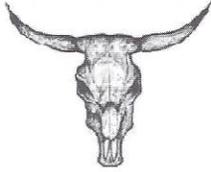


BISON OIL WELL CEMENTING, INC.

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



INVOICE #
 LOCATION
 FOREMAN

11203
 70 Ranch
 Brad Kosinski

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY
3-6-13	State Peterson 2c-20H	20	5N	63W	Weld
BILL TO	CONSULTANT				
Encana	Dennis / Cody				
OWNER	RIG NAME & NUMBER				
Encana	Ensign 135				
MAILING ADDRESS	DISTANCE TO LOCATION	UNITS ON LOCATION			
	23 miles	102/3106,4017			
CITY	TIME REQUESTED	TIME ARRIVED ON LOCATION			
	10:30 AM	9:20 AM			
STATE, ZIP	TIME LEFT LOCATION				
	3:00 pm				

WELL DATA			Cement Makeup			
HOLE SIZE	TUBING SIZE	PERFORATIONS	Cement Blend	BFN III 3% BCCA-1.2516/sk BFLA-1		
12 1/4			Cement - Specs	lbs	Yield	Water Requirements
TOTAL DEPTH	TUBING DEPTH	SHOTS/FT		15.2	1.27	5.89
992			Annulus Factor	Capacity Factor		
CASING SIZE	TUBING WEIGHT	OPEN HOLE	3131	.0758		
9 5/8			TYPE OF TREATMENT <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 % Excess <input type="text" value="60"/> BBL to Pit <input type="text" value="25"/>			
997.04						
CASING WEIGHT	PACKER DEPTH					
40 lbs						
CASING CONDITION	<input type="text" value="Good"/>					
Max Rate	<input type="text" value="60"/>					
Max Pressure	<input type="text" value="2500"/>					

DESCRIPTION OF JOB EVENTS

MZ Ru. Safety Meeting Circ 30 bbls H₂O with KCL + Blue Dye in 2nd 10 bbls
 Mix + pump 60% Excess = 430 sks 97.6 bbls of Slurry at 15.2 lbs 1.27 yield
 Drop plug, Dis 72.2 bbls H₂O Bump plug at 500 psi over Lift Psi wait 5 min
 then bleed off psi wash up rig down

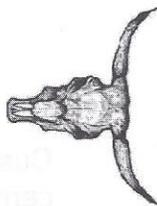
X Donald E. Ehlman
 Authorization To Proceed

Encana Rep
 Title

X 3-6-13
 Date

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 LOCATION
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11203
 70 Ranch
 Bruce Kozinski

Treatment Report Page 2

DESCRIPTION OF JOB EVENTS

	Displace 1			Displace 2			Displace 3			Displace 4			Displace 5		
	BLS	Time	PSI	BLS	Time	PSI	BLS	Time	PSI	BLS	Time	PSI	BLS	Time	PSI
Safety Meeting															
MIRU		1:00pm													
CIRCULATE		12:45pm													
Drop Plug		1:36pm													
	0	2:13pm	310	0			0			0			0		
	10	2:16pm	380	10			10			10			10		
	20	2:16pm	390	20			20			20			20		
	30	2:20pm	420	30			30			30			30		
	40	2:22pm	510	40			40			40			40		
	50	2:24pm	650	50			50			50			50		
M & P	60	2:27pm	680	60			60			60			60		
	70	2:31pm	970	70			70			70			70		
	80			80			80			80			80		
	90			90			90			90			90		
	100			100			100			100			100		
	110			110			110			110			110		
	120			120			120			120			120		
	130			130			130			130			130		
	140			140			140			140			140		
	150			150			150			150			150		

Notes:

Saft meeting 1:00pm since 1:36pm Cement 1:44 pm to 2:13pm Drop plug 2:13 Dis 2:13pm

Float Collar did Hold

used 60% Excess = 430 stks 97.6 bbls of Slurry

25 bbls of Slurry to pit.

X Dennis Zylstra
 Work Performed

X Encarna Rep
 Title

X 3-6-13
 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 3-6-13 Invoice Number 11203
 Invoice Amount 12,413.50 Well Permit Number State Peterson 2c-2011
 Well Name State Peterson Well Type gas/oil
 Well Location 70 Ranch Well Number State Peterson 2c-2011
 County Weld Lease _____
 SEC/TWP/RNG 20-5N-63W Job Type Surface
 State Colorado Company Name Encaner
 Supervisor Name Brad Kosinski Customer Representative Dennis/Coody
 Customer Phone Number _____

Employee Name
Brad
Calvin
Monte
Mark

 Total Exposure Hours 20 hrs

Exposure Hours (Per Employee)
5
5
5
5
X
 Did we encounter any problems on this job? Yes 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
_____ Personnel -	Did our personnel perform to your satisfaction ?
_____ Equipment -	Did our equipment perform to your satisfaction ?
_____ Job Design -	Did we perform the job to the agreed upon design ?
_____ Product / Material -	Did our products and materials perform as you expected ?
_____ Health & Safety -	Did we perform in a safe and careful manner (Pre / post mtgs, PPE, TSMR, etc..) ?
_____ Environmental -	Did we perform in an environmentally sound manner (Spills, leaks, cleanup, etc..) ?
_____ Timeliness -	Was job performed as scheduled (On time to site, accessible to customer, completed when expected)?
_____ Condition / Appearance -	Did the equipment condition and appearance meet your expectation?
_____ 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:
 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:
No Complaints. Good job!

THE INFORMATION HEREIN IS CORRECT -
Dennis Eple 3-6-13
 Customer Representative's Signature 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 11203

Date 3-6-13 Time _____ AM PM Meeting Facilitator Brad Kosinski

Facility Name and Location _____ Work to be Undertaken Surface

Nearest Emergency Medical Service Number (Other than 911) Greeley Co.

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 type="checkbox"/> Positions of People | <input 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 type="checkbox"/> Slips/Trips/Falls | <input type="checkbox"/> Overhead work/suspended Loads/Chains/Slings | <input checked="" type="checkbox"/> Walking/Working Surfaces |
| <input type="checkbox"/> Extreme Heat/Cold | <input type="checkbox"/> Trapped Pressure | <input type="checkbox"/> Noise Levels |
| <input type="checkbox"/> Electrical Current | <input 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 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 checked="" type="checkbox"/> Tinted Lenses | <input checked="" type="checkbox"/> Chemical Resistant Gloves | <input checked="" type="checkbox"/> Rubber Boots | <input type="checkbox"/> Air Purifying Respirator |
| <input checked="" type="checkbox"/> Goggles | <input checked="" type="checkbox"/> Heat Resistant Gloves | <input type="checkbox"/> Over Boots | <input type="checkbox"/> Supplied Air Respirator |
| <input type="checkbox"/> Faceshield | <input checked="" 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>Brad</u>	<u>Math [Signature] (ECA)</u>
<u>Calvin</u>	<u>Vicki Leonard (ECA)</u>
<u>Monte</u>	<u>[Signature] ENSIGN</u>
<u>Mark Schuler</u>	<u>[Signature] ENSIGN</u>
<u>James Dym ENSIGN</u>	
<u>[Signature] ENSIGN</u>	

Other Considerations and Field Notes:

Dennis Epha ENSIGN
[Signature] ENSIGN

BISON OILWELL CEMENTING JOB SAFETY ANALYSIS WORKSHEET



JOB/TASK: SURFACE CASING CEMENTING		CEMENTER/SUPERVISOR: Brad Kosinski		PAGE: 1	OF: 2
WELL NAME: Stat Peterson 2c-20h		RIG #: Ensign 135	LOCATION: 70 Ranch	DATE: 3-6-13	
OPERATOR: Encana		CONSULTANT: Denis/Cody		INVOICE #: 11203	
PPE REQUIRED: <ul style="list-style-type: none"> <input type="checkbox"/> Hard Hat <input type="checkbox"/> Safety Glasses <input type="checkbox"/> Steel Toe Boots <input type="checkbox"/> Impact Gloves 		ADDITIONAL PPE (based on job specific hazards) <ul style="list-style-type: none"> <input type="checkbox"/> FR Coveralls <input type="checkbox"/> Reflective Vest <input type="checkbox"/> Goggles <input type="checkbox"/> Faceshield <input type="checkbox"/> Chemical Resistant Gloves <input type="checkbox"/> Chemical Resistant Clothing 		RECOMMENDED ACTION OR PROCEDURE <ul style="list-style-type: none"> <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		Clarify job and associated hazards and safety concerns BK	
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 obtain signature for authorization to proceed -Identify and address short service employees (SSE) who are on location BK	
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 -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 BK	
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		-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> BK	
5. Connect Cement head/swager/pin, chickens and hoses.		Working in a congested area, pinch points, swinging hammers, slippery rig floor		-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 BK	
6. Pressure test lines		Equipment falling under high pressures		-Ensure 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 Pressure relief valve set to: 2500 Max. pump pressure: 7500 BK	
7. Pump Spacer (dye marker)/Mix and Pump Cement		Serious injury from high pressure line failure or catastrophic equipment failure. Casing hydraulics 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 BK	

BISON OILWELL CEMENTING JOB SAFETY ANALYSIS WORKSHEET



		<ul style="list-style-type: none"> -Deploy spill berms and buckets 	BK
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 	BK
9. Displacement	Unexpected pressure associated with resuming of pumping, casing hydraulicking 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 	BK
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 	BK
11. Pressure test casing (if required)	<p>Test to: <input type="text" value="n/a"/> PSI</p> <p>FOR: MIN- <input type="text"/></p>	<ul style="list-style-type: none"> -Ensure rig floor remains clear and non-essential personnel stay clear from the buffer area 	BK
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) 	BK
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 	BK
OTHER HAZARDS SPECIFIC TO LOCATION OR ENVIRONMENT NOT ADDRESSED ABOVE:			BK
DESIGNATED EMERGENCY MUSTER AREA: Rigs Muster Area		NEAREST EMERGENCY MEDICAL FACILITY (OTHER THAN 911): Greely Co	

State Peterson 2C-20H

M/D TOTCO 2000 SERIES

