

BISON OIL WELL CEMENTING, INC.

1738 Wynkoop St., Ste. 102
Denver, Colorado 80202
Phone: 303-296-3010
Fax: 303-298-8143
E-mail: bisonoil1@qwestoffice.net



SERVICE INVOICE

Nº 12721

WELL NO. AND FARM <i>Devore 1A-34H</i>	COUNTY <i>weld</i>	STATE <i>CO</i>	DATE <i>10-16-13</i>
CHARGE TO <i>Encana</i>	WELL LOCATION SEC. <i>34</i>	TWP. <i>3N</i> RANGE <i>66W</i>	CONTRACTOR <i>chros</i>
		DELIVERED TO <i>28+31</i>	LOCATION <i>1 shop</i>
		SHIPPED VIA <i>3104-3204</i>	LOCATION <i>2 28+31</i>
		TYPE AND PURPOSE OF JOB <i>Surface</i>	LOCATION <i>3 shop</i>
			WELL TYPE <i>Gas</i>

PRICE REFERENCE	DESCRIPTION	UNITS		UNIT PRICE	AMOUNT	
		QTY.	MEAS.			
	Pump charge	1	ea	1400 ⁰⁰	1400	00
	BFWIT 3070 BCC+ .2516 BFLA-1	398	SKS	22 ⁴⁵	8935	10
	BFLY-4	3	QT	25 ⁰⁰	75 ⁰⁰	00
	Bloedye	16	oz	15 ⁰⁰	240	00
	millage 150 per mile 60 mile min Round trip	1	ea	90 ⁰⁰	90	00
	millage 400 per mile 60 mile min Round trip	2	ea	240 ⁰⁰	480	00
	Data Acc	1	ea	225 ⁰⁰	225	00
	Iron Inspection	1	ea	500 ⁰⁰	500	00
	wait time	3H	hr	250 ⁰⁰	500	00
	Sugar	100	lb	2 ⁰⁰	200	00
	Total Weight		Loaded 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 1/2% which is equal to an ANNUAL PERCENTAGE RATE OF 18%.

TAX REFERENCES

SUB TOTAL

TAX

TOTAL

SUBJECT TO CORRECTION

Encana Oil & Gas (USA) Inc.

DJ Basin

Well: *Devore 1A-34H*

AFE: *17174225*

Major/Minor CC: *8715.618*

Signature: *[Signature]*

Approver: Customer or His Agent

"TAXES WILL BE ADDED AT CORPORATE OFFICE"

RC: KD \$ 12,645.10

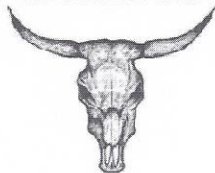
monte Bedeary

Bison Oil Well Cementing, Inc. Representative

Customers hereby acknowledge 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.

BISON OIL WELL CEMENTING, INC.

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



INVOICE #
LOCATION
FOREMAN

12721
28431
monte

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY
10-16-13	Dewar 1A-34H	34	3N	66W	weld
BILL TO		CONSULTANT			
Encana		Chas			
OWNER		RIG NAME & NUMBER			
		Patterson 272			
MAILING ADDRESS		DISTANCE TO LOCATION		UNITS ON LOCATION	
		14.2		3104-3204	
CITY		TIME REQUESTED		TIME ARRIVED ON LOCATION	
		930		900	
STATE, ZIP		TIME LEFT LOCATION			
		500			

WELL DATA

HOLE SIZE	TUBING SIZE	PERFORATIONS
12 1/4		
TOTAL DEPTH	TUBING DEPTH	SHOTS/FT
1047		
CASING SIZE	TUBING WEIGHT	OPEN HOLE
9 5/8		
CASING DEPTH	TUBING CONDITION	TREATMENT VIA
9035		
CASING WEIGHT	PACKER DEPTH	
40		
CASING CONDITION	Good	
Max Rate		
Max Pressure		

Cement Makeup

Cement Blend	BFN# 3070 BCC 1.25/b BFLA-1		
Cement - Specs	lbs	Yield	Water Requirements
	15.2	1.27	5.89
Annulus Factor	Capacity Factor		
.3131	.0759		

TYPE OF TREATMENT

<input checked="" type="checkbox"/> Surface Pipe	<input type="checkbox"/> Production	<input type="checkbox"/> Squeeze
<input type="checkbox"/> MISC Pump	<input type="checkbox"/> P&A	

HYD HHP = RATE X PRESSURE / 40.8

% Excess

BBL to Pit

3070
21

DESCRIPTION OF JOB EVENTS

Safety meeting mFRU Pressure test Per company man circulate 30 bbls
Ahead with dye in 2nd 10 min + Pump 398 sks cement drop plug
+ Displace 75.4 bbls H₂O Pump plug 150 PSI above lift Pressure
hold 5 min Release Pressure wash up Rig down

X

WLSL
Title

X 10-16-13
Date

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Bison Oil Well Cementing Single Cement Surface Pipe

Invoice # 12721
API# 445564
Foreman: monte

Customer: encana
Well Name: devore 1a-34h

County: Weld County
State: Colorado
Sec: 34
Twp: 3n
Range: 66w

Consultant: Chris
Rig Name & Number: patterson 272
Distance To Location: 14.2
Units On Location: 3104 & 3204
Time Requested: 930
Time Arrived On Location: 900
Time Left Location:

WELL DATA

Casing Size OD (in) : 9.6250
Casing Weight (lb) : 40
Casing Depth (ft.) : 996
Total Depth (ft) : 1047
Open Hole Diameter (in.) : 12.25
Conductor Length (ft) : 119
Conductor ID : 15.5
Shoe Joint Length (ft) : 44
Landing Joint (ft) : 5

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: 30%
Displacement Fluid lb/gal: 8.3
BBL to Pit:
Fluid Ahead (bbls):
H2O Wash Up (bbls): 20.0

Spacer Ahead Makeup
10 fresh 10 dye 50 fresh

Casing ID

8.835

Casing Grade

J-55 only used

Calculated Results

cuft of Shoe 18.73 cuft
(Casing ID Squared) X (.005454) X (Shoe Joint ft)

cuft of Conductor 95.80 cuft
(Conductor Width Squared) - (Casing Size OD Squared) X (.005454) X (Conductor Length ft)

cuft of Casing 274.66 cuft
(Open Hole Squared) - (Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)

Total Slurry Volume 389.19 cuft
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)

bbls of Slurry 90.11 bbls
(Total Slurry Volume) X (.1781) X (% Excess Cement)

Sacks Needed 398 sk
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)

Mix Water 55.87 bbls
(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 72.56 bbls
(Casing ID Squared) X (.0009714) X (Casing Depth + Landing Joint - Shoe Joint)

Pressure of cement in annulus

Hydrostatic Pressure: 786.44 PSI

Pressure of the fluids inside casing

Displacement: 410.48 psi

Shoe Joint: 34.74 psi

Total 445.23 psi

Differential Pressure: 341.21 psi

Collapse PSI: 2570.00 psi

Burst PSI: 3950.00 psi

Total Water Needed: 75.87 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.