

## SERVICE INVOICE

№ 11752

WELL NO. AND FARM <i>Line 2C-2H</i>	COUNTY <i>Weld</i>	STATE <i>CO</i>	DATE <i>3/23/13</i>	
CHARGE TO <i>Encana</i>	WELL LOCATION SEC. <i>2</i>		CONTRACTOR <i>Ensign 124</i>	
		TWP. <i>2N</i>	RANGE <i>6W</i>	
		DELIVERED TO <i>31/26</i>	LOCATION <i>1 Shop</i>	CODE
		SHIPPED VIA <i>112,31064006</i>	LOCATION <i>2 31/26</i>	CODE
	TYPE AND PURPOSE OF JOB <i>SURFACE</i>		LOCATION <i>3 Shop</i>	CODE
			WELL TYPE <i>Oil</i>	CODE

PRICE REFERENCE	DESCRIPTION	UNITS		UNIT PRICE	AMOUNT	
		QTY.	MEAS.			
	pump charge	1	EA	14.00	14.00	00
	Type III, 3% BCCA, 1/4% BFLA	420	SKS	22.45	9429	00
	Truck mileage x 2 trucks 60 mi/min	120	MI	4.00	480	00
	p/a mileage 60 mi MIW	60	MI	1.50	90	00
	Dye	16	OZ	15.00	240	00
	Data	1	EA	225.00	225	00
<p>Encana Oil &amp; Gas (USA) Inc.</p> <p>DJ Basin</p> <p>Well: # Lone 2C-2H</p> <p>AFE: 12169701</p> <p>Major/Minor CC: 8715 618</p> <p>Signature: <i>[Signature]</i></p> <p>Approver: RC: JJ</p> <p style="border: 1px solid black; border-radius: 50%; padding: 5px; display: inline-block;">\$ 11,864<sup>00</sup></p>						
		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 1/2% which is equal to an ANNUAL PERCENTAGE RATE OF 18%.

## TAX REFERENCES

**SUB TOTAL**

11,864

TAX

**"TAXES WILL BE ADDED AT CORPORATE OFFICE"**

TOTAL

**SUBJECT TO CORRECTION**

Customer or His Agent

Elson 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.



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

REF. INVOICE # 11752  
LOCATION 26/31  
FOREMAN Jon

## TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
3/23/13	June 2C-2H	2	2N	44W	Weld	

CHARGE TO <u>Encana</u>	OWNER
MAILING ADDRESS	OPERATOR
CITY	CONTRACTOR <u>Ensign 124</u>
STATE ZIP CODE	DISTANCE TO LOCATION <u>60 mi</u>
TIME ARRIVED ON LOCATION <u>12:30</u>	TIME LEFT LOCATION <u>Reg 1:00</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>1024</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>PB 970</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>9 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>1016</u>		TREATMENT VIA	TREATMENT RATE		
CASING WEIGHT <u>40</u>	PACKER DEPTH		[ ] SURFACE PIPE	BREAKDOWN BPM	
CASING CONDITION			[ ] PRODUCTION CASING	INITIAL BPM	
			[ ] SQUEEZE CEMENT	FINAL BPM	
			[ ] ACID BREAKDOWN	MINIMUM BPM	
			[ ] ACID STIMULATION	MAXIMUM BPM	
			[ ] ACID SPOTTING	AVERAGE BPM	
			[ ] MISC PUMP		
			[ ] OTHER	HYD HHP = RATE X PRESSURE X 40.8	

PRESSURE SUMMARY			
BREAKDOWN or CIRCULATING	psi	AVERAGE	psi
FINAL DISPLACEMENT	psi	ISIP	psi
ANNULUS	psi	5 MIN SIP	psi
MAXIMUM	psi	15 MIN SIP	psi
MINIMUM	psi		

INSTRUCTIONS PRIOR TO JOB MIRU, Safety, press test Circ 10 fresh, 10 Dye, 10 Sresh  
MHP 420 sks @ 15.2 lb, 1.27 gld, 5.89 gal/sk. Drop plug, Displace 73.5  
bbls Rig down

.0758 capacity 95 bbls slurry mixed @ 4.5 Displ @ 5.0

### JOB SUMMARY

DESCRIPTION OF JOB EVENTS						
<u>MIRU</u>	<u>Safety</u>	<u>press test</u>	<u>Circ</u>	<u>MHP</u>	<u>Drop plug</u>	<u>Displ</u>
<u>1:30</u>	<u>3:00</u>	<u>5:05</u>	<u>5:07</u>	<u>420 sks</u>		
				<u>58.9 bbls</u>	<u>5:44</u>	<u>5:46 0 410</u>
				<u>5:20 start</u>		<u>5:47 10 410</u>
				<u>5:41</u>		<u>5:49 20 490</u>
						<u>5:51 30 540</u>
						<u>5:53 40 570</u>
						<u>5:55 50 590</u>
						<u>5:57 60 630</u>
						<u>6:00 70 660</u>
						<u>6:05 76 690</u>
<u>21 bbls to fit</u>				<u>over displaced by 2 1/2 per Company man</u>		<u>73.5</u>

Levenard Clark DSM 3-22-13

AUTHORIZATION TO PROCEED

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 3/23/13 Invoice Number 11752  
Invoice Amount 14,804 Well Permit Number \_\_\_\_\_  
Well Name FONE Well Type OIL  
Well Location 31/24 Well Number 2C-2H  
County Weld Lease Encona  
SEC/TWP/RNG 2 2N (date) Job Type Surfact  
State CO Company Name \_\_\_\_\_  
Supervisor Name Jon Customer Representative Leonard  
Employee Name \_\_\_\_\_ Customer Phone Number \_\_\_\_\_  
Exposure Hours (Per Employee) \_\_\_\_\_

Jon  
Monte  
John

7  
7  
7

Total Exposure Hours 21

Did we encounter any problems on this job? Yes / No 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

- 4 Personnel -
- 2 Equipment -
- 4 Job Design -
- 4 Product / Material -
- 4 Health & Safety -
- 3 Environmental -
- 5 Timeliness -
- 4 Condition / Appearance -
- 4 Communication -
- 4 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?

#### 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?

#### Additional Comments:

Broken valve on bulk truck

THE INFORMATION HEREIN IS CORRECT -

Leonard Clark  
Customer Representative's Signature

3-23-13  
Date

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

**BISON****BISON OILWELL CEMENTING JOB SAFETY ANALYSIS WORKSHEET**

JOB/TASK: SURFACE CASING CEMENTING		CEMENTER/SUPERVISOR: jon	PAGE 1 OF 2
WELL NAME: Jane ac-2H		RIG # 124	DATE: 3/23/13
OPERATOR: Encana		CONSULTANT: Leonard	INVOICE # 11752
PPE REQUIRED: <input type="checkbox"/> Hard Hat <input type="checkbox"/> Safety Glasses <input type="checkbox"/> Steel Toe Boots <input type="checkbox"/> Impact Gloves <input type="checkbox"/> FR Coveralls <input type="checkbox"/> Reflective Vest		ADDITIONAL PPE (based on job specific hazards) <input type="checkbox"/> Goggles <input type="checkbox"/> Faceshield <input type="checkbox"/> Chemical Resistant Gloves <input type="checkbox"/> Chemical Resistant Clothing <input type="checkbox"/> Air Purifying Respirator <input type="checkbox"/> Supplied Air Respirator <input type="checkbox"/> Personal H2S Monitor <input type="checkbox"/> Personal Methane Monitor	
JOB STEPS		POTENTIAL HAZARDS	RECOMMENDED ACTION OR PROCEDURE
1. Review JSA	Misunderstanding		Clarify job and associated hazards and safety concerns
2. Conduct pre job safety meeting	Misunderstanding		-Hold safety meeting with all personnel on location, ensure everyone pays attention to ensure they understand their role and responsibility during the job -Review treatment report with consultant and attain signature for authorization to proceed -Identify and address short service employees (SSE) who are on location
3. Move trucks in and rig up equipment	Other traffic on location, overhead lines, pinch points, heavy lifting, slips/falls		-Coordinate with well site supervisor for directions on where and when to park the equipment -All Bison crew members walk the location prior to driving in to access specific hazards -Utilize spotters when trucks are in motion -Establish buffer zone around equipment utilizing cones and caution tape -Cementer follows up to ensure connections are secure -Lift with your legs and use teamwork when rigging up -Utilize reflective vests and wands to increase visibility at night -Deploy spill berms and buckets
4. Raise cement head and hoses to rig floor	Overhead work, improper hookup/load not properly secured, poor communication between ground personnel and crane/tugger operator		-Inspect slings, chains and hooks prior to lift -Ensure line of sight with crane/tugger operator is maintained throughout the lift and hand signals are understood -Ensure no personnel are under suspended equipment -Utilize a tag line to control the load
5. Connect Cement head/swage/pin, chickens and hoses.	Working in a congested area, pinch points, swinging hammers, slippery rig floor		-Only Bison personnel install the cement head and hoses -Maintain line of sight and communication with crane/tugger operator -Remove non-essential personnel from rig floor, wait until other activity is done -Rig crew does not install chains until head and hoses are installed -Ensure a clear path when swinging a hammer -Ensure all fittings and hoses have proper pressure rating for the job and fall within the parameters of the <i>Bison Oilwell Iron Inspection Program</i>
6. Pressure test lines	Equipment failing under high pressures	Test to: PSI- 1000 Maximum pressure allowed for job: 2500 PSI-	Pressure relief valve set to: 4k PSI- Max. pump pressure: 6k PSI-
7. Pump Spacer (dye marker/Mix and Pump Cement	Serious injury from high pressure line failure or catastrophic equipment failure. Casing hydraulicing from hole, causing injury. Burns or skin irritation from splashing cement, uncontrolled spills		-Pressure test prior to job, utilize heavy duty hose hobbles and pressure relief valve -Keep rig floor and buffer area clear while pumping -Utilize proper PPE -Have access to water to rinse affected skin





# BISON OILWELL CEMENTING JOB SAFETY ANALYSIS WORKSHEET

8. Drop plug	Slips, trips, falls. Miscommunication between pump operator and cementer, pressure against a closed stop	-Deploy spill berms and buckets -Utilize 3 points of contact while descending/climbing ladder and stairs -Have visual contact between cementer and pump operator before pump is engaged	
9. Displacement	Unexpected pressure associated with resuming of pumping, casing hydraulizing from hole, serious injury from high pressure line failure or catastrophic equipment failure.	-Ensure rig floor remains clear and non-essential personnel stay clear from buffer area -Pump operator monitors pump pressure constantly -Utilize proper PPE	
10. Bump plug-Test float and release pressure	Pressure jumps before expected (calculated) displacement. Pressure jumps rapidly and higher than expected	-Pump operator slows rate to 2 BPM when 5 bbls from calculated displacement and down to 1 bpm within 2 bbls of calculated displacement -Pump operator monitors pressure constantly -Pressure relief valve installed on pump	
11. Pressure test casing (if required)	Test to: <div>PSI- 1000</div> FOR: MIN- <div>5</div>	-Ensure rig floor remains clear and non-essential personnel stay clear from the buffer area	
12. Wash up / rig down	Splashing cement slurry, heavy lifting, pinch points, unsecured hoses	-Utilize stakes or portable tank manifold to secure hoses -Use proper lifting technique (2 man lift, lift with legs, plan your route)	
13. Depart location	Other traffic and personnel and location, overhead lines	-All Bison crew member walk the planned exit route to access possible obstacles and hazards -Utilize spotters while backing	
OTHER HAZARDS SPECIFIC TO LOCATION OR ENVIRONMENT NOT ADDRESSED ABOVE:			
DESIGNATED EMERGENCY MUSTER AREA:		NEAREST EMERGENCY MEDICAL FACILITY (OTHER THAN 911):	
at entrance		greeley	

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BISON OILWELL CEMENTING JOB SAFETY ANALYSIS WORKSHEET

John Hall Bison

Leonard Clark Encana,

Tim Jorgensen Ensign  
John Galt Ensign

Ryan Bickel Ensign

Just John Ensign

Burton Anderson Ensign  
MARCUS KENNEDY Ensign

John Thompson Bison  
Wanda Badger Bison

# M/D TOTCO 2000 SERIES

