

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

№ 12524

WELL NO. AND FARM EHMKE		COUNTY weld	STATE CO	DATE 11-18-13
CHARGE TO CURR 120		WELL LOCATION SEC. 6 TWP. 10N RANGE 59W		CONTRACTOR Boll
DELIVERED TO 124+107			LOCATION 1 Shop	CODE
SHIPPED VIA 3102-3206			LOCATION 2 124-107	CODE
TYPE AND PURPOSE OF JOB P+A			LOCATION 3 Shop	CODE
			WELL TYPE Gas	CODE

PRICE REFERENCE	DESCRIPTION	UNITS		UNIT PRICE	AMOUNT
		QTY.	MEAS.		
	Pump charge	1	ea	3000 ⁰⁰	3000 ⁰⁰
	Grout	952	SKS	22 ⁷⁵	21658 ⁰⁰
	Datta Arc	1	ea	225 ⁰⁰	225 ⁰⁰
	millage 150 Per mile	79.5	ea	119.25	119.25
	millage 400 Per mile	79.5	ea	318 ⁰⁰	636 ⁰⁰
	Iron Inspection	1	ea	500 ⁰⁰	500 ⁰⁰
	wait time		hr	250 ⁰⁰	

<input type="checkbox"/> DRLS	<input type="checkbox"/> PROD	<input type="checkbox"/> COMP	<input checked="" type="checkbox"/> W9
Well:	EHMKE 1 P+A	AMT \$	26138.25
AFF:	313414	Code:	170-110
Description:	CEMENT WELL		
Signature:	Kurt Williams		

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%.

Total Weight Loaded Miles Ton Miles

TAX REFERENCES

"TAXES WILL BE ADDED AT CORPORATE OFFICE"

SUB TOTAL	26138.25
TAX	
TOTAL	

SUBJECT TO CORRECTION

Monte Bedeup

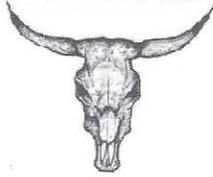
Customer or His Agent

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.

BISON OIL WELL CEMENTING, INC.

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INVOICE #
 LOCATION
 FOREMAN

12524
 124+107
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TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY
11-18-13	ETHMKE well 1	6	10N	59W	wald
BILL TO	CONSULTANT				
CARRIZO	Bill Pitts				
OWNER	RIG NAME & NUMBER				
	select 6				
MAILING ADDRESS	DISTANCE TO LOCATION		UNITS ON LOCATION		
	79.1		3102 - 3206		
CITY	TIME REQUESTED		TIME ARRIVED ON LOCATION		
	930 Pm		830 Pm		
STATE, ZIP	TIME LEFT LOCATION				
	930 Pm				

WELL DATA

HOLE SIZE	TUBING SIZE	PERFORATIONS
	2 7/8	
TOTAL DEPTH	TUBING DEPTH	SHOTS/FT
	6586.9	
CASING SIZE	TUBING WEIGHT	OPEN HOLE
	6.0	
CASING DEPTH	TUBING CONDITION	TREATMENT VIA
	Good	
CASING WEIGHT	PACKER DEPTH	
CASING CONDITION		
Max Rate		
Max Pressure		

Cement Makeup

Cement Blend	Co Neat		
Cement - Specs	lbs	Yield	Water Requirements
	15.2	1.27	5.89
Annulus Factor	Capacity Factor		
.0059			

TYPE OF TREATMENT

Surface Pipe Production Squeeze
 MISC Pump P&A

HYD HHP = RATE X PRESSURE / 40.8

% Excess
 BBL to Pit

DESCRIPTION OF JOB EVENTS

safety meeting MFRU Pressure test Per company man ^{1st 6564 ft} circulate
 5 bbls H2O mix + Pump 150 SKS displace 39 bbls
 2nd mix + Pump to surface pull pipe + top off 1075 ft
 3rd mix + Pump to surface 520-PT

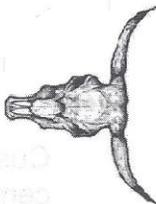
X Jul Williams
 Authorization To Proceed

WSS
 Title

X 11-18-13
 Date

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INVOICE #
 LOCATION
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12524
 124-107
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Treatment Report Page 2

DESCRIPTION OF JOB EVENTS

Safety Meeting	MIRU	Displace 1			Displace 2			Displace 3			Displace 4			Displace 5		
		BBS	Time	PSI	BBS	Time	PSI	BBS	Time	PSI	BBS	Time	PSI	BBS	Time	PSI
CIRCULATE	900	0	5:57	360	0	1240	160	0		0		0		0		0
Drop Plug	542	10	5:57	360	20	1241	160	10		10		10		10		10
		20	6:00	610	30			20		20		20		20		20
		30	6:03	980	40			30		30		30		30		30
		30	6:05	1330	50			40		40		40		40		40
	M & P	50			60			50		50		50		50		50
	Time	60			70			60		60		60		60		60
	Sacks	70			80			70		70		70		70		70
947-556	150	80			90			80		80		80		80		80
1205-1240	530	90			100			90		90		90		90		90
742-753	272	100			110			100		100		100		100		100
		110			120			110		110		110		110		110
		120			130			120		120		120		120		120
		130			140			130		130		130		130		130
		140			150			140		140		140		140		140
		150						150		150		150		150		150

Notes:

circulate 5 bbls Ahead m it & P up 150 sks cement displace 39 bbls 420
 m it & P up 530 sks pull out of hole wait tag cement
 m it & P up 272 sks to surface displace 1/2 bbl
 1st 150 sks deep 39 bbls 420
 2nd 530 sks
 3rd 272 sks

X Kurt Williams
 Work Performed

X WSS
 Title

X 17-18-13
 Date



Bison Oil Well Cementing, Inc
 1738 Wynkoop St., Ste. 102
 Denver, CO 80202
 303-296-3010
 www.Bisonoilwell.com

Cementing Customer Satisfaction Survey

Service Date 11-18-13 Invoice Number 12824
 Invoice Amount _____ Well Permit Number _____
 Well Name EA make 1 Well Type Gas
 Well Location 1242107 Well Number 1
 County Weld Lease _____
 SEC/TWP/RNG 6 10N 54W Job Type P + A
 State CO Company Name COW 120
 Supervisor Name moate Customer Representative Bill
 Customer Phone Number _____

Employee Name mark jeff Exposure Hours (Per Employee)
25
25

Total Exposure Hours 50 Did we encounter any problems on this job? Yes / No

To Be Completed By Customer

- | | |
|--|-------------------------|
| Rating/Description | Opportunity |
| 5 - Superior Performance (Established new quality / performance standards) | Best Practices |
| 4 - Exceeded Expectations (Provided more than what was required / expected) | Potential Best Practice |
| 3 - Met Expectations (Did what was expected) | Prevention/Improvement |
| 2 - Below Expectations (Job problems / failures occurred [* Recovery made]) | |
| 1 - Poor Performance (Job problems / failures occurred [* Some recovery made]) | |
- * Recovery: resolved issue(s) on jobsite in a timely and professional manner

- | | |
|--------------------------------|---|
| RATING / CATEGORY | CUSTOMER SATISFACTION RATING |
| _____ Personnel - | Did our personnel perform to your satisfaction ? |
| _____ Equipment - | Did our equipment perform to your satisfaction ? |
| _____ Job Design - | Did we perform the job to the agreed upon design ? |
| _____ Product / Material - | Did our products and materials perform as you expected ? |
| _____ Health & Safety - | Did we perform in a safe and careful manner (Pre / post mtgs, PPE, TSMR, etc..) ? |
| _____ Environmental - | Did we perform in an environmentally sound manner (Spills, leaks, cleanup, etc..) ? |
| _____ Timeliness - | Was job performed as scheduled(On time to site, accessible to customer, completed when expected)? |
| _____ Condition / Appearance - | Did the equipment condition and appearance meet your expectation? |
| _____ Communication - | How well did our personnel communicate during mobilization, rig up, and job execution? |
| _____ Improvement - | What can we do to improve our service? |

- Please Circle:**
- Yes / No - Did an accident or injury occur?
 Yes / No - Did an injury requiring medical treatment occur?
 Yes / No - Did a first-aid injury occur?
 Yes / No - Did a vehicle accident occur?
 Yes / No - Was a post-job safety meeting held?

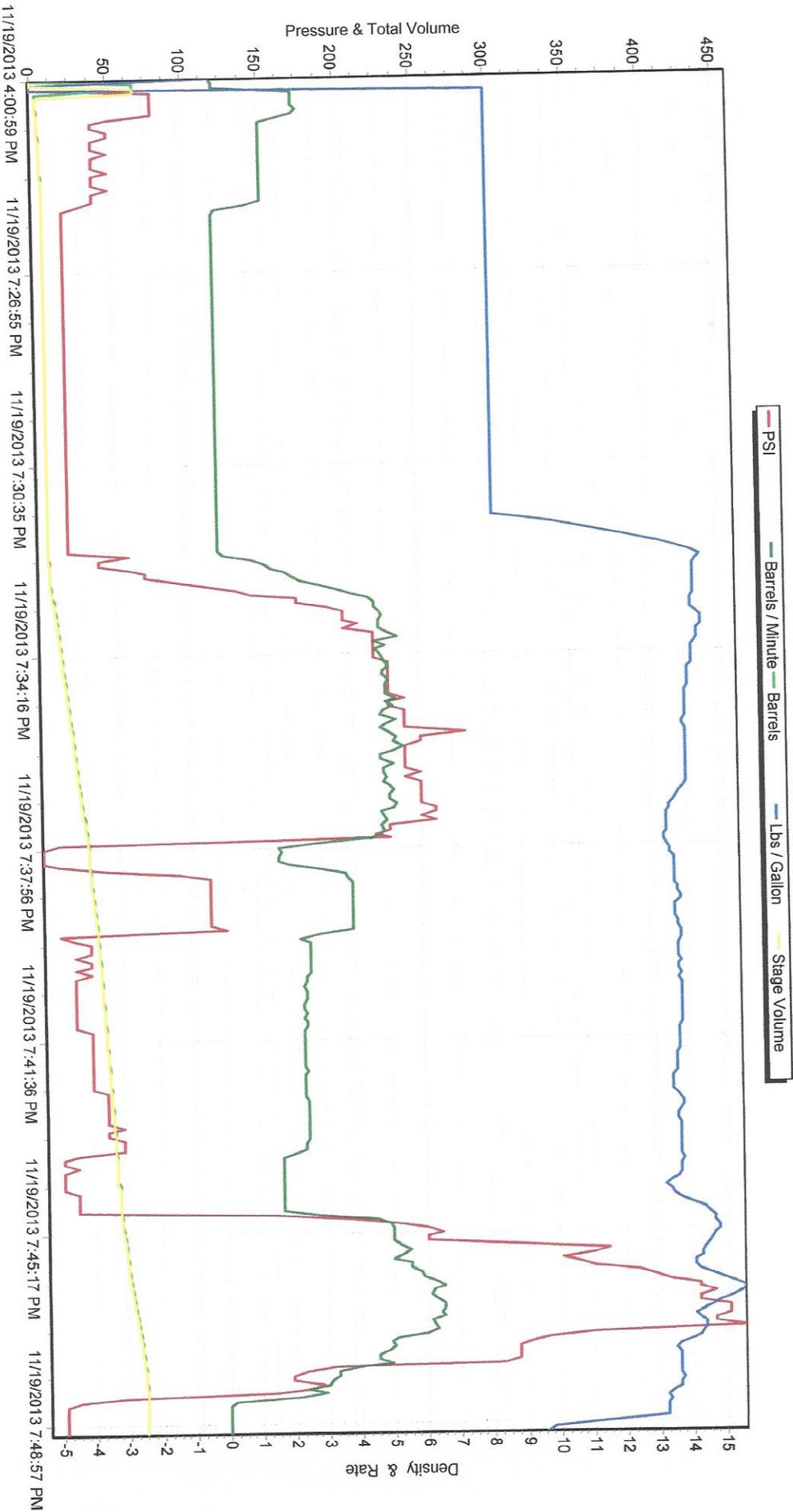
- Please Circle:**
- Yes / No - Was a pre-job safety meeting held?
 Yes / No - Was a job safety analysis completed?
 Yes / No - Were emergency services discussed?
 Yes / No - Did environmental incident occur?
 Yes / No - Did any near misses occur?

THE INFORMATION HEREIN IS CORRECT -

Mark Williams 11-18-13
 Customer Representative's Signature Date

Any additional Customer Comments or HSE concerns should be described on the back of this form

M/D TOTCO 2000 SERIES



BISON OILWELL CEMENTING JOB SAFETY ANALYSIS WORKSHEET



ASK: Plug and Abandon

CEMENTER/SUPERVISOR: monte bedeaux

PAGE 1

OF 3

NAME: ehmkc 1

RIG # select 6

LOCATION: 124-107

DATE: 11-18-13

ATOR: Carrizo

CONSULTANT: bill

INVOICE # 1252 4

EQUIPED: Hard Hat FR Coveralls ADDITIONAL PPE (based on job specific hazards)

- Safety Glasses
- Steel Toe Boots
- Impact Gloves

- Reflective Vest

- Goggles
- Faceshield
- Chemical Resistant Gloves
- Personal H2S Monitor
- Chemical Resistant Clothing
- Personal Methane Monitor
- Air Purifying Respirator
- Supplied Air Respirator

JOB STEPS	POTENTIAL HAZARDS	RECOMMENDED ACTION OR PROCEDURE	REVIEWED BY
few JSA	Misunderstanding	Clarify job and associated hazards and safety concerns	MB
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	
se 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 falling 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	Pressure relief valve set to: PSI-2000 Max. pump pressure: PSI-10000
	Test to: PSI-500 Maximum pressure allowed for job: PSI-2000		

BISON OILWELL CEMENTING JOB SAFETY ANALYSIS WORKSHEET



<p>mp Spacer/Mix and Pump tent</p>	<p>Serious injury from high pressure line failure or catastrophic equipment failure. Burns or skin irritation from splashing cement, uncontrolled spills</p>	<p>-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</p>	<p>NB</p>
<p>placement</p>	<p>Unexpected pressure associated with resuming of pumping, serious injury from high pressure line failure catastrophic equipment failure, spills, overpressure of mudlines</p>	<p>-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</p>	
<p>IT STEPS 7 AND 8 AS REQUIRED</p>			
<p>sh up / rig down</p>	<p>Splashing cement slurry, heavy lifting, pinch points, unsecured hoses</p>	<p>-Utilize stakes or portable tank manifold to secure hoses -Use proper lifting technique (2 man lift, lift with legs, plan your route)</p>	
<p>part location</p>	<p>Other traffic and personnel and location, overhead lines</p>	<p>-All Bison crew member walk the planned exit route to access possible obstacles and hazards -Utilize spotters while backing</p>	
<p>eneral Precautions/Stop Work</p>	<p>-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.</p>		
<p>R HAZARDS SPECIFIC TO LOCATION OR COMMENT NOT ADDRESSED ABOVE:</p>		<p>NEAREST EMERGENCY MEDICAL FACILITY (OTHER THAN 911): sterling</p>	
<p>NATED EMERGENCY MUSTER AREA: access rd COUNT- 11</p>			



Signature and Company	
Kurt Wilhoit	SEC
Carl Eck	Sevier
Steve Baker	SAS
Clay Bomer	SES
Steve Connor	SES
Daniel Gustin	SES
Frank Poyner	SES
Steve	
Mark Smith	Bison
Scott Knepp - Bison	
Monte Baker	



BISON
Oil Well Cementing Inc.

PRE TRIP CEMENT CALL OUT SHEET

INVOICE # 12524

DATE/TIME 11/28/43

WELL NAME Ehmkel 1

OPERATOR Kirk / 1311

CUSTOMER Carri 20

LOCATION/RIG 124+107 select 6

DELIVERED TO 124+107

PRE CHECK CALL OUT

CHECK ITEMS	Supervisor		BULK TRUCK DRIVER	Supervisor	
	Initials	Other Initials		Initials	Other Initials
DRY SAMPLE #	mb	jk	VACUUM BREAKER PORT CLEANED & INSPECTED & SPARE ON TRUCK	mb	ms
REQUIRED CEMENT CONNECTIONS	mb	jk	WATER JET AT MIX HEAD REMOVED, INSPECTED & CLEANED	mb	ms
TYPE OF CEMENT	Good Neat	ms	CEMENTING HEAD INSPECTED & CLEANED		ms
# OF LBS/SACKS	full	ms	MIX TUB INSPECTED & CLEANED	mb	ms
FLOAT EQUIPMENT			CENTRIFUGALS GREASED, TIGHTENED & INSPECTED	mb	ms
BEGINNING FUEL	full	jk	DECK MOTORS STARTED	mb	ms
STATING MILAGE	305870	jk	VERIFY ALL AIR VALVES ARE FUNCTIONAL	mb	ms
PERSONAL PROTECTIVE EQUIPMENT	mb	jk	VERIFY ALL VALVES ARE FUNCTIONAL ON BULK TRUCK	mb	jk
DRIVING DIRECTIONS	mb	jk	VERIFY BERMS ARE ON BULK TRUCK	mb	jk
DRIVERS LOGS UPDATED PRIOR TO LEAVING YARD	mb	jk	VERIFY SPARE CEMENT HEAD IS ON BULK TRUCK		jk
TRUCK PRE TRIP COMPLETED	mb	jk	VERIFY 1" TUBING IS ON BULK TRUCK	mb	jk
ROCK CATCHERS REMOVED & CLEANED	mb	ms	VERIFY 1" IS ADEQUATELY SECURED ON BULK TRUCK	mb	jk
VACUUM BREAKER REMOVED & CLEANED	mb	ms	CHECK FOR ADEQUATE SUPPLY OF KCL, DYE AND DEFOAMER	mb	
VERIFY CORRECT POP OFF PIN IN PLACE	mb	ms	TOP OFF FUEL IN TRUCKS POST TRIP	mb	jk
VERIFY PRESSURE TRANSDUCERS ARE CLEAN OF CEMENT	mb	ms	VERIFY PARKING METER GAUGE IS ON TRUCK		
CLEAN TRUCKS	mb	jk	DRAIN AIR TANKS	mb	jk
TIGHTEN PACKING NUTS ON PLUNGERS	mb	ms			

CEMENT HEAD CHECK LIST

	Supervisor	
	Initials	Other Initials
THREADS		
VALVES		
PIN		

COMMENTS: