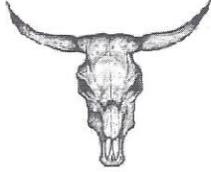


BISON OIL WELL CEMENTING, INC.

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



INVOICE #
 LOCATION
 FOREMAN

11713
 34-7
 Kirk

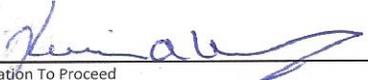
TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY
3-19-13	State 1d-16H	16	3N	68W	Weld
BILL TO	CONSULTANT				
Encana	Kern				
OWNER	RIG NAME & NUMBER				
	N&P 278				
MAILING ADDRESS	DISTANCE TO LOCATION			UNITS ON LOCATION	
				3103-3211	
CITY	TIME REQUESTED			TIME ARRIVED ON LOCATION	
	8:30am			6:30am	
STATE, ZIP	TIME LEFT LOCATION				
	12:30pm				
WELL DATA			Cement Makeup		
HOLE SIZE	TUBING SIZE	PERFORATIONS	Cement Blend		
12 1/4			BFL III 3% BCL A-1, 25lbs per sk BFL A-1		
TOTAL DEPTH	TUBING DEPTH	SHOTS/FT	Cement - Specs	lbs	Yield
843				15.2	1.27
CASING SIZE	TUBING WEIGHT	OPEN HOLE	Annulus Factor		Capacity Factor
9 5/8			.3131		.0758
CASING DEPTH	TUBING CONDITION	TREATMENT VIA	TYPE OF TREATMENT		
833			<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		
40lb			% Excess		
CASING CONDITION	good		BBL to Pit		
Max Rate			40%		
Max Pressure			20		

DESCRIPTION OF JOB EVENTS

Safety meeting, Rig up, PSI test, Per cement circ 30 BBS KCL H2O and 10 w/ Dye, mix & Pump 33.3 SKS cement at 40% Excess at 1.27 yield at 15.2 lbs, Release Plug Disp 60 BBS H2O, Bump Plug at 150 PSI over Lift PSI, wait 5 min Release PSI wash up Rig Down

Arrived w/ 600 SKS cement 4500 LK 16oz Dye

X 

Title

X 3-19-13
 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	<u>3-19-13</u>	Invoice Number	<u>11713</u>
Invoice Amount	_____	Well Permit Number	_____
Well Name	<u>State</u>	Well Type	<u>Gas</u>
Well Location	<u>341-7</u>	Well Number	<u>1d-16H</u>
County	<u>weld</u>	Lease	_____
SEC/TWP/RNG	<u>16 3W 68W</u>	Job Type	<u>Surface Pipe</u>
State	<u>CO</u>	Company Name	<u>Encana</u>
Supervisor Name	<u>Kirk</u>	Customer Representative	<u>Kevin</u>
		Customer Phone Number	_____

Employee Name	Exposure Hours (Per Employee)
<u>Pablo</u>	<u>6</u>
<u>menty</u>	<u>6</u>
_____	_____
_____	_____
_____	_____
Total Exposure Hours	Did we encounter any problems on this job? Yes / <input checked="" type="radio"/> No

To Be Completed By Customer

- | | |
|--|-------------------------|
| Rating/Description | Opportunity |
| 5 - Superior Performance (Established new quality / performance standards) | Best Practices |
| 4 - Exceeded Expectations (Provided more than what was required / expected) | Potential Best Practice |
| 3 - Met Expectations (Did what was expected) | Prevention/Improvement |
| 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 | |

RATING / CATEGORY	CUSTOMER SATISFACTION RATING
<u>4</u> Personnel -	Did our personnel perform to your satisfaction ?
<u>4</u> Equipment -	Did our equipment perform to your satisfaction ?
<u>5</u> Job Design -	Did we perform the job to the agreed upon design ?
<u>5</u> Product / Material -	Did our products and materials perform as you expected ?
<u>5</u> Health & Safety -	Did we perform in a safe and careful manner (Pre / post mtgs, PPE, TSMR, etc..) ?
<u>5</u> Environmental -	Did we perform in an environmentally sound manner (Spills, leaks, cleanup, etc..) ?
<u>5</u> Timeliness -	Was job performed as scheduled (On time to site, accessible to customer, completed when expected)?
<u>4</u> Condition / Appearance -	Did the equipment condition and appearance meet your expectation?
<u>4</u> Communication -	How well did our personnel communicate during mobilization, rig up, and job execution?
_____ Improvement -	What can we do to improve our service?

Please Circle:	Please Circle:
Yes / <input checked="" type="radio"/> No - Did an accident or injury occur?	<input checked="" type="radio"/> Yes / No - Was a pre-job safety meeting held?
Yes / <input checked="" type="radio"/> No - Did an injury requiring medical treatment occur?	<input checked="" type="radio"/> Yes / No - Was a job safety analysis completed?
Yes / <input checked="" type="radio"/> No - Did a first-aid injury occur?	<input checked="" type="radio"/> Yes / No - Were emergency services discussed?
Yes / <input checked="" type="radio"/> No - Did a vehicle accident occur?	Yes / <input checked="" type="radio"/> No - Did environmental incident occur?
Yes / <input checked="" type="radio"/> No - Was a post-job safety meeting held?	Yes / <input checked="" type="radio"/> No - Did any near misses occur?
Additional Comments:	

THE INFORMATION HEREIN IS CORRECT -

Kevin
 Customer Representative's Signature

3-19-13
 Date

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



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B.O.C. Tailgate Safety Meeting Report

INVOICE 11713

Date 3-14-13 Time 10:27 AM PM Meeting Facilitator Mark Kalihaff
 Facility Name and Location State Id-1651 Work to be Undertaken Surfacing Pipe
 Nearest Emergency Medical Service Number (Other than 911) Longmont

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

- Hard Hat Safety Glasses w/sideshields Safety Toed Footwear Personal Methane Monitor Verify Safety Training
 Flame Resistant Clothing New on Job Review Onsite Orientation Other (specify) _____

HAZARD IDENTIFICATION AND SAFETY BRIEFING DISCUSSION (Check and Discuss all Relevant Hazards)

- | | | |
|---|--|---|
| <input checked="" type="checkbox"/> Positions of People | <input checked="" type="checkbox"/> Job Safety Analysis Reviewed (if applicable) | <input type="checkbox"/> Hazardous Substance |
| <input type="checkbox"/> Falling from Heights | <input type="checkbox"/> NORM or Other Radiation | <input type="checkbox"/> Hazardous Atmosphere |
| <input checked="" type="checkbox"/> Slips/Trips/Falls | <input checked="" type="checkbox"/> Overhead work/suspended Loads/Chains/Slings | <input checked="" type="checkbox"/> Walking/Working Surfaces |
| <input type="checkbox"/> Extreme Heat/Cold | <input checked="" type="checkbox"/> Trapped Pressure | <input type="checkbox"/> Noise Levels |
| <input type="checkbox"/> Electrical Current | <input checked="" type="checkbox"/> Flammable/Combustible/Explosives | <input type="checkbox"/> Sharp Edges |
| <input type="checkbox"/> Overexertion/Heavy Lifting | <input checked="" type="checkbox"/> Pinch Points/Moving/Rotating Equipment | <input type="checkbox"/> Insects/Snakes/etc. |
| <input type="checkbox"/> Spills/Releases | <input type="checkbox"/> Waste Handling/Disposal | <input type="checkbox"/> MSDS's Reviewed |
| <input type="checkbox"/> Flying Particles | <input checked="" type="checkbox"/> Excavation Collapse | <input checked="" type="checkbox"/> Walk Around Site Assessment |
| <input type="checkbox"/> Overhead Power Lines | <input type="checkbox"/> _____ | <input type="checkbox"/> _____ |

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

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

EMERGENCY PREPARATIONS

- Muster Areas Communication Methods Means of Egress Emergency Equipment

Additional Topics Covered:

Attendees (Signature)/Company	Attendees (Signature)/Company
<u>[Signature]</u>	<u>David Carlson</u>
<u>[Signature]</u>	<u>Tom Cahill</u>
<u>[Signature]</u>	<u>[Signature]</u>
<u>[Signature]</u>	<u>[Signature]</u>
<u>[Signature]</u>	<u>[Signature]</u>

Other Considerations and Field Notes:

James Merrill
[Signature]

BISON OILWELL CEMENTING JOB SAFETY ANALYSIS WORKSHEET



		<ul style="list-style-type: none"> -Deploy spill berms and buckets 	
8. Drop plug	Slips, trips, falls. Miscommunication between pump operator and cementer, pressure against a closed stop	<ul style="list-style-type: none"> -Utilize 3 points of contact while descending/climbing ladder and stairs -Have visual contact between cementer and pump operator before pump is engaged 	KLC
9. Displacement	Unexpected pressure associated with resuming of pumping, casing hydrating from hole, serious injury from high pressure line failure or catastrophic equipment failure.	<ul style="list-style-type: none"> -Ensure rig floor remains clear and non-essential personnel stay clear from buffer area -Pump operator monitors pump pressure constantly -Utilize proper PPE 	KLC
10. Bump plug-Test float and release pressure	Pressure jumps before expected (calculated) displacement. Pressure jumps rapidly and higher than expected	<ul style="list-style-type: none"> -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 	KLC
11. Pressure test casing (if required)	Test to: PSI- <input type="text"/> FOR: MIN- <input type="text"/> Serious injury from high pressure line or catastrophic equipment failure	<ul style="list-style-type: none"> -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	<ul style="list-style-type: none"> -Utilize stakes or portable tank manifold to secure hoses -Use proper lifting technique (2 man lift, lift with legs, plan your route) 	KLC
13. Depart location	Other traffic and personnel and location, overhead lines	<ul style="list-style-type: none"> -All Bison crew member walk the planned exit route to access possible obstacles and hazards -Utilize spotters while backing 	KLC
OTHER HAZARDS SPECIFIC TO LOCATION OR ENVIRONMENT NOT ADDRESSED ABOVE:			
DESIGNATED EMERGENCY MUSTER AREA: <input type="text" value="access road"/>		NEAREST EMERGENCY MEDICAL FACILITY (OTHER THAN 911): <input type="text" value="Longmont"/>	

MO 318

BISON OILWELL CEMENTING JOB SAFETY ANALYSIS WORKSHEET



JOB/TASK: SURFACE CASING CEMENTING		CEMENTER/SUPERVISOR: Kirk Kallhoff		PAGE: 1	OF: 2
WELL NAME: State 1d-16h		RIG #	h&p 278	LOCATION: 34-7	DATE: 3-19-13
OPERATOR: Encarna		CONSULTANT: Kevin		INVOICE #: 11713	
<p>PPE REQUIRED: <input checked="" type="checkbox"/> Hard Hat <input checked="" type="checkbox"/> Safety Glasses <input checked="" type="checkbox"/> Safety Toe Boots <input checked="" type="checkbox"/> Impact Gloves</p> <p><input type="checkbox"/> FR Coveralls <input type="checkbox"/> Reflective Vest</p> <p>ADDITIONAL PPE (based on job specific hazards): <input type="checkbox"/> Goggles <input type="checkbox"/> Air Purifying Respirator <input type="checkbox"/> Supplied Air Respirator <input type="checkbox"/> Chemical Resistant Gloves <input type="checkbox"/> Personal H2S Monitor <input type="checkbox"/> Chemical Resistant Clothing <input type="checkbox"/> Personal Methane Monitor</p>					
JOB STEPS			POTENTIAL HAZARDS		
1. Review ISA			Misunderstanding		
2. Conduct pre job safety meeting			Misunderstanding		
3. Move trucks in and rig up equipment			Other traffic on location, overhead lines, pinch points, heavy lifting, slips/falls		
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		
5. Connect Cement head/swage/jnh, chickens and hoses.			Working in a congested area, pinch points, swinging hammers, slippery rig floor		
6. Pressure test lines			Equipment falling under high pressures		
Test to: <input type="text" value="800"/> PSI Maximum pressure allowed for job: <input type="text" value="2500"/> PSI			Pressure relief valve set to: <input type="text" value="1750"/> PSI Max. pump pressure: <input type="text" value="3000"/> PSI		
7. Pump Spacer (dye marker)/Mix and Pump Cement			Serious injury from high pressure line failure or catastrophic equipment failure. Casing hydraulic failure from hole, causing injury. Burns or skin irritation from splashing cement, uncontrolled spills		
			-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 obtain signature for authorization to proceed -Identify and address short service employees (SSE) who are on location -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 -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		
			-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>		
			-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 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		
			REVIEWED BY: <i>KK</i>		