



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 3/19/2014
Invoice #: 12340
API#
Foreman: kirk

Customer: bill barrett
Well Name: anschutz state 4-62-2-1721ch2

County: weld
State: Colorado
Sec: 2
Twp: 4n
Range: 62w
Consultant: casey
Rig Name & Number: major 43
Distance To Location:
Units On Location: 3103-3206
Time Requested: 630 pm
Time Arrived On Location: 515 pm
Time Left Location: 8:15pm

WELL DATA

Casing Size OD (in) : 9.625
Casing Weight (lb) : 36.00
Casing Depth (ft) : 793
Total Depth (ft) : 800
Open Hole Diameter (in.) : 13.50
Conductor Length (ft) :
Conductor ID :
Shoe Joint Length (ft) : 43
Landing Joint (ft) : 8

Max Rate:
Max Pressure:

Cement Data

Cement Name: BFN III
Cement Density (lb/gal) : 15.2
Cement Yield (cuft) : 1.27
Gallons Per Sack: 5.89
% Excess: 30%
Displacement Fluid lb/gal: 8.3
BBL to Pit:
Fluid Ahead (bbls):
H2O Wash Up (bbls): 20.0

Spacer Ahead Makeup

Casing ID

8.921

Casing Grade

J-55 only used

Calculated Results

cuft of Shoe 18.66 cuft
(Casing ID Squared) X (.005454) X (Shoe Joint ft)

cuft of Conductor 0.00 cuft
(Conductor Width Squared) - (Casing Size OD Squared) X (.005454) X (Conductor Length ft)

cuft of Casing 386.59 cuft
(Open Hole Squared) - (Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)

Total Slurry Volume 405.25 cuft
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)

bbls of Slurry 93.83 bbls
(Total Slurry Volume) X (.1781) X (% Excess Cement)

Sacks Needed 415 sk
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)

Mix Water 58.17 bbls
(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 58.44 bbls

(Casing ID Squared) X (.0009714) X (Casing Depth + Landing Joint - Shoe Joint)

Pressure of cement in annulus

Hydrostatic Pressure: 624.57 PSI

Pressure of the fluids inside casing

Displacement: 322.52 psi

Shoe Joint: 33.95 psi

Total 356.48 psi

Differential Pressure: 268.10 psi

Collapse PSI: #N/A psi

Burst PSI: #N/A psi

Total Water Needed: 136.62 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

bill barrett
anschutz state 4-62-2-1721ch2

INVOICE #
LOCATION
FOREMAN
Date

12340
weld
kirk
3/19/2014

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DESCRIPTION OF JOB EVENTS

Safety Meeting		Displace 1			Displace 2			Displace 3			Displace 4			Displace 5		
MIRU		BBLS	Time	PSI	BBLS	Time	PSI	BBLS	Time	PSI	BBLS	Time	PSI	BBLS	Time	PSI
CIRCULATE	603pm	0	709pm	10	0			0			0			0		
Drop Plug	530pm	10	711pm	70	10			10			10			10		
	636pm	20	713pm	70	20			20			20			20		
709 pm		30	715pm	160	30			30			30			30		
		40	717pm	250	40			40			40			40		
M & P		50	719pm	260	50			50			50			50		
Time	Sacks	60			60			60			60			60		
646 pm	352	70			70			70			70			70		
703 pm stop		80			80			80			80			80		
		90			90			90			90			90		
		100			100			100			100			100		
		110			110			110			110			110		
% Excess	10%	120			120			120			120			120		
Mixed bbls	49.4	130			130			130			130			130		
Total Sacks	352	140			140			140			140			140		
bbl Returns	18	150			150			150			150			150		
Water Temp																

Notes:

bumbed plug at 724 pm 400 psi 79.6 bbls slurry

X

Work Performed

X

Title

X

Date