18%.

TAX REFERENCES

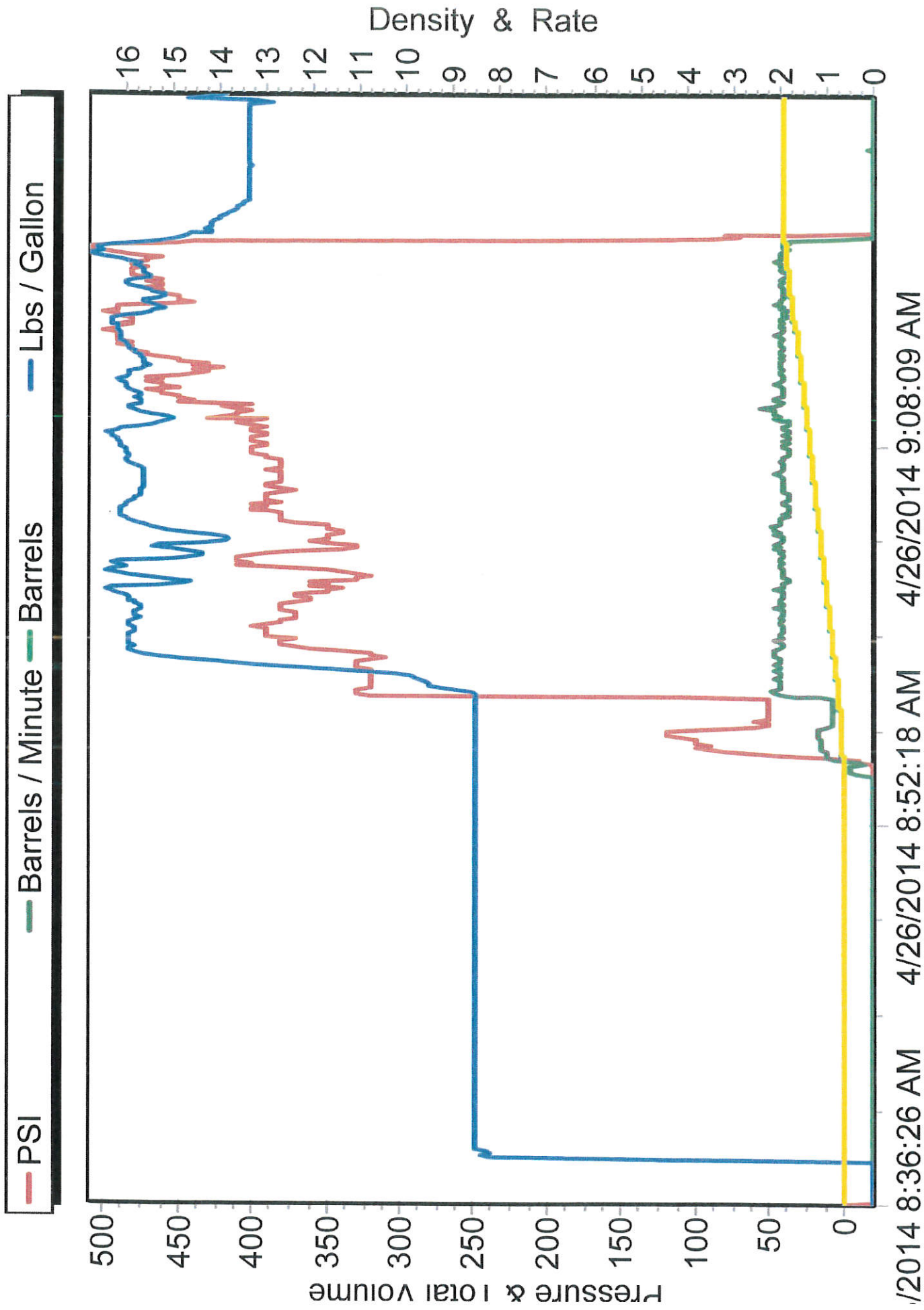
"TAXES WILL BE ADDED AT CORPORATE OFFICE"

Customer or His Agent

Bison Oil Well Cementing, Inc. Representative

Customers hereby acknowledges and specifically agrees to the terms and conditions on this work order, including, without limitation, the provisions on the reverse side hereof which include the release and indemnity.

M/D TOTCO 2000 SERIES





Bison Oil Well Cementing

Customer: noble
Well Name: flat iron 10-36

Invoice # 12240
API# 05-123-12686
Foreman: Aaron
Date 4/26/2014

County: weld
State: colorado
Sec: 36
Twp: 6n
Range: 66w

Consultant: rick
Rig Name & Number: bws #6
Distance To Location: 60
Units On Location: 3101-4029-4018-3206
Time Requested: 8:00 AM
Time Arrived On Location: 8:00 AM
Time Left Location:

Plug Job

Well Data

OD Inches	1.315	
String Weight Per ft	2.9	
First Plug Sacks	176	
First Plug Depth	378	
Second Plug Sacks	0	
Second Plug Depth	0	
Third Plug Sacks		
Third Plug Depth		
Fourth Plug Sacks	0	
Fourth Plug Depth	0	
ID	#N/A	
First Plug Displacement	#N/A	bbl
Second Plug Displacement	#N/A	bbl
Thirst Plug Displacement	#N/A	bbl
Fourth Plug Displacement	#N/A	bbl
bbls of Spacer Ahead	5	bbls

bbls of Slurry

First Plug bbls of Slurry	36.0474 bbls
Second Plug bbls of Slurry	0.0000 bbls
Third Plug bbls of Slurry	0.0000 bbls
Fourth Plug bbls of Slurry	0.0000 bbls

First Plug Cement Data

Cement Name:	G CEMENT
Cement Density (lb/gal) :	15.8
Cement Yield (cuft) :	1.15
Gallons Per Sack:	5.00

Second Plug Cement Data

Cement Name:	G CEMENT
Cement Density (lb/gal) :	0.0
Cement Yield (cuft) :	0
Gallons Per Sack:	0.00

Third Plug Cement Data

Cement Name:	G CEMENT
Cement Density (lb/gal) :	0.0
Cement Yield (cuft) :	0
Gallons Per Sack:	0.00

Fourth Plug Cement Data

Cement Name:	BFN III
Cement Density (lb/gal) :	0.0
Cement Yield (cuft) :	0
Gallons Per Sack:	0.00

Displacement Fluid lb/gal:	8.3
Fluid Ahead (bbls):	5.0
H2O Wash Up (bbls):	20.0

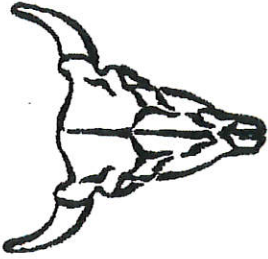
bbls of Mix Water

First Plug bbls Mix Wate	20.9524 bbls
Second Plug bbls Mix Wat	0.0000 bbls
Third Plug bbls Mix Wate	0.0000 bbls
Fourth Plug bbls Mix Wat	0.0000 bbls

X

Authorized To Proceed

Customers hereby acknowledges and specifically agrees to the terms and condition on this work order, including, without limitation, the provisions on this work order.



Bison Oil Well Cementing
Single Cement Surface Pipe

INVOICE #
LOCATION
FOREMAN
Date

12240
weld
Aaron
4/26/2014

Customer
Well Name

noble
flat iron 10-36

Treatment Report Page 2

DESCRIPTION OF JOB EVENTS

	Time	Displace 1		Displace 2		Displace 3		Displace 4	
		BBS	PSI	BBS	PSI	BBS	PSI	BBS	PSI
Safety Meeting	8:46 am	0		0		0		0	
MIRU	8:05 am	10		10		10		10	
	9:55 am	20		20		20		20	
CIRCULATE		30		30		30		30	
CIRCULATE		40		40		40		40	
CIRCULATE		50		50		50		50	
M & P									
	Time	Sacks							
First Plug	8:58 am	176		60		60		60	
Second Plug		#DIV/0!		70		70		70	
Third Plug		#DIV/0!		80		80		80	
Fourth Plug		#DIV/0!		90		90		90	
Mixed bbls									
First Plug	21			100		100		100	
Second Plug	0			110		110		110	
Third Plug	0			120		120		120	
Fourth Plug				130		130		130	
				140		140		140	
				150		150		150	
Water Temp	41f								

Notes:

anullar fill

X

Work Performed

X

Title

X

Date

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BISON OILWELL CEMENTING JOB SAFETY ANALYSIS WORKSHEET

ASK:	Plug and Abandon	CEMENTER/SUPERVISOR:	Helen Carlsco		PAGE	1	OF	3
NAME:	Flatiron 10-36	RIG #	Buss 6	LOCATION:	05th Ave			
ATOR:	Noble	CONSULTANT:	Rick		DATE:	4-26-14		
					INVOICE #	12240		
EQUIRED:		ADDITIONAL PPE (based on job specific hazards)		<input type="checkbox"/> Air Purifying Respirator <input type="checkbox"/> Supplied Air Respirator <input type="checkbox"/> Personal H2S Monitor <input type="checkbox"/> Personal Methane Monitor				
<input type="checkbox"/> Hard Hat <input type="checkbox"/> Safety Glasses <input type="checkbox"/> Steel Toe Boots <input type="checkbox"/> Impact Gloves		<input type="checkbox"/> FR Coveralls <input type="checkbox"/> Reflective Vest		<input type="checkbox"/> Goggles <input type="checkbox"/> Faceshield <input type="checkbox"/> Chemical Resistant Gloves <input type="checkbox"/> Chemical Resistant Clothing				
JOB STEPS		POTENTIAL HAZARDS		RECOMMENDED ACTION OR PROCEDURE				
iew JSA		Misunderstanding		Clarify job and associated hazards and safety concerns				
duct pre job safety meeting		Misunderstanding		-Hold safety meeting with all personnel on location, ensure everyone pays attention to ensure they understand their role and responsibility during the job -Review treatment report with consultant and attain signature for authorization to proceed -Identify and address short service employees (SSE) who are on location -Verify method of relaying hand signals to rig crew for shutting down mud pump				
ve trucks in and rig up equipment		Other traffic on location, overhead lines, pinch points, heavy lifting, slips/falls		-Coordinate with well site supervisor for directions on where and when to park the equipment -All Bison crew members walk the location prior to driving in to access specific hazards -Utilize spotters when trucks are in motion -Establish buffer zone around equipment utilizing cones and caution tape -Cementer follows up to ensure connections are secure -Lift with your legs and use teamwork when rigging up -Utilize reflective vests and wands to increase visibility at night -Deploy spill berms and buckets -Verify connections on mudline for compatibility				
ie hose to rig floor		Overhead work, improper hook up/load not properly secured, miscommunication between ground personnel and the crane/tugger operator		Inspect chains, slings, hooks prior to lift -Ensure line of sight with crane/tugger operator is maintained throughout the lift and hand signals are clarified before the lift. -Ensure no personnel are under suspended loads -Utilize tag line				
ach swage to tubing/Connect to swage on pipe		Connections/equipment failing under pressure, spills, slips and falls		-Insure swage has proper pressure rating for the job and falls within the parameters of the <i>Bison Oilwell Cementing Iron Inspection Program</i> -Verify the compatibility of the connections on a swage/pin provided by the rig -Minimize number of people on rig floor, utilize Bison personnel to attach cement lines -Be aware of surroundings when swinging a hammer				
ssure test lines		Equipment failing under high pressures		-Ensure rig floor is clear and personnel are away from hoses prior to test -Establish buffer area around high pressure hoses -Lines are checked from a distance and using pressure gauges -Cementer ensures pressure gauges are working properly				
Test to:		PSI- 1000		Pressure relief valve set to: 2000 PSI-				
Maximum pressure allowed for job:		PSI- 1500		Max. pump pressure: 5000 PSI-				
				AC				



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BISON OILWELL CEMENTING JOB SAFETY ANALYSIS WORKSHEET

np Spacer/Mix and Pump tent	Serious injury from high pressure line failure or catastrophic equipment failure. Burns or skin irritation from splashing cement, uncontrolled spills	-Pressure test prior to job, utilize heavy duty hose hobbles and pressure relief valve -Keep rig floor and buffer area clear while pumping -Utilize proper PPE -Have access to water to rinse affected skin -Deploy spill berms and buckets	AC
placement	Unexpected pressure associated with resuming of pumping, serious injury from high pressure line failure catastrophic equipment failure, spills, overpressure of mudlines	-Ensure rig floor remains clear and non-essential personnel stay clear from buffer area -Pump operator monitors pump pressure constantly -Utilize proper PPE -During displacement ensure one mudline valve is always open -Review method of relaying hand signals to rig crew to engage/disengage mud pumps	AC
AT STEPS 7 AND 8 AS REQUIRED			
sh up / rig down	Splashing cement slurry, heavy lifting, pinch points, unsecured hoses	-Utilize stakes or portable tank manifold to secure hoses -Use proper lifting technique (2 man lift, lift with legs, plan your route)	AC
part location	Other traffic and personnel and location, overhead lines	-All Bison crew member walk the planned exit route to access possible obstacles and hazards -Utilize spotters while backing	AC
eneral Precautions/Stop Work	-If you see a leaking connection, notify the cementer. Do not attempt to hammer up a leaking connection as there may be pressure on the lines. - Any person on location, regardless of their position or experience level has the authority and responsibility to stop the job if they witness an unsafe act or condition.		AC
HAZARDS SPECIFIC TO LOCATION OR COMMENT NOT ADDRESSED ABOVE:			
NATED EMERGENCY MUSTER AREA:			
D COUNT-			
NEAREST EMERGENCY MEDICAL FACILITY (OTHER THAN 911): Greeley Colo			