



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 6/24/2014
Invoice # 12049
API#
Foreman: Kirk Kallhoff

Customer: bill barrett
Well Name: fiducial 6-62-34-4841bh2

County: weld
State: Colorado
Sec: 34
Twp: 6n
Range: 62w
Consultant: casey
Rig Name & Number: major 43
Distance To Location: 30
Units On Location: 3103-3211
Time Requested: 1200 am
Time Arrived On Location: 1030 pm
Time Left Location: 5:30 pm

WELL DATA

Casing Size OD (in) : 9.625
Casing Weight (lb) : 36.00
Casing Depth (ft) : 786 789
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): 60.0
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 499.38 cuft
(Open Hole Squared) - (Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)
Total Slurry Volume 518.05 cuft
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)
bbls of Slurry 92.26 bbls
(Total Slurry Volume) X (.1781)
Sacks Needed 408 sk
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)
Mix Water 57.20 bbls
(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 58.06 bbls

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

Pressure of cement in annulus

Hydrostatic Pressure: 620.63 PSI

Pressure of the fluids inside casing

Displacement: 320.37 psi

Shoe Joint: 33.95 psi

Total 354.32 psi

Differential Pressure: 266.31 psi

Collapse PSI: 2020.00 psi

Burst PSI: 3520.00 psi

Total Water Needed: 195.26 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
fiducial 6-62-34-4841bh2

INVOICE #
LOCATION
FOREMAN
Date

12049
weld
Kirk Kallhoff
6/25/2014

Treatment Report Page 2

DESCRIPTION OF JOB EVENTS

Safety Meeting		357am	Displace 1			Displace 2			Displace 3			Displace 4			Displace 5		
MIRU		335am	BBLS	Time	PSI	BBLS	Time	PSI	BBLS	Time	PSI	BBLS	Time	PSI	BBLS	Time	PSI
CIRCULATE		409am	0	440am	10	0			0			0			0		
Drop Plug			10	443am	40	10			10			10			10		
440 am			20	445am	90	20			20			20			20		
			30	447am	170	30			30			30			30		
			40	449am	270	40			40			40			40		
M & P			50	451am	320	50			50			50			50		
Time	Sacks		60			60			60			60			60		
421 am	379		70			70			70			70			70		
438 am stop			80			80			80			80			80		
			90			90			90			90			90		
			100			100			100			100			100		
			110			110			110			110			110		
% Excess	20%		120			120			120			120			120		
Mixed bbls	53.2		130			130			130			130			130		
Total Sacks	379		140			140			140			140			140		
bbl Returns	12		150			150			150			150			150		
Water Temp																	

Notes:

bumped plug at 455 am 510 psi 85.7 bbls slurry

X

Work Preformed

Casey Jan

X

Title

CO-MAN

X

Date

6-25-14