



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 1/22/2015
Invoice #: 45116
API#: 05-123-40835
Foreman: JASON KELEHER

Customer: Anadarko Petroleum Corporation

Well Name: GREEN 2N-8HZ

County: Weld
State: Colorado

Sec: 8
Twp: 1N
Range: 65W

Consultant: LESTER
Rig Name & Number: MAJORS 42
Distance To Location: 26
Units On Location: 4031-3107, 4030-3203
Time Requested: 800
Time Arrived On Location: 700
Time Left Location: 1300

WELL DATA

Casing Size OD (in) : 9.625
Casing Weight (lb) : 36.00
Casing Depth (ft) : 1,540
Total Depth (ft) : 1556
Open Hole Diameter (in.) : 13.50
Conductor Length (ft) : 80
Conductor ID : 15.25
Shoe Joint Length (ft) : 41
Landing Joint (ft) : 8

Max Rate: 6
Max Pressure: 1500

Cement Data

Cement Name: BFN III
Cement Density (lb/gal) : 14.2
Cement Yield (cuft) : 1.49
Gallons Per Sack: 7.48
% Excess: 15%
Displacement Fluid lb/gal: 8.3
BBL to Pit: 30.0
Fluid Ahead (bbls): 30.0
H2O Wash Up (bbls): 20.0

Spacer Ahead Makeup
30 BBL WATER W/ DYE IN 2ND 10

Casing ID

8.921

Casing Grade

J-55 only used

Calculated Results

cuft of Shoe 17.91 **cuft**
(Casing ID Squared) X (.005454) X (Shoe Joint ft)

cuft of Conductor 61.05 **cuft**
(Conductor Width Squared) - (Casing Size OD Squared) X (.005454) X (Conductor Length ft)

cuft of Casing 820.59 **cuft**
(Open Hole Squared) - (Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)

Total Slurry Volume 899.55 **cuft**
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)

bbls of Slurry 160.21 **bbls**
(Total Slurry Volume) X (.1781)

Sacks Needed 604 **sk**
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)

Mix Water 107.52 **bbls**
(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 116.48 **bbls**
(Casing ID Squared) X (.0009714) X (Casing Depth + Landing Joint - Shoe Joint)

Pressure of cement in annulus

Hydrostatic Pressure: 1136.07 **PSI**

Pressure of the fluids inside casing

Displacement: 646.23 **psi**

Shoe Joint: 30.44 **psi**

Total 676.68 **psi**

Differential Pressure: 459.40 **psi**

Collapse PSI: 2020.00 **psi**

Burst PSI: 3520.00 **psi**

Total Water Needed: 274.00 **bbls**

X
Authorization To Proceed



**Bison Oil Well Cementing
Single Cement Surface Pipe**

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Well Name

Anadarko Petroleum Corporation
GREEN 2N-8HZ

INVOICE #
LOCATION
FOREMAN
Date

45116
Weld
JASON KELEHER
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DESCRIPTION OF JOB EVENTS

		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
Safety Meeting	1015															
MIRU	730															
CIRCULATE	1049	0	1131	0	0			0			0			0		
Drop Plug		10	1132	60	10			10			10			10		
1131		20	1135	80	20			20			20			20		
		30	1138	100	30			30			30			30		
		40	1141	170	40			40			40			40		
M & P		50	1143	340	50			50			50			50		
Time	Sacks	60	1145	400	60			60			60			60		
1056-1131	604	70	1147	440	70			70			70			70		
		80	1149	510	80			80			80			80		
		90	1151	540	90			90			90			90		
		100	1153	620	100			100			100			100		
		110	1155	560	110			110			110			110		
% Excess	15%	120	1158	550	120			120			120			120		
Mixed bbls	107.5	130	BUMP	1520	130			130			130			130		
Total Sacks	604	140			140			140			140			140		
bbl Returns	30	150			150			150			150			150		
Water Temp	73															

Notes:

PERFORMED PRESSURE TEST TO 2000 PSI AT 1047, PUMPED 30 BBL WATER WITH DYE IN 2ND 10 AT 1049, MIXED AND PUMPED 604 SKS AT 14.2, 160.2 BBL AT 1056, SHUT DOWN AT 1128, STARTED DISPLACEMENT AT 1131, PLUG LANDED AT 550 PSI AT 1158 AND PRESSURED UP TO 1520, HELD FOR 2 MINUTES AND RELEASED TO CHECK FLOATS, GOT .5 BBL BACK, FLOATS HELD, PRESSURED BACK UP TO 1000 PSI FOR 2 MINUTES AND RELEASED

X 
Work Preformed

X 
Title

X 1/22/15
Date

GREEN 2N-8HZ SURFACE

