



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 3/18/2014
 Invoice # 12339
 API# _____
 Foreman: casey

Customer: bill barrett
 Well Name: anschutz state 4-62-2-1721bh2

County: weld Consultant: casey
 State: Colorado Rig Name & Number: major 43
 Distance To Location: _____
 Sec: 2 Units On Location: 3103-3204
 Twp: 4n Time Requested: 600 pm
 Range: 62w Time Arrived On Location: 530 pm
 Time Left Location: 8:00 pm

WELL DATA	Cement Data
Casing Size OD (in) : <u>9.625</u>	Cement Name: <u>BFN III</u>
Casing Weight (lb) : <u>36.00</u>	Cement Density (lb/gal) : <u>15.2</u>
Casing Depth (ft.) : <u>787</u>	Cement Yield (cuft) : <u>1.27</u>
Total Depth (ft) : <u>800</u>	Gallons Per Sack: <u>5.89</u>
Open Hole Diameter (in.) : <u>13.50</u>	% Excess: <u>30%</u>
Conductor Length (ft) : _____	Displacement Fluid lb/gal: <u>8.3</u>
Conductor ID : _____	BBL to Pit: _____
Shoe Joint Length (ft) : <u>42</u>	Fluid Ahead (bbls): _____
Landing Joint (ft) : <u>8</u>	H2O Wash Up (bbls): <u>20.0</u>
Max Rate: _____	Spacer Ahead Makeup _____
Max Pressure: _____	

Calculated Results	Pressure of cement in annulus
cuft of Shoe <u>18.23</u> cuft (Casing ID Squared) X (.005454) X (Shoe Joint ft)	Displacement: <u>58.21</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>621.42</u> PSI
cuft of Casing <u>384.63</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>402.86</u> cuft (cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)	Displacement: <u>321.23</u> psi
bbls of Slurry <u>93.27</u> bbls (Total Slurry Volume) X (.1781) X (% Excess Cement)	Shoe Joint: <u>33.16</u> psi
Sacks Needed <u>412</u> sk (Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)	Total <u>354.39</u> psi
Mix Water <u>57.83</u> bbls (Sacks Needed) X (Gallons Per Sack) ÷ 42	Differential Pressure: <u>267.02</u> psi
	Collapse PSI: <u>#N/A</u> psi
	Burst PSI: <u>#N/A</u> psi
	Total Water Needed: <u>136.04</u> bbls

X Casey
 Authorization To Proceed



**Bison Oil Well Cementing
Single Cement Surface Pipe**

Customer
Well Name

bill barrett
anschutz state 4-62-2-1721bh2

INVOICE #
LOCATION
FOREMAN
Date

12339
weld
casey
3/18/2014

Treatment Report Page 2

DESCRIPTION OF JOB EVENTS

		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
Safety Meeting	607pm															
MIRU	530pm															
CIRCULATE	630pm	0	658pm	10	0			0			0			0		
Drop Plug		10	700pm	70	10			10			10			10		
658 pm		20	702pm	70	20			20			20			20		
		30	704pm	150	30			30			30			30		
		40	706pm	240	40			40			40			40		
M & P		50	708pm	300	50			50			50			50		
Time	Sacks	60			60			60			60			60		
640 pm	342	70			70			70			70			70		
655 pm stop		80			80			80			80			80		
		90			90			90			90			90		
		100			100			100			100			100		
		110			110			110			110			110		
% Excess	8%	120			120			120			120			120		
Mixed bbls	48	130			130			130			130			130		
Total Sacks	342	140			140			140			140			140		
bbl Returns	10	150			150			150			150			150		
Water Temp																

Notes:

bumped plug at 712 pm 450 psi 77.3 bbls slurry

X Casey Fa
Work Performed

X coma
Title

X 3-18-14
Date