



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 3/8/2018
Invoice #: 900277
API#: 05-123-46267
Foreman: Corey Barras

Customer: Anadarko Petroleum Corporation
Well Name: Quarter Circle 24-3 HZ

County: Weld
State: Colorado
Sec: 24
Twp: 1N
Range: 67W

Consultant: Matt
Rig Name & Number: Cartel 88
Distance To Location: 33
Units On Location: 4027-3103/4030-3213/4024-3201
Time Requested: 1030
Time Arrived On Location: 945
Time Left Location:

WELL DATA	Cement Data
Casing Size OD (in) : 9.625	Cement Name: BFN III
Casing Weight (lb) : 36.00	Cement Density (lb/gal) : 14.2
Casing Depth (ft.) : 1,871	Cement Yield (cuft) : 1.48
Total Depth (ft) : 1881	Gallons Per Sack: 7.40
Open Hole Diameter (in.) : 13.50	% Excess: 10%
Conductor Length (ft) : 80	Displacement Fluid lb/gal: 8.3
Conductor ID : 15.25	BBL to Pit:
Shoe Joint Length (ft) : 44	Fluid Ahead (bbls): 30.0
Landing Joint (ft) : 15	H2O Wash Up (bbls): 20.0
Max Rate: 8	Spacer Ahead Makeup
Max Pressure: 2000	30 bbl with Die in 2nd 10

Casing ID	8.921	Casing Grade	J-55 only used
Calculated Results	Displacement:	142.40	bbls
cuft of Shoe 19.10 cuft (Casing ID Squared) X (.005454) X (Shoe Joint ft)	(Casing ID Squared) X (.0009714) X (Casing Depth + Landing Joint - Shoe Joint)		
cuft of Conductor 61.05 cuft (Conductor Width Squared) - (Casing Size OD Squared) X (.005454) X (Conductor Length ft)	Pressure of cement in annulus		
cuft of Casing 962.85 cuft (Open Hole Squared) - (Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)	Hydrostatic Pressure:	1380.24	PSI
Total Slurry Volume 1043.00 cuft (cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)	Pressure of the fluids inside casing		
bbls of Slurry 185.76 bbls (Total Slurry Volume) X (.1781)	Displacement:	787.77	psi
Sacks Needed 705 sk (Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)	Shoe Joint:	32.46	PSI
Mix Water 124.17 bbls (Sacks Needed) X (Gallons Per Sack) ÷ 42	Total	820.23	psi
	Differential Pressure:	560.01	psi
	Collapse PSI:	2020.00	psi
	Burst PSI:	3520.00	psi
	Total Water Needed:	316.57	bbls

X *Ch. Kullman*
Authorization To Proceed

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Well Name

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Quarter Circle 24-3 HZ

INVOICE #
LOCATION
FOREMAN
Date

900277

Weld

Corey Barras

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Treatment Report Page 2

DESCRIPTION OF JOB EVENTS

[illegible]

1x

Work Preformed

x

Title

3

Date _____

Quarter Circle 24-3 HZ

