


Strategic Oil & Gas Ltd.
Final Well Operations Report
Strategic et al Cameron K-74
Well ID – 1972
300/K74601011715/0

- Feb 8, 2019 :** Inject 1000 liters of methanol into pig sender. Performed three cleaning pig runs with air. Performed batch run with 120 liters of inhibitor (1 part CRO9809 and 2 parts diesel). Installed spec blind on pipeline at J-74. Flare volume was 0.035 e3m3 in 3 hours.
- Feb 22, 2019 :** MIRU Global #5. SICP = 0 kPa. SITP = 5240 kPa. Performed SCVF test for 10 minutes. No bubbles. Unseated BHP. Tubing on slight vac. Pumped 15.0 m3 fresh water down casing.
- Feb 23, 2019 :** SICP = 1508 kPa. SITP = vac. Pumped 4.5 m3 fresh water down tubing. Pumped 10.0 m3 fresh water down casing. Pulled and laid down rods. Installed and pressure tested BOP's. Unset anchor. Pull and lay down tubing. Inspect on the way out of the hole (yellow – 148, blue – 0, green – 1 and red – 0).
- Feb 24, 2019 :** SICP = 2160 kPa. Pumped 10.0 m3 fresh water down casing. RIH with 139.7 mm 10K permanent bridge plug. Land at 1427.0 mKB. Filled tubing with 4.25 m3 fresh water and pressured up to 15000 kPa to set bridge plug. Pumped 8.5 m3 fresh water down casing. Rotate off of BP. Reverse circulate 7.0 m3 of fresh water to eliminate any air bubbles. Pressure test bridge plug to 7000 kPa for 15 minutes. Solid test. Mixed 0.5 m3 of 1700 kg/m3 cement. Circulated down tubing followed by 4.25 m3 fresh water. Rotate out of BP and lay down six joints tubing. Reverse circulated 17.0 m3 inhibited fresh water (0.5% CRW-132). No cement in returns. Cement top at 1387.0 mKB. Pull and lay down 10 joints tubing.
- Feb 25, 2019 :** Pull and lay down remaining tubing. Topped up casing with 300 liters diesel followed by 1.0 m3 50/50 inhibited methanol water. Remove BOP's, install wellhead and rig out.


March 25, 2019

WELL TERMINATION RECORD

INSTRUCTIONS:

1. Complete both pages.
2. Send one electronic copy of this form and supporting technical documentation by email to orogo@gov.nt.ca.
3. Send two signed hard copies of this form and supporting technical documentation by courier to:
 Chief Conservation Officer
 Office of the Regulator of Oil and Gas Operations
 4th floor Northwest Tower
 5201 50th Avenue
 Yellowknife NT X1A 3S9

WELL INFORMATION

Well Name	Strategic et al Cameron K-74	Operator	Strategic Oil & Gas Ltd.
Well Type	Development Well (if Other, specify _____)	Contractor	Global Well Servicing Rig 5
Well Identifier	1972	Current Well Status	Suspended

RELATED LICENCES AND AUTHORIZATIONS

Operating Licence No.	NWT-OL-2014-007	Operations Authorization	OA - 1237-001
PRA Licence No.	Production Licence 013	Approval to Alter Condition of Well	ACW - 2018-013

LOCATION INFORMATION

Coordinates Datum: NAD27 (if Other, please specify _____)

Surface	Lat 60 ° 3 ' 40 "	Long 117 ° 29 ' 27 "
Bottom Hole	Lat 60 ° 3 ' 40 "	Long 117 ° 29 ' 27 "

Region: Dehcho Unit K Section 74 Grid 60-10 117-15

ACTIVITY INFORMATION

Target Formation(s)	Sulphur Point	Field/Pool(s)	/
Elevation KB/RT	782.6 m	Ground Level / Seafloor	777.6 m
Spud/Re-entry Date	Feb 8, 2019 days	Total Depth	1465.8 m KB
Rig Release Date	Feb 25, 2019	Total Vertical Depth	1465.8 m KB

CASING AND CEMENTING PROGRAM

O.D. (mm)	Weight (kg/m)	Grade	Setting Depth (m KB)	Cementing (m ³)
219.1	35.72	J-55	424.9	34.0 tonnes
139.7	20.83	J-55	1465.8	25.0 tonnes

PLUGGING PROGRAM

Type of Plug	Interval (m KB)	Felt	Setting Depth (m KB)	Cementing (m ³)
Bridge	1386.8-1428.8	No	1428.8	0.5
Select	-	Select		
Select	-	Select		
Select	-	Select		

PERFORATION

Interval (m KB)	Comments
1431.0-1434.0	Sulphur Point - abandoned zone
-	
-	
-	

OTHER

Lost Circulation/Overpressure Zones	
Equipment Left on Site (Describe)	Oil well production equipment
Provision for Re-entry (Describe and attach sketch)	
Other Downhole Completion/Suspension	
Additional Comments	

"I certify that the information provided on this form is true and correct"

Name	Ken Nikiforuk	Phone	(403) 767-2944 Ext
Title	Completions Manager	E-Mail	knikiforuk@sogoil.com
Operator	Strategic Oil & Gas Ltd		
Signature		Date	March 25, 2019
	Responsible Officer of Company		

OROGO use only
 Unique Well Identifier 30_ / _ - _ - / _
 (eg. 300 / A01 60-00 120-00 / 0)



Company
STRATEGIC OIL & GAS LTD

Reference	CS0031611
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Prepared For
JACK HARVEY

Phone Number

Location	
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Prepared by
ROB MITCHELL

Phone Number
780 926-1398

K-74, CAMERON HILLS

Service Center
HIGH LEVEL

Phone Number
780 926-2634

Date	2019-02-24
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Tubular	Size (mm.)	Weight (kg/m)	Grade	Thread	Top Depth	Bottom Depth
CASING	139.70	20.83				

[illegible]

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CE=1427.0m



Tel2:
Tel1: (403) 596-8084

Page 1 of 1

Operator: Strategic Oil & Gas Ltd.

Reporting To: Ken Nikiforuk

Consultant: Jack Harvey

Tel2:

Tel1: (403) 596-8084

UWI: 300K746010117150		WELL: Strategic et al Cameron K-74		DATE: 24-Feb-2019	
24 Hr Summary: RIH with BP. Set & PT BP. CIRC down cement. POOH sideways.					
Formation: Sulphur Point		Surf Loc: K-74 60-10N 117-15W		Licence: 1972	
Objective: Abandon Sulphur Point Zone		Abandonment Type: Downhole		Serv Rig Start:	
Operations at 6:00: RIH Set & PT BP. Circ down cement. POOH sideways.		AFE #: 19ABCAM009		AFE Estimate: \$176,492.00	
Daily Cost: \$21,787		Previous Cumulative Cost: \$71,109		Cum Cost: \$92,896	
Ground:	777.60 m	KB To TH	4.49 m	Open Hole:	mKB
KB to Grd:	5.00 m	Tubing:	73 mm	Bot at:	1433.81 m
TD (MD):	1,455.80 m	Casing:	139.7 mm	Set at:	1465.8 m
PBTD:	m	Liner:	mm	Top at:	m
BOP Drill: yes		BOP Press Test: yes		Function Test: yes	
SITP:	NA kPa	SICP:	2160 kPa	SCV:	0 kPa
				H ₂ S	%

Remarks:

Time From	Time To	Hours	Code	Comments
07:00	07:30	0.5	SAFE	Conduct pre job safety and operational meeting with all personnel on location. Discussed H2S, high pressure lines, Suspended loads, use of tag lines, 3rd party services, good communication, working in extreme temperatures.
07:30	07:45	0.25	SHUT	Read and record SICP-2160 kpa.
07:45	08:30	0.75	KILL	Pump 10m ³ of fresh water down casing. Casing on vacuum.
08:30	13:00	4.5	TRPTBG	Tally, drift, make and RIH with permanent BP, setting tool and mechanical casing collar locator, picking up pipe sideways from catwalk. Locate casing collars at 1392.4, 1405.9, and 1419.2 mkb. Get on depth (correlated to Computalog perforating log dated Feb. 15, 2003) Set BP CE @ 1427.0 mkb. Fill tubing with 4.25m ³ of fresh water. Pressure up to 15 mpa and set BP. Pull 15,000 daN over string weight to packoff element and set lower slips.
13:00	15:00	2	PTST	Fill casing with 8.5m ³ of fresh water. Rotate off of BP. Reverse circulate 7.0m ³ of fresh water to get any air bubbles out. Pressure test down casing to 7000 kpa for 15 minutes. Solid test.
15:00	17:30	2.5	CIRC	Mix 0.5m of 1700 kg/m Class "G" cement. Pour into tubing and displace down with 4.25m ³ of fresh water. Pull out slowly rotating tubing and laying down 6 joints. Reverse circulate 17m ³ of 0.5% CRW132 inhibited fresh water. Cement top @ 1387 mkb by volume.
17:30	18:30	1	TRPTBG	Pull and lay down 10 joints to get above cement top. Land tubing hanger.
18:30	19:30	1	SDFN	Secure well and location. Drain pump and lines. Fuel and winterize all equipment. SDFN.

Total: 12.5

Equipment on Location:

Reservoir Fluids Summary	Reset <input type="checkbox"/> Gas:	Daily:	10 ³ m ³ /d	Cum:	0 10 ³ m ³	Tubing volume:	m ³
	Cums <input type="checkbox"/> Oil or Condensate:	Daily:	m ³	Cum:	0 m ³	Csg. ann vol:	m ³
	<input type="checkbox"/> Water:	Daily:	m ³	Cum:	0 m ³	Open hole vol:	m ³
	Time Swabbed/Flowed:	Daily:	0.00 hrs	Cum:	hrs	Total:	0 m ³
Load Fluids	Reset <input type="checkbox"/> OIL	Used	m ³	Cum	0 m ³	Rec	m ³
	Cums <input type="checkbox"/> WATER	Used	12 m ³	Cum	39.5 m ³	Rec	m ³
	<input type="checkbox"/> OTHER	Used	m ³	Cum	0 m ³	Rec	m ³
Hours	Service Rig Hours	Daily	12.50 hrs	Cumulative	34.00 hrs	DownTime:	hrs
	Personnel on Location	Rig:	6	Service:	4	Company:	1
	Weather: Sunny	Temp	-25 °C	Lease:	Snow covered	Total Personnel:	11
Manager:		Programmed By:					

Operator: Strategic Oil & Gas Ltd.

Reporting To: Ken Nikiforuk

Consultant: Jack Harvey

Tel2:
Tel1: (403) 596-8084

UWI: 300K746010117150		WELL: Strategic et al Cameron K-74		DATE: 23-Feb-2019	
24 Hr Summary: POOH with BHP, Install BOP's, POOH scoping tubing					END: 26-Feb-2019
Formation: Sulphur Point		Surf Loc: K-74 60-10N 117-15W		Licence: 1972	Day #: 3
Objective: Abandon Sulphur Point Zone		Abandonment Type: Downhole		Serv Rig Start: Serv Rig End	
Operations at 6:00: POOH with BHP, Install BOP's, POOH with prod. Tubing		AFE #: 19ABCAM009		AFE Estimate: \$176,492.00	
Daily Cost: \$19,792		Previous Cumulative Cost: \$51,317		Cum Cost: \$71,109	
Ground:	777.60 m	KB To TH	4.49 m	Open Hole:	mKB
KB to Grd:	5.00 m	Tubing:	73 mm	Bot at:	1433.81 m
TD (MD):	1,455.80 m	Casing:	139.7 mm	Set at:	1465.8 m
PBTD:	m	Liner:	mm	Top at:	m
BOP Drill: yes		BOP Press Test: yes		Function Test: yes	
SITP:	vac kPa	SICP:	1508 kPa	SCV:	0 kPa
				H ₂ S	%

Remarks:

Note: Extreme temperatures and windchills and, high and awkward wellheads making for slow operations.

Time From	Time To	Hours	Code	Comments
7:00	07:30	0.5	SAFE	Conduct pre job safety and operational meeting with all personnel on location. Discussed H2S, high pressure lines, Suspended loads, use of tag lines, 3rd party services, good communication, working in extreme temperatures.
07:30	07:45	0.25	SHUT	Read and record SITP-vac, SICP-1508.
07:45	08:15	0.5	KILL	Pump 4.5m ³ of warm water to flush wax on rods. Pump 10m ³ of fresh water down casing. Both sides on vacuum. Remove Stuffing box. Function test rod BOP.
08:15	12:30	4.25	TRPROD	Install and pressure test to 1.4 and 7 ma for 10 minutes each. Good test. POOH laying down rods on tarps.
12:30	16:00	3.5	BOPS	Function test BOP's. Good test. Stump test blind rams to 1.4 mpa and 21 mpa for 10 minutes each. Good test. Install ported landing pup and TIW safety valve. Pressure test 73mm pipe rams and TIW safety valve to 1.4 and 21 mpa for 10 minutes each. Good test. Pressure test annular to 1.4 and 7 mpa for 10 minutes each. Good test. Remove wellhead. Pull tubing hanger and install 73mm 2ft pup joint for releasing tubing anchor. Install BOP's and pressure test ring gasket and pipe rams to 1.4 mpa and 21 mpa for 10 minutes each. Good test. Rig in work floor and handling equipment.
16:00	18:30	2.5	TRPTBG	Release tubing anchor. POOH laying down pipe sideway inspecting for integrity. 148 joints of yellow band, 1 green band.
18:30	19:00	0.5	SDFN	Secure well and location. Drain pump and lines. Fuel and winterize all equipment. SDFN.

Total: 12

Equipment on Location:

Reservoir Fluids Summary	Reset <input type="checkbox"/> Gas:	Daily:	10 ³ m ³ /d	Cum:	0 10 ³ m ³	Tubing volume:	m ³
	Cums <input type="checkbox"/> Oil or Condensate:	Daily:	m ³	Cum:	0 m ³	Csg. ann vol:	m ³
	<input type="checkbox"/> Water:	Daily:	m ³	Cum:	0 m ³	Open hole vol:	m ³
	Time Swabbed/Flowed:	Daily:	0.00 hrs	Cum:	hrs	Total:	0 m ³
Load Fluids	Reset <input type="checkbox"/> OIL	Used	m ³	Cum	0 m ³	Rec	m ³
	Cums <input type="checkbox"/> WATER	Used	14.5 m ³	Cum	27.5 m ³	Rec	m ³
	<input type="checkbox"/> OTHER	Used	m ³	Cum	0 m ³	Rec	m ³
Hours	Service Rig Hours	Daily	12.00 hrs	Cumulative	21.50 hrs	DownTime:	hrs
	Personnel on Location	Rig:	6	Service:	4	Company:	1
	Weather: Sunny	Temp	-20 °C	Lease:	Snow covered	Roads:	ice roads
Manager:		Programmed By:					



114-172 Clearview Drive Red Deer County, AB T4E 0A1

Field Ticket
Contact
Phone

P91035

Chad Rookes

780-512-5009

Customer Information

Company Name	Strategic Oil & Gas	Date	February 23, 2019
Surface Location	K-74-60-10N-117-15W	AFE No.	
UWI	K-74-60-10N-117-15W	Contract	
Rig Name & #	Global # 5	Co. Rep	Jack Harvey
Area	Peace River, AB	Code #	

Wellhead Tubing Inspection

Qty	Description	Unit Price	Total
149	Joints of 73.0mm, 9.67Kg, J55, EUE Tubing Inspected	\$ 15.00	\$ 2,235.00
420	Kms From Base & Return	\$ 1.50	\$ 630.00
Sub Total			\$ 2,865.00
10% Discount			\$ -286.50
New Sub Total			\$ 2,578.50
GST			\$ 128.93
Total			\$ 2,707.43

Ultra Sonic Measurements		
Jt #	Wall Min	Wall Max
1	0.209	0.218
50	0.210	0.216
100	0.212	0.218

Head	60H04
Console	B0107
T-MGN	150H
R-WDS	150M

0-15%	Yellow	148
16-30%	Blue	0
31-49%	Green	1
50+%	Red	0
Total		149

Order of Tubing Pulled	
1	73mm J55 EUE Tubing
2	73mm J55 EUE Pups
143	73mm J55 EUE Tubing
1	Anchor
4	73mm J55 EUE Tubing
1	PSN
1	73mm J55 EUE Tubing

	Time Requested	1:05 PM	Inspection Start Time	4:05 PM
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Inspector Justin Hanusz

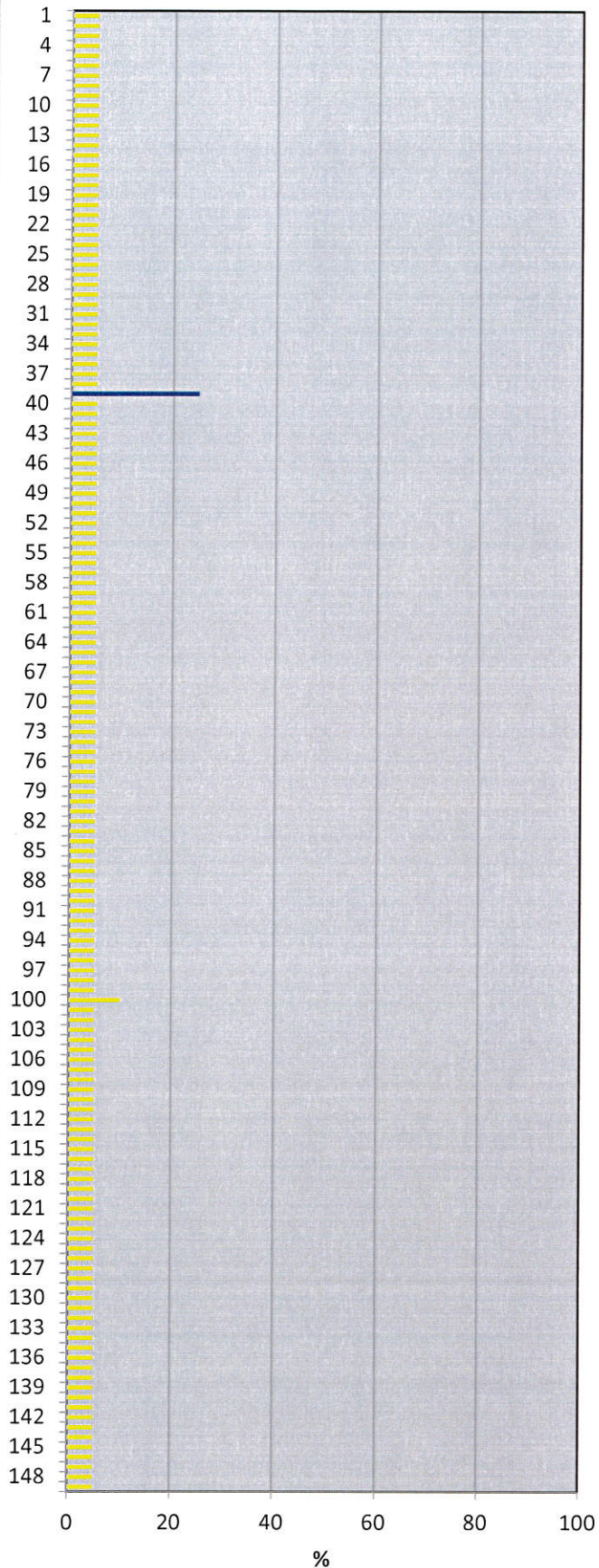
Customer _____

Jt#	Wall Loss	Pitting	Damage
1	5	5	
1	Ultrasonic Wall Min: 0.209 Max: 0.218		
2	5	5	
3	5	5	
4	5	5	
5	5	5	
6	5	5	
7	5	5	
8	5	5	
9	5	5	
10	5	5	
11	5	5	
12	5	5	
13	5	5	
14	5	5	
15	5	5	
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22	5	5	
23	5	5	
24	5	5	
25	5	5	
26	5	5	
27	5	5	
28	5	5	
29	5	5	
30	10	5	
31	5	5	
32	5	5	
33	5	5	
34	5	5	
35	5	5	
36	5	5	
37	5	5	
38	10	5	
39	40	25	Wall Loss & Pitting
40	5	5	
41	5	5	
42	5	5	
43	5	5	
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50	5	5	

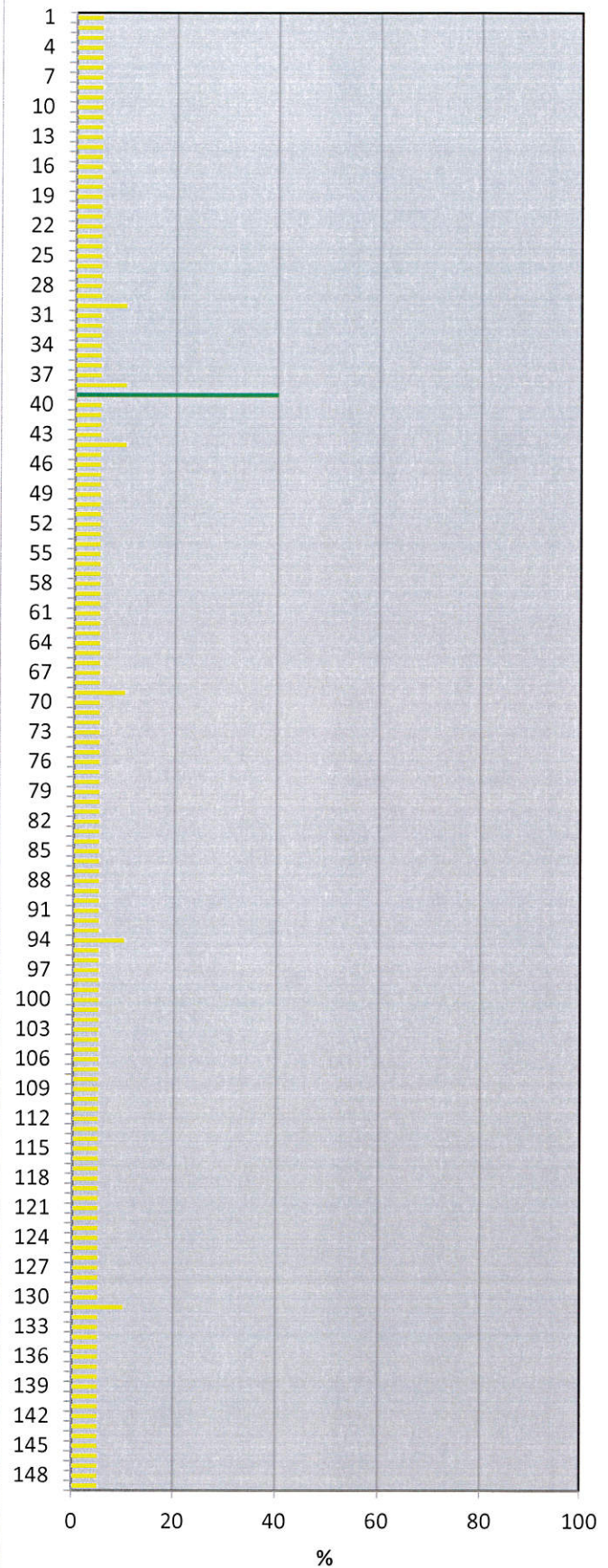
Jt#	Wall Loss	Pitting	Damage
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78	5	5	
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88	5	5	
89	5	5	
90	5	5	
91	5	5	
92	5	5	
93	5	5	
94	10	5	
95	5	5	
96	5	5	
97	5	5	
98	5	5	
99	5	5	
100	5	10	
100	Ultrasonic Wall Min: 0.212 Max: 0.218		

Jt#	Wall Loss		
101	5	5	
102	5	5	
103	5	5	
104	5	5	
105	5	5	
106	5	5	
107	5	5	
108	5	5	
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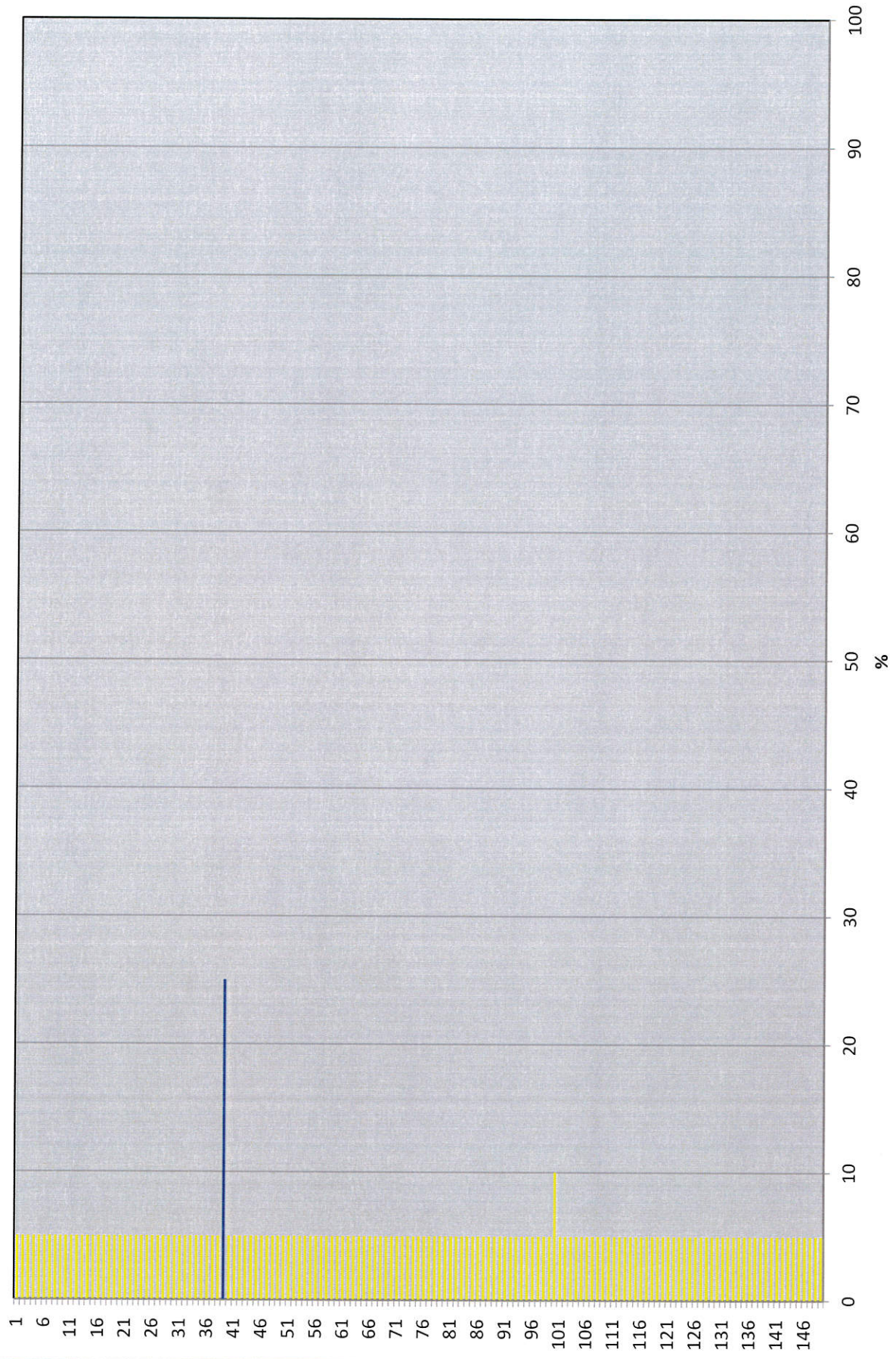
Pitting 1 to 149



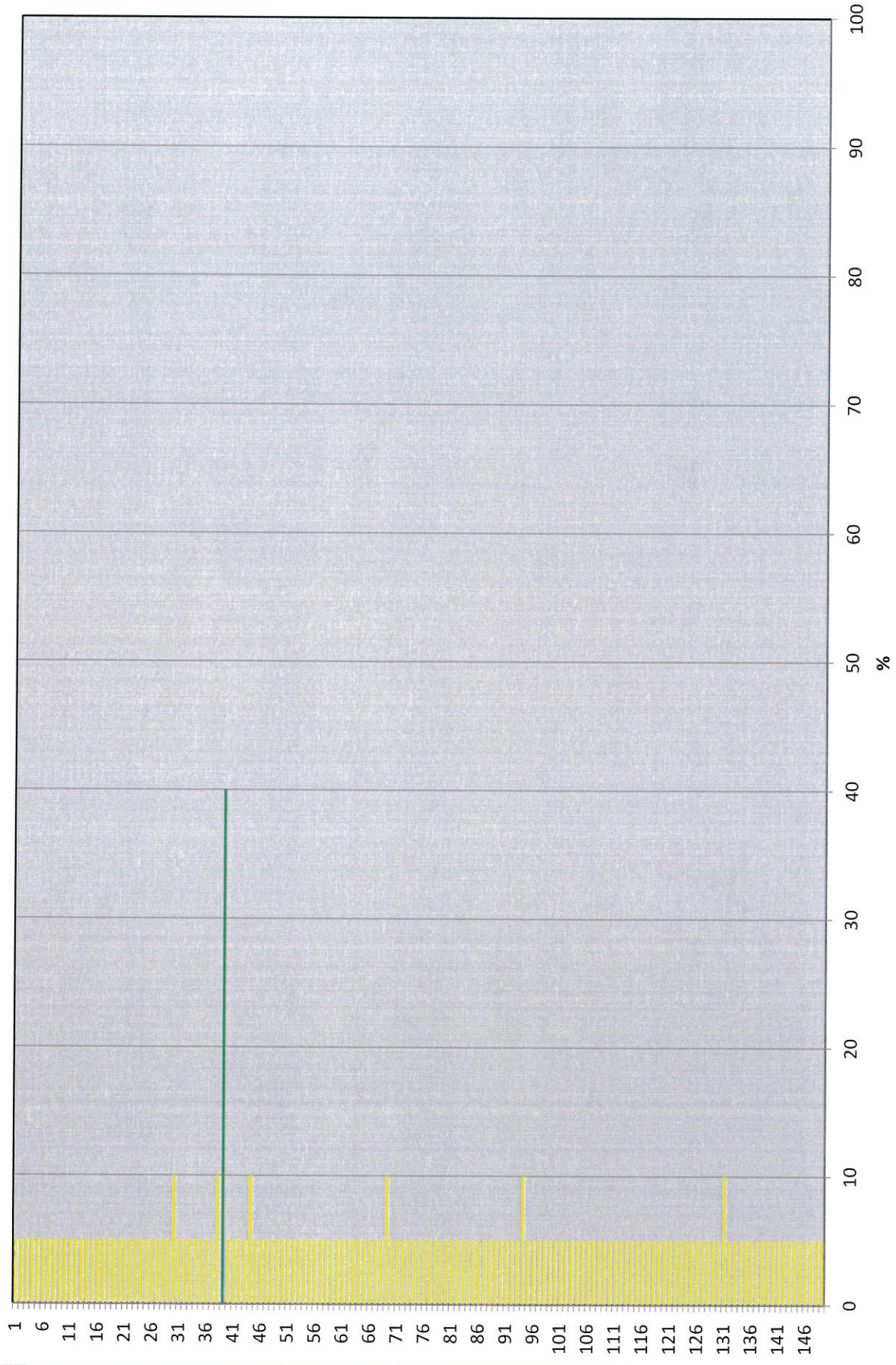
Wall Loss 1 to 149



Pitting 1 to 149



Wall Loss 1 to 149





Tel2:
Tel1: (403) 596-8084

Remarks:

Total:	9.5
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Equipment on Location:

Page 1 of 1



Tel2:
Tel1: (780) 830-8303

Remarks:

Total:	10.5
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Equipment on Location:

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