



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 4/6/2015
Invoice #: 80069
API#:
Foreman: kirk kallhoff

Customer: Anadarko Petroleum Corporation

Well Name: bane 28n3-9hz

County: Weld
State: Colorado

Sec: 9
Twp: 1n
Range: 65w

Consultant: larry
Rig Name & Number: advanced 10
Distance To Location: 26
Units On Location: 4038-3103/4022-3213
Time Requested: 400 am
Time Arrived On Location: 1130 pm
Time Left Location: 7:30 am

WELL DATA

Casing Size OD (in) : 9.625
Casing Weight (lb) : 36.00
Casing Depth (ft.) : 1,570
Total Depth (ft) : 1590
Open Hole Diameter (in.) : 13.50
Conductor Length (ft) : 40
Conductor ID : 16
Shoe Joint Length (ft) : 42
Landing Joint (ft) : 8

Max Rate:
Max Pressure:

Cement Data

Cement Name: BFN III
Cement Density (lb/gal) : 14.2
Cement Yield (cuft) : 1.49
Gallons Per Sack: 7.48
% Excess: 20%
Displacement Fluid lb/gal: 8.3
BBL to Pit:
Fluid Ahead (bbls): 30.0
H2O Wash Up (bbls): 10.0

Spacer Ahead Makeup

Casing ID

8.921

Casing Grade

J-55 only used

Calculated Results

cuft of Shoe 18.23 cuft
(Casing ID Squared) X (.005454) X (Shoe Joint ft)

cuft of Conductor 35.64 cuft
(Conductor Width Squared) - (Casing Size OD Squared) X (.005454) X (Conductor Length ft)

cuft of Casing 897.31 cuft
(Open Hole Squared) - (Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)

Total Slurry Volume 951.18 cuft
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)

bbls of Slurry 169.40 bbls
(Total Slurry Volume) X (.1781)

Sacks Needed 638 sk
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)

Mix Water 113.69 bbls
(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 118.75 bbls
(Casing ID Squared) X (.0009714) X (Casing Depth + Landing Joint - Shoe Joint)

Pressure of cement in annulus

Hydrostatic Pressure: 1158.19 PSI

Pressure of the fluids inside casing

Displacement: 658.84 psi

Shoe Joint: 30.98 psi

Total 689.83 psi

Differential Pressure: 468.36 psi

Collapse PSI: 2020.00 psi

Burst PSI: 3520.00 psi

Total Water Needed: 272.44 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

Anadarko Petroleum Corporation
bane 28n3-9hz

INVOICE #
LOCATION
FOREMAN
Date

80069
Weld
kirk kallhoff
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Treatment Report Page 2

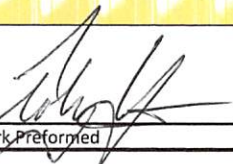
DESCRIPTION OF JOB EVENTS

Safety Meeting MIRU CIRCULATE Drop Plug 621 am M & P Time Sacks 540 am 618 am stop % Excess Mixed bbls Total Sacks bbl Returns Water Temp	513am 1145p 534am 621 am M & P Time Sacks 540 am 618 am stop % Excess Mixed bbls Total Sacks bbl Returns Water Temp	Displace 1			Displace 2			Displace 3			Displace 4			Displace 5		
		BBLS	Time	PSI	BBLS	Time	PSI	BBLS	Time	PSI	BBLS	Time	PSI	BBLS	Time	PSI
		0	621am	10	0			0			0			0		
		10	623am	60	10			10			10			10		
		20	625am	70	20			20			20			20		
		30	627am	80	30			30			30			30		
		40	629am	140	40			40			40			40		
		50	631am	200	50			50			50			50		
		60	633am	260	60			60			60			60		
		70	635am	320	70			70			70			70		
		80	637am	380	80			80			80			80		
		90	639am	440	90			90			90			90		
		100	641am	490	100			100			100			100		
		110	643am	470	110			110			110			110		
		120			120			120			120			120		
		130			130			130			130			130		
		140			140			140			140			140		
		150			150			150			150			150		

Notes:

psi test 1000 psi, cigr 30 bbls h2o at 534 am, m&p 639 sks 169.5 bbls slurry at 540 am to 618 am, drop plug at 621 am

bumped plug at 647 am 970 psi, psi before bump 460 psi, floats held, 26 bbls cement back

X 
Work Performed

X
Title

X 4-6-15
Date

M/D TOTCO 2000 SERIES

