



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 10/29/2014
Invoice #: 25077
API#: 05-123-39234
Foreman: Calvin Reimers

Customer: Anadarko Petroleum Corporation
Well Name: Gee 26C-12HZ

County: Weld
State: Colorado
Sec: 24
Twp: 2N
Range: 67W

Consultant: Randy
Rig Name & Number: Major 29
Distance To Location: 18 Miles
Units On Location: 4023-3104/3105-3210
Time Requested: 1130am
Time Arrived On Location: 1000am
Time Left Location: 1000pm

WELL DATA

Casing Size OD (in) : 9.625
Casing Weight (lb) : 36.00
Casing Depth (ft.) : 1,045
Total Depth (ft) : 1061
Open Hole Diameter (in.) : 13.50
Conductor Length (ft) :
Conductor ID :
Shoe Joint Length (ft) : 40
Landing Joint (ft) : 8

Max Rate: 7
Max Pressure: 2500

Cement Data

Cement Name: BFN III
Cement Density (lb/gal) : 14.2
Cement Yield (cuft) : 1.49
Gallons Per Sack: 7.48
% Excess: 16%
Displacement Fluid lb/gal: 8.3
BBL to Pit: 5
Fluid Ahead (bbls): 30.0
H2O Wash Up (bbls): 20.0

Spacer Ahead Makeup
30bbls H2O+Dye in 2nd 10bbls

Casing ID

8.921

Casing Grade

J-55 only used

Calculated Results

cuft of Shoe 17.25 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 590.69 cuft
(Open Hole Squared) - (Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)

Total Slurry Volume 607.93 cuft
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)

bbls of Slurry 108.27 bbls
(Total Slurry Volume) X (.1781)

Sacks Needed 408 sk
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)

Mix Water 72.66 bbls
(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 78.31 bbls

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

Pressure of cement in annulus

Hydrostatic Pressure: 770.68 PSI

Pressure of the fluids inside casing

Displacement: 433.32 psi

Shoe Joint: 29.32 psi

Total 462.64 psi

Differential Pressure: 308.04 psi

Collapse PSI: 2020.00 psi

Burst PSI: 3520.00 psi

Total Water Needed: 200.97 bbls

X Randy Case
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.



INVOICE #
LOCATION
FOREMAN
Date

2222

Weld

Calvin Reimers

10/29/2014

Customer
Well Name

Anadarko Petroleum Corporation

Gee 26C-12HZ

Treatment Report Page 2

DESCRIPTION OF JOB EVENTS

[illegible]

Notes:

The day

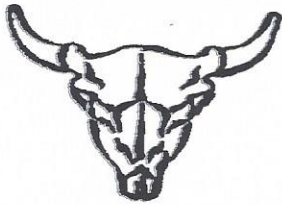
1/2 bbl back on bleed off

Work Performed

x APC Consultant

X 10/28/2014

Date _____



Bison Oil Well Cementing Single Cement Surface Pipe

Cementing Customer Satisfaction Survey

Service Date	10/29/2014
Well Name	Gee 26C-12HZ
County	Weld
State	Colorado
SEC	24
TWP	2N
RNG	67W

Invoice Number	25077
API #	05-123-39234
Job Type	Single Cement Surface Pipe
Company Name	Anadarko Petroleum Corporation

Customer Representative **Randy**

Supervisor Name **Calvin Reimers**

Employee Name (Including Supervisor)
Calvin R
Eric R
Zack V

Exposure Hours (Per Employee)
12
12
12
Total Exposure Hours
36

Did we encounter any problems on this job? ☐ Yes ☒ No

To Be Completed By Customer

Rating/Description

- 5 - Superior Performance (Established new quality/performance standards)
 - 4 - Exceeded Expectation (Provided more than what was required/expected)
 - 3 - Met Expectations (Did what was expected)
 - 2 - Below Expectations (Job problems/failures occurred - *Recovery made)
 - 1 - Poor Performance (Job problems/failures occurred - *Some recovery made)
- *Recovery: resolved issue(s) on jobsite in a timely and professional manner

RATING CATEGORY

4	Personnel -
4	Equipment -
4	Job Design -
4	Product/Material -
4	Health & Safety -
4	Environmental -
5	Timeliness -
4	Condition/Appearance -
4	Communication -

CUSTOMER SATISFACTION RATING

- Did our personnel perform to your satisfaction?
- Did our equipment perform to your satisfaction?
- Did we perform the job to the agreed upon design?
- Did our products and materials perform as you expected?
- Did we perform in a safe and careful manner (Pre/post mtgs, PPE, TSMR, etc..)?
- Did we perform in an environmentally sound manner (spills, leaks, cleanup, etc..)?
- Was job performed as scheduled (On time to site, accessible to customers, completed when expected)?
- Did the equipment condition and appearance meet your expectations?
- How well did our personnel communicate during mobilization, rig up and job execution?

Please Circle:

- Yes ☒ No ☐ Did an accident or injury occur?
- Yes ☐ No ☐ Did an injury requiring medical treatment occur?
- Yes ☐ No ☐ Did a first-aid injury occur?
- Yes ☐ No ☐ Did a vehicle accident occur?
- Yes ☒ No ☐ Was a post-job safety meeting held?

Please Circle:

- Yes ☒ No ☐ Was a pre-job safety meeting held?
- Yes ☐ No ☐ Was a job safety analysis completed?
- Yes ☐ No ☐ Were emergency services discussed?
- Yes ☐ No ☐ Did environmental incident occur?
- Yes ☐ No ☒ Did any near misses occur?

Additional Comments:

Great Job!! Thanks
[Signature]

THE INFORMATION HEREIN IS CORRECT -

[Signature]
Customer Representative's Signature

DATE: 10/29/2014

Any additional Customer Comments or HSE concerns should be described on the back of this form

SERIES 2000

