



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 1/11/2015
Invoice # 45109
API# 05-123-40745
Foreman: JASON KELEHER

Customer: Anadarko Petroleum Corporation
Well Name: GOODIN 15N-B6HZ

County: Weld
State: Colorado
Sec: 7
Twp: 1N
Range: 65W
Consultant: TOBY
Rig Name & Number: MAJOR 42
Distance To Location: 22
Units On Location: 4031-3107, 4024-3203
Time Requested: 930
Time Arrived On Location: 800
Time Left Location: 1330

WELL DATA

Casing Size OD (in) : 9.625
Casing Weight (lb) : 36.00
Casing Depth (ft) : 1,552
Total Depth (ft) : 1568
Open Hole Diameter (in.) : 13.50
Conductor Length (ft) : 46
Conductor ID : 15.25
Shoe Joint Length (ft) : 43
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: 10%
Displacement Fluid lb/gal: 8.3
BBL to Pit: 21.0
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 18.78 cuft
(Casing ID Squared) X (.005454) X (Shoe Joint ft)

cuft of Conductor 35.10 cuft
(Conductor Width Squared) - (Casing Size OD Squared) X (.005454) X (Conductor Length ft)

cuft of Casing 809.59 cuft
(Open Hole Squared) - (Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)

Total Slurry Volume 863.47 cuft
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)

bbls of Slurry 153.78 bbls
(Total Slurry Volume) X (.1781)

Sacks Needed 580 sk
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)

Mix Water 103.21 bbls
(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 117.25 bbls
(Casing ID Squared) X (.0009714) X (Casing Depth + Landing Joint - Shoe Joint)

Pressure of cement in annulus

Hydrostatic Pressure: 1144.85 PSI

Pressure of the fluids inside casing

Displacement: 650.51 psi

Shoe Joint: 31.91 psi

Total 682.42 psi

Differential Pressure: 462.43 psi

Collapse PSI: 2020.00 psi

Burst PSI: 3520.00 psi

Total Water Needed: 270.46 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
GOODIN 15N-B6HZ

INVOICE #
LOCATION
FOREMAN
Date

45109
Weld
JASON KELEHER
1/11/2015

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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	1045															
MIRU	820															
CIRCULATE	1107	0	1200	0	0			0			0			0		
Drop Plug		10	1203	20	10			10			10			10		
1200		20	1206	10	20			20			20			20		
		30	1208	20	30			30			30			30		
		40	1212	100	40			40			40			40		
M & P		50	1215	150	50			50			50			50		
Time	Sacks	60	1218	200	60			60			60			60		
1116-1157	580	70	1221	280	70			70			70			70		
		80	1224	340	80			80			80			80		
		90	1227	410	90			90			90			90		
		100	1230	450	100			100			100			100		
		110	1233	480	110			110			110			110		
% Excess	10%	120	1239	480	120			120			120			120		
Mixed bbls	103.22	130	BUMP	1450	130			130			130			130		
Total Sacks	580	140			140			140			140			140		
bbl Returns	21	150			150			150			150			150		
Water Temp	49															

Notes:

PERFORMED PRESSURE TEST TO 2000 PSI AT 1104, PUMPED 30 BBL WATER WITH DYE IN 2ND 10 AT 1107, MIXED AND PUMPED 580 SKS AT 14.2,
153.9 BBL AT 1116, SHUT DOWN AT 1157, STARTED DISPLACEMENT AT 1200, PLUG LANDED AT 480 PSI AT 1239 AND PRESSURED UP TO 1450, 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 Performed

X

Title

X

Date

GOODIN 15N-B6HZ SURFACE

