

APPENDIX 5

Western Fibreglass Quality Control Folder for 08-35-63-11 Pipeline Construction

From: [REDACTED]@westernfiberglass.net>
Sent: Tuesday, January 03, 2012 10:41 AM
To: [REDACTED]
Subject: RE: 2006 Documentation requested by ERCB
Attachments: Scanned From Western Fiberglass Scanner; LP_installation.pdf

Yes installation was Jan. 15 to Feb. 13 2007.

As far as training for [REDACTED] there is no official ticket in place from the factory at this time. We follow the manufacturer's installation procedures that were set up with both the factory as well as Western Fiberglass. [REDACTED] was hired by Western Fiberglass in 2005 as an Installation Technician. [REDACTED] previously worked for a pipeline contractor in Estevan Sask. Installing fiberglass pipe before coming to Western. Along with the previous knowledge that [REDACTED] had on fiberglass installs he was sent to the field on a number of projects with one of Western's existing technicians as well before he went on his own.

Best Regards,

WESTERN 
FIBERGLASS
128-37565 Hwy.2 Red Deer County, Ab. T4E 1B4
P (403) 347-4682 F (403) 346-6006 C 588-2072
E-Mail: [REDACTED]@westernfiberglass.net
Web Address: www.westernfiberglass.net

From: [REDACTED] [mailto:[REDACTED]@Pengrowth.com]
Sent: Tuesday, January 03, 2012 10:19 AM
To: [REDACTED]@westernfiberglass.net
Subject: RE: 2006 Documentation requested by ERCB

Yes, it was actually installed at the beginning of 2007.

From: [REDACTED] [mailto:[REDACTED]@westernfiberglass.net]
Sent: Tuesday, January 03, 2012 10:03 AM
To: [REDACTED]
Subject: RE: 2006 Documentation requested by ERCB

[REDACTED] was that line from 8-35 to 13-36-63-11 W5

From: [REDACTED] [mailto:[REDACTED]@Pengrowth.com]
Sent: Tuesday, January 03, 2012 9:38 AM
To: [REDACTED]@telus.net); [REDACTED]@flint-energy.com); [REDACTED]@westernfiberglass.net'

NOV FiberGlass Systems

6803 Diamond Ct
Colleyville, TX 76034

Mobile: [REDACTED]

Fax: [REDACTED]

Email: [REDACTED]

October 6, 2010

[REDACTED]
Western Fiberglass
#128-37565 Hwy 2
Red Deer, Alberta
Canada T4E 1B4

Re: CERTIFICATIONS

Dear [REDACTED]

This letter confirms that WESTERN FIBERGLASS PIPE SALES, LTD. has been authorized distributor in good standing of the Star @ GRE piping product line since June 6, 1983.

WESTERN FIBERGLASS PIPE SALES, LTD. is an approved installer of these products with a current Quality Control System and qualified shop and installation technicians; and field supervisors.

Sincerely,

[REDACTED]

[REDACTED]

cc:

[REDACTED]



WESTERN FIBERGLASS STAR MATERIAL PIPE SALES LTD. Q.C. REPORT

Red Deer (403) 347-4682
Estevan (306) 634-4950
www.westernfiberglass.net

PROJECT: Size 8" Star 1250 series 2987 meters CONSTRUCTION DATES: Jan. 15 to Feb. 13 2007
CUSTOMER: Pengrowth Corporation AREA: Judy Creek Ab.
CONTACT: [REDACTED] LOCATION: 8-35 to 13-36-63-11 W5
TELEPHONE NO: [REDACTED] FIELD CONTACT: [REDACTED]
FAX NO: [REDACTED] CONTRACTOR: Flint

MATERIAL AND PRODUCT INFORMATION:

THREAD SIZE	DESCRIPTION	MAX. OPER. TEMP.	MAX. TEST PRESSURE
8-5/8"	Star Aliphatic Amine 8rd. thread line pipe	93 C	8612 KPA
	(mm) ID-196.6 OD-214.4 WT-8.9 MIN/WT-8.01		
8-5/8"	Flanges Aliphatic Amine 8rd. thread ansi 300/	93 C	8612 KPA
8-5/8"	Fittings Aliphatic Amine 8rd. thread	93 C	8612 KPA
8-5/8"	Pup Joints Aliphatic Amine 8rd. thread	93 C	8612 KPA
	Bolt up (studs B7M nuts 2HM Gaskets flex .316		
	Thread Sealant Jet Lube STARtec		
	Tracer wire #10 poly coated copper		

GENERAL STATEMENTS:

All complete prefabricated fiberglass spools have been tested to the factory recommended maximum test pressures for a minimum of 4 hours at Western Fiberglass / Red Deer, Alberta; In accordance with CSA Z-66.2 and will be accompanied by a copy of the pressure gage calibration test certificate.

Any field fabrication, alterations or incomplete spools will be documented in the accompanying Quality Control Drawings and may be (re) pressure tested on location if requested by the customer.

All Western Fiberglass Manufactured fiberglass pup joints are pressure tested to the maximum allowed pressure at Western Fiberglass and will be accompanied by a Pup Joint Quality Control Sheet.

Please call me if you have any questions or concerns.

Sincerely,


Western Fiberglass Pipe Sales Ltd.




WESTERN FIBERGLASS
PIPE SALES LTD.

PIPELINE INSTALLATION
Q.C. REPORT

Red Deer (403) 347-4682
Estevan (306) 634-4950
www.westernfiberglass.net

CUSTOMER: Pengrowth AREA: Judy Creek AB DATE (M/D/Y): Jan 17/07
LOCATION (FROM): 13-36-63-11 LOCATION (TO): 8-35-63-11 CONTRACTOR: Flint

	SIZE (INCH)	SERIES	TEST PRESSURE (PSI)	BRAND
PIPE:	8 5/8"	1250	1250	Star

JOINT NUMBER	THREAD STANDOFF	QUALITY CONTROL SUPERVISOR	COMMENTS
1	2		8" 300 Flange to 5' pup (04-28)
2			5' pup to 90° elbow 1250"
3			90° elbow to 8 5/8" 1250 Star
4			8 5/8" 1250 Star to 8 5/8" 1250 Star
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			in 12" casing through wet area
28			
29			
30	✓		✓



WESTERN FIBERGLASS
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PIPELINE INSTALLATION
Q.C. REPORT

Red Deer (403) 347-4682
Estevan (306) 634-4950
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CUSTOMER: Pengrowth AREA: Judy Creek DATE (M/D/Y): Jan 17/07
LOCATION (FROM): 13-36-63-11 LOCATION (TO): 8-35-63-11 CONTRACTOR: Flint

	SIZE (INCH)	SERIES	TEST PRESSURE (PSI)	BRAND
PIPE:	8 3/8"	1250	1250	Star

JOINT NUMBER	THREAD STANDOFF	QUALITY CONTROL SUPERVISER	COMMENTS
31	2		8 3/8 1250 Star to 8 3/8 1250 Star
32			
33			
34			
35			
36			wet cure
37			
38			
39			
40			-in 12" casting
41			
42			
43			
44			
45			
46			
47			
48			
49			
50			
51			
52			
53			
54			
55			
56			
57			
58			
59			
60	✓		✓



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PIPELINE INSTALLATION
Q.C. REPORT

Red Deer (403) 347-4682
Estevan (306) 634-4950
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CUSTOMER: Pengrowth AREA: Tudy Creek DATE (M/D/Y): Jan 17/07
LOCATION (FROM): B-36-63-11 LOCATION (TO): B-35-63-11 CONTRACTOR: Flint

	SIZE (INCH)	SERIES	TEST PRESSURE (PSI)	BRAND
PIPE:	<u>8 5/8"</u>	<u>1250</u>	<u>1250</u>	<u>Star</u>

JOINT NUMBER	THREAD STANDOFF	QUALITY CONTROL SUPERVISOR	COMMENTS
<u>61</u>	<u>2</u>	<u>[Signature]</u>	<u>8 5/8 1250 Star to 8 5/8 1250 Star</u>
<u>62</u>			
<u>63</u>			
<u>64</u>			
<u>65</u>			
<u>66</u>			
<u>67</u>			
<u>68</u>			
<u>69</u>			
<u>70</u>			
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<u>81</u>			
<u>82</u>			
<u>83</u>			
<u>84</u>			
<u>85</u>			
<u>86</u>			
<u>87</u>			
<u>88</u>			
<u>89</u>			
<u>90</u>	<u>↓</u>		<u>✓</u>




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PIPELINE INSTALLATION
Q.C. REPORT

Red Deer (403) 347-4682
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CUSTOMER: Perrygoth AREA: Judy Creek DATE (M/D/Y): Jan 17/07
LOCATION (FROM): 13-36-63-11 LOCATION (TO): 8-35-63-11 CONTRACTOR: Flint

	SIZE (INCH)	SERIES	TEST PRESSURE (PSI)	BRAND
PIPE:	8 5/8	1250	1250	Star

JOINT NUMBER	THREAD STANDOFF	QUALITY CONTROL SUPERVISOR	COMMENTS
91	2		8 5/8" 1250 Star to 8 5/8" 1250 Star
92			
93			
94			
95			
96			
97			
98			
99			
100			
101			
102			
103			
104			
105			
106			
107			
108			
109			
110			
111			
112			
113			
114			
115			
116			
117			
118			
119			
120	✓		✓



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PIPELINE INSTALLATION
Q.C. REPORT

Red Deer (403) 347-4682
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CUSTOMER: Pengrowth AREA: Turkey Creek DATE (M/D/Y): Jun 17/07
LOCATION (FROM): 13-36-63-11 LOCATION (TO): 8-35-63-11 CONTRACTOR: Flint

	SIZE (INCH)	SERIES	TEST PRESSURE (PSI)	BRAND
PIPE:	8 5/8	1250	1250	Star

JOINT NUMBER	THREAD STANDOFF	QUALITY CONTROL SUPERVISOR	COMMENTS
121	2	<i>[Signature]</i>	8 5/8 1250 Star to 8 5/8 1250 Star.
122			in 12" casing
123			
124			
125			- Connection
126			121-145 in casing
127			
128			
129			- inserted with
130			CFC. wire line
131			Jan 29/07
132			
133			
134			
135			
136			
137			
138			
139			
140			
141			
142			
143			
144			in 12" casing
145			
146			
147			
148			
149			
150	✓		✓ - in 12" casing



WESTERN FIBERGLASS PIPELINE INSTALLATION PIPE SALES LTD. Q.C. REPORT

Red Deer (403) 347-4682
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CUSTOMER: Perryville AREA: Turkey Creek DATE (M/D/Y): Jun 17/07
LOCATION (FROM): 13-36-63-11 LOCATION (TO): 8-35-63-11 CONTRACTOR: Fleet

	SIZE (INCH)	SERIES	TEST PRESSURE (PSI)	BRAND
PIPE:	8 5/8	1250	1250	Star.

JOINT NUMBER	THREAD STANDOFF	QUALITY CONTROL SUPERVISER	COMMENTS
151			8 5/8 1250 Star to 8 5/8 1250 Star
152			
153			
154			12" cased bore through beaver dam
155			
156			
157			
158			- Connection 150-161 in casing
159			
160			
161			↓
162			- in 12" casing
163			
164			
165			
166			
167			
168			
169			
170			↓
171			8 5/8 1250 Star to 15' pup (06-04)
172			15' pup to coupling
173			coupling to 7' pup (04-34)
174			7' pup to coupling
175			coupling to 8' pup
176			8' pup to 90° elbow 1250
177			90° elbow to 3' pup (05-07-15)
178			3' pup to coupling
179			coupling to 6' pup (04-07-08)
180			6' pup to 8" 300 Flange



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PIPELINE INSTALLATION
Q.C. REPORT

Red Deer (403) 347-4682
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CUSTOMER: Perrygrowth AREA: Irby Creek DATE (M/D/Y): Jun 19/07
LOCATION (FROM): 13-36-53-11 LOCATION (TO): B-35-63-11 CONTRACTOR: Flat

	SIZE (INCH)	SERIES	TEST PRESSURE (PSI)	BRAND
PIPE:	8 3/8	1250	1250	Star

JOINT NUMBER	THREAD STANDOFF	QUALITY CONTROL SUPERVISOR	COMMENTS
1 A	2		8" 300 flange to 5' pup (04-46)
2 A			5' pup to 90° elbow 1250#
3 A			90° elbow to 8 3/8 1250 Star
4 A			8 3/8 1250 Star to 8 3/8 1250 Star
5 A			
6 A			
7 A			
8 A			
9 A			
10 A			
11 A			
12 A			
13 A			
14 A			
15 A			
16 A			
17 A			
18 A			
19 A			
20 A			
21 A			
22 A			
23 A			
24 A			
25 A			
26 A			- in 12" casing
27 A			
28 A			wet area
29 A			
30 A	✓		✓



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PIPELINE INSTALLATION
Q.C. REPORT

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CUSTOMER: Pengrowth AREA: Judy Creek DATE (M/D/Y): Jun 17/07
LOCATION (FROM): 13-36-63-11 LOCATION (TO): 8-35-63-11 CONTRACTOR: Flint

	SIZE (INCH)	SERIES	TEST PRESSURE (PSI)	BRAND
PIPE:	<u>8 5/8</u>	<u>1250</u>	<u>1250</u>	<u>Star</u>

JOINT NUMBER	THREAD STANDOFF	QUALITY CONTROL SUPERVISOR	COMMENTS
31 A	<u>2</u>	<u>[Signature]</u>	<u>8 5/8 1250 Star to 8 5/8 1250 Star</u>
32 A			
33 A			
34 A			
35 A			
36 A			
37 A			
38 A			
39 A			
40 A			
41 A			
42 A			
43 A			
44 A			
45 A			
46 A			
47 A			
48 A			
49 A			
50 A			
51 A			
52 A			
53 A			
54 A			
55 A			
56 A			
57 A			
58 A			
59 A			
60 A			



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PIPELINE INSTALLATION
Q.C. REPORT

Red Deer (403) 347-4682
Estevan (306) 634-4950
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CUSTOMER: Pemcor with AREA: Judy Creek DATE (M/D/Y): Aug 17/07
LOCATION (FROM): 13-36-63-11 LOCATION (TO): 8-35-63-11 CONTRACTOR: Flint

	SIZE (INCH)	SERIES	TEST PRESSURE (PSI)	BRAND
PIPE:	8 5/8	1250	1250	Star

JOINT NUMBER	THREAD STANDOFF	QUALITY CONTROL SUPERVISOR	COMMENTS
61 A	2		8 5/8 1250 Star to 8 5/8 1250 Star
62 A			
63 A			
64 A			
65 A			
66 A			
67 A			
68 A			
69 A			
70 A			
71 A			
72 A			
73 A			
74 A			
75 A			
76 A			
77 A			
78 A			
79 A			
80 A			
81 A			
82 A			
83 A			
84 A			
85 A			
86 A			
87 A			
88 A			
89 A			
90 A	✓		✓



WESTERN FIBERGLASS
PIPE SALES LTD.

PIPELINE INSTALLATION
Q.C. REPORT

Red Deer (403) 347-4682
Estevan (306) 634-4950
www.westernfiberglass.net

CUSTOMER: Pengrowth AREA: Judy Creek DATE (M/D/Y): Jan 17/07
LOCATION (FROM): 13-36-63-11 LOCATION (TO): 8-35-63-11 CONTRACTOR: Elmt

	SIZE (INCH)	SERIES	TEST PRESSURE (PSI)	BRAND
PIPE:	8 5/8	1250	1250	Star

JOINT NUMBER	THREAD STANDOFF	QUALITY CONTROL SUPERVISOR	COMMENTS
91 A	2		8 5/8 1250 Star to 8 5/8 1250 Star
92 A			
93 A			
94 A			
95 A			
96 A			
97 A			
98 A			
99 A	✓		
100 A	3		
101 A	2		
102 A			
103 A			
104 A			
105 A			
106 A			
107 A			
108 A			
109 A			
110 A			
111 A			
112 A			
113 A			
114 A			
115 A			
116 A			
117 A			
118 A			
119 A			
120 A	✓		



WESTERN FIBERGLASS
PIPE SALES LTD.

PIPELINE INSTALLATION
Q.C. REPORT

Red Deer (403) 347-4682
Estevan (306) 634-4950
www.westernfiberglass.net

CUSTOMER: Pengrowth AREA: Judy Creek DATE (M/D/Y): Jan 17/07
LOCATION (FROM): 13-36-63-11 LOCATION (TO): 8-35-63-11 CONTRACTOR: Flint

	SIZE (INCH)	SERIES	TEST PRESSURE (PSI)	BRAND
PIPE:	8 5/8	1250	1250	Star

JOINT NUMBER	THREAD STANDOFF	QUALITY CONTROL SUPERVISOR	COMMENTS
121 A	2	Corey <u>Bob</u>	8 5/8 1250 Star to 8 5/8 1250 Star
122 A			
123 A			
124 A			
125 A			- in 12" casing
126 A			
127 A			
128 A			- inserted with
129 A			CFC wire line
130 A			Feb 3/07
131 A			
132 A			
133 A			
134 A			
135 A			
136 A			
137 A			
138 A			
139 A			
140 A			
141 A			
142 A			
143 A			
144 A			- in 12" casing
145 A			
146 A			
147 A			
148 A			
149 A			
150 A	✓		✓ - in 12" casing



WESTERN FIBERGLASS PIPELINE INSTALLATION
PIPE SALES LTD. O.C. REPORT

Red Deer (403) 347-4682
Estevan (306) 634-4950
www.westernfiberglass.net

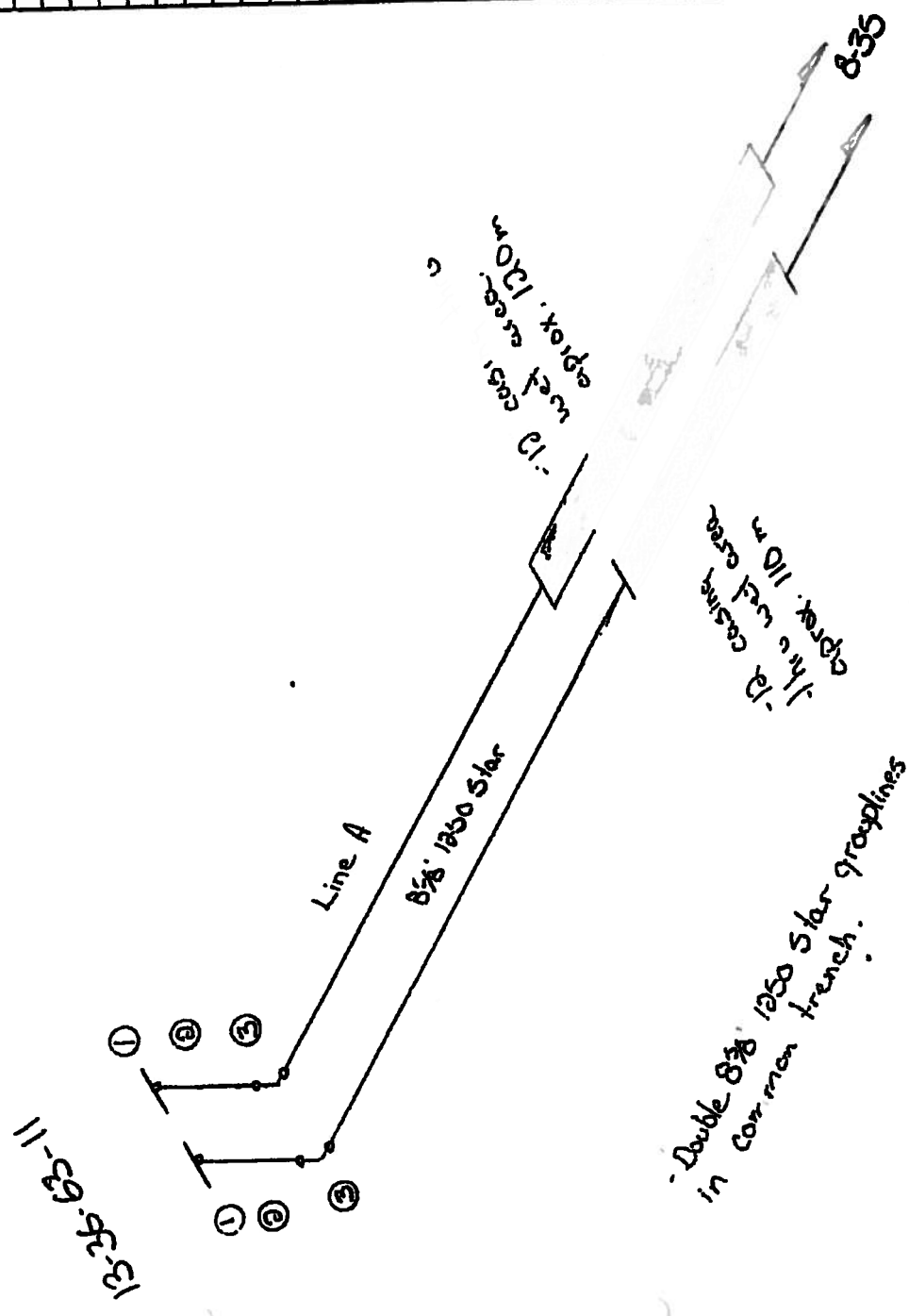
CUSTOMER: Pengrowth AREA: Judy Creek DATE (M/D/Y): Jun 17/07
LOCATION (FROM): 13.36-63-11 LOCATION (TO): 8.35-63-11 CONTRACTOR: Flint

PIPE:	SIZE (INCH)	SERIES	TEST PRESSURE (PSI)	BRAND
	8 5/8	1250	1250	Star.

JOINT NUMBER	THREAD STANDOFF	QUALITY CONTROL SUPERVISER	COMMENTS
151 A	2		8 5/8 1250 Star to 8 5/8 1250 Star.
152 A			
153 A			
154 A			
155 A			
156 A			
157 A			
158 A			
159 A			
160 A			
161 A			
162 A			
163 A			
164 A			
165 A			
166 A			
167 A			
168 A			
169 A			
170 A			
171 A			
172 A			
173 A			
174 A			
175 A			
176 A			

WESTERN FIREGLASS
 ESTEVAN, SK RED DEER, AB
 (403) 634-4950 (403) 347-4672
 www.westernfireglass.com

CUSTOMER: **Pengrowth** LOCATION: **Judy Creek** PROJECT: **13-36-63-11**
 DATE: **Aug 17/07** QUANTITY: **1** ORDER: **13-36-63-11**



SECTION				SECTION	
#	QTY	SIZE	TYPE	#	QTY
1	2	8"	340 Flange	17	
2	2	8 3/8"	5 Dup	18	
3	2	8 3/8"	90° Elbow 1250	19	
4				20	
5				21	
6				22	
7				23	
8				24	
9				25	
10				26	
11				27	
12				28	
13				29	
14				30	
15				31	
16				32	
17				33	
18				34	
19				35	
20				36	
21				37	
22				38	
23				39	
24				40	
25				41	
26				42	
27				43	
28				44	
29				45	
30				46	
31				47	
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33				49	
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35				51	
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74				90	
75				91	
76				92	
77				93	
78				94	
79				95	
80				96	
81				97	
82				98	
83				99	
84				100	



WESTERN FIBERGLASS
(800) 347-4682
www.westernfiberglass.com

ESTEVAN, SK RCD DESIG. AB
(403) 347-4682

CUSTOMER

Pengrowth

DATE

7/17/07

PROJECT

AREA

Int. Cms

EST.

2

QUANTITY

LOCATION

835-63-11

MARKING IN

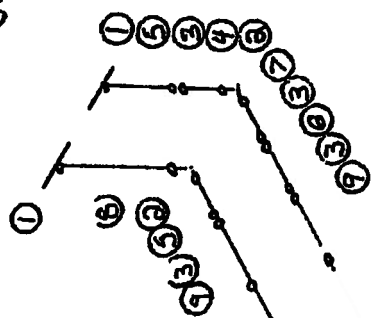
MARKING IN

PROJECT #

CODE #

CODE #

835-63-11



Line A
1" Casted bore
Bore down
oper 100m

Line A
2" Steel (CFC with lead)
oper 190m
Line A
2" Steel (CFC with lead)
oper 230m
Line A
2" Steel (CFC with lead)
oper 230m

MATERIAL				TYPE	
#	QTY	SIZE			
1	2	6"			3000 Flange
2	2	8"			90° Elbow 125A
3	4	"			Application
4	1	"			3' pup
5	2	"			6' pup
6	1	"			7' pup
7	1	"			8' pup
8	1	"			9' pup
9	2	"			15' pup
10					
11					
12					
13					
14					
15					
16					
17					
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24					
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28					
29					
30					
31					
32					
33					
34					
35					



Red Deer (403) 340-0442
Or (403) 357-8360
E-Mail cfc01@telus.net

CUSTOMER: Pengrowth AREA: Judy Creek DATE (M/D/Y): Apr 29/07
LOCATION (FROM): 8-35-6.3-11 LOCATION (TO): 13-36-3-11 OPERATOR: [Signature]

	SIZE (INCH)	SERIES OR SCHEDULE	MAX. TENSION (LBS.)
INSERTION PIPE:	12"		
CARRIER PIPE:	8 3/8	12.50	
BREAKER PLATE:			

LINE#	TIME	(FT) <input type="checkbox"/> (M) <input type="checkbox"/>	LINE WEIGHT (LBS)	COMMENTS
	11:20	206	520	
		600	230	
		500	250	
		400	220	
		300	190	
		200	130	
	11:27	100	90	Heavy Section pulled
				Through one heavy
		206	4720	4720 start in
		600	324140	
		500	4240	620. Saturated pull 7280
		400	3000	Break hose
		300	2810	363 Saturated pull back
		200	2600	To 368 try again
		100	2100	Still Saturated pull Back
		50	1400	To 368 try again still
		0		Saturated pull Back out
				and inspect pipe
				moved centralizer to collar
				218 Saturated pull to max



**Red Deer (403) 340-0442
Or (403) 357-8360
E-Mail efc01@telus.net**

CUSTOMER: 1-210-200-1166 AREA: North Coast DATE (M/D/Y): Feb 27
LOCATION (FROM): _____ LOCATION (TO): _____ OPERATOR: _____

	SIZE (INCH)	SERIES OR SCHEDULE	MAX. TENSION (LBS.)
INSERION PIPE:	5/8	3500	
CARRIER PIPE:	1 1/2		
BREAKER PLATE:			

[illegible]