

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 12719

WELL NO. AND FARM Billings 1A-34H		COUNTY Weld	STATE CO	DATE 10-15-13
CHARGE TO Encana		WELL LOCATION SEC. 34 TWP. 2N RANGE 68E		CONTRACTOR Coby
		DELIVERED TO #25 + 16		LOCATION 1 Shop
		SHIPPED VIA 3106-		LOCATION 2 #25 + 16
		TYPE AND PURPOSE OF JOB Surface		LOCATION 3 Shop
				WELL TYPE 605

PRICE REFERENCE	DESCRIPTION	UNITS		UNIT PRICE	AMOUNT	
		QTY.	MEAS.			
	Pump charge	1	ea	1400 ⁰⁰	1400	00
	BFW # 3% Rec-1.25/b BFLA.1	356	SKS	22 ⁴⁵	792	20
	BFLY-1	3	qt	15 ⁰⁰	45	00
	Blue dye	16	oz	15 ⁰⁰	240	00
	Data Ace	1	ea	225 ⁰⁰	225	00
	millage 150 per mile bonle min Round Trip	1	ea	90 ⁰⁰	90	00
	millage 400 per mile bonle min Round Trip	2	ea	240 ⁰⁰	480	00
	Torn Inspection	1	ea	500 ⁰⁰	500	00
	Sugar	50	lb	2 ⁰⁰	100	00
	Wait Time	2	hr	250 ⁰⁰	500	00
	BFW # 3% Rec-1.25/b BFLA.4 40p off	47	SKS	22 ⁴⁵	1055	15
	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"

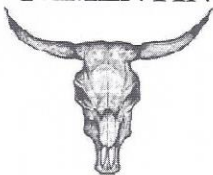
Encana Oil & Gas (USA) Inc.		TOTAL	12627 35
DJ Basin	Date: 10-15-13	TAX	
Well: Billings 1A-34H	AFE: 13171950	TOTAL	
Major / Minor CC: 8715.618	Total Amount: \$12,627.35	SUBJECT TO CORRECTION	
Signature: <i>[Signature]</i>	Approver: <i>[Signature]</i>		

Customer or His Agent

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.

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 #

12719

LOCATION

#2416

FOREMAN

monte

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY
10-15-13	Billings 1A-34H	34	2N	68W	weld
BILL TO	CONSULTANT				
Ensign	Cody				
OWNER	RIG NAME & NUMBER				
	Ensign 133				
MAILING ADDRESS	DISTANCE TO LOCATION		UNITS ON LOCATION		
	27.3		3106-3203		
CITY	TIME REQUESTED		TIME ARRIVED ON LOCATION		
	500		400		
STATE, ZIP	TIME LEFT LOCATION				
WELL DATA			Cement Makeup		
HOLE SIZE	TUBING SIZE	PERFORATIONS	Cement Blend		
12 1/4			BFN # 30% BCC-1.2516 BFLA-1		
TOTAL DEPTH	TUBING DEPTH	SHOTS/FT	Cement - Specs	lbs	Yield
1043				13.1 # 15.2	8164 # 189
CASING SIZE	TUBING WEIGHT	OPEN HOLE	Annulus Factor	Capacity Factor	
9 5/8			1315	10758	
CASING DEPTH	TUBING CONDITION	TREATMENT VIA	TYPE OF TREATMENT		
1048			<input checked="" type="checkbox"/> Surface Pipe <input type="checkbox"/> Production <input type="checkbox"/> Squeeze <input type="checkbox"/> MISC Pump <input type="checkbox"/> P&A		
CASING WEIGHT	PACKER DEPTH		HYD HHP = RATE X PRESSURE / 40.8		
40					
CASING CONDITION			% Excess	60	
			BBL to Pit	24	
Max Rate					
Max Pressure					

DESCRIPTION OF JOB EVENTS

safety meeting MFRU Pressure test Per Company manual + Pump
256 sks lead cement m H + Pump 100SKS tail cement drop
plug + Disp 76.6 bbls H₂O Redesse pressure wash up Rig
down

X

Authorization To Proceed

Title

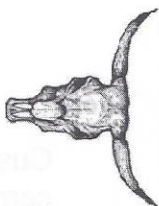
X 10-15-13

Date

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INVOICE #
LOCATION
FOREMAN

12719
#25416
note

Treatment Report Page 2

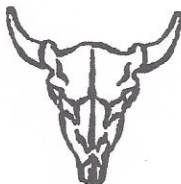
DESCRIPTION OF JOB EVENTS

Safety Meeting	6:10	Displace 1		Displace 2		Displace 3		Displace 4		Displace 5		Displace 5	
MIRU	545	BLS	Time	PSI	BLS	Time	PSI	BLS	Time	PSI	BLS	Time	PSI
CIRCULATE	653	0	734	30	0			0			0		
Drop Plug		10	740	90	10			10			10		
		20	742	80	20			20			20		
		30	744	150	30			30			30		
		40	746	200	40			40			40		
		50	748	270	50			50			50		
M & P		60	750	350	60			60			60		
Time	Sacks	70	753	360	70			70			70		
705	356	70	753	360	80			80			80		
732	stop	90	765	560	90			90			90		
945	47	100			100			100			100		
1000	stop	110			110			110			110		
1000	stop	120			120			120			120		
1000	stop	130			130			130			130		
1000	stop	140			140			140			140		
1000	stop	150			150			150			150		

Notes: 7711X 6.59

circulate 30 bbls Ahead with dye in and 10 mix + Pump 256 shs lead
yield at 6030 excess mix + Pump 100 shs tail cement at 15.2 1.27 5.89 H2O
drop plug + drop 766 bbls H2O Pump plug at 735 Am at 560 PSI Hold 5 min Release
pressure wash up
top 2 wells off with 47 shs cement
24 bbls back to P.T

X James Ely X 10-15-13
Work Performed Title Date



Bison Oil Well Cementing, Inc
1738 Wynkoop St., Ste. 102
Denver, CO 80202
303-296-3010
www.Bisonoilwell.com

Cementing Customer Satisfaction Survey

Service Date 10-15-13 Invoice Number 12719
Invoice Amount _____ Well Permit Number _____
Well Name Ballings 1A-34H Well Type Gas
Well Location #25416 Well Number 1A-34H
County Weld Lease _____
SEC/TWP/RNG 34 2N 68W Job Type Surface
State CO Company Name Encore
Supervisor Name Marty Customer Representative Bob
Customer Phone Number _____

Employee Name

Exposure Hours (Per Employee)

Pardo
Steven
Buck

7
7
7

Total Exposure Hours 21

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 Expectations (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

Opportunity

- Best Practices
- Potential Best Practice
- Prevention/Improvement

RATING / CATEGORY

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

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 customer, completed when expected)?
- Did the equipment condition and appearance meet your expectation?
- How well did our personnel communicate during mobilization, rig up, and job execution?
- What can we do to improve our service?

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?

Additional Comments:

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?

THE INFORMATION HEREIN IS CORRECT -

Dennis E. Phoe
Customer Representative's Signature

10-15-13
Date

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



Bison Oil Well Cementing Surface Pipe Tail & Lead

Invoice # 12719
API# 05-123-37472
Foreman: monte bedeaux

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

County: Weld
State: Colorado
Sec: 34
Twp: 2n
Range: 68w

Consultant: cody
Rig Name & Number: ensign 133
Distance To Location: 27
Units On Location: 3106 3202
Time Requested: 400am
Time Arrived On Location: 500am
Time Left Location:

WELL DATA

Casing Size (in) : 9.625
Casing Weight (lb) : 40
Casing Depth (ft.) : 1,048
Total Depth (ft) : 1043
Open Hole Diameter (in) : 12.25
Conductor Length (ft) : 93
Conductor ID : 16
Shoe Joint Length (ft) : 42
Landing Joint (ft) : 5

Sacks of Tail Requested 100
HOC Tail (ft): 0

One or the other, cannot have quantity in both

Max Rate: 7
Max Pressure: 2500

Cement Data

Lead

Cement Name:
Cement Density (lb/gal) : 13.1
Cement Yield (cuft) : 1.69
Gallons Per Sack : 8.64
% Excess : 60%

Tail

Cement Name:
Cement Density (lb/gal) : 15.2
Cement Yield (cuft) : 1.27
Gallons Per Sack : 5.89
% Excess : 0%

Fluid Ahead (bbls) 76.6
H2O Wash Up (bbls) 20.0

Spacer Ahead Makeup

10fresh 10 dye 10 fresh

Casing ID 8.835

Casing Grade J-55 only used

Lead Calculated Results

HOC of Lead 602.06 ft
Casing Depth - HOC Tail
Volume of Lead Cement 188.55 cuft
HOC of Lead X Open Hole Ann
Volume of Conductor 82.86 cuft
(Conductor ID Squared) - (Casing Size OD Squared) X (.005454) X
(Conductor Length ft)
Total Volume of Lead Cement 271.41 cuft
(cuft of Lead Cement) + (Cuft of Conductor)
bbls of Lead Cement 77.34 bbls
(Total cuft of Lead Cement) X (.1781) X (1+%Lead Excess)
Sacks of Lead Cement 256.96 sk
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)
bbls of Lead Mix Water 52.86 bbls
(Sacks Needed) X (Gallons Per Sack) ÷ 42
Displacement 76.61 bbls
(Casing ID Squared) X (.0009714) X (Casing Depth) + (Landing Joint) - (Shoe Length)
Total Water Needed: 149.47 bbls

Tail Calculated Results

Tail Cement Volume In Ann 127.00 cuft
(HOC Tail) X (OH Ann)
Total Volume of Tail Cement 108.97 Cuft
(HOC Tail X OH Ann) - (Shoe Length X Shoe Joint Ann)
bbls of Tail Cement 22.62 bbls
(HOC of Tail) X (OH Ann) + (Cement Yield) X (Shoe Joint Ann) X (.1781) X
(% Excess)
HOC Tail 347.94 ft
(Tail Cement Volume) ÷ (OH Ann)
Sacks of Tail Cement 100.00 sk
(Total Volume of Tail Cement) ÷ (Cement Yield)
bbls of Tail Mix Water 14.02 bbls
(Sacks of Tail Cement X Gallons Per Sack) ÷ 42
Pressure of cement in annulus
Hydrostatic Pressure 713.16 PSI
Collapse PSI: 2570.00 psi
Burst PSI: 3950.00 psi

X

Authorization To Proceed

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