

BISON OIL WELL CEMENTING, INC.

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Denver, Colorado 80202
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SERVICE INVOICE

№ 12160

WELL NO. AND FARM NB Farms 22-01-1N4W	COUNTY Yuma	STATE Colorado	DATE 3-26-14
CHARGE TO Excell	WELL LOCATION SEC. 1	TWP. 1N RANGE 4W	CONTRACTOR Excell
	DELIVERED TO CR 35-CRU	LOCATION 1	CODE
	SHIPPED VIA 31014020-32034020	LOCATION 2 Yuma	CODE
	TYPE AND PURPOSE OF JOB Production	LOCATION CR 35-CRU	CODE
		WELL TYPE oil	CODE

[illegible]


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"

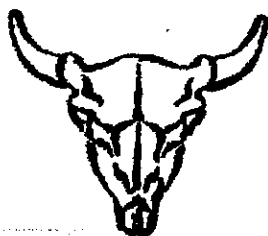
SUBJECT TO CORRECTION


Customer or His Agent

Agnes 

Elson 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 herant which include the release and indemnity



Bison Oil Well Cementing Tail & Lead

Customer: Excell
Well Name: N B Farms 22-01 1n 46w

Date: 3/21/2014
Invoice # 12160
API# 05-125-12077-00
Foreman: Aaron Carrasco

County: yuma
State: colorado
Sec: 1
Twp: 1n
Range: 46w

Consultant: mark zion
Rig Name & Number: excell rig 2
Distance To Location: 60
Units On Location: 3101-4029-4020-3205
Time Requested: 10:30 pm
Time Arrived On Location: 9:30 pm
Time Left Location:

WELL DATA

Casing Size (in) : 4.500
Casing Weight (lb) : 10.5
Casing Depth (ft) : 2,698
Total Depth (ft) : 2725
Open Hole Diameter (in) : 6.25
Conductor Length (ft) : 0
Conductor ID : 0
Shoe Joint Length (ft) : 43
Landing Joint (ft) : 9

Sacks of Tail Requested 75
HOC Tail (ft): 0

One or the other, cannot have quantity in both

Max Rate: 4 bbls min
Max Pressure: 1500 psi

Cement Data

Lead

Cement Name:
Cement Density (lb/gal) : 12.1
Cement Yield (cuft) : 2.21
Gallons Per Sack 12.04
% Excess 0%

Tail

Cement Name:
Cement Density (lb/gal) : 13.8
Cement Yield (cuft) : 1.33
Gallons Per Sack: 6.28
% Excess: 0%

Fluid Ahead (bbls) 0.0
H2O Wash Up (bbls) 0.0

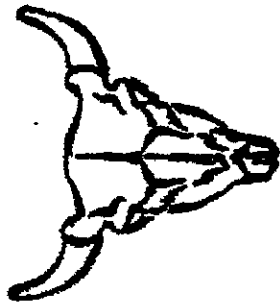
Spacer Ahead Makeup
5-kl = 10- dye = 42 kcl

Casing ID	4.052	Casing Grade	J-55 only used
Lead Calculated Results		Tail Calculated Results	
HOC of Lead	1754.34 ft	Tail Cement Volume In Ann (HOC Tail) X (OH Ann)	99.75 cuft
Casing Depth - HOC Tail		Total Volume of Tail Cement (HOC Tail X OH Ann) - (Shoe Length X Shoe Joint Ann)	95.90 Cuft
Volume of Lead Cement	180.00 cuft	bbls of Tail Cement (HOC of Tail) X (OH Ann) + (Cement Yield) X (Shoe Joint Ann) X (.1781) X (% Excess)	17.77 bbls
HOC of Lead X Open Hole Ann		HOC Tail (Tail Cement Volume) ÷ (OH Ann)	934.66 ft
Volume of Conductor	0.00 cuft	Sacks of Tail Cement (Total Volume of Tail Cement) ÷ (Cement Yield)	75.00 sk
(Conductor ID Squared) - (Casing Size OD Squared) X (.005454) X (Conductor Length ft)		bbls of Tail Mix Water (Sacks of Tail Cement X Gallons Per Sack) ÷ 42	11.21 bbls
Total Volume of Lead Cement (cuft of Lead Cement) + (Cuft of Conductor)	180.00 cuft	Pressure of cement in annulus	
bbls of Lead Cement (Total cuft of Lead Cement) X (.1781) X (1+%Lead Excess)	32.06 bbls	Hydrostatic Pressure	1695.96 PSI
Sacks of Lead Cement (Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)	81.45 sk	Collapse PSI:	#N/A psi
bbls of Lead Mix Water (Sacks Needed) X (Gallons Per Sack) ÷ 42	23.35 bbls	Burst PSI:	#N/A psi
Displacement (Casing ID Squared) X (.0009714) X (Casing Depth) + (Landing Joint) - (Shoe Length)	42.36 bbls		
Total Water Needed:	23.35 bbls		

X

Authorization 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 Two Cement Surface Pipe

Date
INVOICE #
LOCATION
FOREMAN

3/21/2014
12160
Yuma
Aaron Carrasco

Customer
Well Name

Excell
N B Farms 22-01 1n 46w

Treatment Report Page 2

DESCRIPTION OF JOB EVENTS

Safety Meeting	11:55 pm	Displace 1			Displace 2			Displace 3			Displace 4			Displace 5		
		BBLs	Time	PSI	BBLs	Time	PSI	BBLs	Time	PSI	BBLs	Time	PSI	BBLs	Time	PSI
MIRU	9:32 pm	0	12:36 am	0	0			0			0			0		
CIRCULATE	12:02 am	10	12:39 am	50	10			10			10			10		
		20	12:42 am	320	20			20			20			20		
		30	12:45 am	500	30			30			30			30		
		40	12:50 am	1080	40			40			40			40		
M & P		50			50			50			50			50		
		60			60			60			60			60		
		70			70			70			70			70		
		80			80			80			80			80		
		90			90			90			90			90		
		100			100			100			100			100		
		110			110			110			110			110		
		120			120			120			120			120		
Lead mixed bbls	33	130			130			130			130			130		
		140			140			140			140			140		
		150			150			150			150			150		
Lead % Excess	41%															
Lead Sacks	115															

Notes:

Tail mixed bbls	11.2
Tail % Excess	0%
Tail Sacks	75
Total Sacks	190
bbl Returns	

X

X

X

Work Performed

Title

Date



Bison Oil Well Cementing Tail & Lead

Cementing Customer Satisfaction Survey

Service Date	3/21/2014
Well Name	N B Farms 22-01 1n 46w
County	yuma
State	colorado
SEC	1
TWP	1n
RNG	46w

Invoice Number	12160
API #	05-125-12077-00
Job Type	
Company Name	Excell

Customer Representative mark zion

Supervisor Name Aaron Carrasco

Employee Name (Including Supervisor)	
Aaron	
Jairo	
Oscar	

Exposure Hours (Per Employee)

4
4
4

Total Exposure Hours

12

Did we encounter any problems on this job?

☐ Yes

☒ No

To Be Completed By Customer

Rating/Description

- 5 - Superior Performance (Established new quality/performance standards)
 - 4 - Exceeded Expectation (Provided more than what was required/expected)
 - 3 - Met Expectations (Did what was expected)
 - 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

<input type="checkbox"/>	Personnel -
<input type="checkbox"/>	Equipment -
<input type="checkbox"/>	Job Design -
<input type="checkbox"/>	Product/Material -
<input type="checkbox"/>	Health & Safety -
<input type="checkbox"/>	Environmental -
<input type="checkbox"/>	Timeliness -
<input type="checkbox"/>	Condition/Appearance -
<input type="checkbox"/>	Communication -

CUSTOMER SATISFACTION RATING

Did our personnel perform to your satisfaction?
Did our equipment perform to your satisfaction?
Did we perform the job to the agreed upon design?
Did our products and materials perform as you expected?
Did we perform in a safe and careful manner (Pre/post mtgs, PPE, TSMR, etc..)?
Did we perform in an environmentally sound manner (spills, leaks, cleanup, etc..)?
Was job performed as scheduled (On time to site, accessible to customers, completed when expected)?
Did the equipment condition and appearance meet your expectations?
How well did our personnel communicate during mobilization, rig up and job execution?

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?

Additional Comments:

THE INFORMATION HEREIN IS CORRECT -

X

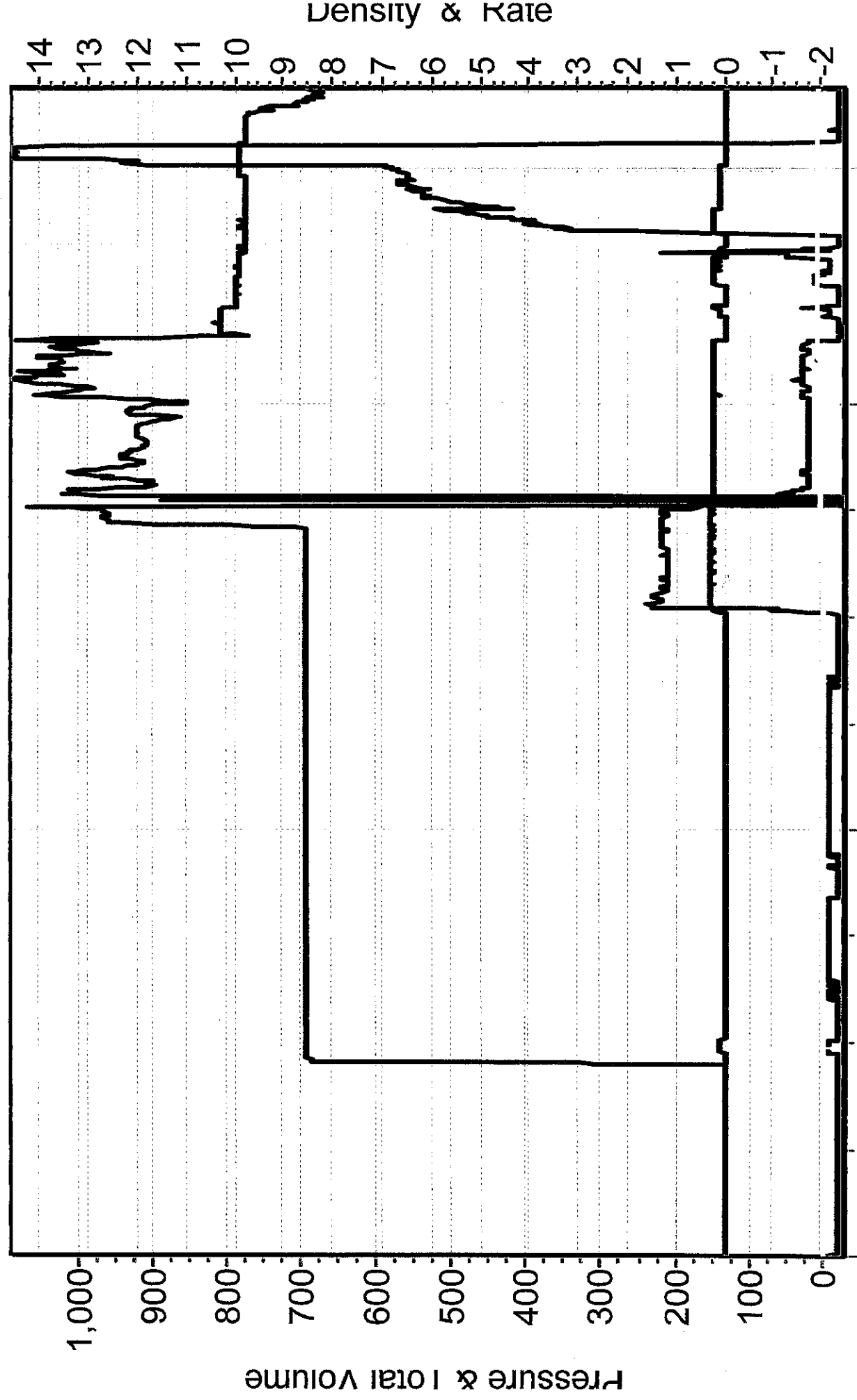
Customer Representative's Signature

DATE:

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

M/D TOTCO 2000 SERIES

— PSI — Barrels / Minute — Barrels — Lbs / Gallon



6/2014 10:53:38 PM 3/26/2014 11:38:32 PM 3/27/2014 12:23:37 AM