

## NDE Progress Report

Form  
W12

Rev. 1

KEYSTONE PIPELINE

Date of Inspection: March 13, 2013 Spread 3 Page 1 of 1

Welding Contractor: Sunland NDE Contractor: SHAW

	Date of Inspection:		To Date:
	March 13, 2013		March 13, 2013
AUT SMAW Maingang total:	27		4996
Reject:	6		520
Cutouts:	3		85
Reject Rate:	33.3		12.1
AUT SMAW Minigang total:	0		0
Reject:	0		0
Cutouts:	0		0
Reject Rate:			
AUT (All Tie-Ins, Fab., Road Bores) total:	0		176
Reject:	0		24
Cutouts:	0		5
Reject Rate:			16.5
RT (All Tie-Ins, Fab., Road Bores) total:	14		626
Reject:	1		86
Cutouts:	0		3
Reject Rate:	7.1		14.2
AUT and RT Repairs total:	0		766
Reject:	0		64
Cutouts:	0		110
Reject Rate:			22.7
<b>GRAND TOTALS</b>			
Totals (temporary welds not included):	41		5798
Total Rejected:	7		630
Total Cutouts:	3		93
Total Reject Rate:	24.4		12.5

**Remarks**

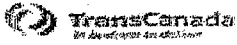
NOTE: This document has been adjusted to reflect the cut-outs. From now on when a repair is rejected it will be placed in the cut-out section as only one repair attempt is allowed unless approval for a second repair is granted by TCPL. Any reject that is over 30% of the OD circumference will be recorded in the cut-out area.

NDE Supervisor: Robert Lake

Keystone NDE Engineer: Gary Rolland Signature:

NDE Technicians: Carol Dean Anderson, Jason Miller, Daniel Bailey, Jack Mendivil, Chad Ashley

*JH 3/13/13*



# NDE Progress Report

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KEYSTONE PIPELINE

Date of Inspection: March 14, 2013 Spread 3 Page 1 of 1  
 Welding Contractor: Sunland NDE Contractor: SHAW

	Date of inspection: March 14, 2013	To Date: March 14, 2013
AUT SMAW Malngang total:	41	5037
Reject:	0	520
Cutouts:	1	86
Reject Rate:	2.4	12.0
AUT SMAW Minigang total:	0	0
Reject:	0	0
Cutouts:	0	0
Reject Rate:		
AUT (All Tie-Ins, Fab., Road Bores) total:	0	176
Reject:	0	24
Cutouts:	0	5
Reject Rate:		16.5
RT (All Tie-Ins, Fab., Road Bores) total:	16	642
Reject:	0	86
Cutouts:	0	3
Reject Rate:	0.0	13.9
AUT and RT Repairs total:	10	776
Reject:	0	64
Cutouts:	0	110
Reject Rate:	0.0	22.4

**GRAND TOTALS**

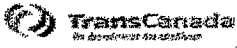
Totals (temporary welds not included):	57	5855
Total Rejected:	0	630
Total Cutouts:	1	94
Total Reject Rate:	1.8	12.4

**Remarks**

NOTE: This document has been adjusted to reflect the cut-outs. From now on when a repair is rejected it will be placed in the cut-out section as only one repair attempt is allowed unless approval for a second repair is granted by TCPL. Any reject that is over 30% of the OD circumference will be recorded in the cut-out area.

Supervisor: Robert Lake  
 Keystone NDE Engineer: Gary Rolland Signature: *Gary Rolland*  
 NDE Technicians: Carol Dean Anderson, Jason Miller, Daniel Bailey, Jack Mendivil, Chad Ashley

*Dr. 3/16/13*



# NDE Progress Report

Form W12

Rev. 1

KEYSTONE PIPELINE

Date of Inspection: March 15, 2013      Spread: 3      Page: 1 of 1  
 Welding Contractor: Sunland      NDE Contractor: SHAW

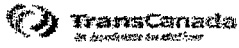
	Date of inspection: March 15, 2013	To Date: March 15, 2013
AUT SMAW Maingang total:	34	5071
Reject:	0	520
Cutouts:	0	86
Reject Rate:	0.0	12.0
AUT SMAW Minigang total:	0	0
Reject:	0	0
Cutouts:	0	0
Reject Rate:		
AUT (All Tie-Ins, Fab., Road Bores) total:	0	176
Reject:	0	24
Cutouts:	0	5
Reject Rate:		16.5
RT (All Tie-Ins, Fab., Road Bores) total:	16	658
Reject:	1	87
Cutouts:	0	3
Reject Rate:	6.3	13.7
AUT and RT Repairs total:	5	781
Reject:	0	64
Cutouts:	0	110
Reject Rate:	0.0	22.3
<b>GRAND TOTALS</b>		
Totals (temporary welds not included):	50	5905
Total Rejected:	1	631
Total Cutouts:	0	94
Total Reject Rate:	2.0	12.3

### Remarks

NOTE: This document has been adjusted to reflect the cut-outs. From now on when a repair is rejected it will be placed in the cut-out section as only one repair attempt is allowed unless approval for a second repair is granted by TCPL. Any reject that is over 30% of the OD circumference will be recorded in the cut-out area.

...JE Supervisor: Robert Lake  
 Keystone NDE Engineer: Gary Rolland      Signature: *G. Rolland*  
 NDE Technicians: Carol Dean Anderson, Jason Miller, Daniel Bailey, Jack Mendivil, Chad Ashley

*JA 3/15/13*



# NDE Progress Report

Form W12

Rev. 1

KEYSTONE PIPELINE

Date of Inspection: March 18, 2013 Spread 3 Page 1 of 1  
 Welding Contractor: Sunland NDE Contractor: SHAW

	Date of Inspection: March 18, 2013	To Date: March 18, 2013
AUT SMAW Maingang total:	44	5148
Reject:	3	529
Cutouts:	0	86
Reject Rate:	6.8	11.9
AUT SMAW Minigang total:	0	0
Reject:	0	0
Cutouts:	0	0
Reject Rate:		
AUT (All Tie-Ins, Fab., Road Bores) total:	3	179
Reject:	0	24
Cutouts:	0	5
Reject Rate:	0.0	16.2
RT (All Tie-Ins, Fab., Road Bores) total:	12	676
Reject:	1	88
Cutouts:	0	3
Reject Rate:	8.3	13.5
AUT and RT Repairs total:	8	792
Reject:	0	64
Cutouts:	0	110
Reject Rate:	0.0	22.0
<b>GRAND TOTALS</b>		
Totals (temporary welds not included):	59	6003
Total Rejected:	4	641
Total Cutouts:	0	94
Total Reject Rate:	6.8	12.2

### Remarks

NOTE: This document has been adjusted to reflect the cut-outs. From now on when a repair is rejected it will be placed in the cut-out section as only one repair attempt is allowed unless approval for a second repair is granted by TCPL. Any reject that is over 30% of the OD circumference will be recorded in the cut-out area.

1 TW weld on test header inspected by RT, not included in above numbers.

3 TW welds on pull heads inspected by RT, not included in above numbers.

NDE Supervisor: Robert Lake  
 Keystone NDE Engineer: Gary Rolland Signature: *Gary Rolland*  
 VDE Technicians: Carol Dean Anderson, Jason Miller, Daniel Bailey, Jack Mendivil, Chad Ashley