cenovus ENERGY

LIFT CALULATION FORM

This form is to be filled out by the crane operator for all critical lifts			
Worksite		**Date of lift:** YYYY-MM-DD **Time:** 00:00 ☐ AM ☐ PM	
Lift location			
Single or two/multi-crane lift	☐ Single crane) ☐ Two /multi-crane (tandem)		
All required permits received	☐ Yes ☐ No		

A. HAZARDS, WEATHER & GROUND CONDITIONS

☐ Fire or explosion hazards		☐ Overhead power lines	☐ Concurrent work: _____
☐ Underground or supporting surface hazards (e.g. pipelines, sewers, culverts, trenches, etc.)		☐ Overhead structures	☐ Other: _____
Soil conditions: ☐Soft ☐Hard Compacted ☐Paved		Will blocking or mats be used: ☐ Yes ☐ No	
Weather:	Temperature:	Wind speed/velocity:	Wind direction:

B. JOB & LOAD DESCRIPTION

C. LOAD & RIGGING INFORMATION

Load weight:	Load weight provide by:	Load weight verified by:
Dimension of load:	Length _____ Width _____ Depth _____	
Centre of gravity	☐ Unknown ☐ Given ☐ Calculated	
Describe center of gravity		
Lifting points		
Describe rigging strategy		
List rigging equipment		

D. CRANE INFORMATION

Crane #1		Crane #2	
Crane Make		Crane Make	
Crane Unit No.		Crane Unit No.	
Type of Crane		Type of Crane	
Counterweight		Counterweight	
Boom Type		Boom Type	
Boom Length		Boom Length	
Jib Type		Jib Type	
Jib Length		Jib Length	
Jib Stowed	☐ Yes ☐ No ☐ Removed	Jib Stowed	☐ Yes ☐ No ☐ Removed
Working Radius		Working Radius	
Safe Working Load		Safe Working Load	
Configuration	☐ On Tires ☐ On Outrigger ☐ On Crawlers ☐ 360 digress ☐ Other:_____	Configuration	☐ On Tires ☐ On Outrigger ☐ On Crawlers ☐ 360 digress ☐ Other:_____
Crane capacity		Crane capacity	

LIFT CALULATION FORM

E. TOTAL LOAD WEIGHT

Crane #1			Crane #2		
		Weight			Weight
Crane Lift System Weight	Load		Crane Lift System Weight	Load	
	Main Block			Main Block	
	Load Line			Load Line	
	Jib			Jib	
	Ball			Ball	
Rigging Weight	Slings		Rigging Weight	Slings	
	Shackles			Shackles	
	Spreaders			Spreaders	
	Hooks			Hooks	
Lifting Attachments	Material Basket		Lifting Attachments	Material Basket	
	Personnel Basket			Personnel Basket	
Other weight			Other weight		
Total load weight			**Total load weight**		

F. LIFT CALCULATION

% Crane Lift Capacity = $\frac{\text{Total Load Weight}}{\text{Crane Capacity from Load Chart}}$ **= _____ X 100 = _____%**

IMPORTANT CONSIDERATIONS:

- **Always follow the manufacture's specifications and instructions, unless specified by a professional engineer**
- **Consult and review load calculation with professional engineer when required**
- **Reference the crane manufactures user manual for more information on lift calculations and crane capabilities**
- **For cold weather lifts, de-rate the crane capacity as per the manufacturer's specifications**
- **Always reference and use the proper manufacturer's load chart for the configuration used to calculate safe load capacity**
- **Always use consistent measurements of mass (e.g. Imperial: pounds or Metric: kilograms)**

G. LIFTING CREW

	Name (Print)	Signature	Company	Phone & Radio Channel	Date (YYYY-MM-DD)	Time (00:00)
Lift Supervisor						
Crane #1						
Crane #1 Supervisor						
Crane Operator #1						
Rigger #1						
Crane #2						
Crane # 2 Supervisor						
Crane Operator #2						
Rigger #2						