



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 6/26/2014

Invoice # 12051

API#

Foreman: Kirk Kallhoff

Customer: bill barrett

Well Name: fiducial 6-62-34-4956 bh2

County: weld

State: Colorado

Sec: 34

Twp: 6n

Range: 62w

Consultant: casey

Rig Name & Number: major 43

Distance To Location: 30

Units On Location: 3103-3205

Time Requested: 1000 am

Time Arrived On Location: 915 am

Time Left Location: 1:15 pm

WELL DATA

Casing Size OD (in) : 9.625
Casing Weight (lb) : 36.00
Casing Depth (ft) : 785
Total Depth (ft) : 807
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 498.75 cuft
(Open Hole Squared) - (Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)
Total Slurry Volume 517.41 cuft
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)
bbls of Slurry 92.15 bbls
(Total Slurry Volume) X (.1781)
Sacks Needed 407 sk
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)
Mix Water 57.13 bbls
(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 57.98 bbls

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

Pressure of cement in annulus

Hydrostatic Pressure: 619.84 PSI

Pressure of the fluids inside casing

Displacement: 319.94 psi

Shoe Joint: 33.95 psi

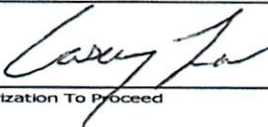
Total 353.89 psi

Differential Pressure: 265.95 psi

Collapse PSI: 2020.00 psi

Burst PSI: 3520.00 psi

Total Water Needed: 195.12 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 6-62-34-4956 bh2

INVOICE #
LOCATION
FOREMAN
Date

12051
weld
Kirk Kallhoff
6/26/2014

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	1132am	0	1219pm	10	0			0			0			0		
Drop Plug	1110am	10	1221pm	40	10			10			10			10		
1219 pm	1146am	20	1223pm	40	20			20			20			20		
		30	1225pm	130	30			30			30			30		
		40	1227pm	220	40			40			40			40		
M & P		50	1229pm	300	50			50			50			50		
Time	Sacks	60			60			60			60			60		
1157 am	349	70			70			70			70			70		
1216 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	130			130			130			130			130		
Total Sacks	349	140			140			140			140			140		
bbl Returns	12	150			150			150			150			150		
Water Temp																

Notes:

bumped plug at 1233 pm 480 psi

78.9 bbls slurry

X

Work Preformed

X

Title

X

Date