



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 3/18/2014
 Invoice #: 12105
 API#
 Foreman: monte

Customer: excell 2
 Well Name: five rivers 22-19-2n-46w

County: yuma Consultant: mark
 State: colorado Rig Name & Number: excell 2
 Distance To Location: 134.5
 Sec: 19 Units On Location: 4028-3102 4020-3202
 Twp: 2n Time Requested: 5:00pm
 Range: 46w Time Arrived On Location: 4:45pm
 Time Left Location:

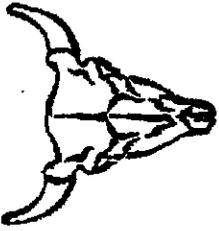
WELL DATA	Cement Data
Casing Size OD (in) : <u>7</u>	Cement Name: <u>b3 lite</u>
Casing Weight (lb) : <u>17.00</u>	Cement Density (lb/gal) : <u>15.2</u>
Casing Depth (ft.) : <u>495</u>	Cement Yield (cuft) : <u>1.07</u>
Total Depth (ft) : <u>506</u>	Gallons Per Sack: <u>4.20</u>
Open Hole Diameter (in.) : <u>9.93</u>	% Excess: <u>125%</u>
Conductor Length (ft) : _____	Displacement Fluid lb/gal: _____
Conductor ID : _____	BBL to Pit: _____
Shoe Joint Length (ft) : <u>40</u>	Fluid Ahead (bbls): <u>10.0</u>
Landing Joint (ft) : <u>6</u>	H2O Wash Up (bbls): <u>20.0</u>
Max Rate: _____	Spacer Ahead Makeup
Max Pressure: _____	<u>10 fresh</u>

Calculated Results	Pressure of cement in annulus
cuft of Shoe <u>9.33</u> cuft (Casing ID Squared) X (.005454) X (Shoe Joint ft)	Displacement: <u>19.14</u> bbls (Casing ID Squared) X (.0009714) X (Casing Depth + Landing Joint - Shoe Joint)
cuft of Conductor <u>0.00</u> cuft (Conductor Width Squared) - (Casing Size OD Squared) X (.005454) X (Conductor Length ft)	Hydrostatic Pressure: <u>390.85</u> PSI
cuft of Casing <u>133.65</u> cuft (Open Hole Squared) - (Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)	Pressure of the fluids inside casing
Total Slurry Volume <u>142.98</u> cuft (cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)	Displacement: <u>#N/A</u> psi
bbls of Slurry <u>57.29</u> bbls (Total Slurry Volume) X (.1781) X (% Excess Cement)	Shoe Joint: <u>31.58</u> psi
Sacks Needed <u>301</u> sk (Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)	Total <u>#N/A</u> psi
Mix Water <u>30.07</u> bbls (Sacks Needed) X (Gallons Per Sack) ÷ 42	Differential Pressure: <u>#N/A</u> psi
	Collapse PSI: <u>#N/A</u> psi
	Burst PSI: <u>#N/A</u> psi
	Total Water Needed: <u>79.21</u> bbls



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 Single Cement Surface Pipe

INVOICE # 12105
 LOCATION yuma
 FOREMAN monte
 Date 3/18/2014

Customer excell 2
 Well Name five rivers 22-19-2h-46w

Treatment Report Page 2

DESCRIPTION OF JOB EVENTS

	7:45 5:30pm 8:18	Displace 1		Displace 2		Displace 3		Displace 4		Displace 5			
		BBLS	Time	PSI	BBLS	Time	PSI	BBLS	Time	PSI	BBLS	Time	PSI
Safety Meeting		0	8:39	0									
MIRU		10	8:42	110	10		10		10		10		
CIRCULATE		19	9:25	250	20		20		20		20		
Drop Plug		30			30		30				30		
		40			40		40				40		
		50			50		50				50		
M & P		60			60		60				60		
Time	Sacks	70			70		70				70		
8:20-8:35	300	80			80		80				80		
		90			90		90				90		
		100			100		100				100		
		110			110		110				110		
% Excess	125%	120			120		120				120		
Mixed bbls	30	130			130		130				130		
Total Sacks	300	140			140		140				140		
bbl Returns	19	150			150		150				150		
Water Temp	47												

Notes:

safety meeting, miru, pressure test per company man, circulate 1/2 bbl ahead, mix and pump 300 sks cement at 15.2, 1.07 yield, 4.2 h2o, displace 19 bbls h2o in stage

X

Work Performed _____

X Title

X Date



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Cementing Customer Satisfaction Survey

Service Date	3/18/2014
Well Name	five rivers 22-19-2n-46w
County	yuma
State	colorado
SEC	19
TWP	2n
RNG	46w

Invoice Number	12105
API #	0
Job Type	Single Cement Surface Pipe
Company Name	excel 2

Customer Representative:

Supervisor Name:

Employee Name (Including Supervisor)
monte b.
jairo
oscar

Exposure Hours (Per Employee)
5
5
5
15

Total Exposure Hours

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	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 customers, completed when expected)?
_____	Condition/Appearance -	Did the equipment condition and appearance meet your expectations?
_____	Communication -	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

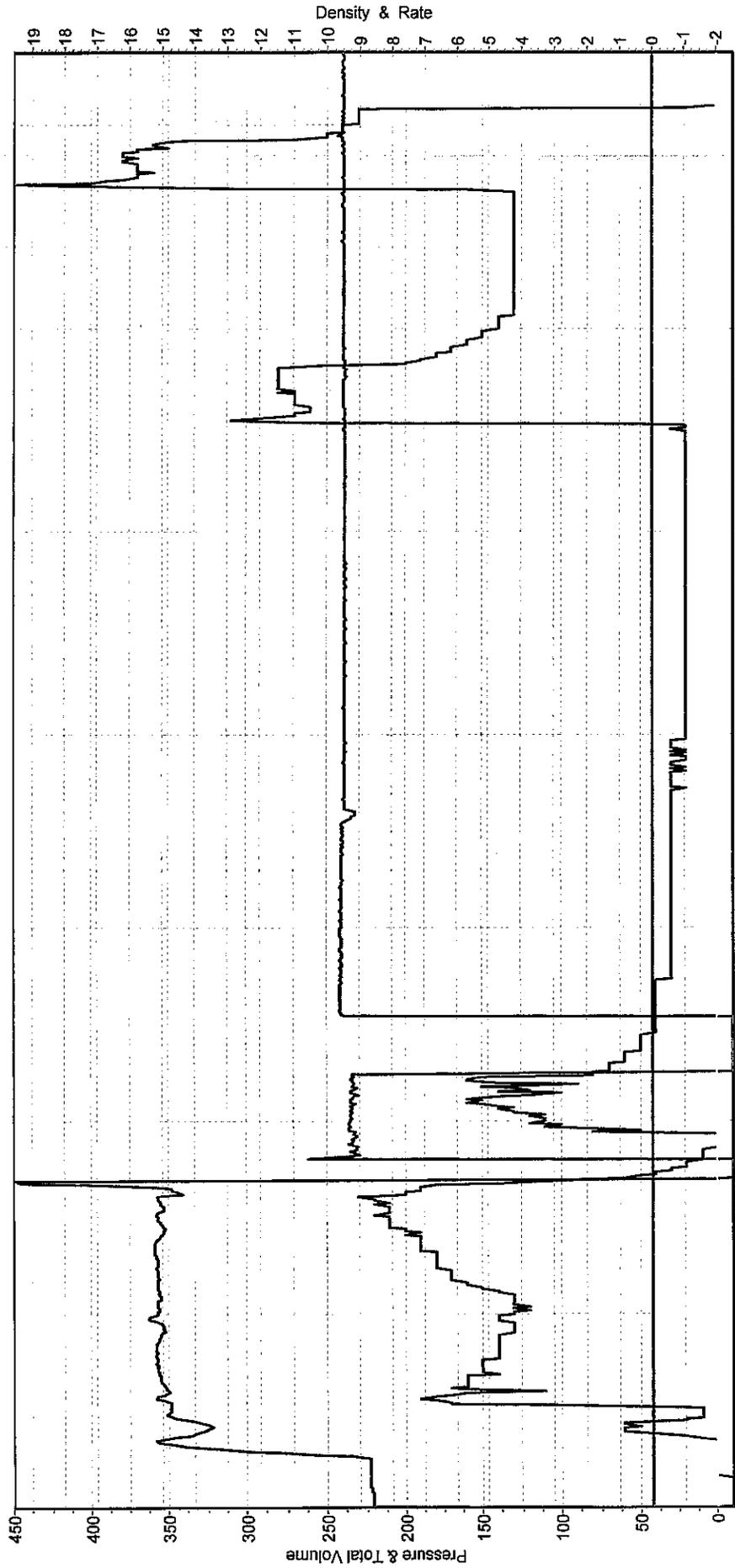
Customer Representative's Signature

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 — Stage Volume



3/18/2014 9:20:28 PM 3/18/2014 9:29:39 PM 3/18/2014 9:38:45 PM 3/18/2014 9:47:56 PM 3/18/2014 9:57:07 PM 3/18/2014 10:06:42 PM 3/18/2014 10:16:18 PM 3/18/2014 10:25:59 PM