

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



№ 12664:

WELL NO. AND FARM Dwore 1D-39H	COUNTY Weld	STATE CO	DATE 9-24-13	
CHARGE TO Encang	WELL LOCATION SEC. 34 TWP. 3N RANGE 66W		CONTRACTOR chris	
		DELIVERED TO 28-31	LOCATION 1 shop	CODE
		SHIPPED VIA 3104-3204	LOCATION 2 28+31	CODE
	TYPE AND PURPOSE OF JOB Surface		LOCATION 3 shop	CODE
			WELL TYPE Gos	CODE

PRICE REFERENCE	DESCRIPTION	UNITS		UNIT PRICE	AMOUNT
		QTY.	MEAS.		
	Pump Charge	1	ea	1500 ⁰⁰	1500 00
	BEN III 790 BCC-1 .25/b BFLA-'	395	Sks	22 ⁴⁵	8867 75
	BC LY-1	3	QT	25 ⁰⁰	75 00
	mullage 400 Per mile 60mile min Round trip	1	ea	240 ⁰⁰	480 00
	millage 150 Per mile 60mile min Roundtrip	1	ea	90 ⁰⁰	90 00
	Datta Ace	1	ea	225 ⁰⁰	225 00
	Forn Inspection	1	ea	500 ⁰⁰	500 00
	wait time	2	hr	150 ⁰⁰	300 00
	Blue dye	16	OZ	15 ⁰⁰	240 00
	Total Weight		Ton Miles		
	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%.

Encana Oil & Gas (USA) Inc.

DJ Basin

Well:

AFF:

Major/Minor CC:

Signature

Approver:

Customer or His Agent

TAX REFERENCES

SUB TOTAL

TAX

TOTAL

SUBJECT TO CORRECTION

"WILL BE ADDED AT CORPORATE OFFICE"

RC: KBA 12,277, 75

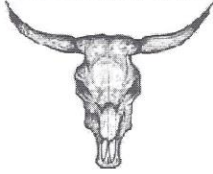
Monte Bepley

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.

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

12664
28+31
monte

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY
9-24-13	Dwore 1D-39H	34	3N	66W	weld
BILL TO	CONSULTANT				
Encana	ehrs				
OWNER	RIG NAME & NUMBER				
	Patterson 272				
MAILING ADDRESS	DISTANCE TO LOCATION		UNITS ON LOCATION		
	14.1		3104 + 3204		
CITY	TIME REQUESTED		TIME ARRIVED ON LOCATION		
	800A		300A		
STATE, ZIP	TIME LEFT LOCATION				
WELL DATA			Cement Makeup		
HOLE SIZE	TUBING SIZE	PERFORATIONS	Cement Blend	BFN # 30% BCC-1, 251b BFLA-1	
12 1/4			Cement - Specs	lbs	Yield
				15.2	1.27
TOTAL DEPTH	TUBING DEPTH	SHOTS/FT	Annulus Factor	Capacity Factor	
1030			13131	.0759	
CASING SIZE	TUBING WEIGHT	OPEN HOLE	TYPE OF TREATMENT		
9 5/8			<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 DEPTH	TUBING CONDITION	TREATMENT VIA	HYD HHP = RATE X PRESSURE / 40.8		
1018			% Excess 27%		
CASING WEIGHT	PACKER DEPTH		BBL to Pit 17		
40					
CASING CONDITION	Good				
Max Rate					
Max Pressure					

DESCRIPTION OF JOB EVENTS

Safety meeting mFRU Pressure test Per Company man circulate
30 bbls Ahead ^{dyer in and 10} m + Pump 395 sks cement Drop Plug
+ Disp 741 bbls H2O Bump Plug 150 lbs over lift
pressure hold 5 min Release Pressure wash up Rig down

X

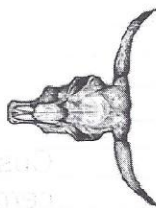
WSL
Title

X 9-24-13
Date

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INVOICE #
LOCATION
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Treatment Report Page 2

DESCRIPTION OF JOB EVENTS

Safety Meeting	835	Displace 1			Displace 2			Displace 3			Displace 4			Displace 5		
MIRU	800	BBLS	Time	PSI	BBLS	Time	PSI	BBLS	Time	PSI	BBLS	Time	PSI	BBLS	Time	PSI
CIRCULATE Drop Plug 1043	839	0	1027	10	0			0			0			0		
		10	1029	10	10			10			10			10		
		20	1029	60	20			20			20			20		
		30	1032	170	30			30			30			30		
M & P		40	1034	280	40			40			40			40		
		50	1037	350	50			50			50			50		
		60	1039	380	60			60			60			60		
		70	1041	400	70			70			70			70		
948	395	80	1043	530	80			80			80			80		
1022 stop		90			90			90			90			90		
		100			100			100			100			100		
		110			110			110			110			110		
		120			120			120			120			120		
mix 55.39		130			130			130			130			130		
slurry 89.34		140			140			140			140			140		
		150			150			150			150			150		

Notes:

circulate 30 bbls Ahead with Dye In and 10 mix + Pump 395 lbs at
2770 excess is 1.27 yield 5.89 H2O drop plug + disp bbls H2O
Pump Plug at 1043mat 530 lbs Pressure hold 5 min wash up Rig down
17 bbls Back To Surface

X Work Performed

X Title

X Date 9-24-13



Bison Oil Well Cementing Single Cement Surface Pipe

Invoice # 12664
API# 445564
Foreman: monte

Customer: encana
Well Name: divorce ID - 39H

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

Consultant: chrs
Rig Name & Number: patterson 272
Distance To Location: 14.1
Units On Location: 3104 & 3204
Time Requested: 500
Time Arrived On Location: 300
Time Left Location:

WELL DATA

Casing Size OD (in) : 9.6250
Casing Weight (lb) : 40
Casing Depth (ft.) : 1,018
Total Depth (ft) : 1030
Open Hole Diameter (in.) : 12.25
Conductor Length (ft) : 119
Conductor ID : 16
Shoe Joint Length (ft) : 40
Landing Joint (ft) : 30

Max Rate:

Max Pressure:

Cement Data

Cement Name: BFN III
Cement Density (lb/gal) : 15.2
Cement Yield (cuft) : 1.274
Gallons Per Sack: 5.89
% Excess: 27%
Displacement Fluid lb/gal: 8.3
BBL to Pit:
Fluid Ahead (bbls): 76.4
H2O Wash Up (bbls): 20.0

Spacer Ahead Makeup

10 fresh 10 dye 10 fresh

Casing ID

8.835

Casing Grade

J-55 only used

Calculated Results

cuft of Shoe 16.97 cuft
(Casing ID Squared) X (.005454) X (Shoe Joint ft)

cuft of Conductor 106.02 cuft
(Conductor Width Squared) - (Casing Size OD Squared) X (.005454) X (Conductor Length ft)

cuft of Casing 272.15 cuft
(Open Hole Squared) - (Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length - Landing Joint)

Total Slurry Volume 395.14 cuft
(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)

bbls of Slurry 89.38 bbls
(Total Slurry Volume) X (.1781) X (% Excess Cement)

Sacks Needed 394 sk
(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)

Mix Water 55.24 bbls
(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 76.44 bbls
(Casing ID Squared) X (.0009714) X (Casing Depth + Landing Joint - Shoe Joint)

Pressure of cement in annulus

Hydrostatic Pressure: 803.81 PSI

Pressure of the fluids inside casing

Displacement: 421.76 psi

Shoe Joint: 31.47 psi

Total 453.23 psi

Differential Pressure: 350.59 psi

Collapse PSI: 2570.00 psi

Burst PSI: 3950.00 psi

Total Water Needed: 151.68 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.