



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 3/20/2014
Invoice # 12342
API#
Foreman: kirk

Customer: bill barrett
Well Name: anschutz state 4-62-2-3228 bh2

County: weld
State: Colorado
Sec: 2
Twp: 4n
Range: 62w
Consultant: casey
Rig Name & Number: majbr 43
Distance To Location:
Units On Location: 3103-3210
Time Requested: 530 pm
Time Arrived On Location: 330 pm
Time Left Location:

WELL DATA

Casing Size OD (in) : 9.625
Casing Weight (lb) : 36.00
Casing Depth (ft) : 791
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 4-62-2-3228 bh2

INVOICE #
LOCATION
FOREMAN
Date

12342
weld
kirk
3/20/2014

Treatment Report Page 2

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		0	628pm	10	0			0			0			0		
Drop Plug		10	630pm	50	10			10			10			10		
628 pm		20	632pm	70	20			20			20			20		
		30	634pm	150	30			30			30			30		
		40	636pm	230	40			40			40			40		
M & P		50	638pm	280	50			50			50			50		
Time Sacks		60			60			60			60			60		
608 pm 352		70			70			70			70			70		
626 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 14		150			150			150			150			150		
Water Temp																

Notes:

bumped plug at 642 pm 450 psi 79.6 bbls slurry

X

Work Performed

X

Title

X

Date