



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 12/7/2014
Invoice #: 25097
API#: 05-123-40604
Foreman: Calvin Reimers

Customer: Anadarko Petroleum Corporation
Well Name: Taipan 1N-15HZ

County: Weld
State: Colorado
Sec: 22
Twp: 2N
Range: 67W
Consultant: Mike / Toby
Rig Name & Number: Major42
Distance To Location: 20 Miles
Units On Location: 4023-3104/4027-3211
Time Requested: 400am
Time Arrived On Location: 322am
Time Left Location: 9:15am

WELL DATA

Casing Size OD (in) : 9.625
Casing Weight (lb) : 36.00
Casing Depth (ft.) : 1,281
Total Depth (ft) : 1296
Open Hole Diameter (in.) : 13.50
Conductor Length (ft) :
Conductor ID :
Shoe Joint Length (ft) : 43
Landing Joint (ft) : 8

Max Rate: 5
Max Pressure: 2500

Cement Data

Cement Name: BFN III
Cement Density (lb/gal) : 14.2
Cement Yield (cuft) : 1.49
Gallons Per Sack: 7.48
% Excess: 21%
Displacement Fluid lb/gal: 8.3
BBL to Pit: 23
Fluid Ahead (bbls): 30.0
H2O Wash Up (bbls): 20.0

Spacer Ahead Makeup
30bbls H2O+Dye in 2nd 10bbls

Casing ID

8.921

Casing Grade

J-55 only used

Calculated Results

cuft of Shoe 18.55 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 754.76 cuft
(Open Hole Squared) - (Casing Size Squared) X (.005454) X (Casing
Depth - Conductor Length)

Total Slurry Volume 773.31 cuft
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)

bbls of Slurry 137.73 bbls
(Total Slurry Volume) X (.1781)

Sacks Needed 519 sk
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)

Mix Water 92.43 bbls
(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 96.34 bbls

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

Pressure of cement in annulus

Hydrostatic Pressure: 944.89 PSI

Pressure of the fluids inside casing

Displacement: 533.86 psi

Shoe Joint: 31.52 psi

Total 565.38 psi

Differential Pressure: 379.51 psi

Collapse PSI: 2020.00 psi

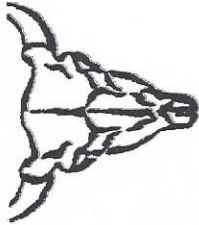
Burst PSI: 3520.00 psi

Total Water Needed: 238.77 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.



DISCOUNT WELL SERVICES

Single Cement Surface Pipe

INVOICE #
LOCATION
FOREMAN
Date

43031

Weld

Calvin Reimers

12/7/2014

Customer

Well Name

Anadarko Petroleum Corporation

Taipan 1N-15HZ

Treatment Report Page 2

DESCRIPTION OF JOB EVENTS

	Displace 1			Displace 2			Displace 3			Displace 4			Displace 5		
	BBS	Time	PSI	BBS	Time	PSI	BBS	Time	PSI	BBS	Time	PSI	BBS	Time	PSI
Safety Meeting	654am			0	758am	60	0			0			0		
MIRU	322am			10	801am	30	10			10			10		
CIRCULATE	721am			20	803am	60	20			20			20		
Drop Plug				30	805am	100	30			30			30		
757am				40	807am	210	40			40			40		
				50	809am	270	50			50			50		
M & P				60	810am	370	60			60			60		
Time				70	812am	420	70			70			70		
727am			519	80	814am	450	80			80			80		
754am				90	816am	410	90			90			90		
				100	819am	360	100			100			100		
				110	Bump	1360	110	821am		110			110		
				120	Bump	1020	120	823am		120			120		
% Excess			21%	130			130			130			130		
Mixed bbls			92.43	140			140			140			140		
Total Sacks			519	150			150			150			150		
bbl Returns			23												
Water Temp			53.6												

Notes:

The day

1/2 bbl Back on Bleed Off

X

X

Work Performed

Title

Date

X 12-7-14

SERIES 2000

