



# BISON

Bison Oil Well Cementing Inc.  
Suite 102  
Denver, CO 80202  
303-296-3010

**FILE**

## Invoice

Date	Invoice #
12/17/2012	11669

Bill To
Accounts Payable EnCana Oil & Gas (USA) Inc. 370 17th Street, Suite 1700 Denver, CO. 80202

Location	Well Name & No.	Terms	Job Type		
Weld, CO	Ione 2G-2H	Net 30	Surface Pipe		
Item	Description	Qty	U/M	Rate	Amount
Pump surface	PUMP Charge-surface pipe	1		1,400.00	1,400.00
MILEAGE	Pick-Up Truck Mileage charge	60		1.50	90.00
MILEAGE	Truck Bulk Mileage charge	60		4.00	240.00
MILEAGE	Pump truck Mileage charge	60		4.00	240.00
Data Acquisition ...	Data Acquisition Charge	1		225.00	225.00
	Subtotal of Services				2,195.00
BFN III Winter ...	BFN III Blend	377	Sack	22.25	8,388.25T
Dye - 4880	Dye (Hot Pink 4880)	10	oz	15.00	150.00T
KCL Mud Flush	(BHS 117)	4	qt	25.00	100.00T
	Subtotal of Materials				8,638.25
					10,833.25

Please Remit Payment To:

Bison Oil Well Cementing, Inc.  
P.O. Box 29671  
Thornton, CO 80229

<b>Subtotal</b>	\$10,833.25
<b>Sales Tax (2.9%)</b>	\$250.51
<b>Total</b>	\$11,083.76
<b>Balance Due</b>	\$11,083.76

# 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 11669

WELL NO. AND FARM <b>1one 26 -2H</b>		COUNTY <b>Weld</b>	STATE <b>CO</b>	DATE <b>12-17-12</b>
CHARGE TO <b>Encana</b> Encana Oil & Gas (USA) Inc. DJ Basin Well: <b>1one 26-2H</b> AFE: <b>12170485</b> Major/Minor CO: <b>875.618</b> Signature: <i>[Signature]</i> Approver: <b>RC: JJ</b> <b>10,833<sup>25</sup></b>		WELL LOCATION SEC. <b>2</b> TWP. <b>2N</b> RANGE <b>66W</b>		CONTRACTOR <b>Ensign 124</b>
DELIVERED TO <b>WCR 33-26</b>		LOCATION 1 <b>Shop</b> CODE		
SHIPPED VIA <b>3102 +3203</b>		LOCATION 2 <b>WCR 33-26</b> CODE		
TYPE AND PURPOSE OF JOB <b>Surface Pipe</b>		LOCATION 3 <b>Shop</b> CODE		
		WELL TYPE <b>GAS</b> CODE		

PRICE REFERENCE	DESCRIPTION	UNITS		UNIT PRICE	AMOUNT	
		QTY.	MEAS.			
	Pump Charge	1	EA	1400 <sup>00</sup>	1400	00
	Cement Type III 3% BMA-1 2.57BS/sk BFLA-1 15-2100 and 1.27 qt	377	SKS	22 <sup>25</sup>	8398	25
	Pick-up 60 mile min round Trip	60	LO	1.50	90	00
	Truck Bulk 60 mile min round Trip	60	LO	4 <sup>00</sup>	240	00
	Pump Truck 60 mile min Round Trip	60	LO	4 <sup>00</sup>	240	00
	Dye	10	QB	15 <sup>00</sup>	150	00
	Data	1	EA	225 <sup>00</sup>	225	00
	KCL	4	QT	25 <sup>00</sup>	100	00
	Sugar		IBS			
	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

"TAXES WILL BE ADDED AT CORPORATE OFFICE"

SUB TOTAL

TAX

TOTAL

SUBJECT TO CORRECTION

*[Signature]*  
Customer or His Agent

*[Signature]*  
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.



12-17-12

5 20 Mar

Left with 235 lbs cement / 950 lbs B Dye Sugar 4/21/11 Dumping 650

01

Used 307 Sh Cement 377

ГМАЗ 9/0 9/8 P200

85.05 Sherry

3.518 m  
71.18

Genet stat Genet stop

4:25 PM 10/29/20

## How to hold

Time

1:25 Am 1:25 Am 3:50 Am 3:50 Am 4:20 Am

DESCRIPTION OF JOB EVENTS

## JOB SUMMARY

Arfau luo shk lem lwa fye 10 gth ku 10alr 5gn

INSTRUCTIONS PRIOR TO JOB

Spillymach, Big up, Get PSI test 1000, Car. GBK H2O Blue Dye  
Mix + Pump 37050 Gens. Top. @ GBK 3/0 Cx 35/0 3ways, at 15-2 lbs at 1.20 gpd. Release Pkg  
Disp/Min. PBA H2O Bump Pkg 150 PSI over 1H wait 5 min Release PSI Wash up Big Dye

INSTRUCTIONS PRIOR TO JOB

HOLE SIZE	TUBING SIZE	PERFORATIONS	THEORETICAL	INSTRUCTED
12 1/4	10.50	TUBING DEPTH	SURFACE PIPE ANNULUS LONG	
+10 9 5/8	TUBING WEIGHT	OPEN HOLE	STRING	
9 5/8	CASING SIZE	TUBING CONDITION	TUBING	
10388 ft	CASING DEPTH	TREATMENT VIA	TYPE OF TREATMENT	TREATMENT RATE
470	CASING WEIGHT	PACKER DEPTH	<del>1</del> SURFACE PIPE	BREAKDOWN BPM
Good	CASING CONDITION		[ ] PRODUCTION CASING	INITIAL BPM
<b>PRESSURE SUMMARY</b>				
psi	AVERAGE	psi	[ ] ACID BREAKDOWN	MINIMUM BPM
psi	ISIP	psi	[ ] ACID STIMULATION	MAXIMUM BPM
psi	5 MIN SIP	psi	[ ] ACID SPOTTING	AVERAGE BPM
psi	15 MIN SIP	psi	[ ] MISC PUMP	
psi			[ ] OTHER	HYD HHP = RATE X PRESSURE X 40.8
psi				

0.9413

### PRESSURE LIMITATIONS

WELL DATA

CHARGE TO	12 Enigma	OWNER	
MAILING ADDRESS		OPERATOR	Enigma
CITY		CONTRACTOR	Enigma
STATE ZIP CODE		DISTANCE TO LOCATION	
TIME ARRIVED ON LOCATION	9:00 pm	TIME LEFT LOCATION	6:30 AM

DATE	12-17-12	WELL NAME	Loc 26-24	SECTION	2	TWP	2N	RGE	W	COUNTY	WCH	FORMATION	
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## TREATMENT REPORT

FOREMAN Mike Roark

LOCATION WKR 33-24

REF. INVOICE # 11229

E-mail: [bisonoil1@qwestoffice.net](mailto:bisonoil1@qwestoffice.net)

Fax: 303-298-8143

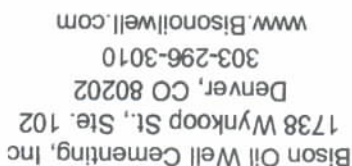
Phone: 303-296-3070

Denver, Colorado 80202

1738 Wynkoop St., Ste. 102  
Brooklyn, NY 11231-1964

**BISON OIL WELL CEMENTING, INC.**





## Cementing Customer Satisfaction Survey

	Service Date	12-11-13
	Invoice Amount	
	Well Name	Lone Wolf
	Well Location	WLF-33-2L
	County	WFL
	SEC/TWP/RNG	7 - 2N 6W
	State	CO
	Supervisor Name	Mike Rosaler
	Employee Name	
	Wade	Toto John

11669	Invoice Number	
	Well Permit Number	
GAS	Well Type	
2002H	Well Number	
SURFACE	Job Type	
ENGLEWOOD	Company Name	
	Customer Representative	
	Customer Phone Number	
	Exposure Hours (Per Employee)	9.5 9.5 9.5
11669	Dump Value on Bill	side opening open

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

**To Be Completed By Customer**

**Opportunity**  
**Best Practices**  
**Potential Best Practice**  
**Prevention/Improvement**

- 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 job/site in a timely and professional manner

## RATING / CATEGORY

Personnel -	3	Did our personnel perform to your satisfaction ?
Equipment -	3	Did our equipment perform to your satisfaction ?
Job Design -	3	Did we perform the job to the agreed upon design ?
Product / Material -	3	Did our products and materials perform as you expected ?
Health & Safety -	4	Did we perform in a safe and careful manner ( Pre / post mtgs, PPE, TSMR, etc.. ) ?
Environmental -	4	Did we perform in an environmentally sound manner ( Spills, leaks, cleanup, etc.. ) ?
Timeliness -	3	Was job performed as scheduled(On time to site, accessible to customer, completed when expected)?
Condition / Appearance -	3	Did the equipment condition and appearance meet your expectation?
Communication -	3	How well did our personnel communicate during mobilization, rig up, and job execution?
Improvement -		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?  
Yes / No - Did any near misses occur?

**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 -

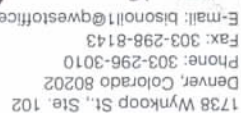
Customer Representative's Signature

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

Date \_\_\_\_\_

12-17-13





INVOICE

MINIMUM STANDARDS REQUIREMENT VERIFICATION (must be verified for all members of a work party)

Flame Resistant Clothing ☐ New on Job Review ☐ Onsite Orientation ☐ Other (specify) \_\_\_\_\_

- ☒ Slips/Trips/Falls
- ☒ Falling from Heights
- ☒ Confined Spaces
- ☒ Heavy Lifting
- ☒ Repetitive Motions
- ☒ Poor Safety Analysis Reviewed (if applicable)
- ☒ Lifting Technique
- ☒ NIOSH or Other Radiation
- ☒ Overhead work/suspended Loads/Chains/Slings
- ☒ Walking
- ☒ Hazardous
- ☒ Hazardous
- ☒ Hazardous

- ☒ Extreme Heat/Cold
- ☒ Electrical Current
- ☒ Overexertion/Heavy Lifting
- ☒ Spills/Leaks
- ☒ Flying Particles
- ☒ Overhead Power Lines
- ☒ Trapped Pressure
- ☒ Flammable/Combustible/Explosives
- ☒ Pinch Points/Moving/Rotating Equipment
- ☒ Waste Handling/Disposal
- ☒ Excavation Collapse
- ☐ Noise Levels
- ☐ Sharp Edges
- ☐ Insects/Snakes/etc.
- ☐ MSDS's Reviewed
- ☐ Walk Around Site Assessment

ADDITIONAL PPE REQUIREMENT (based on the job specific hazards, check all that apply)

<input type="checkbox"/> Eyes/Face Shields	<input type="checkbox"/> Hands
<input type="checkbox"/> Goggles	<input type="checkbox"/> Chemical Resistant Gloves
<input type="checkbox"/> Faceshield	<input type="checkbox"/> Heat Resistant Gloves
<input type="checkbox"/> Hearing Protection	<input type="checkbox"/> Cotton or Leather Gloves
	<input type="checkbox"/> Dielectric Gloves
<input type="checkbox"/> Feet	
<input type="checkbox"/> Rubber Boots	
<input type="checkbox"/> Over Boots	
<input type="checkbox"/> Dielectric Boots	
<input type="checkbox"/> Other	
<input type="checkbox"/> Air Purifying Respirator	
<input type="checkbox"/> Supplied Air Respirator	
<input type="checkbox"/> Personal H2S Monitor (if in sour area)	
<input type="checkbox"/> Chemical Resistant Clothing	
<input type="checkbox"/> Personal Fall Arrest Systems	

## EMERGENCY PREPARATIONS

~~Mustering Areas~~ ~~Communication Methods~~ ~~Means of Egress~~ ~~Emergency Equipment~~

**Additional Topics Covered:**

Attendees (Signature)/Company

Attendees (Signature)/Company

[illegible]

Ed Spert  
Design  
Engrg  
Engrg

Other Considerations and Field Notes:

Boston Andrews to ns yn  
Mar # 3rd  
Miss Webb  
Rose Rose  
use use  
Knap's Barragan use

Shome Brady  
BHT

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

JOB/TASK: SURFACE CASING CEMENTING		CEMENTER/SUPERVISOR: <i>M. Ke Rosale</i>		PAGE	OF
WELL NAME: <i>zone 26-2H</i>		RIG #	LOCATION: <i>WLR 23-24</i>	DATE: <i>12-17-12</i>	
OPERATOR: <i>CHENAP</i>		CONSULTANT:		INVOICE # <i>11069</i>	
PPE REQUIRED:		ADDITIONAL PPE (based on job specific hazards)		RECOMMENDED ACTION OR PROCEDURE	
<input checked="" type="checkbox"/> Hard Hat <input checked="" type="checkbox"/> Safety Glasses <input checked="" type="checkbox"/> Steel Toe Boots <input checked="" type="checkbox"/> Impact Gloves		<input checked="" type="checkbox"/> Coveralls <input checked="" type="checkbox"/> Reflective Vest		<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		REVIEWED BY	
1. Review JSA	Misunderstanding			<i>MR</i>	
2. Conduct pre job safety meeting	Misunderstanding			<i>MR</i>	
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		<i>MR</i>	
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		<i>GR</i>	
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>		<i>MR</i>	
6. Pressure test lines	Equipment failing under high pressures	-Ensure rig floor is clear and personnel are away from hoses prior to test -Establish buffer area around high pressure hoses -Lines are checked from a distance and using pressure gauges		Pressure relief valve set to: <i>1750</i> PSI- Max. pump pressure: <i>1700</i> 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		<i>MR</i>	





# 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: PSI- FOR: MIN-	Serious injury from high pressure line or catastrophic equipment failure	-Ensure rig floor remains clear and non-essential personnel stay clear from the buffer area	
12. Wash up / rig down	5:00 pm	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	6:00 pm	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): Brighton	