



Bisor Oil Well Cementing Single Cement Surface Pipe

Date: 3/20/2014
Invoice # 12106
API#
Foreman: monte

Customer: noble

Well Name: trisha lc29-18hnb

County: weld
State: colorado

Sec: 29
Twp: 9n
Range: 59w

Consultant: lane
Rig Name & Number: h & p 273
Distance To Location: 65.7
Units On Location: 4028-3102 4018-3202
Time Requested: 4:00pm
Time Arrived On Location: 3:45pm
Time Left Location:

WELL DATA

Casing Size OD (in) : 9.625
Casing Weight (lb) : 36.00
Casing Depth (ft) : 595
Total Depth (ft) : 640
Open Hole Diameter (in.) : 13.75
Conductor Length (ft) : 124
Conductor ID : 15.5
Shoe Joint Length (ft) : 45
Landing Joint (ft) : 36

Max Rate:
Max Pressure:

Cement Data

Cement Name: bfn111
Cement Density (lb/gal) : 15.2
Cement Yield (cuft) : 1.27
Gallons Per Sack: 5.89
% Excess: 25%
Displacement Fluid lb/gal:
BBL to Pit:
Fluid Ahead (bbls): 40.0
H2O Wash Up (bbls): 20.0

Spacer Ahead Makeup
10 fresh 10 dye 20 fresh

Casing ID

8.921

Casing Grade

J-55 only used

Calculated Results

cuft of Shoe 19.53 cuft
(Casing ID Squared) X (.005454) X (Shoe Joint ft)

cuft of Conductor 99.83 cuft
(Conductor Width Squared) - (Casing Size OD Squared) X (.005454) X (Conductor Length ft)

cuft of Casing 247.69 cuft
(Open Hole Squared) - (Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)

Total Slurry Volume 367.05 cuft
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)

bbls of Slurry 81.71 bbls
(Total Slurry Volume) X (.1781) X (% Excess Cement)

Sacks Needed 361 sk
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)

Mix Water 50.66 bbls
(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 45.30 bbls
(Casing ID Squared) X (.0009714) X (Casing Depth + Landing Joint - Shoe Joint)

Pressure of cement in annulus

Hydrostatic Pressure: 469.81 PSI

Pressure of the fluids inside casing

Displacement: #N/A psi

Shoe Joint: 35.53 psi

Total #N/A psi

Differential Pressure: #N/A psi

Collapse PSI: #N/A psi

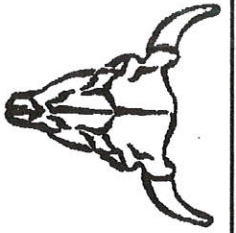
Burst PSI: #N/A psi

Total Water Needed: 155.97 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
Single Cement Surface Pipe

Customer
Well Name

noble
trisha lc2978hnb

INVOICE #
LOCATION
FOREMAN
Date

12106
weld
monte
3/20/2014

Treatment Report Page 2

DESCRIPTION OF JOB EVENTS

Safety Meeting	5:30pm	Displace 1		Displace 2		Displace 3		Displace 4		Displace 5	
	5:00	BLS	Time	PSI	BLS	Time	PSI	BLS	Time	PSI	PSI
MIRU	6:02	0	6:43	0	0			0			
CIRCULATE		10	6:47	10	10			10			
Drop Plug		20	6:50	110	20			20			
	6:43	30	6:53	200	30			30			
		40	6:55	260	40			40			
M & P		45	6:57	280	50			50			
		60			60			60			
Time		70			70			70			
6:17-6:40	361	80			80			80			
		90			90			90			
		100			100			100			
		110			110			110			
% Excess	26%	120			120			120			
Mixed bbls	51	130			130			130			
Total Sacks	364	140			140			140			
bbl Returns	22	150			150			150			
Water Temp	51										

Notes:

safety meeting, miru, pressure test per company man, circulate 40 bbl ahead, mix and pump 364 sks cement at 15.2, 1.27 yield, 5.89 h20, displace 45.3 bbls h20 in sta

X
Work Performed
X
Title
X
Date