

MAN WELDING SERVICES, INC

Company Mewbourne Date 11-4-07
Lease Shands "3" Fed Com #1 County Eddy
Drilling Contractor Patt UTI #45 Plug & Drill Pipe Size 11" C-22 / 4'2" x H

Accumulator Function Test - OO&GO#2

To Check - USABLE FLUID IN THE NITROGEN BOTTLES (III.A.2.c.i. or ii or iii)

- Make sure all rams and annular are open and if applicable HCR is closed.
- Ensure accumulator is pumped up to working pressure! **(Shut off all pumps)**
 1. Open HCR Valve. (If applicable)
 2. Close annular.
 3. Close **all** pipe rams.
 4. Open one set of the pipe rams to simulate closing the blind ram.
 5. For 3 ram stacks, open the annular to achieve the 50+ % safety factor. (5M and greater systems).
 6. **Record remaining pressure** 1700 psi. **Test Fails if pressure is lower than required.**
 - a. {950 psi for a 1500 psi system} b. {1200 psi for a 2000 & 3000 psi system }
 7. If annular is closed, open it at this time and close HCR.

To Check - PRECHARGE ON BOTTLES OR SPHERICAL (III.A.2.d.)

- Start with manifold pressure at, or above, maximum acceptable pre-charge pressure:
 - a. {800 psi for a 1500 psi system} b. {1100 psi for 2000 and 3000 psi system}
- 1. Open bleed line to the tank, slowly. **(gauge needle will drop at the lowest bottle pressure)**
- 2. Close bleed line. Barely bump electric pump and see what pressure the needle jumps up to.
- 3. **Record pressure drop** 300 psi. **Test fails if pressure drops below minimum.**
- **Minimum:** a. {700 psi for a 1500 psi system} b. {900 psi for a 2000 & 3000 psi system}

To Check - THE CAPACITY OF THE ACCUMULATOR PUMPS (III.A.2.f.)

- Isolate the accumulator bottles or spherical from the pumps & manifold.
- Open the bleed off valve to the tank, {manifold psi should go to 0 psi} close bleed valve.
 1. Open the HCR valve, {if applicable}
 2. Close annular
 3. With **pumps** only, time how long it takes to regain the required manifold pressure.
 4. **Record elapsed time** 1:45. **Test fails if it takes over 2 minutes.**
 - a. {950 psi for a 1500 psi system} b. {1200 psi for a 2000 & 3000 psi system}

MAN

WELDING SERVICES, INC.

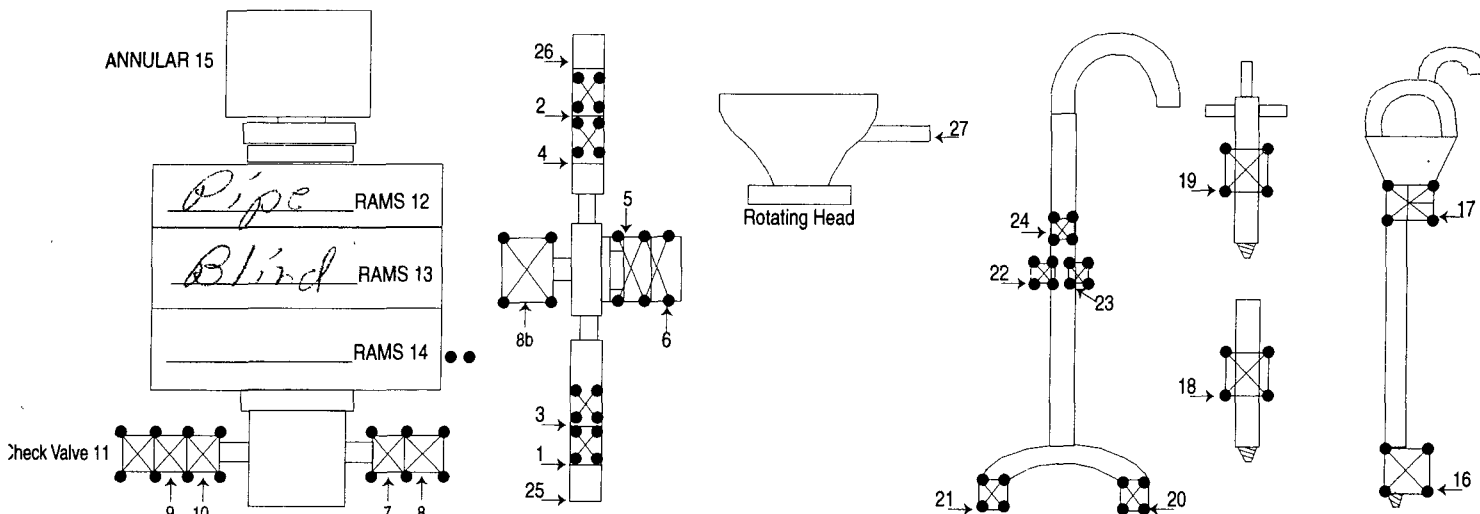
P.O. Box 1541 • Lovington, N.M. 88260
BUS: 505 396-4540 • FAX: 505 396-0044



INVOICE

B 7773

Company Newbourne Date 11-4-07 Start Time 10:00 ☒ am ☐ pm
Lease Sharps "3" Fed. con. #1 County ddy State N.M.
Company Man _____
Wellhead Vendor _____ Tester R. N. Northcott
Orig. Contractor Patterson UTL Rig # 45
Tool Pusher _____
Plug Type C-22 Plug Size 11" Drill Pipe Size 4 1/2 x 14
Casing Valve Opened Yes Check Valve Open Yes



TEST #	ITEMS TESTED	TEST LENGTH	LOW PSI	HIGH PSI	REMARKS
1	19	10/10	250	5000	Had to tighten
2	18	10/10	250	5000	Bottom Flange on Mud
3	16	10/10	250	5000	Cross. 2, K.
4	17	10/10	250	5000	
5	4, 26, 5, 8	10/10	250	5000	
6	3, 2, 5, 8	10/10	250	5000	
7	3, 4, 5, 8	10/10	250	5000	
8	3, 4, 5, 9, 13	10/10	250	5000	
9	3, 11, 12	10/10	250	5000	
10	2, 11, 12	10/10	250	5000	
11	2, 11, 15	10/10	250	2500	
12	25, 4, 5, 8	10/10	250	5000	
					*8 Is HCR Valve.
					*25 Is Super Choke.

B HR@ 1000.00
2 HR@ 100.00 = 200.00
Mileage 14.5 @ 10.00 = 145.00

SUB TOTAL 1345.00
TAX 72.29
TOTAL 1417.29

