



Bison Oil Well Cementing
 1547 Gaylord Street
 Denver, CO 80206

FIELD INVOICE #
 80531

FIELD INVOICE

WELL NO. AND FARM	COUNTY	STATE	DATE	Contractor
Sunflower 40N-17HZ	Weld	Colorado	9/19/2015	noble 2
CHARGE TO	WELL LOCATION			
Anadarko Petroleum Corporation	Section	TWP	RANGE	
PO Box 4995	8	2n	65w	
The Woodlands, TX 77387	DELIVERED TO		LOCATION 1	CODE
	41-24		shop	
	SHIPPED VIA		LOCATION 2	CODE
	4029-3106/4024-3203		41-24	
	TYPE AND PURPOSE OF JOB		LOCATION 3	CODE
	SURFACE		shop	
			WELL TYPE	CODE
			gas	

ITEM	DESCRIPTION	UNITS		UNIT PRICE	AMOUNT
		QTY.	MEAS.		
PUMP CHARGE					
SURFACE		1	ea		
MILLEAGE CHARGE					
Pickup		56	mile		
Truck/Equipment		56	mile		
Truck/Equipment		56	mile		
Truck/Equipment		56	mile		
CEMENT CHARGE:					
BFN III		729	sacks		
ADDITIVES CHARGE:					
KCL		3	qt		
Liquid Dye Rhodamine		15	oz		
Sugar			lbs		
FLOAT EQUIPMENT:					
OTHER CHARGES:					
DATA ACQUISITION FEE		1	ea		
Containment		1	ea		

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%.

TAX

Handwritten signature
 Customer or Agent

SUNFLOWER 40N-17HZ NOBLE 2
 FRANK KINNEY USER ID: CUO741
 CONSULTANT: *Handwritten signature*
 AFE# 2113378 DATE: 9-19-15
 GL CODE: 800 12090

SUBJECT TO CORRECTION

Handwritten 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 riverside hereof which include the release and indemnity.



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 9/19/2015
 Invoice #: 80531
 API#:
 Foreman: Kirk Kallhoff

Customer: Anadarko Petroleum Corporation
 Well Name: Sunflower 40N-17HZ

County: Weld
 State: Colorado
 Sec: 8
 Twp: 2n
 Range: 65w
 Consultant: hayden
 Rig Name & Number: noble 2
 Distance To Location: 28
 Units On Location: 4029-3106/4024-3203
 Time Requested: 730 am
 Time Arrived On Location: 600 am
 Time Left Location: 10:30 am

WELL DATA	Cement Data
Casing Size OD (in) : 9.625	Cement Name: BFN III
Casing Weight (lb) : 36.00	Cement Density (lb/gal) : 14.2
Casing Depth (ft.) : 1,880	Cement Yield (cuft) : 1.49
Total Depth (ft) : 1890	Gallons Per Sack: 7.48
Open Hole Diameter (in.) : 13.50	% Excess: 15%
Conductor Length (ft) : 60	Displacement Fluid lb/gal: 8.3
Conductor ID : 15.25	BBL to Pit:
Shoe Joint Length (ft) : 41	Fluid Ahead (bbls): 30.0
Landing Joint (ft) : 10	H2O Wash Up (bbls): 10.0
Max Rate:	Spacer Ahead Makeup
Max Pressure:	

Calculated Results	Pressure of cement in annulus
cuft of Shoe 17.80 cuft (Casing ID Squared) X (.005454) X (Shoe Joint ft)	Displacement: 142.94 bbls (Casing ID Squared) X (.0009714) X (Casing Depth + Landing Joint - Shoe Joint)
cuft of Conductor 45.79 cuft (Conductor Width Squared) - (Casing Size OD Squared) X (.005454) X (Conductor Length ft)	Hydrostatic Pressure: 1386.88 PSI
cuft of Casing 1022.91 cuft (Open Hole Squared) - (Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)	Pressure of the fluids inside casing
Total Slurry Volume 1086.50 cuft (cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)	Displacement: 792.94 psi Shoe Joint: 30.25 psi Total: 823.19 psi
bbls of Slurry 193.50 bbls (Total Slurry Volume) X (.1781)	Differential Pressure: 563.69 psi
Sacks Needed 729 sk (Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)	Collapse PSI: 2020.00 psi Burst PSI: 3520.00 psi
Mix Water 129.87 bbls (Sacks Needed) X (Gallons Per Sack) ÷ 42	Total Water Needed: 312.81 bbls

X *[Signature]*
 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

Cementing Customer Satisfaction Survey

Service Date	9/19/2015
Well Name	Sunflower 40N-17HZ
County	Weld
State	Colorado
SEC	8
TWP	2n
RNG	65w

Invoice Number	80531
API #	0
Job Type	Single Cement Surface Pipe
Company Name	Madarko Petroleum Corporation

Customer Representative: hayden

Supervisor Name: Kirk Kallhoff

Employee Name (Including Supervisor)
kirk
scott
lee

Exposure Hours (Per Employee)
4.5
4.5
4.5
Total Exposure Hours: 13.5

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	CUSTOMER SATISFACTION RATING
_____	Personnel -	Did our personnel perform to your satisfaction?
_____	Equipment -	Did our equipment perform to your satisfaction?
_____	Job Design -	Did we perform the job to the agreed upon design?
_____	Product/Material -	Did our products and materials perform as you expected?
_____	Health & Safety -	Did we perform in a safe and careful manner (Pre/post mtgs, PPE, TSMR, etc..)?
_____	Environmental -	Did we perform in an environmentally sound manner (spills, leaks, cleanup, etc..)?
_____	Timeliness -	Was job performed as scheduled (On time to site, accessible to customers, completed when expected)?
_____	Condition/Appearance -	Did the equipment condition and appearance meet your expectations?
_____	Communication -	How well did our personnel communicate during mobilization, rig up and job execution?

Please Circle:		Please Circle:			
Yes	No	Did an accident or injury occur?	Yes	No	Was a pre-job safety meeting held?
Yes	No	Did an injury requiring medical treatment occur?	Yes	No	Was a job safety analysis completed?
Yes	No	Did a first-aid injury occur?	Yes	No	Were emergency services discussed?
Yes	No	Did a vehicle accident occur?	Yes	No	Did environmental incident occur?
Yes	No	Was a post-job safety meeting held?	Yes	No	Did any near misses occur?

Additional Comments:

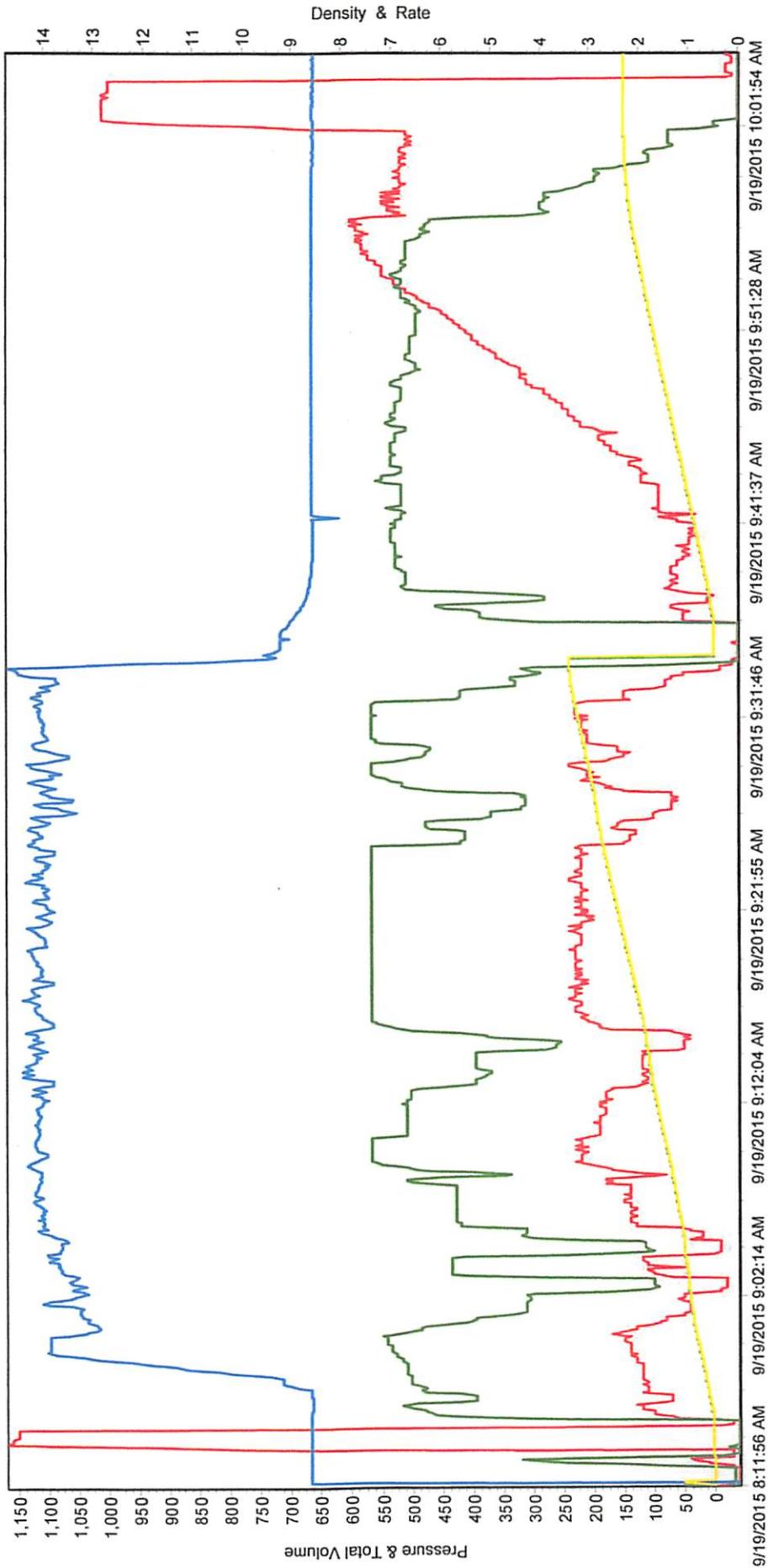
THE INFORMATION HEREIN IS CORRECT -

X 
Customer Representative's Signature

DATE: 9-19-15

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

M/D TOTCO 2000 SERIES



Release and Indemnification

Customer acknowledges and assumes the risks associated with oil well drilling, cementing and acidizing, including, without limitation, destabilization, loss of production, contamination, fracturing and loss of well control. Customer agrees to release Bison Oil Well Cementing, Inc., Bison Energy Services, Inc., its agents, employees and assigns, from any and all liability for any and all damages whatsoever to property of any kind owned by, in the possession of, or leased by customer and those persons or entities customer has the ability to bind by contract. Customer also agrees to indemnify and hold harmless Bison Oil Well Cementing, Inc., Bison Energy Services, Inc., its agents, employees and assigns, from and against any and all liability, claims, costs, expenses, attorneys fees and damages whatsoever for claims, costs, expenses, attorneys fees and damages whatsoever for personal injury, illness, death, property damage and loss resulting from: loss or reduction of production, destabilization loss of oil well control, failure of or contamination by acid stimulation, hydraulic fracturing, cementing, pumping services, incompatible fluid or other processes to stimulate, complete or end production, and/or any other condition. Customer's release, indemnity and hold harmless obligation shall apply even if the liability and claims are caused by the sole, concurrent, active or passive negligence, fault, or strict liability of Bison Oil Well Cementing, Inc. and/or Bison Energy Services, Inc. or any defect in the data, products, supplies, materials or equipment furnished by Bison Oil Well Cementing, Inc. whether in the design, manufacturing, maintenance, or marketing thereof or from failure to warn of such defect. In the event that any portion of this release and indemnity is found by a court of competent jurisdiction to be inoperable or unenforceable, the remaining portions and provisions shall apply, and customer agrees that the contract price herein shall be the limit of Bison Oil Well Cementing, Inc.'s liability, if any.