

Bisor Oil Well Cementing Single Cement Surface Pipe

Customer	anadarko Petroleum Corporation
Well Name	MAB 15-1 HZ

INVOICE #
LOCATION
FOREIGN
Date

60642 }
Weld
Nick V. il
2/12/2019

Treatment Report Page 2

DESCRIPTION OF JOB EVENTS

[illegible]☒Work Performed ☒

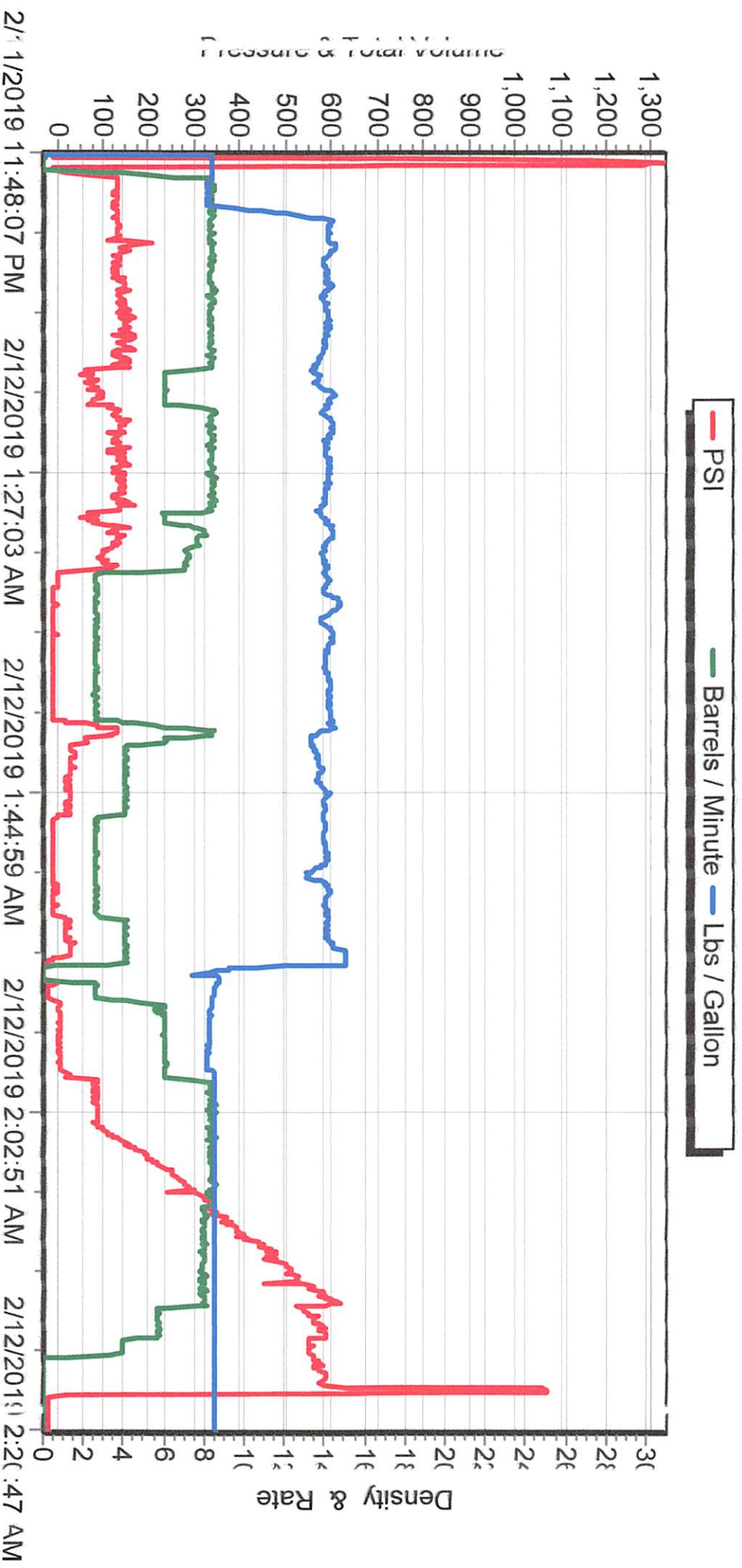
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Title

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MAB 15-2HZ





Bison Oil Well Cementing Single Cement Surface Pipe

Date: 2/11/2019
Invoice #: 606428
API#: 05-123-49239
Foreman: Nick Vigil

Customer: Anadarko Petroleum Corporation
Well Name: MAB 15-2HZ

County: Weld
State: Colorado
Sec: 8
Twp: 1N
Range: 30W
Consultant: Brian
Rig Name & Number: Cartel 88
Distance to Location: 55 miles
Units On Location: 4045/4044/4030
Time Requested: 22:00
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) : 1,845	Cement Yield (cuft) : 1.49
Total Depth (ft) : 1855	Gallons Per Sack: 7.48
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) : 43	Fluid Ahead (bbls): 30.0
Landing Joint (ft) : 10	H2O Wash Up (bbls): 10.0
Max Rate: 8	Spacer Ahead Makeup
Max Pressure: 2000	Dye in second 10 bbl

Casing ID	8.921	Casing Grade	J-55 only used
Calculated Results		Displacement:	140.08 bbls
cuft of Shoe	18.66 cuft	(Casing ID Squared) X (.0009714) X (Casing Depth + Landing Joint - Shoe Joint)	
(Casing ID Squared) X (.005454) X (Shoe Joint ft)		Pressure of cement in annulus	
cuft of Conductor	61.05 cuft	Hydrostatic Pressure:	1361.06 PSI
(Conductor Width Squared) - (Casing Size OD Squared) X (.005454) X (Conductor Length ft)		Pressure of the fluids inside casing	
cuft of Casing	948.87 cuft	Displacement:	776.99 psi
(Open Hole Squared) - (Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)		Shoe Joint:	31.72 psi
Total Slurry Volume	1028.58 cuft	Total	808.71 psi
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)		Differential Pressure:	552.35 psi
bbls of Slurry	183.19 bbls		
(Total Slurry Volume) X (.1781)		Collapse PSI:	2020.00 psi
Sacks Needed	690 sk	Burst PSI:	3520.00 psi
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)		Total Water Needed:	303.03 bbls
Mix Water	122.94 bbls		
(Sacks Needed) X (Gallons Per Sack) ÷ 42			



Authorization To Proceed