

Bison Oil Well Cementing

Customer:

Well Name:

Invoice # 12083
API# 05-123-10980
Foreman: JASON

County: Weld
State: Colorado
Sec: 35
Twp: 6N
Range: 66W

Consultant: CARL
Rig Name & Number: BWS 19
Distance To Location: 18
Units On Location: 4031-3106
Time Requested: 1600
Time Arrived On Location: 1500
Time Left Location: 1600

Balanced Plug Drill Pipe

Well Data

Density lb/gal	15.8	
Yield	1.15	
H2O gal/sk	5	
Drill Pipe Size	2.375	
Drill Pipe Weight	4.85	
Drill Pipe Depth	4560	
Open Hole Diameter	10	
Top of Plug	4289	
Bottom of Plug	4560	
Open Hole Total Depth	4560	
Height of Plug	271	ft
ID	1.995	
Annulus	0.0917	bbl
Height of Cement In Annulus	143.488	ft
Height of Cement in String	3401.855	ft
OH Coverage	271	ft
bbls of Spacer Ahead	15	bbls
	163.65	ft

Note

-Minimum of 3bbls 350 ft Spacer Ahead Cement

Mud displacement

-8.6741 bbls

Mud Displacement ft

-2243.4797 ft

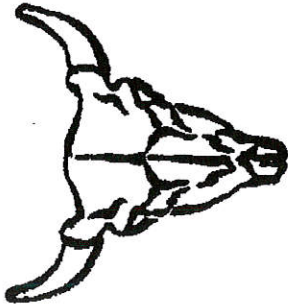
(Total length of workstring) - (length of cement in workstring) - (length of spacer inside drill pipe)

(Drill Pipe Depth) X (ID of workstring squared) X .0009714 = bbls of mud displacement

X

Authorized To Proceed

Total bbls of Slurry	24.5 26.3045 bbls
.005454 X (diameter) squared of open hole X Length of Plug	
Workstring:	0.0217 ft3/ft
ID Squared X .005454	
Annulus:	0.5146 ft3/ft 0.0917 bbl
(Open Hole Diameter Squared - Casing Size Squared) X .005454	
Height of Plug in WS	49.0441 ft3
ft3 of Slurry / WS + AV	
Sacks Needed:	120.4304 sk
cuft of Slurry/Cement Yield	
bbls Mix Water	15.2893 bbls
(H2O X SKs)/42 gal	
Gal/sk Mix Water	642.1522 gal/sk
bbls X 42 gal	
Spacer Ahead Cement:	15.0000 bbls 163.647 ft
Spacer Behind Cement:	0.8967 bbls 3401.716 ft
bbls spacer behind cement	
Drill Pipe Size Squared X .0009714 X ft of Spacer Ahead	



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Foreman: JASON

County: Weld

State: Colorado

Sec: 35

Twp: 6N

Range: 66W

Consultant: CARL

Rig Name & Number: BWS 19

Distance To Location: 18

Units On Location: 4031-3106

Time Requested: 900

Time Arrived On Location: 800

Time Left Location: 1330

Balanced Plug Drill Pipe

Well Data

Density lb/gal	15.8
Yield	1.15
H2O gal/sk	5
Drill Pipe Size	2.375
Drill Pipe Weight	4.85
Drill Pipe Depth	7087
Open Hole Diameter	4.052
Top of Plug	6959
Bottom of Plug	7087
Open Hole Total Depth	7087
Height of Plug	128 ft
ID	1.995
Annulus	0.0105 bbl
Height of Cement In Annulus	97.418 ft
Height of Cement in String	263.813 ft
OH Coverage	128 ft
bbls of Spacer Ahead	5 bbls
	477.56 ft

Note

-Minimum of 3bbls 350 ft Spacer Ahead Cement

Mud displacement

25.3599 bbls

Mud Displacement ft

6559.1179 ft

(Total length of workstring) - (length of cement in workstring) - (length of spacer inside drill pipe)

(Drill Pipe Depth) X (ID of workstring squared) X .0009714 = bbls of mud displacement

X

Authorized 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.

Total bbls of Slurry	2.0399 bbls
.005454 X (diameter) squared of open hole X Length of Plug	
Workstring:	0.0217 ft3/ft
ID Squared X .005454	
Annulus:	0.0588 ft3/ft
(Open Hole Diameter Squared - Casing Size Squared) X .005454	0.0105 bbl
Height of Plug in WS	25.3433 ft3
ft3 of Slurry / WS + AV	
Sacks Needed:	9.9597 sk
cuft of Slurry/Cement Yield	
bbls Mix Water	1.1857 bbls
(H2O X SKs)/42 gal	
Gal/sk Mix Water	49.7986 gal/sk
bbls X 42 gal	
Spacer Ahead Cement:	5.0000 bbls
	477.563 ft
Spacer Behind Cement:	2.6167 bbls
	263.802 ft
bbls spacer behind cement	
Drill Pipe Size Squared X .0009714 X ft of Spacer Ahead	

BISON OIL WELL CEMENTING, INC.

1547 Gaylord Street
Denver, Colorado 80206
Phone: 303-296-3010
Fax: 303-298-8143
E-mail: bisonoil1@qwestoffice.net



SERVICE INVOICE

№ 12003

WELL NO. AND FARM <i>Mobile Premix 02-35</i>	COUNTY <i>Weld</i>	STATE <i>CO</i>	DATE <i>7-31-11</i>
CHARGE TO <i>Noble</i>	WELL LOCATION SEC. <i>35</i> TWP. <i>6N</i> RANGE <i>66W</i>	CONTRACTOR <i>BWS 19</i>	
DELIVERED TO <i>35th Ave + Fst</i>		LOCATION <i>1 Shop</i>	CODE
SHIPPED VIA <i>4031-3106</i>		LOCATION <i>2 35 + F</i>	CODE
TYPE AND PURPOSE OF JOB <i>P & A</i>		LOCATION <i>3 Shop</i>	CODE
		WELL TYPE	CODE

PRICE REFERENCE	DESCRIPTION	UNITS		UNIT PRICE	AMOUNT
		QTY.	MEAS.		
	<i>Pump Charge</i>	<i>1</i>	<i>EA</i>	500.00	500.00
	<i>Neat G</i>	<i>407</i>	<i>ALB</i>	50.00	20350.00
	<i>Milage 150 per mile 1.00 per mile</i>	<i>150</i>	<i>mi</i>	3.00	450.00
	<i>Data Acq</i>	<i>1</i>	<i>EA</i>	225.00	225.00
	<i>Wait Time</i>	<i>6</i>	<i>hr</i>	25.00	150.00
	<i>Mobile Premix 02-35</i>				
	<i>2.00036</i>				
	<i>0017</i>				
	<i>970.12</i>				
	<i>8-1-14</i>				
	<i>CM</i>				
	Total Weight	Loaded Miles	Ton Miles		

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 1/4% which is equal to an ANNUAL PERCENTAGE RATE OF 18%.

TAX REFERENCES

"TAXES WILL BE ADDED AT CORPORATE OFFICE"

SUB TOTAL

TAX

TOTAL

SUBJECT TO CORRECTION

Customer or His Agent

Customer or His Agent

Bison Oil Well Cementing, Inc. Representative

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 side hereof which include the release and indemnity.

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Denver, Colorado 80206
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E-mail: bisonoil1@qwestoffice.net



№ 12002

WELL NO. AND FARM Mobile Premix 02-35		COUNTY Weld	STATE CO	DATE 7-29-14	
CHARGE TO Noble		WELL LOCATION SEC. 35 TWP. 6N RANGE 66W		CONTRACTOR BUS 19	
		DELIVERED TO 35th Ave & F St		LOCATION 1 Shop	CODE
		SHIPPED VIA 4031-3106		LOCATION 2 35 & F	CODE
		TYPE AND PURPOSE OF JOB P & A		LOCATION 3 Shop	CODE
				WELL TYPE	CODE

PRICE REFERENCE	DESCRIPTION	UNITS		UNIT PRICE	AMOUNT
		QTY.	MEAS.		
	Pump Charge	1	EA	[REDACTED]	[REDACTED]
	Heat G	10	lbs	[REDACTED]	[REDACTED]
	Mileage 150 per mile less mile tax 16	280	mi	[REDACTED]	[REDACTED]
	Data Acq	1	EA	[REDACTED]	[REDACTED]
	Mobile Premium 2-36				
	200 836				
	0017				
	\$ 970.10				
	7-29-14				
	Cumsh				
	Total Weight		Ton Miles		

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 1½% which is equal to an ANNUAL PERCENTAGE RATE OF 18%.

TAX REFERENCES

"TAXES WILL BE ADDED AT CORPORATE OFFICE"

SUB TOTAL

TAX

TOTAL

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