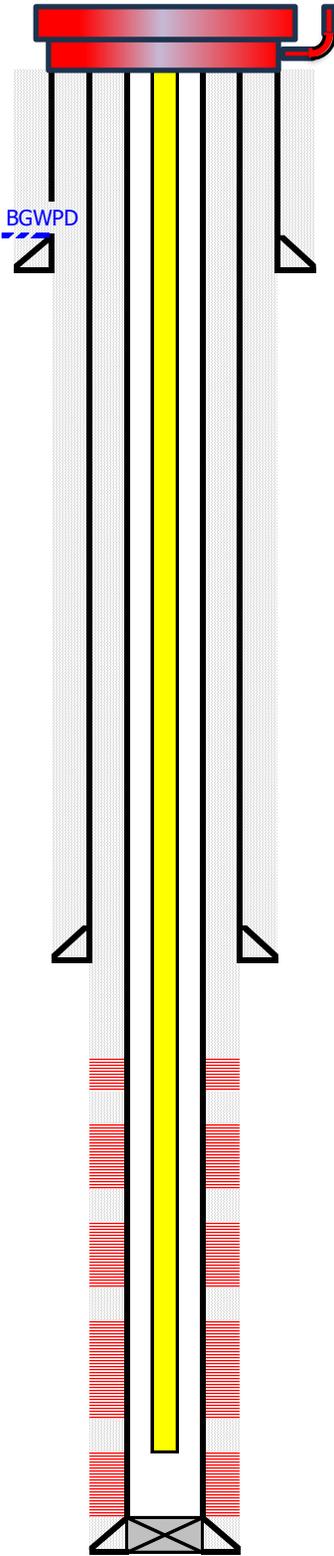


Wellbore Schematic



Surface Casing:
244.5mm, 53.6kg/m, J-55. Cmt top = 21.6m (estimated)

618.0mKB Surface Casing Shoe
630.0mKB Directional Kick-off Point

Intermediate Casing:
177.8mm, 34.2kg/m, I-80. Cmt top = surface (estimated)

2223.8mKB Intermediate Casing Shoe

Production Casing:
114.3mm, 17.3kg/m, P-110. Cmt top = surface (estimated)

2604.2-2655.0mKB Dunvegan FM Perforations (6 sets)

2858.0-2860.0mKB Cadotte MBR Perforations
2873.0-2875.0mKB Cadotte MBR Perforations

3002.5-3005.5mKB Falher MBR Perforations
3072.0-3139.0mKB Falher MBR Perforations (5 sets)

3213.5-3214.0mKB Bluesky FM Perforations
3237.5-3239.5mKB Gething FM Perforations
3255.0-3261.5mKB Gething FM Perforations (2 sets)
Likely Tubing Depth (packer above?)

3334.5-3336.5mKB Cadomin FM Perforations - ES 00
3338.0-3339.0mKB Cadomin FM Perforations

3349.0mKB Prod Casing Shoe & TD (TVD = 3214.4m)

ECA ECOG CHIME 7-21-61-5

UWI: **00/07-21-061-05W6/0**
License #: **405125**
Surface Loc: **11-21-061-05W6**
Rig Rel Date: **05-Apr-09**
KB Elevation: **998.0 m (KB - GL: 5.5m)**
H2S Content: **0%**
CO2 Content:
BGWPD: **600**
PBSD: **3349**
Well Deviation: **Directional**
Capacities (m3): **Csg to perfs: 21.1, Tbg: ?**
SCVF? **Unknown**
Licensee: **Tourmaline Oil Corp.**
Well Status: **Producing**
Cost Centre:
Working Interest:
Bitumen Details:

FORMATION TOPS

	MD	TVD
Badheart FM	2025.8	1892.4
Muskiki FM	2041.3	1906.9
Cardium FM	2120.1	1985.2
Cardium SD	2134.2	1999.5
Kaskapau FM	2154.6	2016.2
Dunvegan FM	2603.4	2469.1
Shaftesbury FM	2657.9	2523.2
Base Fish Scales Marker	2771.5	2637.0
Paddy MBR	2841.6	2705.6
Cadotte MBR	2853.5	2718.0
Harmon MBR	2884.5	2748.8
Notikewin MBR	2891.5	2755.8
Falher MBR	2924.3	2790.0
Wilrich MBR	3159.0	3024.0
Bluesky FM	3205.8	3071.2
Gething FM	3233.4	3098.8
Cadomin FM	3327.1	3192.3
TD	3349.0	3214.4
Wabamun GRP		4185.9
Winterburn GRP		4233.7
Ireton FM		4306.0
Woodbend GRP		4347.5
Slave Point FM		4686.5
Watt Mtn FM		4724.4
Precambrian System		4763.3
Plus 5 tops below		

Wellfile Review Comments:

[Empty box for Wellfile Review Comments]

Cementing Details:

Primary Cement Top Requirement: **Dir. 9: 100m above Cardium FM**

Surface Casing: cemented with 27.5T Class G, cement top based on 311.2mm bit size and 20% excess cement, Intermediate Casing: cemented with 20.7T Lightweight Cements, 9.0T Class G, cement top based on 222.3mm bit size and 20% excess cement, Production Casing: cemented with 13.0T Lightweight Cements, 19.0T Class G, cement top based on 155.6mm bit size and 20% excess cement

Licensee: Tourmaline Oil Corp.

Well Name: ECA ECOG CHIME 7-21-61-5

UWI: 00/07-21-061-05W6/0

Well Information

License Number:	0405125	Rig Release Date:	05-Apr-09 (16.2 years)
True Status:	Producing	Suspension Date:	N/A
H2S Content:	0%	Estimated Access Conditions:	All Season
Total Depth:	3349 mKB (TVD: 3214.36 mKB)	Estimated Lease Type:	Active Service and Gas

Completed Zones List:

1. Open Cadomin FM (ES 00): 3334.5 to 3339 mKB (2 sets), Completed 06-Nov-09, H2S Content 0%
2. Open Gething FM: 3237.5 to 3261.5 mKB (3 sets), Completed 11-Nov-09
3. Open Bluesky FM: 3213.5 to 3214 mKB, Completed 11-Nov-09
4. Open Falher MBR: 3002.5 to 3139 mKB (6 sets), Completed 11-Nov-09
5. Open Cadotte MBR: 2858 to 2875 mKB (2 sets), Completed 18-Nov-09
6. Open Dunvegan FM: 2604.2 to 2655 mKB (6 sets), Completed 19-Nov-09

Downhole Abandonment*Note: mini-program and cost estimate are based on gov data and need to be verified.*

Mini-Program:

1. MIRU service rig and circulate wellbore over to nonsaline water
2. Zonal abandon 3 zones together using continuous cement plug: MIRU cementers and RIH with tubing and land bottom of tubing at 3364.0 mKB (25 m below lowest perforations at 3339.0 mKB) and zonal abandon 3 open zones by using one continuous cement plug such that top of cement plug will be no lower than 3198.5 mKB (15 m above top perforations at 3213.5 mKB), POOH with tubing above cement plug and backwash residual cement to surface, rig out cementers
3. Wait on cement, tag cement top using tubing (can be no lower than 15m above uppermost perforations, 3198.5mKB), RIH with tubing and packer and P-test cement plug to 7 MPa for 10 minutes, POOH with tubing
4. Zonal abandon Cadotte MBR: MIRU wireline and set a bridge plug within 15 m or as per D20 of the perforations at 2858.0 m, RIH with tubing and packer and P-test bridge plug to 7 MPa for 10 minutes, POOH with tubing, dump/bail 8 lineal metres of cement on top of plug
5. Zonal abandon Dunvegan FM: MIRU wireline and set a bridge plug within 15 m or as per D20 of the perforations at 2604.2 m, P-test bridge plug to 7 MPa for 10 minutes, dump/bail 8 lineal metres of cement on top of plug
6. Release all services, well is ready to cut and cap

Well End of Life Liability Estimate Report

Licensee: Tourmaline Oil Corp.
Well Name: ECA ECOG CHIME 7-21-61-5

UWI: 00/07-21-061-05W6/0

Downhole Cost Estimate Explanation:

Estimated Rig Days:	6.2
Estimated Boiler Days:	0
Estimated Supervision Days:	6.2
Estimated CTU Hours:	0
Number of Expected Tubing Conveyed Plugs:	0
Number of Expected Wireline Jobs:	2
Number of Expected Cement Jobs:	1
Number of Expected SCVF Repairs:	Unknown
Number of Expected Fishing Days:	0
Number of Expected Casing Failure Repairs:	0
Number of Expected Primary Cement Repairs:	0
Number of Expected Groundwater Repairs:	0

Downhole Cost Estimate Using Unit Rates:

Access Preparation:	\$0
Service Rig and Move:	\$64,800
Coil Tubing Unit:	\$0
Wireline:	\$17,300
Cementing:	\$7,600
Workover Fluids / Disposal:	\$10,900
Picker/Trucking:	\$2,800
Safety:	\$3,400
Rentals:	\$10,200
Fishing:	\$0
Plugs/Tangibles:	\$2,600
Supervision:	\$11,600
Total (includes 10% contingency):	\$131,200

Well End of Life Liability Estimate Report

Licensee: Tourmaline Oil Corp.
 Well Name: ECA ECOG CHIME 7-21-61-5

UWI: 00/07-21-061-05W6/0

Surface Abandonment / Surface Equipment Dismantlement

Related Water Well Abandonments

- No Water Wells Related to this Well

Wells/Facilities Determined to Share Lease (Surface Location 11-21-061-05W6):

Type	UWI/Location	Status	Well Type	Age (yrs)	Oil Cum (m3)	Gas Cum (e3m3)	Est Shut-in Date	Est Aband Date	Last Well?	Surf Abd Date
Well	00/07-21-061-05W6/0	Producing	Gas	16.2	0	58,467	30-Apr-25	10-Mar-59	No	N/A
Well	00/01-21-061-05W6/0	Producing	Gas	16.1	0	160,878	30-Apr-25	23-Oct-47	No	N/A
Well	00/06-21-061-05W6/0	Producing	Gas	17.1	0	78,921	30-Apr-25	09-Apr-67	No	N/A
Well	00/08-21-061-05W6/0	Producing	Gas	17.9	0	84,593	30-Apr-25	31-Dec-58	No	N/A
Well	00/10-21-061-05W6/0	Producing	Gas	19.3	0	26,044	30-Apr-25	29-Mar-52	No	N/A
Well	00/16-21-061-05W6/0	Producing	Gas	17	0	85,294	30-Apr-25	10-May-90	Yes	N/A

Note: Other wells share lease therefore dism, recl, etc. will not be applied to this well.

		<u>Cost Estimate Using Unit Rates:</u>	
Other Wells Determined to be on this Lease:	5	Surface Abandonment:	\$2,500
Wells Left to Abandon after this Well:	2	Multi-Well Pad Rate:	\$3,000
Primary Well Type found on Lease:	Active Service and Gas	Total Estimate:	\$5,500
Single Well Battery Details:	N/A		
Age of Lease (based on oldest well):	19.4 years		

Related Pipeline Abandonments

- No Pipelines Related to this Well

Lease Remediation

Lease Phase 2 Rate: \$25,000

Lease Remediation Rate: \$0

Known (Reported) Spill Remediation:

Incident #	Incident Date	Source; Failure Type; Spill Details	Clean-up Date
20090643	26-Mar-09	Drilling Well; Operator Error; 2m3 Drilling Mud (HC Based) (2m3 recovered), 10m3 Waste (10m3 recovered)	15-Apr-09

Total Number of Liquid Spills:	1	Spill Remediation Cost Estimate (based on unit rates):	\$0
Total Volume of Liquid Spills:	12 m3 (12 m3 recovered)		
Total Lease Remediation Estimate:	\$25,000		

Well End of Life Liability Estimate Report

Licensee: **Tourmaline Oil Corp.**
 Well Name: **ECA ECOG CHIME 7-21-61-5**

UWI: **00/07-21-061-05W6/0**

Lease Reclamation

Lease Land Characteristics: Surface Deposit: Fluvial, Soil Texture: loamy sand-silt loam, Land Area: Kakwa Benchlands, Soil Drainage: Moderately well drained, Surface Form: inclined, Soil Type: Bedrock, Wooded Area: Coniferous Dense

Disposition Number: MSL 052593, Dimensions: IRREGULAR, Area: 2.6 hectares (6.4 acres) - above average

Cost Estimate Using Unit Rates:

Surface Reclamation Rate:	\$53,900	(reclamation rates based on lease size of 25,847 m2)
Reclamation Supervision Rate:	\$12,900	
Phase 1 Rate:	\$3,000	
Site Monitoring Inspections Rate:	\$1,000	
Project Management Rate:	\$2,500	
Road Reclamation Rate (>1km):	\$0	(0.37 km road ends at lease)
Major Cut/Fill Rate:	\$200,000	(lease surface form: inclined)
Built-up Clay Lease Removal Rate:	\$0	
Total Estimate:	\$273,300	

Total End of Life Cost Estimate

Downhole Abandonment:	\$131,200	
Surface Abandonment / Surface Equipment Dismantlement:	\$5,500	
Related Pipeline Abandonments:	\$0	(not last well to be abandoned)
Lease Remediation:	\$0	(not last well to be abandoned)
Lease Reclamation:	\$0	(not last well to be abandoned)
Total End of Life Estimate:	\$136,700	

Regulator Liability Estimate (Petroscout Data Analysis)

Regulator deemed LLR estimates are provided below but may not be 100% accurate as overrides, tubing declarations, etc. are not known.

Deemed Asset:	\$392,806	Well Abandonment:	\$267,915
		Additional Events:	\$535,830
Abandonment Area:	Drayton Valley/Grand Prairie	Groundwater Protection:	\$0
Reclamation Area:	Foothills Area	Vent Flow:	\$0
		Gas Migration:	\$0
		Reclamation:	\$29,250
		Deemed Liability Total:	\$832,995