Submit 1 Copy To Appropriate District Office
District I – (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II – (575) 748-1283
811 S. First St , Artesia, NM 88210
District III – (505) 334-6178
1000 Rio Brazos Rd , Aztec, NM 87410
District IV – (505) 476-3460
1220 S. St Francis Dr., Santa Fe, NM 87505

HOBBS OCD
OCT 10 2012
RECEIVED

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103
October 13, 2009

WELL API NO. 30-025-09156	
5. Indicate Type of Lease STATE ☐ FEE ☒	
6. State Oil & Gas Lease No.	
SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.) 1. Type of Well: Oil Well ☐ Gas Well ☒ Other INJECTION	7. Lease Name or Unit Agreement Name SEVEN RIVERS QUEEN UNIT
	8. Well Number: 027
2. Name of Operator LINN OPERATING, INC.	9. OGRID Number 269324
3. Address of Operator 600 TRAVIS, SUITE 5100, HOUSTON, TEXAS 77002	10. Pool name or Wildcat EUNICE;SEVEN RIVERS-QUEEN, SOUTH
4. Well Location Unit Letter E; 1980 feet from the N line and 660 feet from the W line Section 35 Township 22S Range 36E NMPM LEA County	
	11. Elevation *(Show whether DR, RKB, RT, GR, etc.)* 3,512' GR

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☒	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
DOWNHOLE COMMINGLE ☐			
OTHER: **RTI** ☒		OTHER: ☐	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

PLEASE SEE ATTACHED PROCEDURES

R-4589-A

Spud Date: Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE _____ TITLE: REGULATORY SPECIALIST III DATE OCTOBER 9, 2012

Type or print name TERRY B. CALLAHAN E-mail address: tcallahan@linnenergy.com PHONE: 281-840-4272

For State Use Only

APPROVED BY: _____ TITLE Dist. Mgr DATE 10-17-2012

Conditions of Approval (if any):

OCT 17 2012

SRQU 27

LEA COUNTY, NM

30-025-09156

10/03/2012

Project Scope: ***Procedure 1*** - POH w/ Tbg and Pkr, locate and repair problem and RTI.

Procedure 2 - Install 4" Flush Joint Liner from top perforation to surface, if needed.

Procedure 1:

1. Test anchors prior to rigging up.
2. MIRU WO rig and record casing and tubing pressure.
3. Bleed pressure off of well.
4. NU BOP.
5. Unseat packer and POOH w/ tubing and packer.
6. RIH w/ workstring, packer and retrievable bridge plug (Set BP at 3,675').
7. Test against BP to 500psi. Test backside (tbg/csg annulus) to 500psi. Contact Engr with results and discuss plan if pressure didn't hold.
8. RDMO.

Non Routine Equipment Needs:

4", 11.6#, L-80 Ultra Flush Joint – Purchased
4" wiper plug, ball, 4" crossover, 4" cementing pump out sleeve, 4" D&L casing packer (for cement job)
Lift Nubbins and Stabbing Cup – Rental
4" Packer
New Wellhead components for 4" Liner
Casing Crew
Cementing Services

Procedure 2:

1. MIRU WO Rig and record casing and tubing pressure.
2. Bleed pressure off of well.
3. NU BOP.
4. Unseat packer and TOOH with tubing and packer.

Contact Information:

Matt Lake – Asset Engineer
Cell – 281-785-4088
Office – 713-263-4933

Bob Akin - Foreman
Cell – 575-390-8007

5. RIH with workstring and bit to TD and circulate clean. POOH LD bit.
6. PU and TIH with 4" D&L casing packer (for cement job), 4" cementing pump out sleeve, 4" crossover, 4", 11.6#, L-80, Ultra Flush Joint Casing to 3675'.
7. Establish circulation with brine fluid to load the hole.
8. Set packer at 3675'.
9. Drop ball to open port and establish circulation with brine fluid.
10. Rig up cement company.
11. Pump Class "C" cement until circulation is obtained and then displace with wiper plug and brine water. Shut BH valve prior to bumping plug.
12. ND BOP
13. Set slips for 4" casing.
14. Install bowl for 2-3/8" tubing.
15. NU BOP.
16. WOC.
17. Bleed well pressure down or kill well as necessary.
18. PU and RIH with 2 3/8" workstring and packer to 3650'.
19. Perform Acid Job
20. POOH and LD workstring and packer.
21. PU 1 jts of 2-3/8" IPC tail pipe, 4" injection packer (Arrowset with on off tool), 2-3/8" IPC injection tubing, and TIH with packer landed at 3650' (unset).
22. ND BOP.
23. Circulate packer fluid.
24. Set packer at 3650'.
25. NU WH.
26. Conduct mock MIT to 500 PSI.
27. Notify foreman that the well is ready for a witnessed MIT.
28. RDMO.

Contact Information:

Matt Lake – Asset Engineer
Cell – 281-785-4088
Office – 713-263-4933

Bob Akin - Foreman
Cell – 575-390-8007

Well Name **Seven Rivers Queen Unit 27**

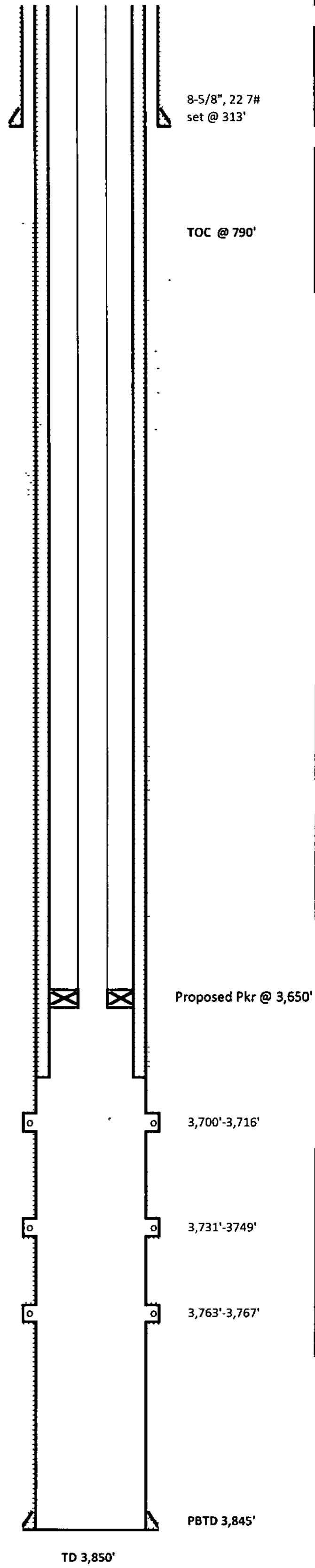
	Location:
Location:	1980 FNL & 660 FWL
Section	E-35-22S-36E
Block	
Survey:	
County	Lea
Lat/Long:	
Field	Seven Rivers Queen (S Eunice)
	Elevations:
GL	3,512
KB	
KB-GL Calc	
ck w/log?	

Logging Requirements:

Date	History
10/24/1973	Converted to WIW

Proposed Liner Casing
4", 11.6#, L-80 Flush Joint' Set @ 3,675' Cmt Circ to surface Class C Cement

Proposed
Wellbore Diagram



Well Name.	Seven Rivers Queen Unit 27
API No	30-025-09156
Spud Date	10/17/1957
WBD Update:	10/4/2012 M. Lake

Hole Size:	12-1/4"
Surf Csg:	8-5/8", 22 74#
Cement Blend.	200 sxs Halliburton
Depth	313'
TOC:	Cement circulated

Hole Size:	
Int Csg:	
Cement Blend:	
Returns:	
TOC:	

Details of Perforations

10/28/1957
3,700'-3,716' (64 holes)
3,731'-3,749' (72 holes)
w/20K gals and 20K# sand

10/24/1973
3,763'-3,767' w/2 JSPF (10 holes)
w/1500 gals 15% HCL-LSTNE acid

Tubing Detail	
Joints	Description
119	2-3/8", IPC
Depth	3600

Rod Detail (top to bottom)	
Rods	Description

Pumping Unit:

Hole Size:	7-7/8"
Prod Csg:	5-1/2", 14#, J-55
Capacity (bbl/ft).	-
Cement Blend:	100 sxs thru bottom & 100 sxs thru 2 stage tool
Depth	3,849'
Hole Size:	
Prod Csg:	
Capacity (bbl/ft):	
TOC:	

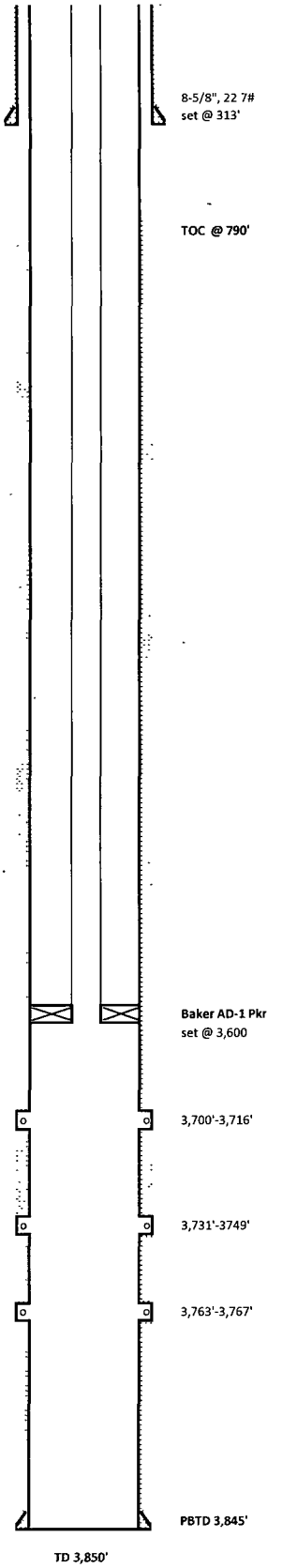
Well Name **Seven Rivers Queen Unit 27**

	Location:
Location	1980 FNL & 660 FWL
Section	E-35-22S-36E
Block	
Survey	
County	Lea
Lat/Long	
Field	Seven Rivers Queen (S Eunice)
	Elevations:
GL	3,512
KB	
KB-GL Calc	
ck w/log?	

Logging Requirements:

Date	History
10/24/1973	Converted to WIW

Current
Wellbore Diagram



Well Name:	Seven Rivers Queen Unit 27
API No	30-025-09156
Spud Date.	10/17/1957
WBD Update:	**10/4/2012 M. Lake**

Hole Size.	12-1/4"
Surf Csg:	8-5/8", 22 74#
Cement Blend:	200 sxs Halliburton
Depth	313'
TOC:	Cement circulated

Hole Size:	
Int Csg:	
Cement Blend:	
Returns:	
TOC:	

Details of Perforations
10/28/1957
3,700'-3,716' (64 holes)
3,731'-3,749' (72 holes)
w/20K gals and 20K# sand
10/24/1973
3,763'-3,767' w/2 JSPF (10 holes)
w/1500 gals 15% HCL-LSTNE acid

Tubing Detail	
Joints	**Description**
119	2-3/8", IPC
Depth	3600

Rod Detail (top to bottom)	
Rods	**Description**

Pumping Unit:

Hole Size:	7-7/8"
Prod Csg:	5-1/2", 14#, J-55
Capacity (bbl/ft):	
Cement Blend:	100 sxs thru bottom & 100 sxs thru 2 stage tool
Depth	3,849'
Hole Size:	
Prod Csg:	
Capacity (bbl/ft):	
TOC:	

TECHNICAL DATA SHEET

4 " • 11.60 # • L-80

ULTRA FJ™ Premium Connection

Pipe Dimensions		
Size:	4.000	inches
Nom Wt-ft:	11.60	lbs/ft
Grade	L-80	
PE Weight:	11.34	lbs/ft
Wall Thickness:	0.286	inches
Nominal OD:	4.000	inches
Nominal ID:	3.428	inches
Drift Diameter:	3.303	inches
Avg. Pipe Body Area:	3.355	sq-inches
Pipe Parameters		
Min. Yield:	80,000	psi
Min. Tensile:	95,000	psi
Pipe Body Performance		
Yield Load:	268,400	lbs
Tensile Load::	318,700	lbs
Min. Internal Yield Pressure:	10,010	psi
Collapse Pressure:	10,280	psi
Connection Parameters		
Connection OD:	4.020	inches
Pin ID (bored):	3.419	inches
Critical Section Area:	2.283	sq-inches
Yield Load in Tension:	182,600	lbs
Fracture Load:	210,600	lbs
Yield Load in Compression:	188,000	lbs
Make-Up Loss:	3.447	inches
Max. Uniaxial Bend Rating:	62	deg/100ft
Min. Internal Yield Pressure:	10,010	psi
Collapse Pressure:	10,280	psi
Minimum Make-Up Torque:	2,800	ft-lb
Optimum Make-Up Torque:	3,100	ft-lb
Maximum Make-Up Torque:	3,400	ft-lb
Yield Torque:	4,900	ft-lb
Efficiency-Tension:	68.0%	%
Efficiency-Compression:	70.1%	%

Note:
The information in this Technical Data Sheet is for general information only. It should not be used or relied upon for any specific application without being independently verified by competent professional examination for accuracy, suitability and applicability. Anyone utilizing the information contained herein does so at their own risk.

Tel: 281-949-1023
Toll free: 888-258-2000

IPSCO

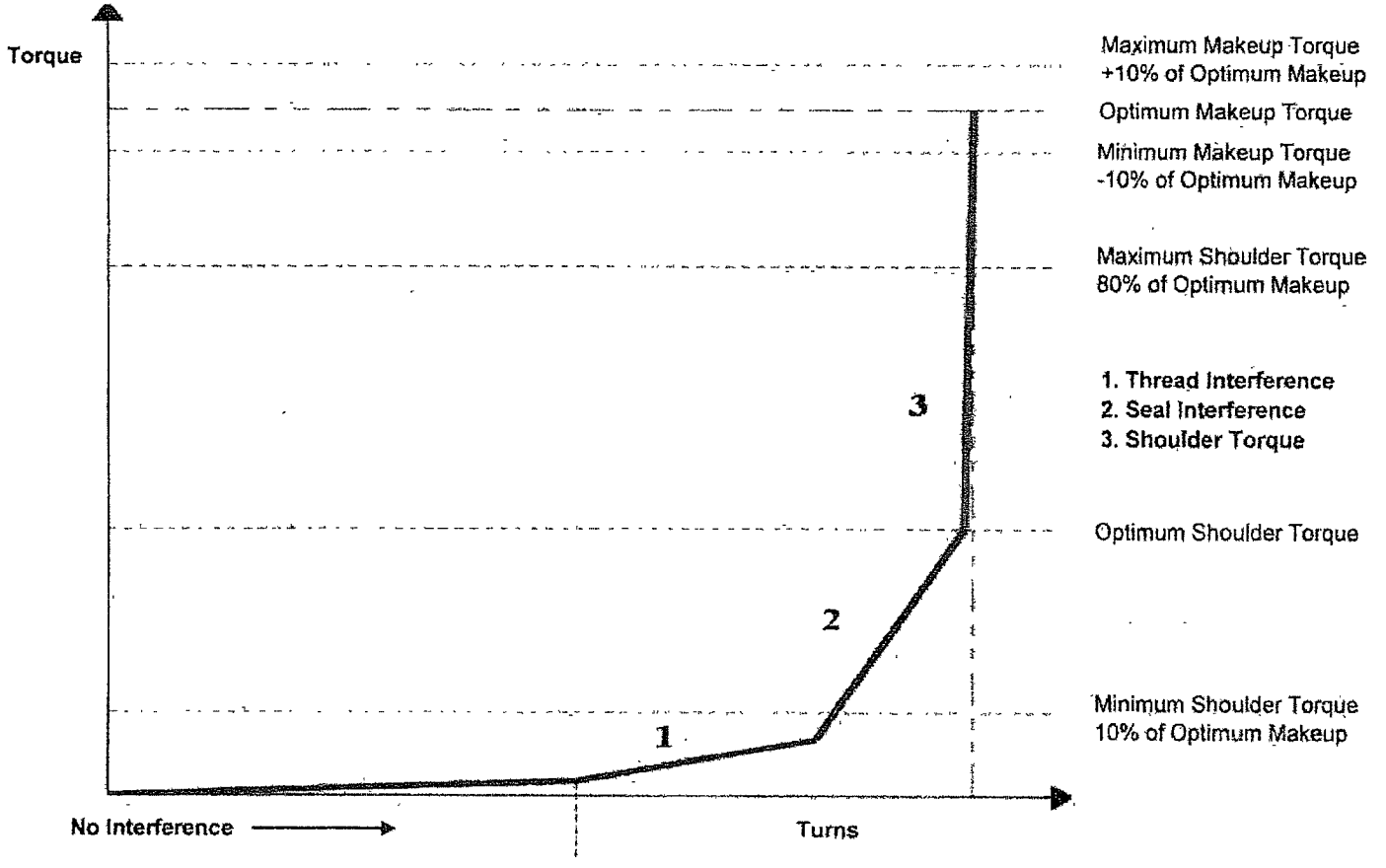
TECHNICAL DATA SHEET

4" • 11.60# • L-80

ULTRA FJ™ Premium Connection

Make-Up Torque (Ft-Lbs)

Minimum	Optimum	Maximum	Yield
2,800	3,100	3,400	4,900



For Help Please Call Our ULTRA Field Service Manager:

Mobile (432) 557-1916 **Office (432) 367-3201** **Fax (432) 332-5019**

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Toll free: 888-258-2000

IPSCO

ULTRA Flush Joint Blanking Dimensions

ULTRA FJ

ULTRA

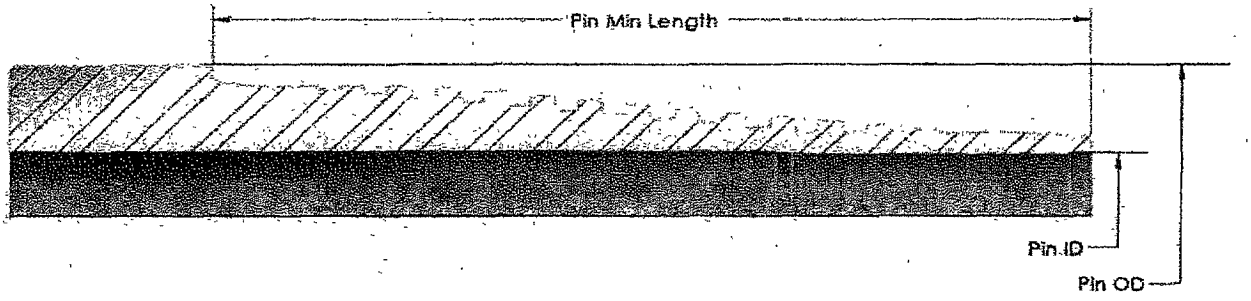
premium oilfield services

ULTRA Premium Oilfield Services
3333 Brazos Avenue
Odessa, TX 79764

(432) 337-2109 (432) 580-6607 Fax (432) 332-5019

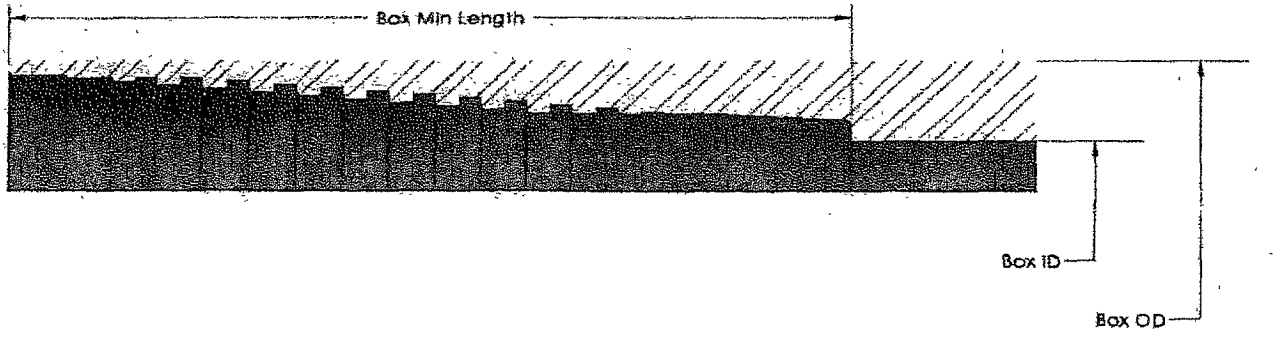
Size (inch)	Weight (#)	Wall Thickness (in.)
4	11.60	0.286

Drift Diameter: 3.303in. Plain End Weight: 11.34 Make-Up Loss: 3.447in.



Pin OD: 4.02in. TOL. (+0.030, -0.000)
Pin ID: 3.419in. TOL. (+0.000, -0.016)

Pin Min Length: 4in.
Add 1.625in. for single recut.



Box OD: 4.02in. TOL. (+0.030, -0.000)
Box ID: 3.448in. TOL. (+0.000, -0.030)

Box Min Length: 4in.
Add 1.25in. for single recut.

Print Date
1/26/2011 16:33
R 0

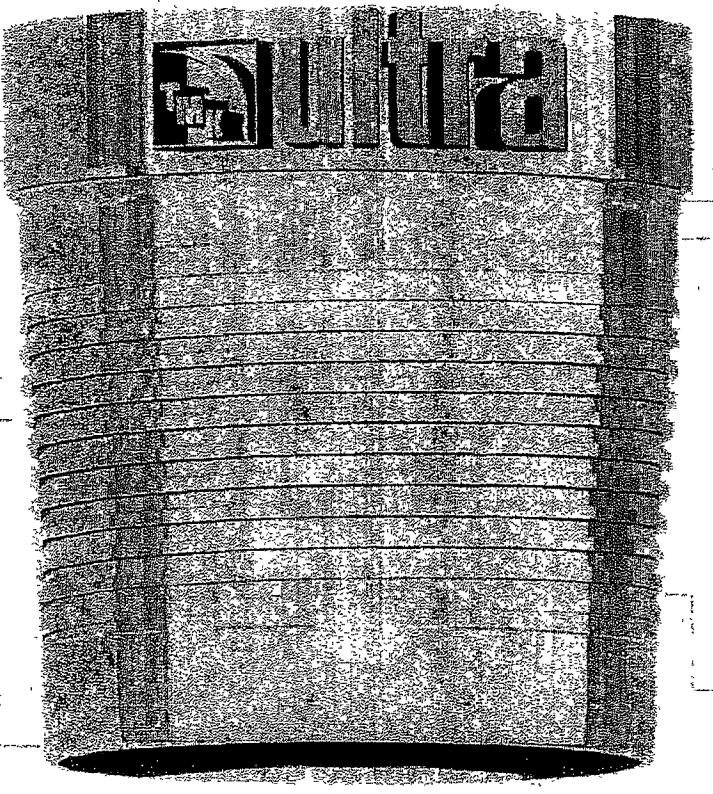
ULTRA Odessa
3333 Brazos Avenue
Odessa, Texas 79764
Tel: 432-337-2109

ULTRA Houston
8216 Miller Road #3
Houston, Texas 77049
Tel: 281-456-8400

TECHNICAL DATA SHEET

ULTRA FJ™ Premium Connection

The Strongest Flush-Joint Connection



FullContact™ Threads
- Compression Efficiency
- High tension and bending capacity
- Deep, easy stabbing and quick, easy make-up with no cross threading risk

Sphere-and-Cone Internal Metal Seal
- External factors (axial loads, temperature, dope, make-up torque) do not affect seal performance
- Connection can be tripped multiple times

Positive Torque Stop
- Reliability and connection performance

External Metal Seal
- Pressure Integrity

Run-in/Run-out Threads
- Maximum critical section area
- Increases overall connection strength

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Tel: 281-949-1023
Toll free: 888-258-2000

ACTIVITY:

Running Procedure – ULTRA Services Flush Joint (FJ)

General

The rig crew with supervision of a certified Field Service Technician shall conduct all running operations in accordance with API Recommended Practice 5C1. Additionally, they should observe all generally accepted good running practices and handling procedures for premium casing and proprietary connections when running casing with ULTRA-FJ connections. This includes, but is not limited to.

- Certified Field Service Technician supervision.
- Proper Equipment. (Note: ULTRA-FJ is not interchangeable between different weights of the same OD; all running equipment must be sized correctly and equipped with the correct threads.)
  - Drift.
  - Safety subs.
  - Handling subs.
  - Stabbing guide.
  - Any required cross-overs.
- Assembly tools:
  - Power Tongs properly calibrated and installed, with size specific jaws to grip the pipe evenly. (All torques provided in ft-lbs.)
  - Torque-turn monitor with a minimum sample rate of 500 samples per turn.
- Connections cleaned and visually inspected.
  - Do not clean with diesel as a solvent.
  - Do not use wire brushes.
- Connections properly doped (**important**. refer to doping instructions).
- Clean thread protectors reinstalled.
- Correct rig handling:
  - Soft lines or single joint elevators.
  - A stabber in the derrick.
  - Stabbing guide used during running.
  - Elevators unlatched during assembly.

ACTIVITY:

Doping Procedure for ULTRA-FJ Connections

Prior to running, the crew should clean and dry both pin and box connections. This may be performed in separate operations. If so, an approved light lubricating oil and corrosion inhibitor may be applied to prevent surface rust. Thread dope may be applied directly to the connections without removing the light oil base, with supervision of the certified Field Service Technician.

After cleaning, the certified Field Service Technician should apply a **light, even coat** of API modified thread compound or equivalent (Best OF Life 2000).

- To the Threads and Seal Area of the Box.
- To the Seal Area of the Pin.

[Note: "API modified thread compound", refer to API Bulletin 5A2.]

[Note: "light coat" means that the machined thread profile can be clearly and distinctly seen, with no more than 30% of the thread grooves filled with dope.]

Recommended Make-up Torque for ULTRA-FJ

The operator shall assemble the connection to the torque specified by ULTRA Premium Oilfield Services. The torque specification shall be given by:

- A minimum torque.—the minimum torque to which the connection shall be assembled. (10% less than optimum torque).
- An optimum torque.—the nominal torque for best performance.
- A maximum torque. —highest recommended torque for normal operations. (10% greater than optimum torque).

A torque shoulder must be clearly visible. The shoulder torque should be greater than 10% and less than 80% of specified optimum torque. A sample torque turn chart accompanies this Recommended Procedure (**Figure 1**).

When using thread lock, add 10% to the assembly torque for proper make up.

Assembly Anomalies

If either of the following conditions occur, the certified Field Service Technician may: 1), breakout the connection, visually inspect the pin and box, and if judged to be in good condition, re-assemble the connection; or 2), contact ULTRA Premium Oilfield Services for further instructions.

- The shoulder torque is less than 10% or greater than 80% of specified optimum torque.
- The assembly torque exceeds the specified maximum torque.

Re-Assembly of ULTRA-FJ

If for any reason the crew disassembles the connection, even partially, they should completely disassemble, clean, and visually inspect the pin and box. A certified Field

ACTIVITY:

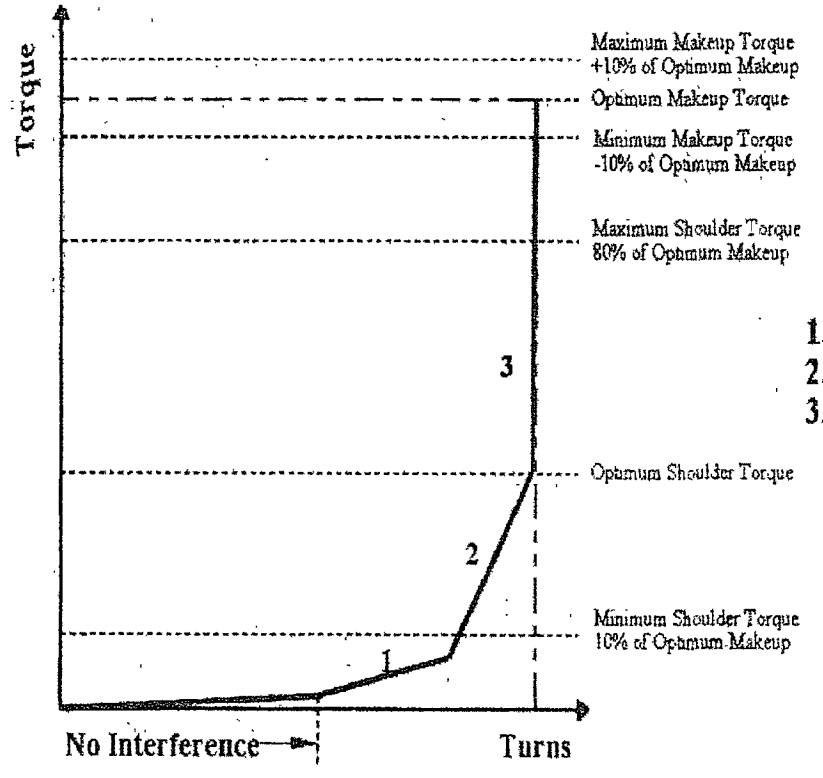
Service Technician may repair any minor tears or galls in the thread with: a file, stone, appropriate abrasive tool, and "Scotchbrite" or equivalent. The certified technician **may not repair the seal surfaces.**

If a qualified inspector determines that the connection is serviceable, the certified Field Service Technician shall spray the connection with an even coat of molybdenum disulfide spray (dry-moly), allow moly to dry, then re-dope the connection and re-assemble. This process may be done as many times as necessary.

Any subsequent make-up of the connection must be to a torque greater than the previous torque to which the connection has experienced. If a different pin is made-up into a box, the make-up torque must be greater than that which either pin or box member has experienced.

Figure 1.

Slope 1 => thread interference
Slope 2 => seal interference
Slope 3 => torque shoulder reached (Delta Torque)



1. **Thread Interference**
2. **Seal Interference**
3. **Shoulder Torque**

ACTIVITY:

Field Service Technician Support Group:

Ultra Premium Oilfield Services, Odessa, Texas:
Fred Roberson; Office: (432) 367-3201. Cell: (432) 557-1916
24/7 (432) 580-6607

Ultra Premium Oilfield Services, Longview, Texas:
James Pittinger; Office: (903) 663-3499. Cell: (903) 399-9305

THANK YOU FOR CHOOSING THE ULTRA CONNECTION!

TECHNICAL DATA SHEET

4" • 11.60# • L-80

ULTRA-FJ™ Premium Connection

ULTRA Premium Oilfield Services is one of North America's leading manufacturers of Premium threaded connections for the global exploration and recovery of Oil and Gas. **ULTRA** connections date back to the early 1990's, when two engineers, the late Erich F. Klementich, PE and ULTRA's Ed Banker, PE designed a unique full contact thread form with run-in/run-out threads to produce the strongest connections in the industry today.

The **ULTRA FJ** Flush-joint casing connection has the highest tensile efficiency of any true flush-joint connection. The connection's compression efficiency is equal to or greater than it's tensile efficiency.

Connection Parameters

Efficiency - Tension:	**68.0%**	%
Efficiency - Compression:	**70.1%**	%
Optimum Torque:	**3,100**	ft-lb
Yield Torque:	**4,900**	ft-lb
Max. Uniaxial Bend:	**62**	deg/100ft
Minimum Internal Yield Pressure.	**100%**	psi
Collapse Pressure:	**100%**	psi

Maximum uni-axial bending is the calculated value at which the connection would yield in simple 2-dimensional bending.

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