



# MAN WELDING SERVICES, INC

Company MEWBORNE Date 5-25-14

Lease Brushy Draw DM FEN<sup>TH</sup> County Eddy

Drilling Contractor PATTERSON 1160 Plug & Drill Pipe Size 11" C22 4 1/8 IF

Accumulator Pressure: 3000 Manifold Pressure: 1600 Annular Pressure: 1200

## 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 1525 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 950 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 54 sec. 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

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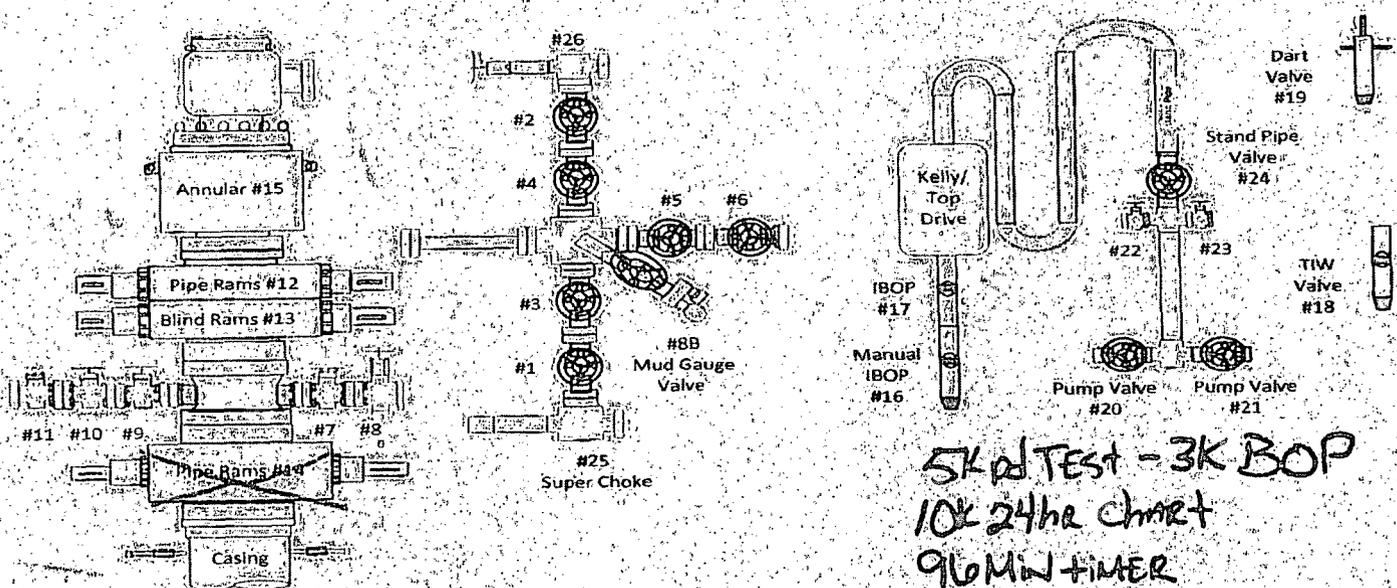
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Company: MEWDOURNE Date: 5-25-14 Invoice # B65203

Lease: Bushy Draw ID# FED #1 H Drilling Contractor: PATERSON Rig # 160

Plug Size & Type: 7 1/2 C22 Drill Pipe Size: 4 1/2 IF Tester: Will Ryder

Required BOP: \_\_\_\_\_ Installed BOP: \_\_\_\_\_  
 \*Appropriate Casing Valve Must Be Open During BOP Test\* Check Valve Must Be Open/Disabled To Test Kill Line Valves



SKID TEST - 3K BOP  
10x 24hr chart  
90 MIN TIMER

TEST #	ITEMS TESTED	TEST LENGTH	LOW PSI	HIGH PSI	REMARKS
#1	1 TRUCK TEST	10-10	250	5000	PASSED
	2 19	10-10	250	5000	PASSED
	3 18	10-10	250	5000	PASSED
#2	4 20, 21, 22, 23	10-10	250	3500	PASSED
	5 24	10-10	250	5000	PASSED
	6 17	10-10	250	5000	PASSED
	7 16	10-10	250	5000	PASSED
#3	8 15, 9, 7	10-10	250	1500	PASSED
	9 10, 9, 7	10-10	250	3000	PASSED
	10 12, 10, 8	10-10	250	3000	PASSED
	11 12, 10, 3, 1, 5, 8B	10-10	250	3000	PASSED
#4	12 13, 11, 1, 2, 6	10-10	250	3000	PASSED
	13 13, 11, 25, 26, 6	Bump Test		3000	Pressure up to 3000 held for 10 sec 3 bled off

