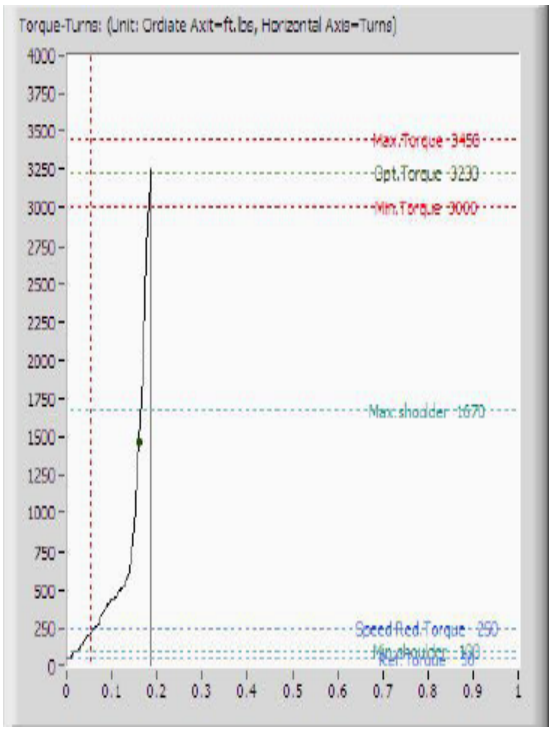
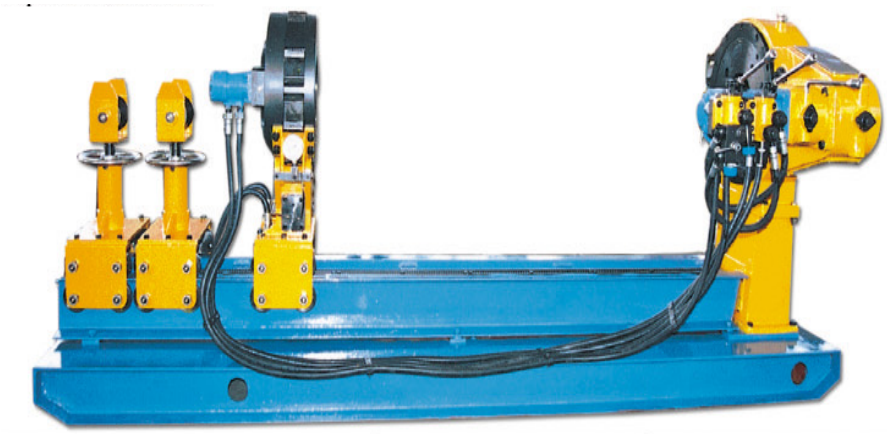


ERA

ERA OILFIELD SERVICES



Mobile Bucking Services

Mobile Bucking Services

At ERA we pride ourselves in providing our clients solutions in both product and service that best suits your requirements.

Our Mobile Bucking Services are geared to providing you with savings in computer controlled torque turn make up services, and online well site activities. With absolutely no loss in service quality.

At ERA our focus is always on providing and introducing efficiency to your operation. That is the key for our Mobile Bucking Services.

Our Mobile Bucking Services cater for full Torque Turn controlled make up of completions tubing, completions assemblies, thru-tubing assemblies at either the well site location or at your own pipe yard.

ERA personnel have been involved in Torque Turns make up since 1990 and bring excellence in service quality.

Good enough IS NOT good enough for ERA when it comes to completing your well.

When your down hole conditions demand 100% accuracy, we bring you top sides excellence in tubular make up. Nothing less.

Saving you money in processes and minimising potential for losses.

Owner / Director
ERA Oilfield Services

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Introduction to MBS

ERA Mobile Bucking Services are geared toward the make up and break out of completion tubing, completion assemblies and thru-tubing and CT tools and assemblies.

The service is designed to save the operator both time and money in logistics processes and in online rig time activities.

It is further focused on the provision of accurate make up and recording of all torques applied to tools, assemblies and strings either run or installed downhole as a means of implementing loss reduction strategies as a safe guard against downhole failures and the resultant costs of fishing, lost hole or unplanned workover.

By using our mobile service you also save on transportation of strings to and from a service provider / supplier yard without compromising on service quality in torque turns make up.

You save on "online time" at the rig site by having all tools and assemblies pre-made to maximum effect.

You save when our service charges are compared directly to our competitors.

Our Service Base

Our Korat Service Base in NE Thailand is strategically placed to minimise mobilisation to the oil and gas operations centres in Udon Thani, Khon Kaen, Phitsanulok and surrounding areas.

The base is located off Highway 24 with fast, direct access for quick mob and demob in this region.

All MBS equipment is based here and undergoes rigorous testing and training of personnel on a regular basis.

We have 160 square metres of warehouse and work shop space, a test bay with swing crane and 3m deep well centre that is utilised for testing tongs, handling equipment, pressure testing of completion assemblies, personnel training and bucking service testing and training.

The facility is situated on 1 rai of land with covered workshop and warehouse space being doubled by end of 2015.

Our Service Scope

Our service scope is as follows:

Torque Turn analysis for premium threads

Torque recording for non premium API threads

Mobilised to your well site or pipe yard

Provide full digital records of all connection activity

Provide make up services to manufacturer / client / API specifications

Provide well site "offline" make up services

Provide well site "offline" break out services

Our Equipment

Our mobile equipment package consists of :

1 x TEDA YJ200 hydraulic mobile bucking unit

Pipe sizes:	*2 3/8 - 7 5/8*
Torque Range:	*11,062 max @ 2000psi*
Clamp Style:	*4 jaw planetary on both heads*

1 x DCCK Torque Control and Monitoring System

c/w full dump, torque and speed control, recording and reporting of make ups/ break outs

1 x Diesel Power Unit (Zone 2 if required at well site)
1 x Electric Power Unit (Zone 2, 380V / 50Hz)
1 x 400L air compressor for diesel HPU start (Not Zone rated) 1 x Portable Generator for 220v supply (Not Zone Rated)
4 x Pipe rails with jacks for full joint lengths of 12m
2 x Pipe Racks Sets for fast transition of 12m joints
2 x sets of HP and LP hydraulic hoses
1 x All weather canopy for rain and sun protection for personnel and assets

All equipment is supplied with full transit cradles and all weather protection covers as standard and full set of spares.

Our MBS Team

Our senior supervisory team consists of:

James Reid *- Torque Turn systems since 1990. International experience with Weatherford and Odfjell Well Services.*

Leslie Peder Dick - Torque Turns and completions specialist since 1987 with global service providers including Weatherford, WWT, Tesco etc.

Our workshop and Thai MBS support team consists of:

Loet Khonguluam - Supervisor
Amornsak Pornsanoi - Operator
Jirajeep Nung Kratoke - Operator

(Ongoing testing and training at Korat Service Base)

Our MBS Training

Our MBS staff undergo training and evaluation in the following:

Equipment specific:

Diesel Power Pack maintenance and operation Bucking Unit maintenance and Operation Hydraulic Hose inspection
Pipe and connection preparation
ERA Procedures for MBS (Bi Lingual)

Safety Related Training:

Hazards with hydraulic systems
Hazards with rotational equipment
Pre Job Hazard Analysis
Time and Safety
PPE and Manual Handling in the workplace Rig Up and Rig Down of Equipment Safety on the road

Torque Turns Analysis:

DCCK Computer Control System Operation Graph

Interpretation Identifying graph failures and yields

Competency and Evaluation:

Our MBS personnel are continuously trained. It is not a one day course, it is ongoing. They are practiced in all aspects of the job continually.
Each individual undrgoes fair assessments on performance across theory, safety, rig up and rig down, troubleshooting, graph interpretation, torque turns computer. (See form right)

We continually seek to identify weakness and improve our teams performance.

BUCKING UNIT OPERATOR EVALUATION

NAME TRAINEE:
NAME TRAINER:
DATE:
DATE OF TRAINING:
LOCATION OF TRAINING:

COMPONENTS		Poor	Needs improvement	Good	Excellent
BASIC INTRODUCTION					
COMPONENTS OF BUCKING					
CONNECTION THEORY					
BUCKING THEORY					
SAFETY IN PRACTICE					

PRE JOB CHECKS		Poor	Needs improvement	Good	Excellent
WORKSITE ASSESSMENT					
LUBRICATION					
VISUAL DAMAGE AND WEAR POINTS					
HYDRAULICS,CABLING, CONNECTIONS					

RIGGING UP BUCKING UNIT		Poor	Needs improvement	Good	Excellent
CORRECT POSITIONING					
SAFE ROUTING OF HOSES/CABLES					
DRESSING THE UNIT					
CONNECTING THE ELECTRICS					
FLOW RATES AND PRESSURE					
STARTING THE POWER UNIT					
BEAMS AND JACKS					
START THE COMPUTER					
PROGRAMME THE COMPUTER					

SAFETY AND BUCKING UNIT		Poor	Needs improvement	Good	Excellent
PLANNING/ JSA'S/ TOOLBOX TALKS					
HAZARD ID					
SAFETY CHECKS					
HYDRAULIC & ELECTRICAL HAZARDS					
LIFTING AND TRANSPORT HAZARDS					
STOP THE JOB – NO RUSHING					

OPERATING BUCKING UNIT		Poor	Needs improvement	Good	Excellent
IS HE CONFIDENT					
IS HE ATTENTIVE					
DOES HE STOP TO CHECK					
OPERATING SPEED					
PLANS AHEAD					

TORQUE TURNS COMPUTER		Poor	Needs improvement	Good	Excellent
UNDERSTANDS CONCEPT					
PROGRAMMING					
GRAPH ANALYSIS					
GRAPH ACCEPT AND RECORD					
GENERATE REPORTS					

RIG DOWN BUCKING UNIT		Poor	Needs improvement	Good	Excellent
CLEAN & GREASE ALL EQUIPMENT					
PACKING AND SECURING					
SAFE TRANSPORTATION					
COMPUTER SECURE AGAINST VIBRATION					
packing containers/ strapping					

OVERALL PERFORMANCE		Poor	Needs improvement	Good	Excellent
ATTITUDE					
TEAM PLAYER					
SERIOUS ABOUT JOB					
DESIRE					

COMMENTS:

Your Savings

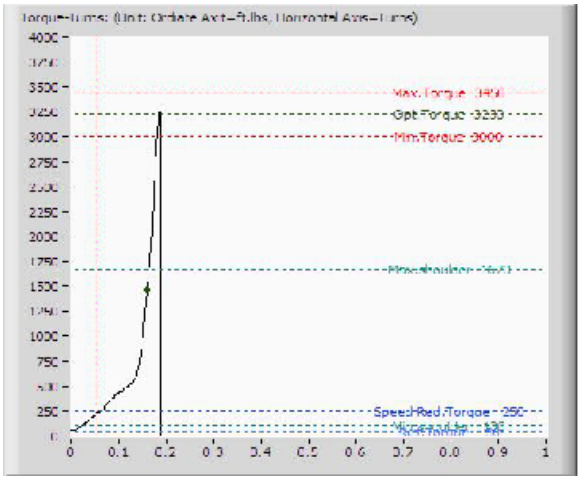
	Completions Tubing and Assemblies – Mobile Make Up Services		
Your Costs	**Standard method**	**ERA method**	**Savings Possible**
Storage	*Store at service provider or* *Store at operator pipe yard*	Store at land location / well site pipe yard	*No service Provider fees* *Reduced Storage fees*
Transport	*Multiple Trucking Charges between operator and service provider and well site*	*One time transportation cost to well site pipe yard*	*Less transportation* *Reduced trucking charges*
Make Up Services	*Couplings made up at service provider yard* *Assemblies made up at service provider yard*	*Full range of torque turn services delivered to the wellsite/ pipe yard*	*Reduced well centre time with maximised off line make up* *Reduced make up charges* *No loss in service quality* *Full Torque Turn Systems*

	Thru Tubing Mobile Make Up Services		
Your Costs	**Standard method**	**ERA method**	**Savings Possible**
Well Centre **Online Time Costs**	*Build assemblies online* *Takes up rig time* *Costs operator*	*Reduced Online Time* Maximise Offline Activity Mobile Bucking Unit on location	*Reduced RIH and POOH costs*
Twist Offs ***Lost in hole Charges***	*No physical record of torques applied* *Tools often torqued by pipe wrench* *Twist offs mean fishing costs* *Cost of tools lost in hole* *Hole lost or abandoned*	Full torque records computerised Reduced probability of twist off *Reduced time in BHA construction* *Reduced probability of tools LIH* fishing or abandonment.	*Reduced potential costs of failure downhole*
Make Up Services	*No physical record of torques applied*	*Full torque turn for shouldered and non shouldered connections supplied to well site.* *Full computerised records*	*Provide accurate torque records vital when analysing downhole failures with service providers and contractual liabilities.*

Your Reports

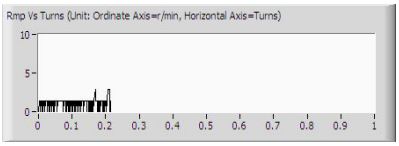
ERA provide full reporting on all premium and non premium connection make ups.
Break out analysis can also be performed.

Typical Graph premium thread make ups are as follows:

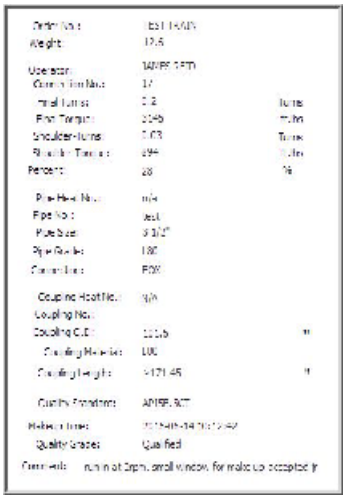


Full manufacturuer parameters recorded, including:

- *max. opt, min*
- *shoulder ranges*
- *ref. torques*
- *auto dump at optimum*
- *delta torque, delta turns*
- *shoulder identification*



Make up speed is controlled, analysed and reported as standard



Base Data Files

The basic reports from each job are recorded and presented, in a simple pdf format.

A further word document records all base data reports without images.
Both types are made available for the client with a full report on graph interpretations

Contacting ERA

To contact Mobile Bucking Services at ERA Oilfield Services, to discuss how we can bring best service provision and best value to your operation from start to finish please contact us at:

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