



FLINT FIELD SERVICES LTD.

INTEGRATED. INTEGRAL.

**3315 - 41st Ave.
Whitecourt, AB T7S 1N7
Whitecourt Mechanical
780-778-5000**

Quality Control Records

Customer:

Pengrowth Corporation

Project:

P-JCP-06093a

Duel 214.4mm Fiberglass Oil Well Effluent Pipeline

Location:

08-35-63-11 To 13-36-63-11 W5M

Date:

March 8, 2007

Project Manager:

[REDACTED]

Job #:

201180441

SECTION 1

- QC Sign Off Sheet
- ✓ • Certificate of Authorization
- ✓ • Turnovers *Sign off Apr 07*
- ✓ • Design Specification & Engineered Drawings
- Emergency Forms
- ✓ • ABSA Data Reports, AB-83, AB-40, AB-90
- Non-Conformance Reports
- Licenses *P/L No 4218 Lene 116 & 117*
- Work Order Cards *EUB up*

P-JCP-6093a

AFE 200608025

Certificate of Authorization

Quality Control Program

Expiry Date: **April 19, 2008**

Reg. No.: **AQP-2994**

This is to certify that:

FLINT FIELD SERVICES LTD.

**4747 - 78A STREET CLOSE
RED DEER, ALBERTA**

having complied with the provisions of the SAFETY CODES ACT, is hereby authorized to:

**Construct, Repair/Alter ASME B31.1 Power Piping and ASME B31.3
Process Piping**

Construct, Repair/Alter ASME B31.1 Boiler External Piping

**Repair/Alter ASME Section I Power Boilers, ASME Section IV Heating
Boilers and ASME Section VIII-1 Pressure Vessels**

at the SHOP and FIELD sites controlled from the above address.



Dated at Edmonton, this 6th day of May, 2005

A handwritten signature in black ink, appearing to read "Shan".

Chief Inspector and Administrator

Certificate No.: 4583



COMPLETION OF CONSTRUCTION

DECLARATION

NOTE: This declaration shall be completed and signed by the person responsible, in whole or in part, for the construction, installation, testing and inspection of the pressure piping system and forwarded to the Administrator/Chief Inspector.

- (1) Owner of Plant: PENGROWTH CORPORATION
Box 390 SWAN HILLS, ALBERTA T0G-2C0
(Name and Address)
- (2) Engineer or Contractor: FLINT FIELD SERVICES LTD
3315-41ST AVE WHITECOURT, ALBERTA T7S-1N7
(Name and Address)
- (3) Type of Plant: FIBERGLASS PIPELINES
- (4) Location of Plant: 8-35-63-11 To 13-36-63-11
(Sec, TWP, Rge)
- (5) Description of Pressure Piping System(s): DUAL 214.4mm X 8.90mm ALPHATIC
AMINE FIBERGLASS STAR SERIES 1250 PIPELINES WHICH GOES FROM
8-35-63-11 HEADER TO 13-36-63-11 HEADER. THESE TWO PIPE-
LINES WILL BE OIL EFFLUENT LINES

STATEMENT OF COMPLIANCE

I, the undersigned, declare that the described pressure piping system, approved under design registration number _____, complies in all respects with the regulations for construction, installation, testing and inspection and that all applicable pressure piping test data reports have been delivered to the owner.

[Signature] [Print Name] [Title] MARCH 8, 2007
(Signature) (Print Name) (Title) (Date)

FLINT FIELD SERVICES LTD 3315-41ST AVE WHITECOURT, ALBERTA T7S-1N7
(Company) (Address) (City, Postal Code)



FLINT ENERGY SERVICES LTD.

INTEGRATED. INTEGRAL.

DECLARATION - COMPLETION AND TURNOVER

102 (11/04) REV 0

REPORT NUMBER: <u>P-JCP-060936</u>	DATE (mm/dd/yy): <u>03/08/07</u>
FLINT PROJECT NUMBER: <u>201180441</u>	PROJECT: <u>Build 2414mm Fiberglass Oil Effluent Lines</u>
LOCATION: <u>8-35-63-11 To 13-36-63-11</u>	OTHER (Specify):
DESCRIPTION OF TURNOVER: <u>Two 2414mm x 8.90mm ALIPHATIC AMINE FIBERGLASS STAR SERIES 1250 PIPELINES IN COMMON DITCH. PIPELINES GOES FROM 8-35-63-11 HEADER TO 13-36-63-11 HEADER. THESE TWO PIPELINES WILL BE OIL EFFLUENT LINES</u>	
COMMENTS:	
COMPLETION DECLARATION	
I, THE UNDERSIGNED, HEREBY CERTIFY THAT ALL WORK DESCRIBED HEREIN HAS BEEN COMPLETED IN ACCORDANCE WITH THE PROVIDED DOCUMENTS AND THAT DEFENSES AND PROCEEDINGS HAVE BEEN EXHAUSTED. I HAVE NOTIFIED THE OWNER OF THE COMPLETION OF THE WORK AND THE OWNER HAS ACCEPTED THE COMPLETION OF THE WORK.	
FLINT QUALITY REPRESENTATIVE	SIGNATURE
PRINT/ TYPE NAME: [Redacted]	[Redacted]
TITLE: [Redacted]	[Redacted]
DATE (mm/dd/yy): <u>03/08/07</u>	
OWNER / OWNER'S REPRESENTATIVE AGREEMENT	
OWNER / OWNER'S REPRESENTATIVE	SIGNATURE
PRINT/ TYPE NAME: [Redacted]	[Redacted]
TITLE: [Redacted]	[Redacted]
DATE (mm/dd/yy): <u>03/11/07</u>	
OWNER / OWNER'S REPRESENTATIVE ACCEPTANCE OF TURNOVER	
I, THE UNDERSIGNED, HEREBY CERTIFY THAT ALL TURNOVER DEFENSES NOTED AS APPROPRIATE, UNDERSTAND AND ACCEPT THE QUALITY REQUIREMENTS AND SATISFACTION OF THE OWNER / OWNER'S REPRESENTATIVE.	
FLINT QUALITY REPRESENTATIVE	SIGNATURE
PRINT/ TYPE NAME: [Redacted]	[Redacted]
TITLE: [Redacted]	[Redacted]
DATE (mm/dd/yy): <u>03/08/07</u>	
OWNER / OWNER'S REPRESENTATIVE AGREEMENT	
OWNER / OWNER'S REPRESENTATIVE	SIGNATURE
PRINT/ TYPE NAME: [Redacted]	[Redacted]
TITLE: [Redacted]	[Redacted]
DATE (mm/dd/yy): <u>03/11/07</u>	

FLINT FIELD SERVICES LTD.



CONSTRUCTION SIGN - OFF

The undersigned confirms that all of the facilities & underground for

Project Name

DUEL 219.4mm FIBERGLASS OIL EFFLUENT PIPELINES
8-35-63-11 To 13-36-63-11

Have been installed as per the design drawings unless otherwise marked in red.

Note: Key drawing requiring "red lining" (P & ID's, plot plans, underground, etc.) are included in the QC turnover Documentation package.


Flint Construction Superintendent

MARCH 8, 2007

Date

CONSTRUCTION DATA REPORT FOR PIPING SYSTEMS

In accordance with the provisions of the Safety Codes Act

Complete both sides of this Form

- | Drawing No.
Rev. No.
Line No. | Fluid
(Air/Stm.
Etc.) | Des.
Press.
kPa | Des.
Temp.
°C | Test
Press.
kPa | Test
Medium | Pipe Mat'l
Spec. &
Grade | C.A.
num | Pipe NPS
&
Schedule | Flange
Material &
Rating | PWHT/
Preheat
Temp. °C | R.T.
% | Other
NDE |
|-------------------------------------|-----------------------------|-----------------------|---------------------|-----------------------|----------------|--------------------------------|-------------|---------------------------|--------------------------------|------------------------------|-----------|--------------|
| DRWG # 68922 | OIL WEL | 3450 | 529 | 4313 | WATER | ALIPHATIC | | 214.4mm | 3" 300 | N/A | N/A | N/A |
| REV. # 0 | FEEDWATER | | 93 | | METHANOL | AMINE FRP | | 8.90mm | ANSI | | | |
| LINE # 116 | | | | | | STAR SCRUB | | | RF FIBERGLASS | | | |
| LINE # 117 | | | | | | 1250 | | | FLANGE | | | |

Partial Data Reports, properly identified and certified by ABSA-authorized contractors, as listed below are attached to and form part of this Data Report ☐

No.	Line No.	Spool No.	Drg. No. (with Rev. No.)	Contractor (Name)	AQP No.	Expiry date

Remarks: Provide additional comments including noting any code work that was not performed by the ABSA- authorized contractor(s) supplying this document as a Partial Data Report but which must be completed by another ABSA-authorized contractor who assumes overall responsibility for conformance with the Safety Codes Act & Regulations and applicable ASME Codes, and who assures that all required code work is completed prior to putting the piping system into service.

Endorse certificate 'A' or 'B'

A. CERTIFICATE OF COMPLIANCE

Signed by the subcontractor when supplying this certificate as a
Partial Data Report

We certify that the statements in this Data Report are correct and that materials, construction and workmanship of the piping fabrication conform to the registered quality system and the applicable Piping code(s).

Date: _____
Subcontractor

Print Authorized Representative's Name _____ Signature _____

This certificate is not valid unless it forms part of a Final Data Report signed by Primary Contractor

B. CERTIFICATE OF COMPLIANCE

Signed by the primary contractor when supplying this certificate as a
Final Data Report

We certify that the statements in this Data Report are correct and that piping job no. P-JCP-060934 described in this Data Report was constructed in accordance with the Province of Alberta Safety Codes Act and Regulations, and applicable ASME Piping Code(s).

Date: MARCH 8/07 FLINT FIELD SERVICES LTD.
Primary Contractor

Print Authorized Representative's Name _____ Signature _____

CERTIFICATE OF INSPECTION

I, the undersigned, employed by Longwalk have inspected the piping job no. _____ described in this Construction Data Report and state that, to the best of my knowledge and belief, the Contractor has constructed this piping in accordance with the applicable Sections of the ASME Piping Codes and Province of Alberta Safety Codes Act and Regulations.

Date: April 17 _____ Date: _____
Print Owner's Inspector's Name _____ Owner's Inspector's Signature _____ Name: _____ Sign: _____

ABSA Safety Codes Officer
(BOILER EXTERNAL PIPING ONLY)

CSA Z662-03 Design Calculation**Job Number**
Job Description**P-JCP-06093a Pipeline - Judy Creek**
Installation of a two 8" Aliphatic Amine FRP Group Lines to replace the existing 12" carbon steel line.Revision: 0
Date: **2007-02-13**
AFE: **200608025****Location**
Line Number
License Number**08-35-63-11-W5 Group Line Header to 13-36-63-11-W5 Group Line Header**
116 / 117
4218**Input Data**

Nominal Pipe Size	8 inch	Design Pressure	3,450 kPa
Pipe Schedule	1250	Design Temperature	93 °C
Pipe OD	214.40 mm	Joint Type	Threaded
Nominal Pipe ID	196.60 mm	Location Class	-
Nominal Pipe Thickness	8.90 mm	Crossing Type	-
Service Fluid	Multiphase	Corrosion Allowance	0 mm
Thread Size	8 5/8 inch	Length	1,485 m

Material Properties

Material Type	Fibreglass
Material	Star FRP
95% LCL of LTHS	120.0 MPa
Manufacturing Factor	0.67
Service Factor	0.80
Joint Factor	-
Temperature Factor	-

Calculated Results

Maximum Design Pressure	5.561 MPa
Hoop Stress at MOP	- MPa
Stress Level at MOP	- %
Hoop Stress at Hydrotest	- MPa
Stress Level at Hydrotest	- %

Pressure Rating at 65.6 deg C	8,600 kPa
	1,250 psi

Hydrotest

Min Hydrotest Pressure	4,313 kPa	Test Duration	24.0 hours
	625 psi		
Max Hydrotest Pressure	6,469 kPa		
	938 psi		
Hydrotest Volume	45.098 m3		
	283.67 bbl		

Elevation Data

08-35-63-11 Hdr	1,039 m	
13-36-63-11 Hdr	1,022 m	
Delta	17 m	Aprox 170 kPa difference in head pressure
Low Point	1,016 m	230 kPa Impact

Pengrowth Corporation - Construction Supervisor

Field Services - Construction Foreman

RLS

UP TO
7 DIA

GROWTH R/W
64'



ISSUED FOR
CONSTRUCTION

NOTE: 116/4218 TO BE INSTALLED ON NORTH SIDE
117/4218 TO BE INSTALLED ON SOUTH SIDE

ING REVIEW

KEY COORDINATOR

CT ENGINEER

1.26/06

THIS DRAWING SHOWS CHANGES

MARCH 8, 2007

OPERATING AREA: JUDY CREEK
PLAN TYPE: SITE PLAN
FACILITY TYPE: VALVE SITE
IN: 13-36-63-11-5
PLAN: 1 OF 1

SCALE: 1:500

PALS SURVEYS AND ASSOCIATES LTD.
PH: 780-778-5559 FAX: 780-778-4326

DATE: FEB 14/88


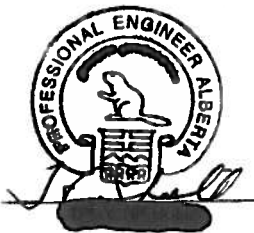

LAND REF:

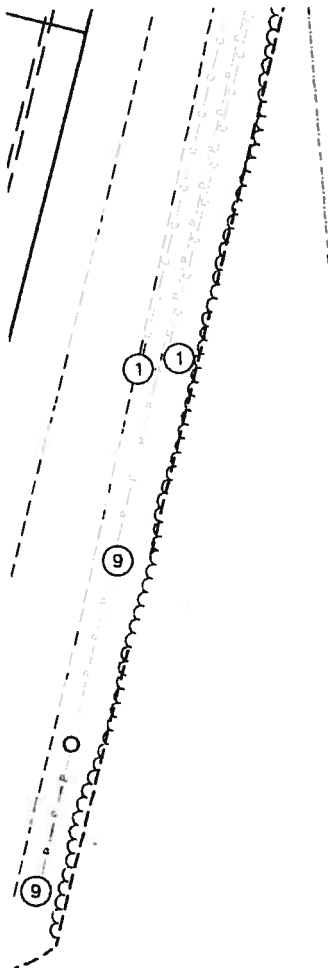
REVISION NO.: 14

DRAWING NO.: 61436

				CREEK	
219.1	PRODUCED WATER	STEEL	90	FROM 10+36+63+11 TO 04-02-64-11	38/8849
323.9	GROUPLINE	STEEL	4800	FROM 08-35-63-11 TO 13-36-63-11 (TO BE ABAND.)	6/14994
117.3	OIL WELL EFFLUENT	FIBREGLASS	5520	FROM 16-35-63-11 TO 08-03-63-11 (ABAND.)	25/9526
219.1	GROUPLINE	STEEL	0	FROM 04-24-63-11 TO 13-36-63-11 (ABAND.)	17/4218
				GRAVEL ROAD	
				CULVERT	
88.9	OIL WELL EFFLUENT	STEEL	0	FROM 16-35-63-11 TO 08-35-63-11 (ABAND.)	13/9526
114.3	MULTIPHASE	STEEL	0	FROM 01-02-63-11 TO 08-35-63-11 (ABAND.)	NO LICENSE
				CONTROL CABLE	
323.9	GROUPLINE	STEEL	4800	FROM 08-35-63-11 TO 13-36-63-11 (TO BE ABAND.)	6/14994
323.9	GROUPLINE	STEEL	0	FROM 08-35-63-11 TO 10-35-63-11 (ABAND.)	7/14994
60.3	SOLVENT	STEEL	34500	FROM 07-35-63-11 TO 04-01-64-11	1/21011
168.3	SOLVENT	STEEL	34500	FROM 04-06-64-11 TO 07-35-63-11	7/21068
168.3	SOLVENT	STEEL	34500	FROM 11-06-64-11 TO 12-29-63-11	2/21883
114.3	CHASE GAS	STEEL	34500	FROM 11-06-64-11 TO 12-29-63-11	1/21883
				CONTROL CABLE	
				GRAVEL ROAD	
				CONTROL CABLE	
88.9	PRODUCED WATER	STEEL	15200	FROM 05-36-63-11 TO 10-35-63-11	49/27891
323.9	GROUPLINE	STEEL	3450	FROM 08-35-63-11 TO 13-36-63-11	82/4218
				BERM	
				BERM	
				LOW FLOODED AREA	
				BERM	
				BERM	
323.9	GROUPLINE	STEEL	0	FROM 08-35-63-11 TO 10-35-63-11 (ABAND.)	7/14994
				BURIED CABLE	
				BURIED CABLE	
60.2	NATURAL GAS	STEEL	0	FROM 08-35-63-11 TO 08-35-63-11 (ABAND.)	36/14907
323.9	GROUPLINE	STEEL	0	FROM 08-35-63-11 TO 10-35-63-11 (ABAND.)	7/14994
				GRAVEL ROAD	
				BURIED CABLE	
88.9	OIL WELL EFFLUENT	STEEL	0	FROM 12-35-63-11 TO 05-35-63-11 (ABAND.)	16/9526
88.9	OIL WELL EFFLUENT	STEEL	0	FROM 04-35-63-11 TO 08-35-63-11 (ABAND.)	15/9526
				OVERHEAD POWERLINE	
SIZE	SUBSTANCE TYPE OF LINE	STRUCTURE MATERIAL	M.O.P.	DESCRIPTION	LINE/LICENSE

TABLE OF CROSSINGS FOR PIPE #2

DRAWING REVIEW  SURVEY COORDINATOR  PROJECT ENGINEER DATED: <u>Oct 26/06</u>	This Drawing Shows Changes  <u>MAY 13, 2007</u>		
	OPERATING AREA: JUDY CREEK PLAN TYPE: CONSTRUCTION PLAN FACILITY TYPE: OIL WELL EFFLUENT PIPELINES IN: 08-35 TO 13-36-63-11W5M PLAN: 1 OF 1		
	SCALE: 1:2000	PALS SURVEYS AND ASSOCIATES LTD. PH: 80 7 8 5559 FAX: 780 778 4326	
	DATE: MAY 15/06	LAND REF: PLA 770701 & 780127	
	IC NO.: P-JCP-06093a	REVISION NO.: 0	DRAWING NO.: 68922



S.E. 35-63-11

ISSUED FOR
CONSTRUCTION

N

THIS DRAWING REPLACES MANUALLY
DRAFTED DWG 58928 (REV.8)

NOTE: ITEM 40 USED AS CARRIER FOR ITEM 63
ITEM 52 USED AS CARRIER FOR ITEM 63
ITEM 44 USED AS CARRIER FOR ITEM 64

DRAWING REVIEW

SURVEY COORDINATOR

THIS DRAWING SHOWS CHANGES

MARCH 13, 2007

OPERATING AREA: JUDY CREEK
PLAN TYPE: SITE PLAN
FACILITY TYPE: MANIFOLD SITE
IN: 07-35-63-11 W5M
PLAN: 1 OF 1

ENGINEER

OCT 26/06

SCALE: 1:500

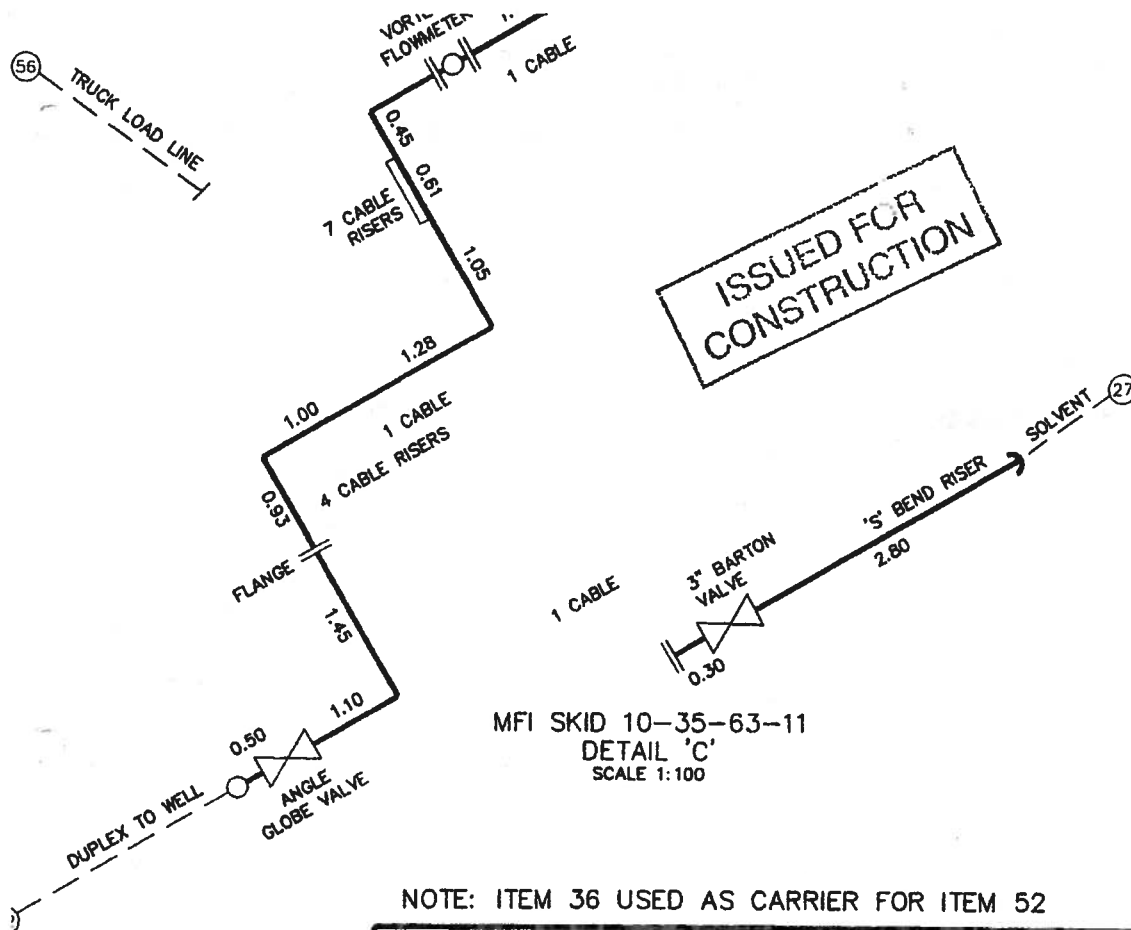
J. STUART ENGINEERING & SURVEYING LTD.

DATE: 93/10/08

LAND REF: - PIL 840042

REVISION NO.: 15

DRAWING NO.: 58928



DRAWING REVIEW SURVEYOR/COORDINATOR PROJECT ENGINEER DATED: <u>Oct 26/93</u>	OPERATING AREA: JUDY CREEK PLAN TYPE: SITE PLAN FACILITY TYPE: WELLSITE IN: 10-35-63-11-5 PLAN: 1 OF 1	
	SCALE: 1:500	PALS SURVEYS AND ASSOCIATES LTD. PH: 780-778-5559 FAX: 780-778-4326
	DATE: OCT. 14, 1993	LAND REF: MSL 10493
	REVISION NO.: 10	DRAWING NO.: 64829

PIPELINE PERMIT / LICENCE

PAGE ____ OF ____

TO: Arlene Wolden
FAX # (780) 553-7115
Total Number of Pages: 1
From: the CUI Applications Section

FILE NO.	08-2185
APPROVAL NO.	4218
AMEND ID	

APPLICANT		PENGROWTH CORPORATION		CODE	ORA3	CONSULTANT FOR THIS APPLICATION		AMEND ID		AC	
ADDRESS		2900, 240 - 4 AVENUE SW		CODE	0	ADDRESS		CODE			
CITY, TOWN OR VILLAGE		CALGARY		POSTAL CODE	T2P4H4	CITY, TOWN OR VILLAGE		POSTAL CODE			
CONTACT FOR APPLICATION		AB									
SUBSTANCE		OIL WELL EFFLUENT		CODE	OE	PAH		TELEPHONE			
						0.55		TECHNICAL STANDARD		Z662	

[illegible][illegible]

INSTALLATIONS	A C D	DIST. NO.	LOCATION					TYPE	POWER (MW)	F.M.	STAT	BOARD FEE	\$ 0
			LED	SEC	TWP	RGE	M						
												RECEIPT NO.	N/A
												AREA OFFICE	07

PERMIT WILL AUTOMATICALLY BECOME A LICENCE ON THIS DATE

PERMIT EXPIRY DATE

APPROVAL SIGNATURE

Alberta Endorsement

3) THE PERMIT WILL AUTOMATICALLY BECOME A LICENCE ON THIS DATE

PERMIT EXPIRY DATE

CP AMENDMENT APPROVAL EXPIRY DATE

DAY	MO.	YEAR
07	11	2007

APPROVAL
SIGNATURE

Alberta Energy and Utilities Board

THE UNITED STATES GOVERNMENT
TO THE ATTORNEY GENERAL, WASHINGTON

DAY 07 DATE MO. 11 YEAR 2006

TOTAL P. 01

EUB PIPELINE REPORT

Current to Tuesday, October 31, 2006

LICENCE #	LINE #	ADACUS #	COMPANY NAME	APPROVAL DATE	FR LBD	FR SEC	FR TWP	FR RGE	FR WOF	FR FAC	TO LBD	TO SEC	TO TWP	TO RGE	TO WOF	TO FAC	LENGTH (m)	STS	SUB CODE	HQS (m/ft)	OD (mm)	WT (mm)	MAT	TYPE	GRADE	MOP (ton)	JOINTS	INTL COATING
1225	2		PENBINA PIPELINE CORPORATION	Jul 12 1991	13	36	61	12	5	PL	1	2	64	11	5	PL	21.61	0	CO	0.00	219.10	4.78	8	SLX	X42	8210	W	U
4216	16		PENGROWTH CORPORATION	Jul 12 1996	12	27	63	11	5	PL	11	8	64	10	5	PL	6.02	0	OE	0.55	323.90	3.95	8	SLX	X42	3100	W	U
4216	17		PENGROWTH CORPORATION	Aug 02 1996	4	24	63	11	5	PL	13	36	63	11	5	PL	5.63	A	OE	0.55	219.10	3.18	8	SLX	X42	0	W	U
4216	18		PENGROWTH CORPORATION	Jul 12 1996	13	36	63	11	5	BE	11	8	64	10	5	BE	2.11	A	OE	0.55	323.90	3.98	8	SLX	X42	0	W	U
4216	30		PENGROWTH CORPORATION	Oct 16 2002	9	26	63	11	5	BE	8	35	63	11	5	BE	1.45	A	OE	0.55	114.30	3.18	8	SL	8	0	W	U
4216	34		PENGROWTH CORPORATION	Aug 02 1996	1	2	64	11	5	BE	13	36	63	11	5	BE	0.66	A	OE	0.55	219.10	3.18	8	SLX	X42	0	W	U
4216	49		PENGROWTH CORPORATION		8	26	63	11	5	BE	8	35	63	11	5	BE	1.44	A	OE	0.55	168.30	3.98	8	SLX	X42	0	W	U
4216	51		PENGROWTH CORPORATION	Aug 02 1996	8	9	64	11	5	BE	13	36	63	11	5	BE	4.40	A	OE	0.55	168.30	3.98	8	SLX	X42	0	W	U
4216	52		PENGROWTH CORPORATION	Mar 04 1994	13	36	63	11	5	PL	11	8	64	10	5	B	2.20	A	OE	0.55	323.90	4.78	8	SLX	X42	0	W	U
4216	72		PENGROWTH CORPORATION		5	35	63	11	5	BE	8	35	63	11	5	BE	0.88	A	OE	0.55	219.10	5.60	8	Z245.1	2801	0	W	T
4216	80		PENGROWTH CORPORATION	May 04 1989	4	24	63	11	8	8	8	35	63	11	5	8	4.44	0	OE	0.55	273.10	4.80	8	Z245.1	2801	3450	Z	T
4216	81		PENGROWTH CORPORATION	May 04 1989	8	35	63	11	5	PL	8	35	63	11	5	8	0.17	0	OE	0.55	168.30	4.00	8	Z245.1	2801	3450	Z	T
4216	82	✓	PENGROWTH CORPORATION	Mar 06 1991	8	35	63	11	5	S	13	36	63	11	5	PL	1.53	0	OE	0.55	323.90	5.60	8	Z245.1	2801	3450	Z	T
4216	83		PENGROWTH CORPORATION	Mar 06 1991	13	36	63	11	5	PL	11	8	64	10	5	8	2.27	0	OE	0.55	323.90	5.60	8	Z245.1	2801	3450	Z	T
4216	86		PENGROWTH CORPORATION		8	33	63	11	5	BE	8	35	63	11	5	BE	3.70	A	OE	0.55	168.30	4.00	8	Z245.1	2801	0	Z	T
4216	94		PENGROWTH CORPORATION	Mar 07 1996	13	36	63	11	5	PL	11	6	64	10	5	PL	2.30	0	OE	0.55	408.40	5.60	8	Z245.1	2801	3450	A	T
4216	101		PENGROWTH CORPORATION		8	2	64	11	5	S	13	36	63	11	5	PL	1.00	0	OE	0.55	323.90	6.40	8	Z245.1	3591	3450	Z	T
4216	108		PENGROWTH CORPORATION		6	26	63	11	5	PL	2	25	63	11	5	PL	0.83	0	OE	0.55	168.30	7.90	8	Z245.1	2801	3450	W	U
4216	110		PENGROWTH CORPORATION	Feb 20 2004	2	35	63	11	5	PL	8	36	63	11	5	PL	0.18	0	OE	0.55	169.30	7.10	8	Z245.1	2801	3450	W	U
4216	114		PENGROWTH CORPORATION	Jun 20 2006	8	33	63	11	5	PL	8	35	63	11	5	PL	3.37	0	OE	0.55	214.40	8.90	F	STAR	1250	3450	T	U
8949	21		PENGROWTH CORPORATION		10	36	63	11	5	BE	4	36	63	11	5	BE	1.50	A	SW	0.00	169.30	7.11	8	Z245.1	3171	0	W	E
8949	38		PENGROWTH CORPORATION	Jul 05 1993	10	36	63	11	5	PL	4	2	64	11	5	WE	2.49	0	SW	0.00	219.10	6.18	8	SLX	X46	14880	W	E
8949	39		PENGROWTH CORPORATION		11	36	63	11	5	PL	2	1	64	11	5	PL	0.98	0	SW	0.00	169.30	6.35	8	SLX	X46	14880	W	E
8949	48		PENGROWTH CORPORATION	Feb 13 1995	5	36	63	11	5	BE	12	36	63	11	5	BE	0.36	A	SW	0.00	114.30	6.00	8	Z245.1	2801	0	W	E
8949	56		PENGROWTH CORPORATION		10	36	63	11	5	PL	4	2	64	11	5	PL	2.55	P	SW	0.00	219.10	7.90	8	Z245.1	3591	14880	W	E
9526	1		PENGROWTH CORPORATION		10	35	63	11	5	BE	8	35	63	11	5	BE	0.38	A	OE	0.00	68.90	3.18	8	SLX	X42	0	W	U
9526	4		PENGROWTH CORPORATION	Feb 24 1987	10	36	63	11	5	PL	8	35	63	11	5	8	1.26	A	OE	0.00	68.90	3.18	8	SL	8	0	W	U
9526	6		PENGROWTH CORPORATION	May 11 1994	7	36	63	11	5	BE	5	35	63	11	5	BE	2.00	A	OE	0.00	114.30	4.00	8	Z245.3	2801	0	W	U
9526	7		PENGROWTH CORPORATION		8	36	63	11	5	BE	6	35	63	11	5	BE	0.07	A	OE	0.00	88.90	4.00	8	Z245.3	2801	0	W	U
9526	8		PENGROWTH CORPORATION		12	36	63	11	5	BE	8	35	63	11	5	BE	0.07	A	OE	0.00	88.90	3.18	8	UUUUU	UUUU	0	W	U
9526	9		PENGROWTH CORPORATION		2	36	63	11	5	BE	8	35	63	11	5	BE	1.70	A	OE	0.00	88.90	3.18	8	UUUUU	UUUU	0	W	U
9526	10		PENGROWTH CORPORATION		4	36	63	11	5	BE	8	35	63	11	5	BE	0.80	A	OE	0.00	88.90	3.18	8	UUUUU	UUUU	0	W	U

LICENCE #	LINE #	ABACUS #	COMPANY NAME	APPROVAL DATE	FR LBD	FR SEC	FR TWP	FR RGE	FR WOF	FR FAC	TO LBD	TO SEC	TO TWP	TO RGE	TO WOF	TO FAC	LENGTH (mm)	STS	SUB CODE	H2S (mef/mml)	OD (mm)	WT (mm)	MAT	TYPE	GRADE	MOP (mm)	JOINTS	INTL COATING
9526	11		PENGROWTH CORPORATION		14	36	63	11	5	BE	8	35	63	11	5	BE	2.26	A	OE	0.00	114.30	3.96	S	Z245.3	2901	0	W	U
9526	12		PENGROWTH CORPORATION		19	36	63	11	5	BE	8	35	63	11	5	BE	2.27	A	OE	0.00	114.30	3.96	S	Z245.3	2901	0	W	U
9526	13		PENGROWTH CORPORATION		16	35	63	11	5	BE	8	35	63	11	5	BE	0.74	A	OE	0.00	88.90	9.99	S	UUUUUU	UUUU	0	W	U
9526	14		PENGROWTH CORPORATION		2	35	63	11	5	BE	8	35	63	11	5	BE	0.50	A	OE	0.00	88.90	9.99	S	UUUUUU	UUUU	0	W	U
9526	15		PENGROWTH CORPORATION		4	35	63	11	5	BE	8	35	63	11	5	BE	1.10	A	OE	0.00	88.90	3.18	S	UUUUUU	UUUU	0	W	U
9526	22		PENGROWTH CORPORATION	Aug 12 1996	8	35	63	11	5	WE	8	35	63	11	5	S	0.39	O	OE	0.00	88.90	3.96	S	Z245.1	2901	6900	Z	Y
9526	23		PENGROWTH CORPORATION	Oct 16 1997	5	35	63	11	5	PL	8	35	63	11	5	S	1.06	A	OE	0.00	88.90	0.00	S	UUUUUU	UUUU	0	W	U
9526	24		PENGROWTH CORPORATION	Mar 17 1994	6	36	63	11	5	WE	8	35	63	11	5	S	1.05	O	OE	0.00	87.60	8.35	F	57AR	2000	5520	T	U
9526	25		PENGROWTH CORPORATION	Mar 17 1994	16	35	63	11	5	WE	8	35	63	11	5	S	0.82	O	OE	0.00	117.30	8.39	F	57AR	2000	5520	T	U
12776	21		PENGROWTH CORPORATION	Feb 24 1994	11	6	64	10	5	GP	13	36	63	11	5	PL	2.20	O	NG	2.00	218.10	4.80	S	Z245.1	3691	6900	W	U
12776	22		PENGROWTH CORPORATION		2	1	64	11	5	BE	13	36	63	11	5	BE	1.10	A	NG	2.00	218.10	3.96	S	Z245.1	2901	0	W	U
12776	23		PENGROWTH CORPORATION	Mar 04 1994	13	36	63	11	5	PL	10	29	63	11	5	PL	6.40	O	NG	2.00	218.10	3.96	S	Z245.3	2901	6900	W	U
14892	3		PENGROWTH CORPORATION	Mar 23 1994	4	1	64	11	5	BE	8	2	64	11	5	BE	0.50	A	OE	0.00	88.90	3.18	S	Z245.3	2901	0	W	U
14897	1		PENGROWTH CORPORATION	Nov 30 1994	11	6	64	10	5	BE	14	36	63	11	5	BE	3.06	A	NG	2.00	218.10	8.18	S	Z245.3	2901	0	W	U
14907	2		PENGROWTH CORPORATION	Dec 20 1998	14	36	63	11	5	PL	14	36	63	11	5	WE	0.13	A	NG	2.00	80.30	3.91	S	Z245.3	2901	0	W	U
14907	3		PENGROWTH CORPORATION	Nov 30 1994	14	36	63	11	5	BE	10	36	63	11	5	BE	0.56	A	NG	2.00	168.30	8.35	S	Z245.3	2901	0	W	U
14907	8		PENGROWTH CORPORATION	Jun 20 1994	12	36	63	11	5	BE	12	36	63	11	5	BE	0.21	A	NG	2.00	80.30	3.91	S	Z245.3	2901	0	W	U
14907	9		PENGROWTH CORPORATION	Jun 20 1994	12	36	63	11	5	BE	8	26	63	11	5	BE	0.27	A	NG	2.00	80.30	4.78	S	Z245.3	2901	0	W	U
14907	14		PENGROWTH CORPORATION	Jun 20 1994	8	35	63	11	5	BE	2	35	63	11	5	BE	0.80	A	NG	2.00	88.90	3.91	S	Z245.3	2901	0	W	U
14907	15		PENGROWTH CORPORATION	Jun 20 1994	8	35	63	11	5	BE	10	35	63	11	5	WE	0.34	A	NG	2.00	80.30	3.91	S	Z245.3	2901	0	W	U
14907	16		PENGROWTH CORPORATION	Oct 22 1998	10	36	63	11	5	PL	10	35	63	11	5	WE	0.10	A	NG	2.00	80.30	3.91	S	Z245.3	2901	0	W	U
14907	17		PENGROWTH CORPORATION	Jun 20 1994	10	35	63	11	5	BE	16	36	63	11	5	BE	0.51	A	NG	2.00	80.30	3.91	S	Z245.3	2901	0	W	U
14907	22		PENGROWTH CORPORATION	Nov 30 1994	10	36	63	11	5	BE	12	36	63	11	5	BE	0.56	A	NG	2.00	168.30	8.35	S	Z245.3	2901	0	W	U
14907	23		PENGROWTH CORPORATION	Nov 30 1994	12	36	63	11	5	BE	8	35	63	11	5	BE	0.84	A	NG	2.00	168.30	8.35	S	Z245.3	2901	0	W	U
14907	24		PENGROWTH CORPORATION		10	36	63	11	5	BE	12	36	63	11	5	BE	0.82	A	NG	2.00	168.30	8.35	S	Z245.3	2901	0	W	U
14907	35		PENGROWTH CORPORATION	Jun 20 1994	10	36	63	11	5	BE	14	36	63	11	5	BE	0.74	A	NG	2.00	80.30	3.91	S	Z245.3	2901	0	W	U
14907	36		PENGROWTH CORPORATION	Jun 20 1994	8	35	63	11	5	BE	8	35	63	11	5	BE	0.44	A	NG	2.00	80.30	3.91	S	Z245.3	2901	0	W	U
14907	38		PENGROWTH CORPORATION	Jun 20 1994	7	35	63	11	5	BE	12	36	63	11	5	BE	1.37	A	NG	2.00	80.30	3.91	S	Z245.3	2901	0	W	U
14907	39		PENGROWTH CORPORATION		7	35	63	11	5	BE	2	35	63	11	5	BE	0.23	D	NG	2.00	168.30	7.90	S	Z245.1	2901	0	W	U
14907	48		PENGROWTH CORPORATION	Jun 20 1994	14	36	63	11	5	BE	14	36	63	11	5	BE	0.13	A	NG	2.00	80.30	3.91	S	Z245.3	2901	0	W	U
14907	52		PENGROWTH CORPORATION	Jun 20 1994	12	36	63	11	5	BE	12	36	63	11	5	BE	0.25	A	NG	2.00	88.90	6.40	S	Z245.1	3691	0	W	U
14994	1		PENGROWTH CORPORATION		13	36	63	11	5	BE	12	6	64	10	5	BE	2.26	A	OE	0.00	323.90	4.78	S	Z245.3	2901	0	W	U
14994	8		PENGROWTH CORPORATION	Jan 31 1995	8	35	63	11	5	S	13	36	63	11	5	PL	1.47	O	OE	0.00	323.90	0.00	S	Z245.1	2901	4900	Z	Y
14994	7		PENGROWTH CORPORATION	Aug 21 1996	8	36	63	11	5	6	10	36	63	11	5	PL	1.34	A	OE	0.00	323.90	4.78	S	Z245.3	2901	0	W	U

LICENCE #	LIVE #	ABACUS #	COMPANY NAME	APPROVAL DATE	FR LSD	FR SEC	FR TWP	FR RGE	FR WOF	FR FAC	TO LSD	TO SEC	TO TWP	TO RGE	TO WOF	TO FAC	LENGTH (ft)	STS	SUB CODE	H2S (mdd/ft)	OD (mm)	WT (mm)	MAT	TYPE	GRADE	MCP (ft)	JOINTS	INTL COATING
18758	18		PENGROWTH CORPORATION	Aug 21 1999	5	35	63	11	5	BE	8	35	63	11	5	BE	0.57	A	SW	0.00	168.30	5.18	S	Z245.5	3591	0	W	E
18758	19		PENGROWTH CORPORATION		8	35	63	11	5	BE	10	35	63	11	5	BE	0.50	A	SW	0.00	114.30	3.96	S	Z245.5	3591	0	W	E
18758	27		PENGROWTH CORPORATION		8	35	63	11	5	BE	10	28	63	11	5	BE	1.30	A	SW	0.00	114.30	3.96	S	Z245.5	3591	0	W	E
17084	27		PENGROWTH CORPORATION	Mar 17 1994	14	35	63	11	5	WE	7	1	64	11	5	S	1.06	O	OE	0.00	117.30	8.38	F	STAR	2000	5520	T	U
21011	1		PENGROWTH CORPORATION	Jul 29 1999	7	35	63	11	5	RS	4	1	64	11	5	WE	1.92	O	HV	0.60	80.30	6.38	S	Z245.1	3592	0	W	U
21011	2		PENGROWTH CORPORATION		10	35	63	11	5	BE	4	2	64	11	5	BE	1.64	D	HV	0.60	80.30	6.40	S	Z245.1	3592	0	W	U
21011	3		PENGROWTH CORPORATION		7	35	63	11	5	BE	4	38	63	11	5	BE	0.91	D	HV	0.60	80.30	6.40	S	Z245.1	3592	0	W	U
21011	4		PENGROWTH CORPORATION	Apr 14 1999	7	35	63	11	5	RS	14	27	63	11	5	PL	2.56	O	HV	0.60	80.30	6.38	S	Z245.1	3592	0	W	U
21011	6		PENGROWTH CORPORATION	Apr 14 1999	7	35	63	11	5	RS	10	35	63	11	5	WE	0.48	O	HV	0.60	80.30	6.38	S	Z245.1	3592	0	W	U
21011	8		PENGROWTH CORPORATION	Apr 14 1999	7	35	63	11	5	RS	10	28	63	11	5	WE	1.37	O	HV	0.60	80.30	6.38	S	Z245.1	3592	0	W	U
21011	11		PENGROWTH CORPORATION		7	35	63	11	5	PL	2	34	63	11	5	WE	1.80	O	HV	0.60	80.30	6.40	S	Z245.1	3592	0	W	U
21011	14		PENGROWTH CORPORATION	Jan 08 1992	13	35	63	11	5	PL	10	38	63	11	5	WE	1.00	O	HV	0.60	80.30	5.30	S	Z245.1	4141	0	W	U
21011	15		PENGROWTH CORPORATION	Mar 24 1994	7	35	63	11	5	PL	12	35	63	11	5	PL	1.40	O	HV	0.60	88.90	7.60	S	Z245.1	4142	0	W	U
21011	18		PENGROWTH CORPORATION	Feb 28 2001	10	35	63	11	5	PL	4	2	64	11	5	WE	1.32	O	HV	0.60	114.30	11.13	S	Z245.1	3592	0	W	U
21058	7		PENGROWTH CORPORATION	Jul 29 1999	4	6	64	10	5	RS	7	35	63	11	5	S	2.90	O	HV	2.00	168.30	14.90	S	Z245.1	3592	0	W	U
21883	1		PENGROWTH CORPORATION	Apr 14 1999	11	6	64	10	5	IP	12	29	63	11	5	PL	1.00	O	HV	0.60	114.30	11.13	S	Z245.1	3592	0	W	U
21883	2		PENGROWTH CORPORATION	Apr 14 1999	11	6	64	10	5	IP	12	29	63	11	5	PL	1.00	O	HV	0.60	168.30	14.87	S	Z245.1	3592	0	W	U
27691	40		PENGROWTH CORPORATION	Nov 07 1995	15	26	63	11	5	PL	2	35	63	11	5	WE	0.57	O	SW	0.00	88.90	3.20	S	A790	448	17300	W	U
27691	45		PENGROWTH CORPORATION	Nov 07 1995	10	35	63	11	5	PL	11	38	63	11	5	PL	0.47	O	SW	0.00	168.30	7.10	S	Z245.1	3591	15200	W	E
27691	46		PENGROWTH CORPORATION	Nov 07 1995	11	35	63	11	4	PL	12	38	63	11	5	PL	0.35	O	SW	0.00	168.30	7.10	S	Z245.1	3591	15200	W	E
27691	47		PENGROWTH CORPORATION	Nov 07 1995	12	35	63	11	5	PL	12	35	63	11	5	WE	0.06	O	SW	0.00	88.90	3.20	S	A790	448	15200	W	U
27691	48		PENGROWTH CORPORATION	Nov 07 1995	12	35	63	11	5	PL	5	35	63	11	5	PL	0.16	O	SW	0.00	168.30	7.10	S	Z245.1	3591	15200	W	E
27691	49		PENGROWTH CORPORATION	Nov 07 1995	5	35	63	11	5	PL	10	35	63	11	5	WE	1.19	O	SW	0.00	88.90	3.20	S	A790	448	15200	W	U

SECTION 2

- NDE Reports & Technician Qualifications
- Weld Procedures & Welder Reports
- Welder ID & NDE Maps

N/A

SECTION 3

- ✓ • Hydro Test Procedures, Results & Calibration Reports & Waiver Reports
- Pneumatic Test Procedures, Results & Calibration Reports

**FLINT ENERGY SERVICES LTD.****INTEGRATED. INTEGRAL.****PRESSURE TEST PROCEDURE AND DATA**

POLY-1140-REV 02

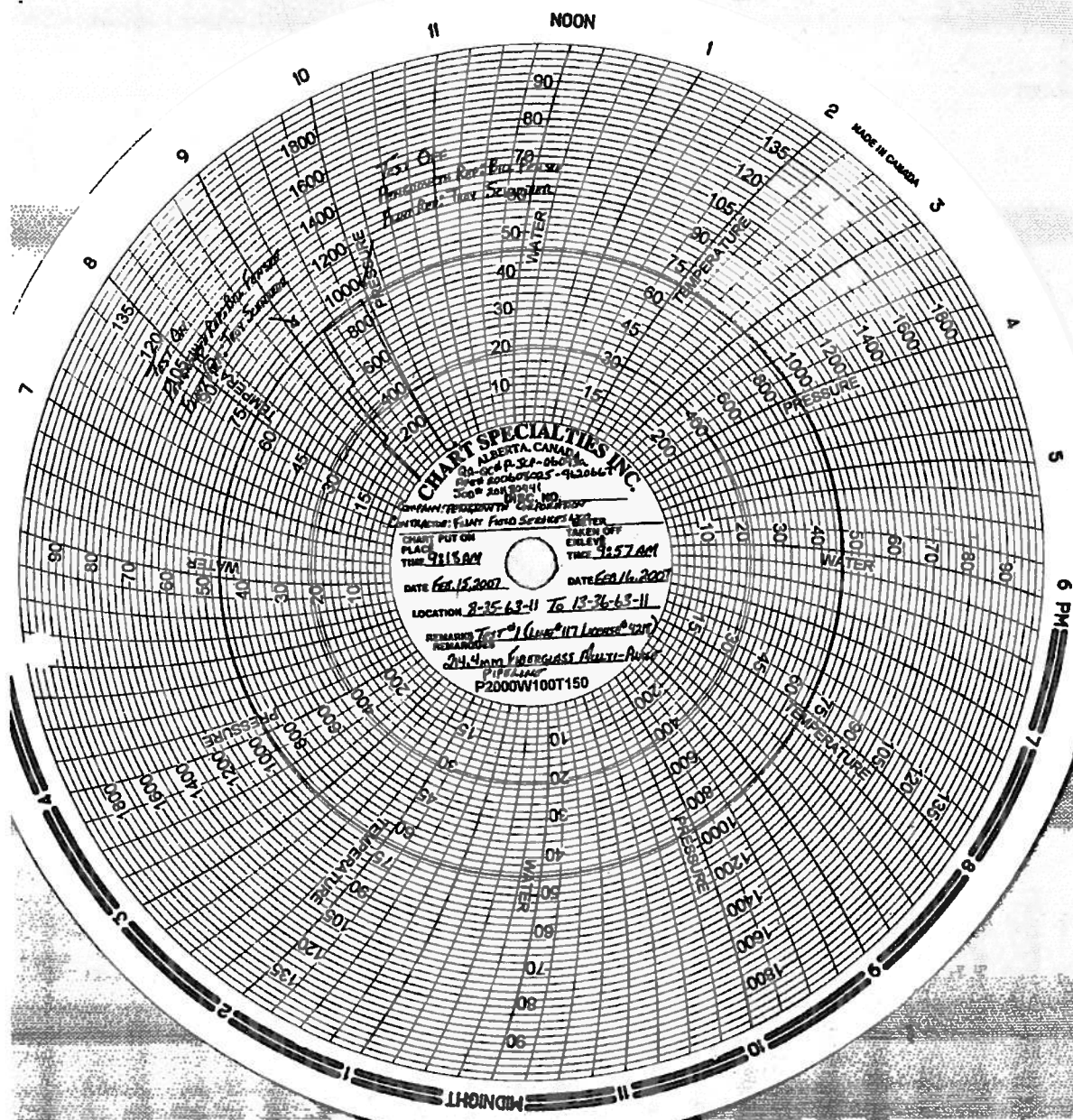
OWNER: <u>PENGROWTH CORPORATION</u>	TEST PACKAGE NUMBER: <u>P-JCP-060932</u>
FLINT JOB NUMBER: <u>201180441</u>	DATE (mm/dd/yy): <u>02/15/07</u>
PROJECT: <u>214.4mm FIBERGLASS MULTI-PHASE LINE</u>	PIPE SPECIFICATION AND SIZE: <u>214.4mm x 8.90mm STAR SERIES 1250 FIBERGLASS</u>
MINIMUM TEST PRESSURE (KPA): <u>4313</u>	TEST MEDIUM: <u>WATER/METHANOL MIX</u>
MAK: ALLOWABLE PRESSURE (KPA): <u>6469</u>	TEST DURATION: <u>24 Hr</u>
LOCATION: <u>8-35 TO 13-36-63-11</u>	
TEST SECTION DESCRIPTION: <u>214.4mm FIBERGLASS STAR SERIES 1250 MULTI-PHASE PIPELINE</u>	
ELEVATION PROFILE AND PV CHART ATTACHED? <u>N/A</u>	<u>TEST #1 (LINE #117 LICENSE #4218)</u>
TEST PROCEDURE	
1. VISUAL INSPECTION OF ALL TEST HEADS FOR DAMAGE MUST BE DONE BEFORE EVERY TEST.	
2. DURING PRESSURIZATION, A LEAK TEST SHALL BE PERFORMED WHILE PRESSURE IS HELD AT <u>300 PSI</u> , WITH THE SECTION UNDER TEST EXAMINED AND APPROVED BEFORE ANY SUBSEQUENT PRESSURIZATION OCCURS.	
3. PROVIDING SATISFACTORY RESULTS FROM THE LEAK TEST ABOVE, PRESSURE SHALL BE INCREASED AT A RATE OF _____ PER MINUTE UNTIL THE MINIMUM TEST DURATION IS COMPLETE AND THE AUTHORIZED REPRESENTATIVE HAS MADE THE REQUIRED INSPECTION AND ACCEPTED THE TEST.	
4. ANY PUMPING OR VENTING TO MAINTAIN SUFFICIENT PRESSURE SHALL BE RECORDED.	
5. IF A LEAK BECOMES APPARENT AT ANY TIME DURING THE TEST, THE SYSTEM MUST FULLY BE DEPRESSURIZED BEFORE ANY REPAIRS ARE TO TAKE PLACE. THIS INCLUDES TIGHTENING OF FLANGED OR THREADED JOINTS.	
TEST DATA	
TIME ON: <u>9:18 AM FEB 15, 2007</u>	AMBIENT TEMPERATURE °C: _____
TIME OFF: <u>9:57 AM FEB 16, 2007</u>	TEST TEMPERATURE °C: _____
TEST GAUGE: _____	TEST GAUGE: _____
SERIAL NUMBER: <u>RG-2002 (0-2000 PSI)</u>	SERIAL NUMBER: _____
INITIAL PRESSURE: <u>900 PSI</u>	INITIAL PRESSURE KPA: _____
FINAL PRESSURE: <u>905 PSI</u>	FINAL PRESSURE KPA: _____
TEST RECORDER (SEE CHART READING): _____	DEAD WEIGHT READINGS: _____
SERIAL NUMBER AND RANGE: <u>SCL-85 (0-2000 PSI)</u>	SERIAL NUMBER: <u>30402 (0-5000 PSI)</u>
INITIAL PRESSURE: <u>920 PSI</u>	INITIAL PRESSURE KPA: <u>918.8 PSI</u>
FINAL PRESSURE: <u>925 PSI</u>	FINAL PRESSURE MPA: <u>934.5 PSI</u>
AUTHORIZATION AND ACCEPTANCE OF HYDROTEST	
MUST BE REVIEWED, INITIALED AND SIGNED BY THE FIELD AUTHORITY OF FLINT ENERGY SERVICES LTD.	
RELEASED FOR HYDROTEST: _____	DATE (mm/dd/yy): _____
FLINT QUALITY REPRESENTATIVE: _____	DATE (mm/dd/yy): <u>02/15/07</u>
OWNER / OWNER'S REPRESENTATIVE (AUTHORIZED): _____	DATE (mm/dd/yy): <u>02/15/07</u>
HYDROTEST ACCEPTED: _____	DATE (mm/dd/yy): _____
TEST CERTIFIED BY CONTRACTOR: _____	DATE (mm/dd/yy): <u>02/16/07</u>
TEST ACCEPTED OWNER / OWNER'S REPRESENTATIVE: _____	DATE (mm/dd/yy): <u>02/16/07</u>

DEAD WEIGHT TEST REPORT

TEST #1 (LINE #117 LICENSE #4218)

C09 (08-04 REV 01)

[illegible]



Part # 4217 Line # 117

From Loc. 8-35-63-11 To Loc. 13-36-63-11

Start and Time on FEB 15, 2007 9:13 AM Done By [REDACTED]

Stop and Time off FEB 16, 2007 9:57 AM Done By [REDACTED]

Witnessed by [REDACTED]

Test Duration 24 Hr Test Medium Water/Methanol M/M
Min: 4.913

Test Pressure max: 6469 M.O.P. 3450

Dead Weight Test Pressure On: 918.8 PSI

Dead Weight Test Pressure Off: 934.5 PSI (N/A)
Pipe Specs: 2 1/4" x 8.90mm STAR SERIES 1250 FIBERGLASS PIPE
Recorder SERIAL # SC1-85 (0-2000 PSI)
Dead Weight SERIAL # 30402 (0-5000 PSI)
Gauge SERIAL # RG-2002 (0-2000 PSI)

Company: PEN-GROWTH CORPORATION
Contractors: FLINT FIBRO SERVICES LTD
Project: 2 1/4" FIBERGLASS GROUNDLINE
QA-QC # P-SCP-060933
AFS # 200608025-9620667
Job # 201180441



FLINT ENERGY SERVICES LTD.

INTEGRATED. INTEGRAL

PRESSURE TEST PROCEDURE AND DATA

005 (REVISED) 02

OWNER: <u>PENGROWTH CORPORATION</u>		TEST PACKAGE NUMBER: <u>P-JCP-060938</u>	
FLINT JOB NUMBER: <u>201180441</u>		DATE (mm/dd/yy): <u>02/15/07</u>	
PROJECT: <u>214.4mm FIBERGLASS MULTI-PHASE LINE</u>		PIPE SPECIFICATION AND SIZE: <u>214.4mm X 8.90mm STAR SERIES 1250 FIBERGLASS</u>	
MINIMUM TEST PRESSURE (KPA): <u>4313</u>		TEST MEDIUM: <u>WATER / METHANOL MIX</u>	
MAX. ALLOWABLE PRESSURE (KPA): <u>6469</u>		TEST DURATION: <u>24 HR</u>	
LOCATION: <u>8-35-63-11 To 13-36-63-11</u>			
TEST SECTION DESCRIPTION: <u>214.4mm FIBERGLASS STAR SERIES 1250 MULTI-PHASE PIPELINE TEST #2</u>			
ELEVATION PROFILE AND PV CHART ATTACHED? <u>N/A</u> (LINE #116 LICENSE #4218)			
TEST PROCEDURE			
1. VISUAL INSPECTION OF ALL TEST HEADS FOR DAMAGE MUST BE DONE BEFORE EVERY TEST.			
2. DURING PRESSURIZATION, A LEAK TEST SHALL BE PERFORMED WHILE PRESSURE IS HELD AT <u>300 PSI</u> WITH THE SECTION UNDER TEST EXAMINED AND APPROVED BEFORE ANY SUBSEQUENT PRESSURIZATION OCCURS.			
3. PROVIDING SATISFACTORY RESULTS FROM THE LEAK TEST ABOVE, PRESSURE SHALL BE INCREASED AT A RATE OF _____ PER MINUTE UNTIL THE MINIMUM TEST DURATION IS COMPLETE AND THE AUTHORIZED REPRESENTATIVE HAS MADE THE REQUIRED INSPECTION AND ACCEPTED THE TEST.			
4. ANY PUMPING OR VENTING TO MAINTAIN SUFFICIENT PRESSURE SHALL BE RECORDED.			
5. IF A LEAK BECOMES APPARENT AT ANY TIME DURING THE TEST, THE SYSTEM MUST FULLY BE DEPRESSURIZED BEFORE ANY REPAIRS ARE TO TAKE PLACE. THIS INCLUDES TIGHTENING OF FLANGED OR THREADED JOINTS.			
TEST DATA			
TIME ON: <u>10:07 AM FEB. 15, 2007</u>		AMBIENT TEMPERATURE °C: _____	
TIME OFF: <u>10:23 AM FEB 16, 2007</u>		TEST TEMPERATURE °C: _____	
TEST GAUGE:		TEST GAUGE:	
SERIAL NUMBER: <u>RG-2001 (0-2000 PSI)</u>		SERIAL NUMBER: _____	
INITIAL PRESSURE: <u>900 PSI</u>		INITIAL PRESSURE KPA: _____	
FINAL PRESSURE: <u>910 PSI</u>		FINAL PRESSURE KPA: _____	
TEST RECORDER (SEE CHART READING):		DEAD WEIGHT READINGS:	
SERIAL NUMBER AND RANGE: <u>SCL-FC-003 (0-2000 PSI)</u>		SERIAL NUMBER: <u>30504 (0-5000 PSI)</u>	
INITIAL PRESSURE: <u>920. PSI</u>		INITIAL PRESSURE KPA: <u>924.3 PSI</u>	
FINAL PRESSURE: <u>924 PSI</u>		FINAL PRESSURE MPA: <u>934.6 PSI</u>	
AUTHORIZATION AND ACCEPTANCE OF HYDROTEST			
All test equipment, test facility, Representative with technical authority or written authorization			
RELEASED FOR HYDROTEST:	DATE (mm/dd/yy):	SIGNATURE:	
FLINT QUALITY REPRESENTATIVE:	<u>02/15/07</u>		
OWNER / OWNER'S REPRESENTATIVE (AUTHORIZED):	<u>02/15/07</u>		
HYDROTEST ACCEPTED:	DATE (mm/dd/yy):	SIGNATURE:	
TEST CERTIFIED BY CONTRACTOR:	<u>02/16/07</u>		
TEST ACCEPTED OWNER / OWNER'S REPRESENTATIVE:	<u>02/16/07</u>		

COPY
cc

FLINT ENERGY SERVICES LTD.

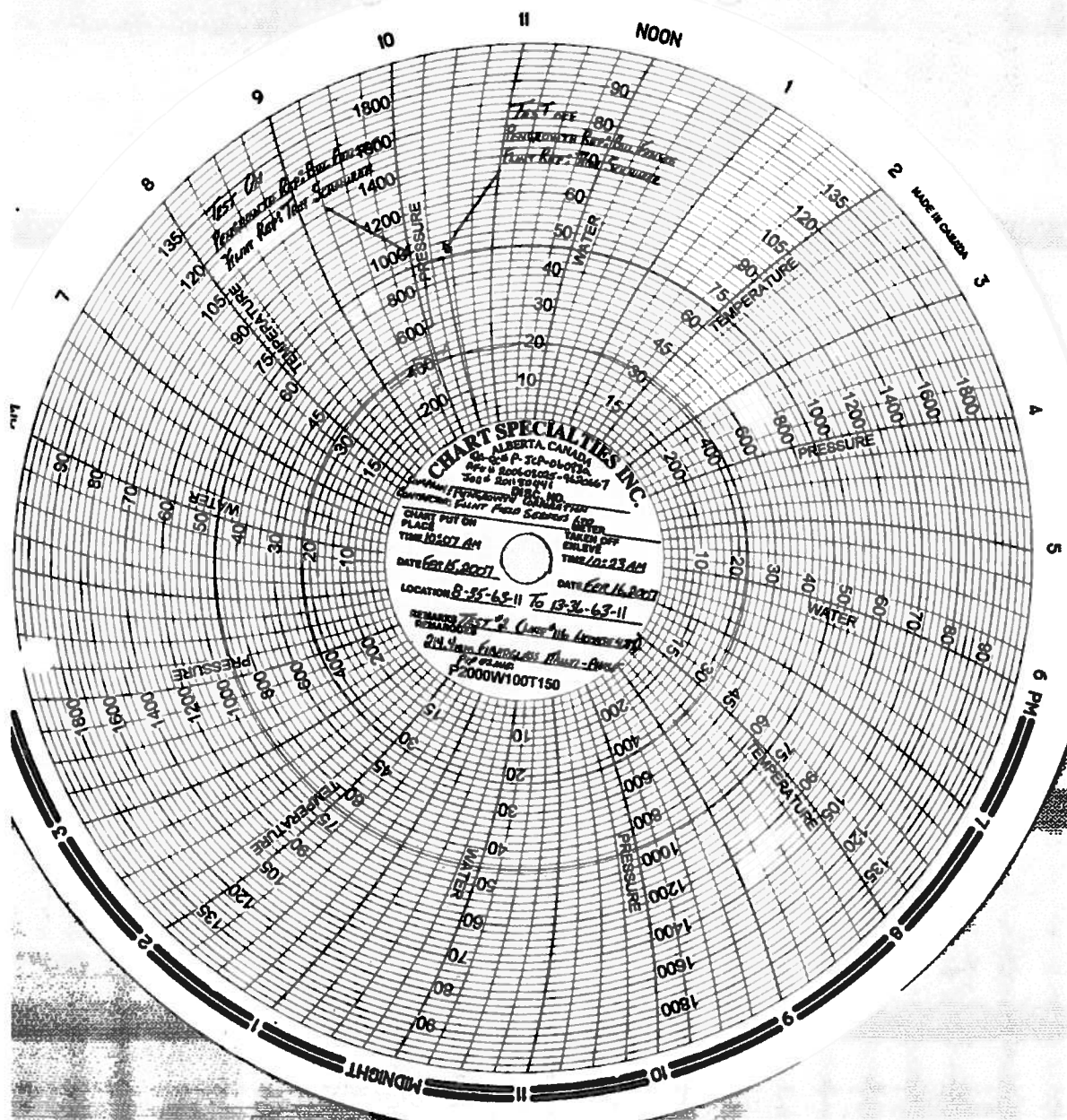
INTEGRATED. INTEGRAL.

DEAD WEIGHT TEST REPORT

TEST #2 (LINE #116 LICENSE #4218)

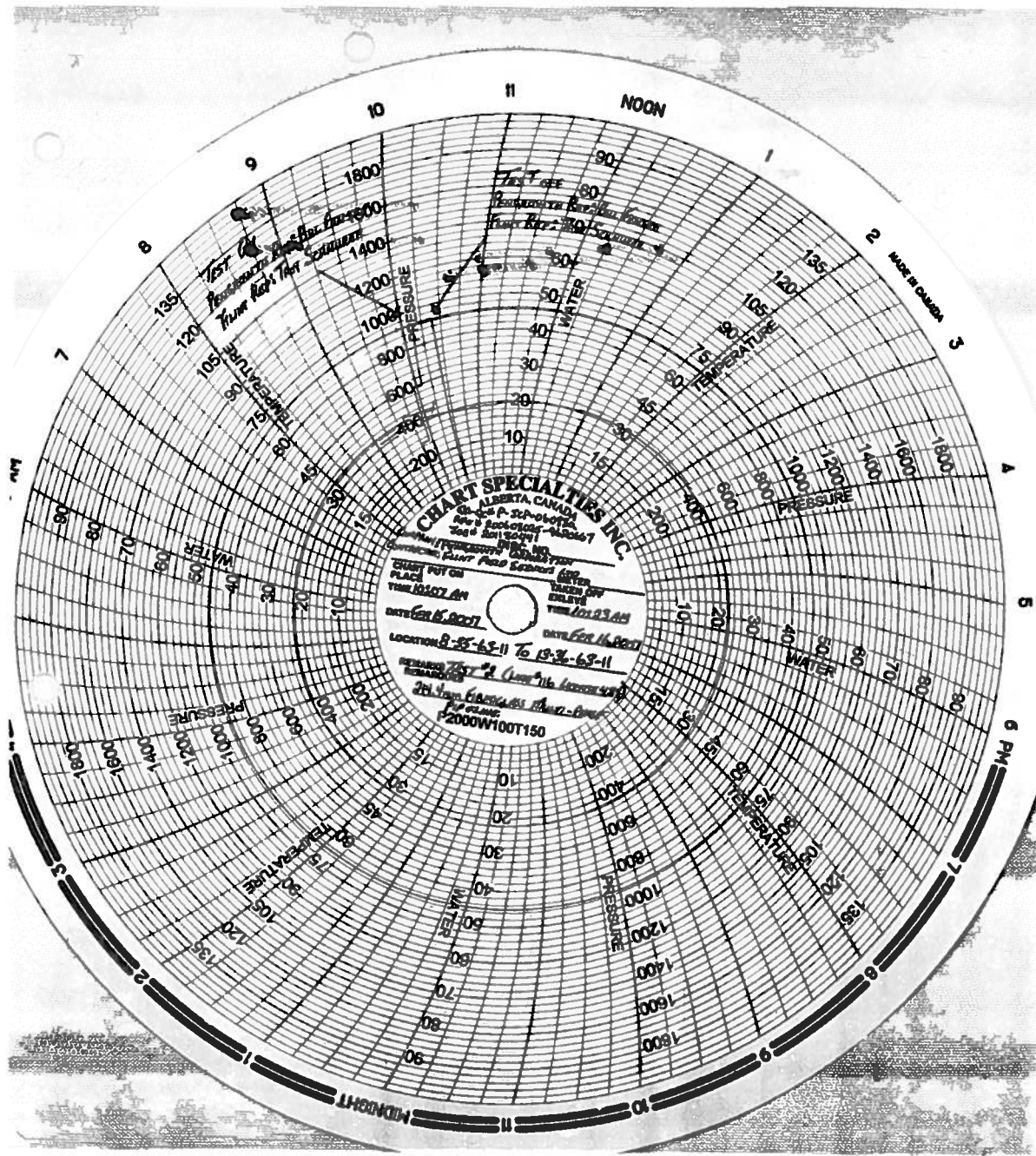
C09106-04 REV 01

[illegible]



Part # 4219 Line # 116
From Log. 8-35-63-11 To Log. 13-36-63-11
In and Time on Feb 15, 2007 10:07 AM Done by [REDACTED]
In and Time on Feb 16, 2007 10:23 AM Done by [REDACTED]
In and Time on [REDACTED] Done by [REDACTED]
Test Date 24 Feb Test Location Water / Nathaniel Hwy
AWI 4313
Pressure MAP 6469 G.O.# 3450
Test Weight Test Pressure 924.3 PSI
Test Weight Test Pressure 934.6 PSI
Pipe Specs 2 1/4" x 8.90mm STAR Series 1250 FIBERGLASS PIPE
Recordon Serial # SCL-FC-003 (0-2000 PSI)
Dono Weight Serial # 30304 (0-5000 PSI)
Gauge Serial # RG-2001 (0-2000 PSI)

Company: PENGROWTH CORPORATION
Contractor: FRUIT FORD SERVICES LTD
Project: 2 1/4" FIBERGLASS GROUNDLINE
QA-QC # P-JEP-06043a
RFB # 200608025-9620667
Job # 20170441



WSP # 4219 Line # 116
From Log. 8-35-63-11 To Log. 13-36-63-11
We and Time on FEB 15, 2007 10:07 AM Done by [REDACTED]
We and Time off FEB 16, 2007 10:13 AM Done by [REDACTED]
WSP # [REDACTED]
at 24 Hr Test Medium Water / Methanol 100/0
at 4000 Pressure 3450
at 6469 Weight 924.9 PSI
at 934.6 PSI
Pipe Specs - 214.4mm X 8.90mm STAR SERIES 1250 FIBERGLASS PIPE
Recorder Serial # SCL-FC-003 (0-2000 PSI)
Data Weight Serial # 50504 (0-5000 PSI)
Gauge Serial # R6-2001 (0-2000 PSI)

Company: PANGBORN CORPORATION
Contracted: FURT FORD SERVICES LTD
Project: 214.4mm FIBERGLASS CROUPLINE
APR-02 # P-JCP-060930
RFS # 200608 025-9620667
Job 201130441

CONTROLS LTD.

BOX 1477 WHITE T78 1P3
WHITECOURT 778-5373
FOX CREEK 822-3108

DATE

Jan. 22/07

CUSTOMER

Pengrowth

WORK REQ. #

LOCATION/LSO

08-35-63-11

EQUIPMENT IDENTIFICATION:

Falcon Edc.

I.D. #

30504

CALIBRATOR IDENTIFICATION:

MAKE: Vastrix

I.D. #

371481

UNITS:

XPA ☐ PSI ☐

AS FOUND:

☐ % ☐ UNITS

AS LEFT:

☐ % ☐ UNITS

0		0
1250		25
2500		50
3750		75
5000		100

TECHNICIAN:

REMARKS: Test #2 (Line #116 License #4218)

8152

WHITE OFFICE PINK - CUSTOMER

SELECT

CONTROLS LTD.

EQUIPMENT CERTIFICATION

BOX 1477 WHITE T78 1P3
WHITECOURT 778-5373
FOX CREEK 822-3108

DATE

Nov. 3/06

CUSTOMER

Pengrowth

WORK REQ. #

LOCATION/LSO

08-35-63-11

EQUIPMENT IDENTIFICATION:

Wika

I.D. #

SERIAL: 862001

CALIBRATOR IDENTIFICATION:

MAKE: VASTRIX

I.D. #

SERIAL: 742021

UNITS:

☐ KPA ☐ PSI ☐

AS FOUND:

☐ % ☐ UNITS

AS LEFT:

☐ % ☐ UNITS

0		
500		
1000		
1500		
2000		

TECHNICIAN

REMARKS: Test #2 (Line #116 License #4218)

WHITE - OFFICE PINK - CUSTOMER

**FLINT ENERGY SERVICES LTD.****INTEGRATED. INTEGRAL.****PIPING HYDRO TEST CHECKLIST REPORT**

C02 (6-04 REV 01)

REPORT #: P-JCP-060938		DATE (dd/mm/yy): 14/02/07			
PREPARED BY:					
AREA: 8-35 To 13-36-63-11		UNIT:	TAG #:		
SPECIFICATION: 214.4mm x 8.9mm STAR SERIES 1250 FIBERGLASS		TEST PACK #:			
TEST PRESSURE: MIN: 4313 KPA MAX: 6469 KPA		SYSTEM:			
DESCRIPTION: DUAL 8" FIBERGLASS OIL EFFLUENT PIPELINES					
WORK BY:	ITEM	CONTRACTOR INITIALS	FIELD ENGINEER INITIALS	QUALITY ASSURANCE INITIALS	REMARKS
N/A	X RAY COMPLETE.				
N/A	CONTROL VALVES REMOVED AND SPOONS INSTALLED.				
ESK/	HIGH POINT VALVED VENTS, LOW POINT DRAINS INSTALLED.	JS/TS		TS	
FLINT/	LINE COMPLETE DRAWING NUMBERS.	TS	CB	TS	
N/A	PIPE CLEANING RECORD SIGNED OFF.				
FLINT	ALL PIPE SUPPORTS COMPLETE.	TS	CC	TS	
FLINT	TEST BLINDS CORRECT SIZE.	JS/WK		TS	
FLINT WESTERN	MATERIALS INSTALLED IN ACCORDANCE WITH SPECIFICATIONS.	TS	CC	TS	
N/A	ORIFICE PLATES REMOVED.				
N/A	ORIFICE VALVES PLUGGED.				
N/A	CHECK VALVE FLAPPERS REMOVED.				
N/A	BLINDS INSTALLED AT VESSEL NOZZLES				
N/A	P & ID CHECK.				
FLINT	INSTRUMENT CHECK	JS/TS		TS	
PRINT/ TYPE NAME: SIGNATURE					
CLIENT ENGINEER:	DATE (MM/DD/YY):	PENGROWTH ENGINEER			
	1 1				
CLIENT INSPECTOR:	DATE (MM/DD/YY):				
	04/14/07				
CONTRACTOR FIELD ENGINEER:	DATE (MM/DD/YY):	WESTERN FIBERGLASS			
	1 1				
CONTRACTOR QUALITY ASSURANCE:	DATE (MM/DD/YY):				
	02/14/07				

SECTION 4

- Heat Treatment Records
- Internal Corrosion/Erosion Protective Coating Reports
- Valve Repair & Internal Coating Data Reports
- Pre & Post Weld Treatment Procedures
- Product Identification Numbers

N/A

SECTION 5

- Material Test Reports (MTR)
 - Material Receiving Reports
 - ✓ • Packing Slips & Invoices
 - Pipe Tally Sheets
 - ✓ • QC Reports
-

200608025


WESTERN FIBERGLASS
PIPE SALES LTD.
STAR MATERIAL
O.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: (780) 333-7115 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-74.7 OD-85.9 WT-5.6 MIN/WT-5.04		
8-5/8"	Flanges Aliphatic Amine 8rd. thread ansi 300/600	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,

[REDACTED]
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 7/8"	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 7/8" 1250 Star
4			8 7/8" 1250 Star to 8 7/8" 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			
28			in 12" casing through wet area
29			
30	✓		

PAGE: 1 OF 6



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): 8-36-63-11 CONTRACTOR: Flint

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

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

PAGE: 2 OF 6



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): Jun 17/07
LOCATION (FROM): B-36-63-11 LOCATION (TO): 8-36-63-11 CONTRACTOR: Flinn

	SIZE (INCH)	SERIES	TEST PRESSURE (PSI)	BRAND
PIPE:	8 7/8"	1250	1250	Star.

JOINT NUMBER	THREAD STANDOFF	QUALITY CONTROL SUPERVISOR	COMMENTS
61	2	COMP 8-36-63-11	8 7/8" 1250 Star to 8 7/8" 1250 Star
62			
63			
64			
65			
66			
67			
68			
69			
70			
71			
72			
73			
74			
75			
76			
77			
78			
79			
80			
81			
82			
83			
84			
85			
86			
87			
88			
89			
90	✓		✓



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 3/8	1250	1250	Star

JOINT NUMBER	THREAD STANDOFF	QUALITY CONTROL SUPERVISOR	COMMENTS
91	2	6-10-07	8 3/8" 1250 Star to 8 3/8" 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	✓		✓

PAGE: 4 OF 6



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: Turkey Creek DATE (M/D/Y): Jun 17/07
LOCATION (FROM): 13-36-63-11 LOCATION (TO): 8-35-63-11 CONTRACTOR: Flinst.

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

JOINT NUMBER	THREAD STANDOFF	QUALITY CONTROL SUPERVISER	COMMENTS
121	2		8 5/8 1250 Star to 8 5/8 1250 Star
122			in 12" casing
123			
124			
125			- Connections
126			121-145 in casing
127			
128			
129			- inserted with
130			CFC wireline
131			Jun 29/07
132			
133			
134			
135			
136			
137			
138			
139			
140			
141			
142			
143			
144			
145			✓ - in 12" casing
146			
147			
148			
149			
150	✓		✓ - in 12" casing

PAGE: 5 OF 6



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): Jun 17/07
LOCATION (FROM): B-36-63-11 LOCATION (TO): 8-35-63-11 CONTRACTOR: Flat

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

JOINT NUMBER	THREAD STANDOFF	QUALITY CONTROL SUPERVISER	COMMENTS
151			8 3/8 1250 Star to 8 3/8 1250 Star
152			
153			12" cased
154			bore through
155			braver dam
156			
157			- Connection
158			150-161 in
159			casing
160			↓
161			- in 12" casing
162			
163			
164			
165			
166			
167			
168			
169			
170			↓
171			8 3/8 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

PAGE: 6 OF 6



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

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

PAGE: _____ OF _____




WESTERN FIBERGLASS
PIPE SALES LTD.

**PIPELINE INSTALLATION
Q.C. REPORT**

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

CUSTOMER: Perrygrowth AREA: Irby Creek DATE (M/D/Y): Jun 19/07
LOCATION (FROM): 13-36-53-11 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 A	2		8" 300 flange to 5' pup (04-46)
2 A			5' pup to 90° elbow 1250
3 A			90° elbow to 8 5/8 1250 star
4 A			8 5/8 1250 star to 8 5/8 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 13" casing
27 A			
28 A			wet area
29 A			
30 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): 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 SUPERVISER	COMMENTS
31 A	<u>2</u>		<u>8 5/8 1250 Star to 8 5/8 1250 Star</u>
32 A			<u>↑</u>
33 A			
34 A			
35 A			
36 A			
37 A			
38 A			
39 A			
40 A			
41 A			<u>in 12" casing</u>
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	<u>✓</u>		<u>✓</u>

PAGE: 2 OF 6



WESTERN FIBERGLASS
PIPE SALES LTD.

PIPELINE INSTALLATION
Q.C. REPORT

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

CUSTOMER: Pemageth 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: Flint

	SIZE (INCH)	SERIES	TEST PRESSURE (PSI)	BRAND
PIPE:	8 7/8	1250	1250	Star

JOINT NUMBER	THREAD STANDOFF	QUALITY CONTROL SUPERVISOR	COMMENTS
91 A	2		8 7/8 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	✓		✓

PAGE: 4 OF 6



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		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			
129 A			- inserted with 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

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

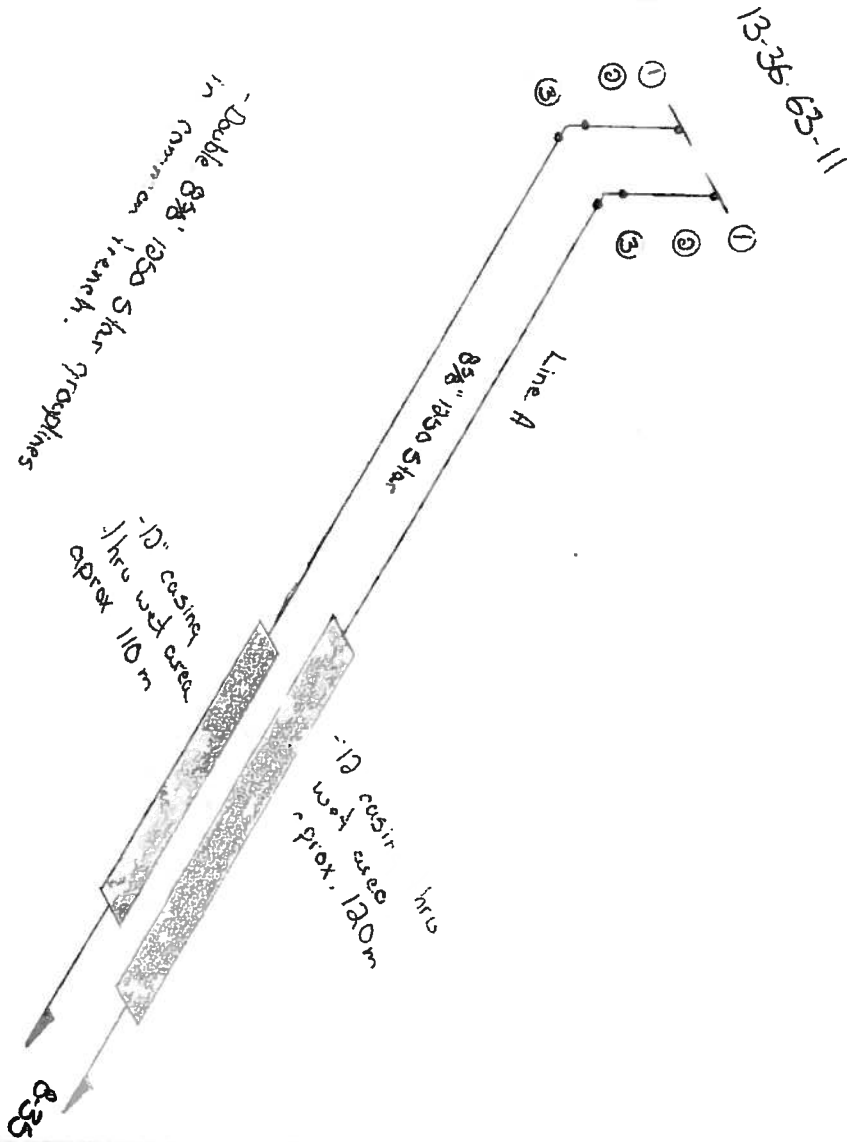
	SIZE (INCH)	SERIES	TEST PRESSURE (PSI)	BRAND
PIPE:	878	1250	1250	Star.

JOINT NUMBER	THREAD STANDOFF	QUALITY CONTROL SUPERVISER	COMMENTS
151 A	2		8 7/8 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 FIBERGLASS
ESTEVAN, SK RED DEER, AB
(306) 634-4950 (403) 347-4682
www.westernfiberglass.com

DATE	PROJECT	NO.	AREA	LOCATION	PROJECT
Aug 17/07	Paraguth	1	Judy Creek	13-36-63-11	
PROJECTED	PROJECTED	PROJECTED	PROJECTED	PROJECTED	PROJECTED



MATERIAL		
#	QTY	TYPE
1	2	8" 11" 200' flange
2	2	8 3/8" 5' Pipe
3	2	8 3/8" 90° elbow 1950
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		
32		
33		
34		
35		
36		



TEEVAN, 5K RED DEER, AB
6) 634-4950 (403) 347-4682
www.westernfiberglass.net

CUSTOMER:
Pencroft
DATE: 7/17/07
PREPARED:

2

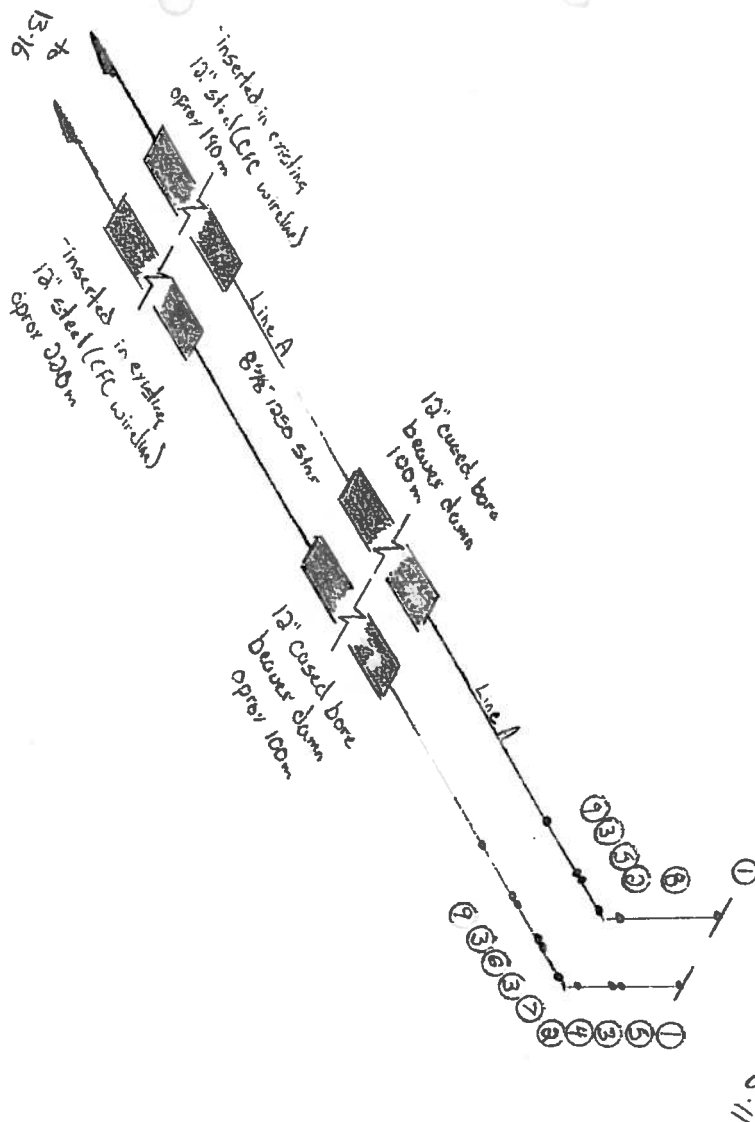
AREA	Irish Creek	SPOT:
------	-------------	-------

LOCATION	835.62.11
BORDER (1)	
BORDER (2)	

22	23	24
----	----	----

•

•



DATE		TYPE	
1	2/25/50	500	Flame
2	2/25/50	100	Flame
3	2/25/50	100	Flame
4	2/25/50	100	Flame
5	2/25/50	100	Flame
6	2/25/50	100	Flame
7	2/25/50	100	Flame
8	2/25/50	100	Flame
9	2/25/50	100	Flame
10	2/25/50	100	Flame
11	2/25/50	100	Flame
12	2/25/50	100	Flame
13	2/25/50	100	Flame
14	2/25/50	100	Flame
15	2/25/50	100	Flame
16	2/25/50	100	Flame
17	2/25/50	100	Flame
18	2/25/50	100	Flame
19	2/25/50	100	Flame
20	2/25/50	100	Flame
21	2/25/50	100	Flame
22	2/25/50	100	Flame
23	2/25/50	100	Flame
24	2/25/50	100	Flame
25	2/25/50	100	Flame
26	2/25/50	100	Flame



WESTERN FIBERGLASS
PIPE SALES LTD.

**DAILY TAILGATE
MEETING**

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

CUSTOMER: Pengrowth AREA: Judy Creek DATE (M/D/Y): 01/17/07
LOCATION: _____ CONTRACTOR: Flint

ADDRESS ALL OF THE FOLLOWING SAFETY CONCERNS:

	YES	NO	N/A		YES	NO	N/A
Overhead Power Lines	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Excavation Ladders	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Existing Pipelines Located	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Excavation Signs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Power / Energy / Phone Lines	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Pressure Testing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vessel Lines Purged	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Muster Point	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Valve Handles Locked and Tagged	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fire Extinguishers	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Safe Work Permits	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Eye Washes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Blinds Installed / Bleeds Opened	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	First Aid Kits	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Electrical Equipment Isolated	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fresh Water / Potable	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Continuous Gas Monitoring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Radios	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
H2S Monitoring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fire Resistant Clothing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Breathing Apparatus	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Specialized P.P.E. (_____)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Rigging / Slings / Cables	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hard Hats	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Windsocks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Safety Glasses	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Combustible Materials Removed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Safety Boots	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shoring / Cut Back Required	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Excavation Properly Back Sloped	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

PREVIOUS CONCERNS / UNRESOLVED CONDITIONS:

WORK BEING PERFORMED: Stringing out 8 5/8" pipe connecting 8 5/8" pipe with
power tongs. Installing Risers, Trenching, Backfilling.

NEW CONCERNS: Pinch points when string and connecting pipe. Check integrity of
tools before using. Proper Doping and wrench placement on bells and pins. Have
competent spotter during Backfill. Use sand when necessary. Pipe is prop supported
with sandbags when necessary.

CORRECTIVE ACTION PLANS: Follow all pengrowth/OH&S regulations.

PERSONNEL IN ATTENDANCE:

[Signature]
[Signature]
[Signature]

[Signature]
[Signature]
[Signature]

SUPERVISORS: Print [Signature]

Signature

WESTERN FIBERGLASS REP: Print [Signature]

Signature