

January 23, 2023

Office of the Regulator of Oil and Gas Operations
PO Box 1320
Yellowknife NT, X1A 2L9

By Email: orogo@gov.nt.ca

RE: Application to alter the condition of a well – Strategic et al Cameron C-75

ELM Inc, acting on behalf of Alvarez & Marsal Canada Inc in their capacity as the receiver for Strategic Oil and Gas Ltd submits the following documents as part of an application to alter the condition of the above well.

1. Application form to alter 300 C-75 60-10N 117-15W
2. Signed declaration
3. Well abandonment program
4. Existing well schematic
5. Proposed well schematic
6. Previous downhole suspension reports Jan 19, 2019

ELM has previously sent in documents for the following equipment that is currently active in Cameron Hills and will use on this well.

Service Rigs

- Triumph Well Servicing rig #2: Sent December 20, 2022
- WSK Well Services rig #4: Sent December 23, 2022
- Roll'n Oilfield Industries Rig #33: sent December 22, 2022
- Roll'n Oilfield Industries Rig #32: sent December 22, 2022

Boilers:

- WSK Well Service: sent January 3, 2023
- R&T TKO Oilfield Services Ltd: sent January 4, 2023
- Alpha Boiler Service (Energetic Services): sent January 6, 2023
- Meteor Energy (Miktye Trucking): Sent January 17, 2023

Pressure Tanks:

- ProFlo Production Services pressure tanks 7 and 10: sent January 4, 2023
- Stack Production Testing tanks 5 and 7: sent December 29, 2022



ELM Inc
Bow Valley Square II
Suite 1000, 205 – 5th Ave SW
Calgary AB, T2P 2V7

Coil Tubing

- 1697949 Alberta Ltd (Titanium Energy Services)

ELM proposes to conduct gas migration testing on this well during the summer months of 2023. Should a gas migration issue be found, the well will be re entered for repair.

Should you have any questions or require further information, please contact the undersigned at christopher@elminc.ca

Sincerely,

Christopher Gagnon, EIT

ELM Inc, acting as a consultant to Alvarez & Marsal Canada Inc

APPROVAL TO ALTER THE CONDITION OF A WELL

This form is an application for a Well Approval under Section 10 of the *Oil and Gas Drilling and Production Regulations*.

INSTRUCTIONS:

1. Complete both pages.
2. Send one electronic copy of this form and supporting technical documentation by email to orogo@gov.nt.ca. If you wish to communicate with OROGO in hard copy, please do so using the courier address found at www.orogo.gov.nt.ca.

WELL INFORMATION

Well Name	Strategic et al Cameron C-75	Operator	Strategic Oil & Gas
Well Type	Development Well (if Other, specify _____)	Contractor	ELM Inc

RELATED LICENCES, PERMITS, AND AUTHORIZATIONS

Operating Licence No.	NWT-OL-2014-007	Operations Authorization	OA-2018-003-SOG
PRA Licence No.	Production Licence 13	Station Keeping	Not Applicable
		Land Structure	Conventional Land
Land Use Permit No.	MV2022X0018	Issued by:	Mackenzie Valley Land and Water Board
Water Licence No.	MV2010L1-0001	Issued by:	Mackenzie Valley Land and Water Board

ACTIVITY INFORMATION


Current Well Status	Suspended	Anticipated Well Status	Abandoned
Well Path	Vertical	Elevation KB/RT	788.5 m
Approximate Start Date	January 25, 2023	Ground Level / Seafloor	783.6 m
Est. Days on Location	4 days	Anticipated Total Depth	1438.3 m KB

WELL OPERATION PROGRAM

Activity Type	Top to Bottom Interval (m KB)	Comments
Abandonment	???-???	Remedial Cementing (If Required)
Abandonment	0-6.4	Cut and cap (1.5 m below ground level)
Abandonment	1013.7-1038	Permanent Bridge Plug w/ 500 L Cement
Abandonment	1382.5-1412	Permanent Bridge Plug w/ 250 L Cement

Additional Information

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

Name	Duncan MacRae	Phone	(403) 538-7514
Title	Vice President	E-Mail	dmacrae@alvarezandmarsal.com
Operator	Alvarez & Marsal Canada Inc., in its capacity as receiver of Strategic Oil & Gas's NWT Property		
Signature	 <i>Responsible Officer of Company</i>	Date	January 13, 2023

DECLARATION BY APPLICANT

Applicant Strategic Oil & Gas Ltd. c/o Alvarez & Marsal Canada Inc

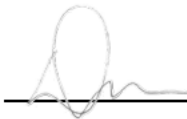
Title of Application ACW – Strategic et al Cameron C-75 – Abandon wellbore

Pursuant to subsection 15(1) of the *Oil and Gas Operations Act*, the Applicant declares that in respect of the above-referenced Application:

- a) the equipment and installations that are to be used in the work or activity to be authorized are fit for the purposes for which they are to be used, the operating procedures relating to them are appropriate for those uses, and the personnel who are to be employed in connection with them are qualified and competent for their employment; and,
- b) the Applicant shall ensure, so long as the work or activity that is authorized continues, that the equipment and installations continue to be fit for the purposes for which they are used, the operating procedures continue to be appropriate for those uses, and the personnel continue to be so qualified and competent.

Dated this 23rd day of January 2023.

Signature of Responsible Officer



Name and Title of Officer

Duncan MacRae, Vice President

Please complete this declaration and enclose with the application to the Office of the Regulator of Oil and Gas Operations for an authorization under paragraph 10(1)(b) of the *Oil and Gas Operations Act*.



ELM
Environmental Liability Management

Routine Well Abandonment Program

Strategic Oil and Gas Ltd. C/O Alvarez & Marsal Canada
Inc.

STRATEGIC ET AL CAMERON C-75
300/C75 60-10N 117-15W

Elm Inc. Project Number: STRA050

Developed by: Christopher Gagnon EIT
Reviewed by: Malcolm McKean P.Eng

January 23, 2023

ROUTINE ABANDONMENT PROGRAM

BACKGROUND:

- Suspended vertical well with liner
- Well produced oil from Sulphur Point formation
- Suspended with G" packoff plug set in tubing at 1398.8 mKB
- Tubing filled with 2.4m3 of (0.5% CRW132) inhibited water followed by 0.2m3 of 50/50 inhibited methanol water

ABSTRACT:

- Move on slickline and remove “G” packoff plug and collar stop
- Move on service rig to unseat packer and pull tubing out of hole
- Abandon Sulphur Point with bridge plug and cement
- Move on wireline to run cement bond log
- Perform remedial cementing in liner if required
- Abandon liner with bridge plug and cement
- Circulate well to fresh water
- Perform remedial cementing in the intermediate casing if required
- Cut and cap the well

CONTACTS:

Elm Inc. Calgary Office

Malcolm McKean P.Eng, Vice President Liability	██████████ – Cell	Malcolm@elminc.ca
Christopher Gagnon EIT, Operations Engineer	██████████ – Cell	Christopher@elminc.ca

Elm Inc. Field Staff

To be determined	To be determined	To be determined

Client Contact

Duncan MacRae – Director, A&M	██████████ - Cell	dmacrae@alvarzeandmarsal.com
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Regulator Contact

OROGO - Office	867-767-9097	orogo@gov.nt.ca
OROGO - 24-hour emergency line	1-867-445-8551	
NWT Spill Line	1-867-920-8130	

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WELL INFORMATION:

WELL NAME: STRATEGIC ET AL CAMERON C-75
UNIQUE ID: 300/C75 60-10N 117-15W
SURFACE LOCATION: Lat 60° 4' 2" Long 117° 29' 12" (60.06758, -117.4880)
LICENSE #: 1793
STATUS: Suspended
TOTAL DEPTH: 1590 mKB
ELEVATIONS: **GL:** 783.6 m **KB:** 788.5 m
BGWP: 600.0 mKB
PLUG BACK: 1438.3 mKB (WR)
H₂S DATA: 0.6% from Daily Workover Report dated January 19, 2019
SCVF: None, last tested January 18, 2019
GAS MIGRATION: None, last tested September 30, 2018
SITP: Assume to be 0 kPa
SICP: 0 kPa
RESERVOIR PRESSURE: 5414.9 kPa – Bottom Hole Static Gradient – Jan 17, 2012
MAX FLARE VOLUME: 1.5 x wellbore volume at 10 MPa = 3.92 e3m3

LANDOWNER: Crown

DIRECTIONS: Refer to maps

COMPLETION:

Sulphur Point: 1439.0 – 1441.0 mKB (cement squeezed)
'WCR' Cement Retainer – COE at 1438.5 mKB
'RNT' Bridge Plug – 1438.3 mKB
WR – COE 1428.3 mKB (unconfirmed)
Sulphur Point: 1433.0 – 1436.5 mKB (suspended)
Sulphur Point: 1423.5 – 1431.5 mKB (suspended)

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FORMATIONS:

<u>Formation</u>	<u>MD (m)</u>
Bluesky	543.0
Wabamun	561.0
Jean Marie	700.0
Fort Simpson	706.0
Twin Falls	824.0
Hay River	991.0
Beaverhill Lake	1290.0
Muskwa	1332.0
Slave Point	1359.0
Fort Vermillion	1388.0
Watt Mountain	1404.0
Sulphur point Limestone	1409.0
Sulphur Point Dolomite	1424.0
Muskeg	1443.0
Keg River	1539.0
TOTAL DEPTH	1590.0

TUBULARS:

SURFACE CASING: 244.5 mm, 53.57 kg/m, J-55, LT&C. Casing landed at 402 mKB. Cemented with 30.0 T 0-1-0 Class G + 2.0% CaCl₂,
9 m³ cement Returns

INTERMEDIATE CASING:

177.8 mm, 34.23 kg/m, LS-65, LT&C. Casing landed at 1130 mKB. Cemented with 11.75 T 0-1-0 Class G + 33.3% Microsil + 0.5% T-10 + 9.0% CaCl₂, followed by 4.5 T Thix 'G' + 0.4% D23 + 1% CaCl₂ + 0.1% SPC-12000
3 m³ cement Returns

LINER:

114.3mm, 14.14 kg/m, J-55, ST&C. Landed at 1590 mKB. Liner Top at 1048 mKB. Cemented with 13 T Thixmix 'G' + 1.0% CA-2 + 0.4% D-23 + 0.1% SPC12000
No Cement Returns on file
No Cement Bond Log on file.

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Casing size and weight	Casing ID (mm)	Casing Drift (mm)	Casing Capacity (m3/m)	Top of Plugback	Casing Capacity to Plugback (m3)
177.8 mm 34.23 kg/m	161.70	158.52	0.020535	N/A	N/A
114.3mm, 14.14 kg/m	103.89	100.71	0.008476	1422.0	6.10
73mm, 9.67 kg/m (Tubing)	62.00	59.61	0.003019	1398.8	4.22

**Annular volume between 73mm Tubing and 114.3mm, 14.14 kg/m Casing String: 0.004422 m3/m

TUBING:

73mm Tubing to Surface

‘F’ Nipple with 58.75mm profile

73mm Pup Joint

73mm X 60mm Swage

‘NFT’ On-Off Connector w/ 46.02mm ‘R’ Profile w/ 44.7mm NoGo

Cardium ‘DGP’ Retrievable Packer – 1422 mKB

Assume tubing landed at 1424 mKB

Set Collar above Profile Nipple at 1398.8 mKB

Set "G" packoff plug on top of Collar stop (G-Packoff plug set in tubing at 1398.8 mKB)

Pressure tested tubing to 7 mPa for 15 minutes. Solid Pressure test.

DOCUMENTATION & REPORTING:

Daily operation reports are to be emailed prior to 7:00 am the next day following operations.

They are to be sent to the ELM Inc office via ElmDownholeOffice@elminc.ca

Daily reports are to include a detailed description of the day’s events along with all third party services that were utilized and their respective billing charges. These billing charges are to be added and represented by a daily operational cost. These total daily operational costs are to be reflected in a to-date accumulative cost. Along with the daily report the email must include a brief description of the work that was done that day, as well as a 24 hour forecast for the work to be done the following day.

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Any incident or injury is to be reported immediately, after appropriate first- and/or medical-aid has been administered to the Elm Inc. office staff in Calgary. After the situation has been placed under control and all affected parties have been aided or corrected, an incident investigation is to take place and attempt to gather all necessary information via written witness statements and summarized in an incident investigation form. Elm Inc. Calgary office staff will then inform the appropriate client representatives of what has taken place.

After the abandonment has been completed, the well site supervisor is to provide the office staff in Calgary with all third-party purchase orders and field tickets/service reports, material transfers, waste manifests along with all appropriate field safety documents. This needs to be completed immediately following the job.

SAFETY:

A safety meeting is to be held with all service company personnel prior to each job. Wellsite supervisor must notify contractors of known hazards of which contractor(s) may be unaware. Wellsite supervisor must ensure that workers are aware of their responsibilities and duties under OH&S regulations and that worker comply with regulations. All service companies supplying materials will review Safety Data Sheets at this meeting for all products supplied and maintain these Safety Data Sheets available for worker's examination on location in compliance with WHIMIS regulations. All Safety meetings will be recorded on the daily reports.

Whenever possible, plan and conduct all workover procedures in a manner which will avoid the mixing of air & hydrocarbons in the well bore and connected surface piping. If mixing does occur, purge prior to pressurizing or exposing mixture to any other possible source of ignition.

All applicable regulations, including, but not limited to the NWT Office of the Regulator of Oil and Gas Operations (OROGO) and Occupational Health and Safety regulations, are to be strictly adhered to. Written instructions must be posted in the doghouse or other conspicuous area prior to the wellsite supervisor leaving the lease. Wellsite supervisor must designate, in writing, a competent person to carry out principal contractor's responsibilities. All verbal notifications and approvals from government regulatory agencies will be recorded on the daily report. The name of the individual contacted, and the subject matter of approval or notification should be recorded on the same.

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REGULATORY:

OROGO regulations require that the Well Approval as signed by the regulator must be posted in a clearly visible location on the work site. The well approval, its additional terms, and this well abandonment program must be precisely followed.

ABANDONMENT PROGRAM:

Pre-Operations Notifications:

1. Notify the Area Foreman 48 hours before operations to begin.

Mobilize and Inspections:

2. Mobilize to location and inspect access. Ensure that access is clear to allow two-way traffic in and out of the site.
3. Mobilize and move in a service rig with Class III BOP system, doghouse, pump and tank, mobile boiler, pressure tank with flare, and air safety trailer.
 - NOTE: Tubing in well has slim collars. Ensure rig has appropriate handling equipment.
4. Hold and record a safety and procedure meeting with all personnel on location. Perform a walk around inspection to ensure no hazards on the site. Document meeting topics and prepare a site-specific ERP.
5. Disassemble the SCVF piping and ensure that it is not blocked. Re assemble the piping and install a bottle and hose type tester. Watch tester and ensure there are no bubbles in 10 minutes. Document test on daily report and on the "Surface Casing Vent Flow" form. If using a non-freezing liquid (example windshield washer fluid) for the test, document the liquid used and the density. Ensure that the vent stays open and clear of obstructions throughout all operations and note any subsequent flows on the daily report.

Remove the tubing string

6. Transfer minimum 27 m³ of fresh water to rig tank. Mix H₂S scavenger into the water as per the manufacturer's directions.
 - NOTE: Formations are under pressured, fresh water will be adequate for well kills. Ensure 1.5 times hole volume is on location for well kill.

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7. Lay circulating lines from wellhead to pressure tank and to the rig tank. Stake lines and pressure test to 1.4 mPa low and 21 Mpa high for 10 minutes per test.
8. Bleed off any well pressure to the pressure tank and flare.
9. Stump test the BOP stack. Test the ram preventors to 1.4 mPa low and 21 Mpa high for 10 minutes per test. Test the annual preventor to 1.4 Mpa low and 7 Mpa high for 10 minutes each Review and function test all components and the accumulator system.
10. Break down the wellhead, if necessary, install a landing pup and stabbing valve, then install the BOP stack. Pressure test the connections to 1.4 mPa low and 21 Mpa high for 10 minutes per test.
11. Move on and rig up slickline truck. Rig up all equipment to SOG and OROGO requirements.
12. RIH with retrieving tool to the G- Packoff Plug at 1398.8mKB.
13. Unset the plug and allow the wellbore to equalize
14. Pull the plug and retrieving tool.
15. Rig out and release slickline.
16. Unset the packer (right hand release). Allow 15 minutes for elements to relax.
17. Pull and stand the tubing. Lay down any joints that appear corroded or otherwise suspect. If necessary, move on a work string of good tubing.

Abandon Production Zone with Permanent Bridge Plugs

18. Pick up 10K 114.3mm permanent bridge plug on HM type setting tool. Run in hole with plug.
19. Set plug at +/- 1412 mKB. Use setting procedure provided by the tool company.
 - NOTE: A bridge plug must not be set within 5 meters of a casing collar. Collars are at 1402.5 and 1417 mKB.
20. Fill annulus with fresh water. Close pipe rams and pressure test the bridge plug to 7000 kPa for 15 minutes.
21. Rotate off the bridge plug as per tool company procedure.

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22. Mix 250L of class G cement in barrel. Circulate cement down tubing using attached procedure.
23. Establish circulation with fresh water. Circulate well over to fresh water with a hole volume (17.7 m³)
24. Pull out of hole with tubing. Stand enough tubing for next operations, lay down remaining tubing.

Run radial cement bond log

27. Rig up the wireline unit.
28. Run in with a gauge ring and casing collar locator to PBTD. Pull out with tools.
29. Run in radial bond tools and record a high-speed log on trip in to PBTD. Run a full radial bond log from PBTD to surface. Send completed logs to wireline company for analysis, and to OROGO and Calgary office.
30. Rig out the wireline unit.
31. Calgary office will review the cement bond log and determine the next sequence of operations. If remedial work is required inside of the liner, use the “Remedial Perforation” steps, then “Abandon Liner Top”. If no work is required inside of the liner, then go straight to “Abandon Liner Top”. After abandoning the liner top, the “Remedial Perforation” steps can then be used for any repairs on the intermediate casing.

Abandon Liner with Permanent Bridge Plug

32. Pick up 10K, 177.8mmt permanent bridge plug on HM type setting tool. Run in hole with plug.
33. Set plug at +/- 1038 mKB. Use setting procedure provided by the tool company.
 - NOTE: A bridge plug must not be set within 5 meters of a casing collar. Collars are located at 1043 and 1047 mKB.
34. Fill annulus with fresh water. Close pipe rams and pressure test the bridge plug to 7000 kPa for 15 minutes.
35. Rotate off the bridge plug as per tool company procedure.
36. Mix 500L of class G cement in barrel. Circulate cement down tubing using attached procedure.

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37. Establish circulation with fresh water. Circulate well over to fresh water.
38. Pull out of hole with tubing. Stand enough tubing for next operations, lay down remaining tubing.
39. Calgary office will review the cement bond log and determine if operations are to proceed to the “Rig Out Service Rig” section or to “Remedial Perforation” section. WAIT ON ORDERS.

Remedial Perforation

Note: these remedial perforation steps may be used inside of the liner, or in the intermediate casing

40. Move on wireline unit.
41. Hold and record a safety and procedure meeting with all personnel on location. Perform a walk around inspection to ensure no hazards on the site. Document meeting topics and modify site specific ERP if necessary.
42. Rig in wireline lubricator and full opening valve for well control.
43. Run in hole with a 1 meter, 86mm ERHSC perforating gun loaded with 25-gram charges at 17 shots per meter and 60-degree phasing. Correlate gun based on previous bond log. Perforating depth to be determined by Calgary office. Pull out spent guns and inspect to ensure all shots have fired.
44. Close blind rams. Pump down the casing and evaluate feed rate into the perforations. Attempt to establish circulation to surface. Contact Calgary office to confirm cementing plan. Options will be “Option 1 – Cement Retainer” or “Option 2 – Balanced Plug”.
 - NOTE: If a feed rate is not established Calgary will have to confirm further operational plans with OROGO, with potential for further up hole isolations.
45. Rig out the wireline unit.

Remedial Cementing Option 1 – Cement Retainer

46. Pick up a cement retainer of appropriate size for casing (114.3mm or 177.8mm) and setting tool.

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47. Run in hole with retainer on tubing and set as per Calgary's direction.
 - NOTE: Check Calgary's order against the collar log from the bond log. A cement retainer must not be placed within 5 meters of a casing collar. If required, contact Calgary to adjust retainer depth.
48. Sting out of cement retainer and pressure test down casing to 7 Mpa for 10 minutes.
49. Sting into retainer and confirm feed rates and pressures for cementing company to prepare a treatment program.
50. Pull into neutral and pressure test tubing to 5 Mpa above the pressure established during the feed rate in step 41. Do not exceed 21 Mpa.
51. Move on remedial cementing crew and vacuum truck.
52. Hold and record a safety and procedure meeting with all personnel on location. Perform a walk around inspection to ensure no hazards on the site. Document meeting topics and modify site specific ERP if necessary.
53. Mix cement as per cementing program.
54. Pump cement down tubing and through retainer. Squeeze cement into formation / circulate to surface as per cementing program.
 - NOTE: if circulating cement to surface, do not shut-in surface casing vent until minimum 0.5 m³ of cement has returned to surface.
55. Squeeze cement to final pressure as per cementing program. If cement was circulated to surface, shut in the vent for the squeeze.
56. Sting out of retainer and balance remaining cement on the retainer.
57. Slowly pull out 2 joints of tubing and tie in circulating equipment. Reverse circulate excess cement out of well, leaving at least 15 lineal meters of cement on top of the retainer. Circulate minimum 2 tubing volumes of fresh water and continue circulating with fresh water until returns are clean. Direct returns to vacuum truck and mix with sugar in truck to prevent cement from setting up.
58. Pull tubing and lay down, stopping with 5 joints left for a final circulation to fresh water. Pull out last 5 joints but do not top up to prevent wellhead from freezing solid.
59. Depending on the results of the cement squeeze, Calgary Office may require another perforation. If so, return to the "Remedial Perforation" section.

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60. Proceed to “Abandon Liner with Permanent Bridge Plug” section. If liner has already been abandoned, proceed to “Rig out service rig.”.

Remedial Cementing Option 2 – Balanced Plug

61. Run in hole with tubing open ended and land 16 meters below the perforations.
62. Move on remedial cementing crew and vacuum truck.
63. Hold and record a safety and procedure meeting with all personnel on location. Perform a walk around inspection to ensure no hazards on the site. Document meeting topics and modify site specific ERP if necessary.
64. Mix cement as per cementing program.
 - NOTE: Minimum cement plug volume is 1 m³
65. Pump cement down tubing and balance in well as per cementing program.
60. Slowly pull tubing above estimated cement top and reverse circulate 2 tubing volumes of fresh water to clean up tubing.
61. Squeeze cement into formation as per cementing program. Final squeeze pressure must exceed 7 Mpa.
62. Once cement has flat lined, close in well with pressure and rig off cementers. Clean up equipment into vacuum truck and mix sugar in truck to prevent cement from setting up.
63. After cement has set up (overnight at minimum) run in with tubing and probe cement plug. Apply 1800 decanewtons to confirm top of plug.
64. Pressure test plug and casing to 7 MPA for 10 minutes.
65. Pull tubing and lay down, stopping with 5 joints left for a final circulation to fresh water. Pull out last 5 joints but do not top up to prevent wellhead from freezing solid.
66. Depending on the results of the cement squeeze, Calgary Office may require another perforation. If so, return to the “Remedial Perforation” section.
67. Proceed to “Abandon Liner with Permanent Bridge Plug” section. If liner has already been abandoned, proceed to “Rig Out Service Rig”.

January 23, 2023**Rig Out Service Rig**

68. Ensure well is fully dead. Remove the BOP stack and re install the wellhead.
69. Rig out the service rig and all equipment.
70. Transfer fluids from rig tank to next location for kill fluid, or to the tanks at the battery for transfer to Alberta disposal.
71. Move off location.

Wellhead Cut and Cap

72. Move in waterjet cut and cap crew and equipment.
73. Hold and record a safety and procedure meeting with all personnel on location. Perform a walk around inspection to ensure no hazards on the site. Document meeting topics and prepare a site-specific ERP.
74. Install a bottle and hose type tester on the vent assembly. Watch tester and ensure there are no bubbles in 10 minutes. Document test on daily report and on the "Surface Casing Vent Flow" form. If using a non-freezing liquid (example windshield washer fluid) for the test, document the liquid used and the density.
75. Rig in the waterjet cut and cap crew. Cut and cap the well 1.5 meters below ground level following the waterjet company procedures. Take pictures of the well before the cut, with the wellhead removed, the cut surface, and the vented cap before and during instillation.
76. Backfill open excavation. Photograph the backfill.
77. Install abandoned well sign 1 meter north of the well. Sign is to meet the requirements as outlined in the attachment.
78. Release all services. Field operations are complete.

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Final Reporting

79. Prepare a final downhole diagram showing the final well configuration
80. Ensure that all tickets and costs are recorded on the morning reports. If a vendor has not submitted their tickets, then put in an estimated cost.
81. Tickets are to be coded with the well name, AFE number, date, and field supervisor's signature. Ensure vendors send all invoices electronically to

ELM Inc.
#1000, 205 – 5th Avenue SW
Calgary AB T2P 2V7
AP@elminc.ca

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Elm Inc. Terms of Service:

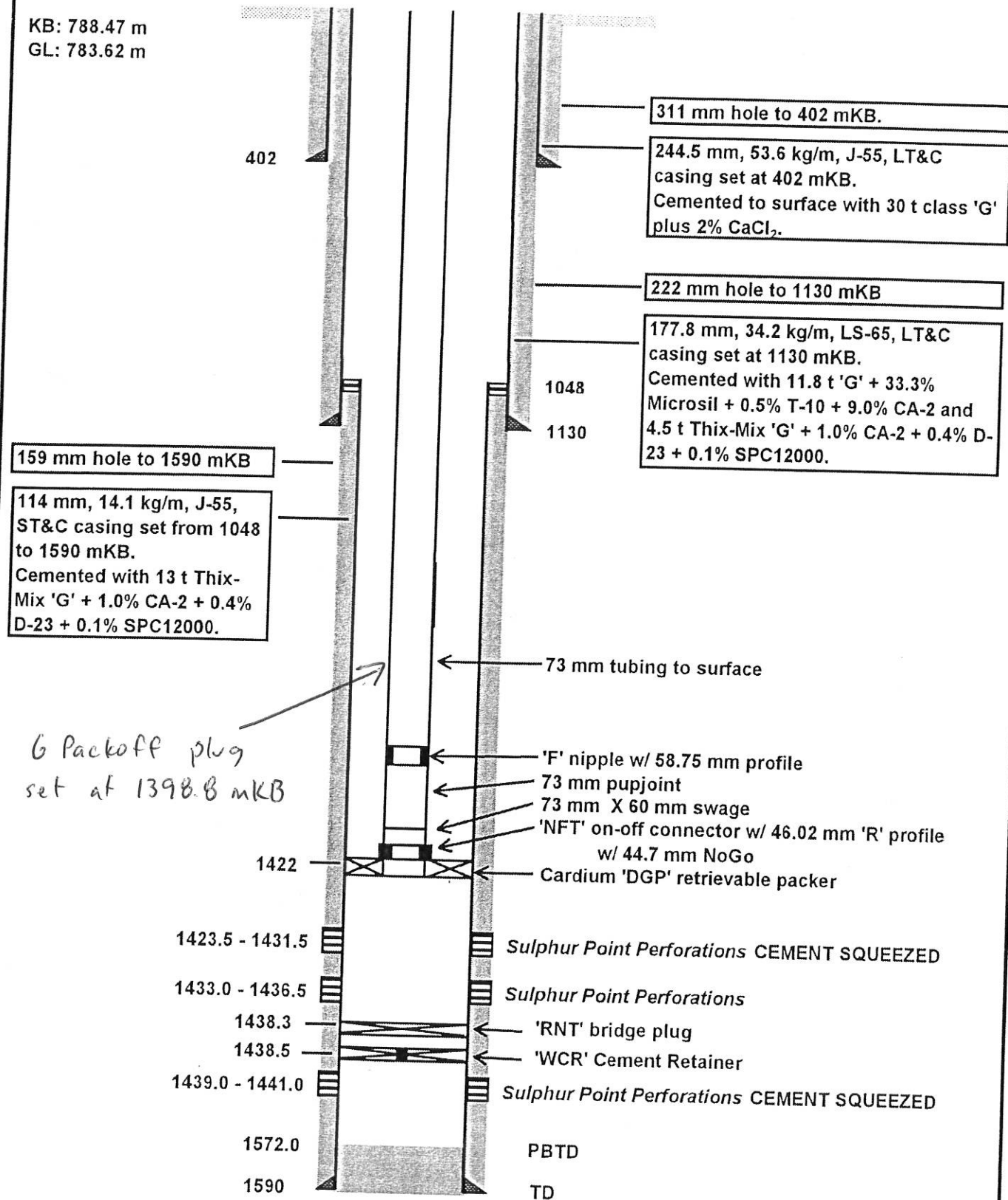
1. The price estimate for this well is presented as a most probable cost based on similar repair operations and is to be used for AFE purposes only. This estimate is only as good as the information provided to Elm. Elm will co-ordinate and supervise the entire operation, pay all third party services and submit a final invoice based on actual costs incurred for equipment and services. Depending on the complexity of the abandonment, location and age of the well, Elm recommends adding 10-25% contingency to the estimates attached.
2. This estimate does not contain any lease clean up costs other than back filling around the wellhead after it has been cut off. If requested Elm's Reclamation Division will perform a site assessment that will be used to determine a cost estimate for surface reclamation. A preferential price to do the site assessment will be given if done in conjunction with the downhole abandonment.
3. Elm does not accept any liability for the well, lease, facility and or property it is working on. Elm acts as an independent consultant, providing mainly consulting and supervision services, with some specialized equipment included.
4. Elm will accept liability for the proper placement of bridge plugs and / or cement plugs that we set, however we do not accept liability for any unforeseen or unmentioned down hole problems. This would include failure of the casing to pressure test, collapsed casing, stuck pipe, tubing or rods, scale and or wax build up, surface casing vent flows, gas migration etc.
5. Elm does accept the responsibility of Prime Contractor for sites that have an agreement assigning the Prime Contractor Status.
6. The cost estimate included services and third party costs as listed, if other services are required they will be billed as per our cost schedule. The client will be informed of any costs to be incurred outside of this summary prior to the work being done. These services usually include: disposal costs, stuck and towing or cat work for access, rental and / or trucking of work strings, trucking of tubing, rods, and / or well heads, sour service, required safety equipment and extra charges associated working in hot or cold temperatures.

Elm's objective is to offer the safest and most efficient abandonment while saving the operator both time and money. We feel that by working with you on this project, we can achieve our goals and maintain the high level of professionalism that is reflected in the end product.

PARAMOUNT ET AL CAMERON C-75

Bottom Hole Diagram (as of February 25, 2003)

KB: 788.47 m
GL: 783.62 m



311 mm hole to 402 mKB.

244.5 mm, 53.6 kg/m, J-55, LT&C casing set at 402 mKB. Cemented to surface with 30 t class 'G' plus 2% CaCl₂.

222 mm hole to 1130 mKB

177.8 mm, 34.2 kg/m, LS-65, LT&C casing set at 1130 mKB. Cemented with 11.8 t 'G' + 33.3% Microsil + 0.5% T-10 + 9.0% CA-2 and 4.5 t Thix-Mix 'G' + 1.0% CA-2 + 0.4% D-23 + 0.1% SPC12000.

159 mm hole to 1590 mKB

114 mm, 14.1 kg/m, J-55, ST&C casing set from 1048 to 1590 mKB. Cemented with 13 t Thix-Mix 'G' + 1.0% CA-2 + 0.4% D-23 + 0.1% SPC12000.

G Packoff plug set at 1398.8 mKB

73 mm tubing to surface

- 'F' nipple w/ 58.75 mm profile
- 73 mm pupjoint
- 73 mm X 60 mm swage
- 'NFT' on-off connector w/ 46.02 mm 'R' profile w/ 44.7 mm NoGo
- Cardium 'DGP' retrievable packer

- 1423.5 - 1431.5 Sulphur Point Perforations CEMENT SQUEEZED
- 1433.0 - 1436.5 Sulphur Point Perforations
- 1438.3 'RNT' bridge plug
- 1438.5 'WCR' Cement Retainer
- 1439.0 - 1441.0 Sulphur Point Perforations CEMENT SQUEEZED

1572.0 PBTD
1590 TD

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 C-75	Operator	Strategic Oil & Gas Ltd.
Well Type	Development Well (if Other, specify _____)	Contractor	Spectrum Wireline Services
Well Identifier	300C756010117150	Current Well Status	Suspended

RELATED LICENCES AND AUTHORIZATIONS

Operating Licence No.	1793	Operations Authorization	OA - 1237-001
PRA Licence No.	Production Licence 013	Approval to Alter Condition of Well	ACW -

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

<i>Surface</i>	Lat 60 ° 4 ' 2 "	Long 117 ° 29 ' 12 "
<i>Bottom Hole</i>	Lat 60 ° 4 ' 2 "	Long 117 ° 29 ' 12 "

Region: Dehcho Unit C Section 75 Grid 60-10N 117-15W

ACTIVITY INFORMATION

Target Formation(s)	Sulphur Point	Field/Pool(s)	/
Elevation KB/RT	788.5 m	Ground Level / Seafloor	783.6 m
Spud/Re-entry Date	Jan. 18, 2019 days	Total Depth	1590.0 m KB
Rig Release Date	Jan 19, 2019	Total Vertical Depth	1590.0 m KB

CASING AND CEMENTING PROGRAM

O.D. (mm)	Weight (kg/m)	Grade	Setting Depth (m KB)	Cementing (m ³)

PLUGGING PROGRAM

Type of Plug	Interval (m KB)	Felt	Setting Depth (m KB)	Cementing (m ³)
Select	-	Select		
Select	-	Select		
Select	-	Select		
Select	-	Select		

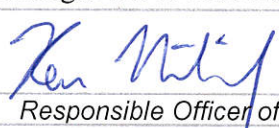
PERFORATION

Interval (m KB)	Comments
1439.0-1441.0	Sulphur Point abandoned
1433.0-1436.5	Sulphur Point suspended
1423.5-1431.5	Sulphur Point abandoned
-	

OTHER

Lost Circulation/Overpressure Zones	
Equipment Left on Site (Describe)	
Provision for Re-entry (Describe and attach sketch)	
Other Downhole Completion/Suspension	G-packoff plug set in tubing at 1398.8 mKB
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	 Responsible Officer of Company	Date	February 7, 2019

OROGO use only

Unique Well Identifier

30 / - - /
(eg. 300 / A01 60-00 120-00 / 0)

Operator: Strategic Oil & Gas Ltd.

Reporting To: Ken Nikiforuk

Consultant: Jack Harvey

Tel2:

Tel1: (403) 596-8084

UWI: 300C756010117150		WELL: Strategic et al Cameron C-75		DATE: 19-Jan-2019	
24 Hr Summary: RIH with collar stop and G Packoff plug. PT tbg and csg					END:
Formation: Sulpher Point		Surf Loc: C75601011715		Licence: 1793	Day #: 2
Objective: Suspend well with slickline			Serv Rig Start:		Serv Rig End
Operations at 6:00: RIH with collar stop and g pack off. PT tbg and csg			AFE #: 19WRCAM004		AFE Estimate: \$60,170.00
Daily Cost: \$21,999		Previous Cumulative Cost: \$26,457		Cum Cost: \$48,456	
Ground:	783.60 m	KB To TH	3.65 m	Open Hole:	mKB
KB to Grd:	4.90 m	Tubing:	73 mm	Bot at:	1424 m
TD (MD):	1,590.00 m	Casing:	114.3 mm	Set at:	1590 m
PBTD:	1,438.30 m	Liner:	mm	Top at:	m
BOP Drill:		BOP Press Test:		Function Test:	
SITP:	507 kPa	SICP:	0 kPa	SCV:	0 kPa
				H ₂ S:	0.6 %

Remarks:

Time From	Time To	Hours	Code	Comments
06:30	07:00	0.5	SAFE	Conduct pre job safety and operational meeting with steamer personnel and dispatch to location to warm wellhead.
07:00	07:30	0.5	SAFE	Conduct pre job safety and operational meeting with all other personnel. Discussed high wind chill factors, H2S, high pressure lines, rotating equipment, slickline procedures, driving for road conditions, wildlife, housekeeping, working at elevated heights.
07:30	07:45	0.25	MOVE	Travel from camp to location and spot equipment.
07:45	08:15	0.5	RIG	Rig in slick line unit.
08:15	08:30	0.25	SHUT	Read and record SITP- 507 kpa, SICP- 0 kpa.
08:30	10:15	1.75	SLICK	RIH with collar stop and set in collar above the "F" profile nipple at 1408.1 mkb. POOH. RIH with "G" pack off plug and set ontop of collar stop at 1408.0 mkb. Fluid level 836m.
10:15	11:00	0.75	PTST	Tie pressure truck in. Fill tubing with 2.3m ³ of (0.5%) inhibited frsh water followed by 1.5m ³ of 50/50 inhibited methanol water. Still didn't catch pressure. Pump another 1.3m ³ of (0.5% CRW132) inhibited fresh water. Still no pressure. Total of 5.1m ³ pumped no pressure
11:00	11:30	0.5	SLICK	RIH and retrieve "G" packoff plug body for inspection. Fluid level was 770m. Pulled 650 lbs over string weight to release plug. Plug swabbing fluid on the way out of hole so pulled slow so not swabbing. Plug showed signs that wickers on slips were engaged and element was engaged.
11:30	12:00	0.5	PTST	Fill casing with 0.5m ³ of 50/50 inhibited methanol water, and pressure test to 7 mpa for 15 minutes. Good pressure test.
12:00	14:30	2.5	SLICK	RIH with collar stop and land 2 joints above profile nipple 1398.8 mkb. RIH with redressed "G" packoff plug and set on top of collar stop.
Total:		10.5		

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:	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	8 m ³	Cum	17 m ³	Rec	m ³
	<input type="checkbox"/> OTHER	Used	m ³	Cum	0 m ³	Rec	m ³
Hours	Service Rig Hours	Daily	hrs	Cumulative	hrs	DownTime:	hrs
	Personnel on Location	Rig:		Service:	9	Company:	1
	Weather: Overcast	Temp	°C	Lease:	Snow covered	Roads:	ice road
Manager:				Programmed By:			

Operator: Strategic Oil & Gas Ltd.

Reporting To: Ken Nikiforuk

Consultant: Jack Harvey

Tel2:

Tel1: (403) 596-8084

UWI: 300C756010117150 WELL: Strategic et al Cameron C-75 DATE: 18-Jan-2019

24 Hr Summary: MIRU Steamer, slickline unit, pressure truck. END:

Formation: Sulphur Point Surf Loc: C75601011715 Licence: 1793 Day #: 1

Objective: Suspend well with slickline Serv Rig Start: Serv Rig End:

Operations at 6:00: MIRU all services. Perform slickline work and PT's. AFE #: 19WRCAM004 AFE Estimate: \$60,170.00

Daily Cost: \$26,457 Previous Cumulative Cost: \$0 Cum Cost: \$26,457

Ground:	783.60	m	KB To TH	3.65	m	Open Hole:		mKB	Date	Perf Formation	Top	Base
KB to Grd:	4.90	m	Tubing:	73	mm	Bot at:	1424	m				
TD (MD):	1,590.00	m	Casing:	114.3	mm	Set at:	1590	m				
PBTD:	1,438.30	m	Liner:		mm	Top at:		m				
BOP Drill:			BOP Press Test:		Function Test:							
SITP:	5227	kPa	SICP:	6	kPa	SCV:	0	kPa	H ₂ S	0.6	%	

Remarks:
 Note: SCV valve does not close all the way suspected ice prior to bubble test so spent extra time heating to ensure wellhead and piping was totally thawed before performing SCV flow test. Valve still doesn't close all the way, so installed a secondary valve for back up.

Time From	Time To	Hours	Code	Comments
07:30	08:00	0.5	SAFE	Conduct pre job safety and operational meeting with all personnel. Discussed various hazards, driving conditions, extreme temperatures, H2S, high pressure lines, slips trips and falls, 3 point contact on stairs, Working with Steam, Communication, third party services.
08:00	08:30	0.5	MOVE	Move from camp to location. Spot all equipment in accordance with OROGO, and SOG practiced specs.
08:30	10:30	2	RIG	Rig in all services heat wellhead and fluid in tank trucks. Locate stairs and stand at N-28 and send picker and trailer to load and haul back stairs and stand for wellhead.
10:30	10:45	0.25	SHUT	Read and record SITP-5227 kpa, SICP-6 kpa.
10:45	11:00	0.25	SCVF	Perform surface casing vent test. (10 minute bubble test) Zero bubbles in 10 minutes.
11:00	19:30	8.5	SLICK	Run in the hole with 62mm gauge ring and located Top "F" profile at 1419.1 mkb. POOH. Make up and RIH with nipple brush and clean profile. POOH. Pump 5.0m of (0.5% CRW132) inhibited fresh water. RIH with 58.72mm "FS" plug to set in "F" nipple. Locate and try and get key to lock into recess but can't get an over pull picked up 3m and got an over pull go through setting motions and shear off. Pump 4.3m ³ and didn't catch pressure. RIH and pull prong assembly. RIH and pull plug body. Plug body showed signs of locating in the swedge rather than in the profile nipple going down thus the reason we had a 3 m pick up before overpull. Rig out all equipment. Called calgary and informed of misrun. Discussed running a "G" packoff plug. In morning.
19:30	20:00	0.5	SDFN	Secure well and location. Winterize and fuel all equipment. SDFN. Return to camp.

Total: 12.5

Equipment on Location:

Reservoir Fluids Summary	Reset <input type="checkbox"/> Gas:	Daily:	10 ³ m ³ /d	Cum:	10 ³ m ³	Tubing volume:	m ³				
	Cums <input type="checkbox"/> Oil or Condensate:	Daily:	m ³	Cum:	m ³	Csg. ann vol:	m ³				
	<input type="checkbox"/> Water:	Daily:	m ³	Cum:	m ³	Open hole vol:	m ³				
	Time Swabbed/Flowed:	Daily:	hrs	Cum:	hrs	Total:	0 m ³				
Load Fluids	Reset <input type="checkbox"/> OIL	Used	m ³	Cum	m ³	Rec	m ³	Cum	m ³	To Rec	m ³
	Cums <input type="checkbox"/> WATER	Used	9 m ³	Cum	9 m ³	Rec	m ³	Cum	0 m ³	To Rec	9 m ³
	<input type="checkbox"/> OTHER	Used	m ³	Cum	m ³	Rec	m ³	Cum	m ³	To Rec	m ³
Hours	Service Rig Hours	Daily	hrs	Cumulative	hrs	DownTime:	hrs	Cumulative DownTime:	hrs		
	Personnel on Location	Rig:		Service:	9	Company:	1	Total Personnel:	10		
	Weather: Overcast	Temp	-23 °C	Lease:	Snow covered		Roads:	ice road			
Manager:	Programmed By:										

PARAMOUNT ET AL CAMERON C-75

Bottom Hole Diagram (as of February 25, 2003)

KB: 788.47 m
GL: 783.62 m

