

Bison Oil Well Cementing Single Cement Surface Pipe

Date: 9/9/2014
Invoice #: 35034
API#:
Foreman: Kirk Kallhoff

Customer: Anadarko Petroleum Corporation
Well Name: kerr 13n-25hz

County: Weld
State: Colorado
Sec: 13
Twp: 2n
Range: 67w

Consultant: allen
Rig Name & Number: major 42
Distance To Location: 15
Units On Location: 4030-3103/4024-3203
Time Requested: 130 am
Time Arrived On Location: 1200 am
Time Left Location: 7:00pm

WELL DATA

Casing Size OD (in) : 9.625
Casing Weight (lb) : 36.00
Casing Depth (ft) : 1,061
Total Depth (ft) : 1080
Open Hole Diameter (in.) : 13.50
Conductor Length (ft) :
Conductor ID :
Shoe Joint Length (ft) : 40
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: 21%
Displacement Fluid lb/gal: 8.3
BBL to Pit:
Fluid Ahead (bbls): 30.0
H2O Wash Up (bbls): 20.0

Spacer Ahead Makeup

Casing ID

8.921

Casing Grade

J-55 only used

Calculated Results

cuft of Shoe 17.36 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 627.44 cuft
(Open Hole Squared)-(Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)

Total Slurry Volume 644.80 cuft
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)

bbls of Slurry 114.84 bbls
(Total Slurry Volume) X (.1781)

Sacks Needed 433 sk
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)

Mix Water 77.07 bbls
(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 79.55 bbls

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

Pressure of cement in annulus

Hydrostatic Pressure: 782.70 PSI

Pressure of the fluids inside casing

Displacement: 440.24 psi

Shoe Joint: 29.51 psi

Total 469.74 psi

Differential Pressure: 312.96 psi

Collapse PSI: 2020.00 psi

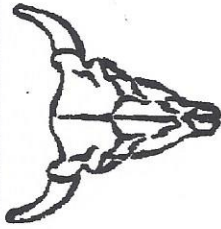
Burst PSI: 3520.00 psi

Total Water Needed: 206.62 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

INVOICE #
LOCATION
FOREMAN
Date

35034
Weld
Kirk Kallhoff
9/9/2014

Customer
Well Name

Anadarko Petroleum Corporation
kerr 13n-25hz

Treatment Report Page 2

DESCRIPTION OF JOB EVENTS

		Displace 1			Displace 2			Displace 3			Displace 4			Displace 5		
		BMLS	Time	PSI	BMLS	Time	PSI	BMLS	Time	PSI	BMLS	Time	PSI	BMLS	Time	PSI
Safety Meeting	448am															
MIRU	415am															
CIRCULATE	522am	0	558am	10	0			0			0			0		
Drop Plug		10	601am	30	10			10			10			10		
		20	603am	50	20			20			20			20		
558 am		30	605am	140	30			30			30			30		
		40	607am	200	40			40			40			40		
		50	609am	280	50			50			50			50		
M & P		60	612am	340	60			60			60			60		
Time	Sacks	70	614am	370	70			70			70			70		
529 am	433	80			80			80			80			80		
555 am stop		90			90			90			90			90		
		100			100			100			100			100		
		110			110			110			110			110		
% Excess	21%	120			120			120			120			120		
Mixed bbls	77.2	130			130			130			130			130		
Total Sacks	433	140			140			140			140			140		
bbl Returns	22	150			150			150			150			150		
Water Temp																

Notes:

bumped plug at 80.5 bbls at 618 am 1420 psi
floats held
114.8 bbls slurry

X *[Signature]*

X Title

X 9-9-14 Date

M/D TOTCO 2000 SERIES

