



Bison Oil Well Cementing
1547 Gaylord Street
Denver, CO 80206

FIELD INVOICE #

666150

FIELD INVOICE

| WELL NO. AND FARM | COUNTY | STATE | DATE | Contractor |
|-------------------|--------|----------|-----------|---------------|
| FL Greens 3N-5HZ | Weld | Colorado | 6/16/2017 | Precision 461 |

| CHARGE TO | WELL LOCATION |
|--------------------------------|--|
| Anadarko Petroleum Corporation | Section 8 TWP 1N RANGE 66W |
| PO Box 4995 | DELIVERED TO cr. 29 & cr. 12 LOCATION 1 CODE Greeley |
| The Woodlands, TX 77387 | SHIPPED VIA 4023/4030/4020 LOCATION 2 CODE Fort Lupton |
| | TYPE AND PURPOSE OF JOB LOCATION 3 CODE Greeley |
| | SURFACE WELL TYPE CODE |

| ITEM | DESCRIPTION | UNITS | | UNIT PRICE | AMOUNT |
|-------------------|-----------------|-------|-------|------------|--------------|
| | | QTY. | MEAS. | | |
| PUMP CHARGE | | | | | \$ - |
| SURFACE | | 1 | | \$ 952.00 | \$ 952.00 |
| MILEAGE CHARGE | | | | | \$ - |
| Pickup | \$1.50 per Mile | 72 | | \$ 1.22 | \$ 87.84 |
| Truck/Equipment | \$4.00 per Mile | 72 | | \$ 3.23 | \$ 232.56 |
| Truck/Equipment | \$4.00 per Mile | 72 | | \$ 3.23 | \$ 232.56 |
| Truck/Equipment | \$4.00 per Mile | 72 | | \$ 3.23 | \$ 232.56 |
| CEMENT CHARGE: | | | | | \$ - |
| BFN III | | 735 | | \$ 14.69 | \$ 10,797.15 |
| ADDITIVES CHARGE: | | | | | |
| Red Dye | | 16 | oz | \$ 15.00 | \$ 240.00 |
| FLOAT EQUIPMENT: | | | | | |
| OTHER CHARGES: | | | | | |
| Wait Time | | 1 | hour | \$ 250.00 | \$ 250.00 |

If this account is not paid within 30 days of invoice date a FINANCE CHARGE will be made. Computed at a single monthly rate of 1 1/2% which is equal to an ANNUAL PERCENTAGE RATE OF 18%.

FL GREENS 3N-5HZ RIG PD 461

JAMES G. / FRANK K. USER ID ZCMK6

CONSULTANT NAME: Alan Madsen

GL CODE: 80012090 AFE# 2111192.DRL

DATE: 6-16-17 SIGNATURE: [Signature]

SUB TOTAL \$ 13,024.67

TAX \$ -

TOTAL \$ 13,024.67

SUBJECT TO CORRECTION

[Signature]
Customer or Agent

[Signature]
Bison Oil Well Cementing, Inc. Representative

Customers hereby acknowledges and specifically agrees to the terms and conditions on this work order, including, without limitation, the provisions on the reverse hereof which include the release and indemnity.



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 6/16/2017
Invoice #: 666150
API#: 05-123-42280
Foreman: Nick Vigil

Customer: Anadarko Petroleum Corporation
Well Name: FL Greens 3N-5HZ

County: Weld
State: Colorado
Sec: 8
Twp: 1N
Range: 66W
Consultant: Alan M
Rig Name & Number: Precision 461
Distance To Location: 36 Miles
Units On Location: 4023/4030/4035
Time Requested: 1:00
Time Arrived On Location: 12:30
Time Left Location:

WELL DATA

Casing Size OD (in) : 9.625
Casing Weight (lb) : 36.00
Casing Depth (ft.) : 1,885
Total Depth (ft) : 1895
Open Hole Diameter (in.) : 13.50
Conductor Length (ft) : 80
Conductor ID : 15.25
Shoe Joint Length (ft) : 44
Landing Joint (ft) : 10

Max Rate: 8
Max Pressure: 2000

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: 0.0
Fluid Ahead (bbls): 30.0
H2O Wash Up (bbls): 20.0

Spacer Ahead Makeup
Dye in second 10 bbl

Casing ID

8.921

Casing Grade

J-55 only used

Calculated Results

cuft of Shoe 19.10 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 1014.48 cuft
(Open Hole Squared) - (Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)
Total Slurry Volume 1094.63 cuft
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)
bbls of Slurry 194.95 bbls
(Total Slurry Volume) X (.1781)
Sacks Needed 735 sk
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)
Mix Water 130.84 bbls
(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 143.10 bbls

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

Pressure of cement in annulus

Hydrostatic Pressure: 1390.56 PSI

Pressure of the fluids inside casing

Displacement: 793.80 psi

Shoe Joint: 32.46 psi

Total 826.26 psi

Differential Pressure: 564.30 psi

Collapse PSI: 2020.00 psi

Burst PSI: 3520.00 psi

Total Water Needed: 323.94 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.

Date _____



Bison Oil Well Cementing Single Cement Surface Pipe

Cementing Customer Satisfaction Survey

| | |
|--------------|------------------|
| Service Date | 6/16/2017 |
| Well Name | FL Greens 3N-5HZ |
| County | Weld |
| State | Colorado |
| SEC | 8 |
| TWP | 1N |
| RNG | 66W |

| | |
|----------------|-------------------------------|
| Invoice Number | 666150 |
| API # | 05-123-42280 |
| Job Type | Single Cement Surface Pipe |
| Company Name | Inadarko Petroleum Corporatio |

Customer Representative Alan

Supervisor Name Nick Vigil

| Employee Name (Including Supervisor) | |
|--------------------------------------|--|
| Nick | |
| Jason | |
| Alan | |
| Aaron | |
| Jose | |

| Exposure Hours (Per Employee) | |
|-------------------------------|------|
| Nick | 5.5 |
| Jason | 5.5 |
| Alan | 5.5 |
| Aaron | 5.5 |
| Jose | 5.5 |
| Total Exposure Hours | 27.5 |

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

- 3 Personnel -
- 3 Equipment -
- 3 Job Design -
- 3 Product/Material -
- 3 Health & Safety -
- 3 Environmental -
- 3 Timeliness -
- 3 Condition/Appearance -
- 3 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: On time Job went as design. Well Done

THE INFORMATION HEREIN IS CORRECT -

x Alan D. Mad
Customer Representative's Signature

DATE: 6-16-2017

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

FL Greens 3N-5HZ

