



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 11/1/00
Invoice #: 55034
API#:
Foreman: Monte

Customer: EnCana Oil & Gas (USA) Inc.
Well Name: Newnam 2C-32H

County: Weld
State: Colorado

Sec: 32
Twp: 2n
Range: 64w

Consultant: Lenard
Rig Name & Number: Ensign 124
Distance To Location: 22.4
Units On Location: 4028-3102 4022-3213
Time Requested: 2:00am
Time Arrived On Location: 1:00am
Time Left Location:

WELL DATA

Casing Size OD (in) : 9.625
Casing Weight (lb) : 40.00
Casing Depth (ft) : 991
Total Depth (ft) : 1032
Open Hole Diameter (in) : 12.25
Conductor Length (ft) : 133
Conductor ID : 15.6
Shoe Joint Length (ft) : 45
Landing Joint (ft) : 17

Max Rate:
Max Pressure:

Cement Data

Cement Name: BFN III
Cement Density (lb/gal) : 15.2
Cement Yield (cuft) : 1.27
Gallons Per Sack: 5.89
% Excess: 50%
Displacement Fluid lb/gal: 8.3
BBL to Pit:
Fluid Ahead (bbls): 30.0
H2O Wash Up (bbls): 20.0

Spacer Ahead Makeup
10 fresh 10 dye 10 fresh

Casing ID

8.835

Casing Grade

J-55 only used

Calculated Results

cuft of Shoe 19.16 cuft
(Casing ID Squared) X (.005454) X (Shoe Joint ft)
cuft of Conductor 109.33 cuft
(Conductor Width Squared) - (Casing Size OD Squared) X (.005454) X
(Conductor Length ft)
cuft of Casing 403.06 cuft
(Open Hole Squared) - (Casing Size Squared) X (.005454) X (Casing
Depth - Conductor Length)
Total Slurry Volume 531.55 cuft
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)
bbls of Slurry 94.67 bbls
(Total Slurry Volume) X (.1781)
Sacks Needed 419 sk
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)
Mix Water 58.70 bbls
(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 73.02 bbls

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

Pressure of cement in annulus

Hydrostatic Pressure: 782.49 PSI

Pressure of the fluids inside casing

Displacement: 407.90 psi

Shoe Joint: 35.53 psi

Total 443.43 psi

Differential Pressure: 339.06 psi

Collapse PSI: 2570.00 psi

Burst PSI: 3950.00 psi

Total Water Needed: 181.71 bbls

X Lenard Chase
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.



DISON ON WELL CEMENTING Single Cement Surface Pipe

Customer
Well Name

EnCana Oil & Gas (USA) Inc.
Newnam 2C-32H

INVOICE #
LOCATION
FOREMAN
Date

30034
Weld
Monte
11/7/2014

Treatment Report Page 2

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	4:00															
MIRU	4:15															
CIRCULATE	4:50	0	5:18	0	0			0			0			0		
Drop Plug		10	5:25	80	10			10			10			10		
5:18		20	5:27	190	20			20			20			20		
		30	5:29	300	30			30			30			30		
		40	5:31	350	40			40			40			40		
M & P		50	5:33	420	50			50			50			50		
Time	Sacks	60	5:35	420	60			60			60			60		
4:58-5:16	419	70	5:38	425	70			70			70			70		
		80	5:40	650	80			80			80			80		
		90			90			90			90			90		
		100			100			100			100			100		
		110			110			110			110			110		
		120			120			120			120			120		
% Excess	50%	130			130			130			130			130		
Mixed bbls	58.7	140			140			140			140			140		
Total Sacks	419	150			150			150			150			150		
bbl Returns	25															
Water Temp	48															

Notes:

safty meeting,miru, pressure test per company man, circulate 30 bbls ahead with dye in 2nd 10, mix and pump 419 sks,
drop plug and displace 73.02 bbls h2o, bump plug at 540 am at 650 psi, raise to 1500 psi hold 15 min. 25 back

X Leonard Clark
Work Performed

X Drill Site Operator
Title

X 11-7-14
Date