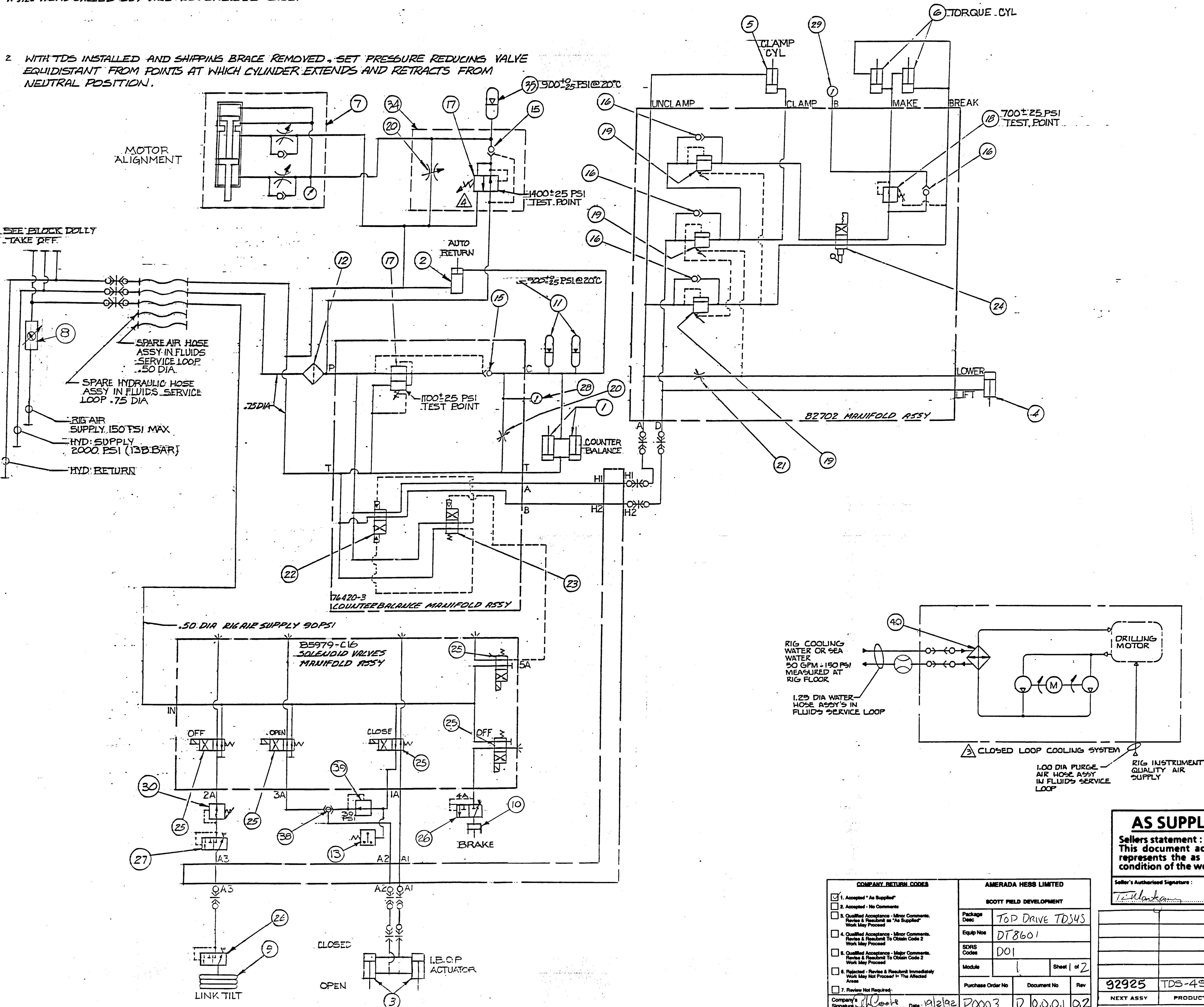


NOTES: UNLESS OTHERWISE SPECIFIED  
1. ALL ITEMS CALLED OUT ARE REFERENCE ONLY

2. WITH TDS INSTALLED AND SHIPPING BRACE REMOVED, SET PRESSURE REDUCING VALVE EQUIDISTANT FROM POINTS AT WHICH CYLINDER EXTENDS AND RETRACTS FROM NEUTRAL POSITION.



REVISIONS			
LTR	DESCRIPTION	PREPARED	CHECKED
—	DEV REL	B. MEISCH	9-20-90
A	SEE DCN	P. LUC	12/14/90
B	SEE DCN	B. MEISCH	10-9-91

4	77530	HEAT EXCHANGER	40
1	87234	REGULATOR ASSY	39
1	87204	SHUTTLE VALVE	38
4	87415	CYLINDER, ASSY	37
1	88459	KIT, DOLLY HYD. INTERFACE	36
1	84601-3	ACCUMULATOR, 2 QUART	35
1	86934	ASSY., ALIGNMENT CYL. MANIPOLD	34
1	91721	DUAL OVERCENTER VALVE	33
4	87410	VALVE, FLOW CONTROL	32
1	91711	CONTROL VALVE	31
1	83542	REGULATOR	30
1	72445	PRESSURE GAUGE	29
1	80630	PRESSURE GAUGE	28
1	88083	QUICK EXHAUST VALVE	27
2	75663	QUICK EXHAUST VALVE	26
5	85890-C16	4 WAY 2 POSITION SOLENOID VALVE	25
1	74430	DIRECTIONAL CONTROL VALVE - MANUAL OPER	24
1	76790	DIRECTIONAL CONTROL VALVE - AIR PILOT	23
1	76417	DIRECTIONAL CONTROL VALVE - PILOT OPER	22
1	84494	NEEDLE VALVE, 0 TO 3/4 MAX EFF ORIFICE	21
2	76419	NEEDLE VALVE, 0 TO 1/4 MAX EFF ORIFICE	20
3	72947	SEQUENCE VALVE	19
1	72948	PRESS REDUCING VALVE	18
2	77615	PRESS REDUCING/RELIEVING VALVE	17
4	72946	CHECK VALVE	16
2	77616	PILOT TO OPEN CHECK VALVE	15
1	91710	DIRECTIONAL VALVE SOLENOID OPER	14
1	79388	PRESSURE SWITCH, 150 PSI	13
1	82747	PRESSURE FILTER, HYD	12
2	82674	ACCUMULATOR, HYD	11
1	73302	MOTOR AIR BEAKE	10
1	82308-2	AIR ACTUATOR, LINK TILT	9
1	74236	FILTER-REGULATOR-LUBRICATOR (40 MICRON)	8
1	85194	CYLINDER ASSY, MOTOR ALIGNMENT	7
2	78987	CYLINDER ASSY, TORQUE - HYD	6
1	80100	CYLINDER, CLAMP - HYD	5
1	80120	CYLINDER ASSY, LIFT	4
2	78986	CYLINDER ASSY, IBOP ACTUATOR - AIR	3
1	80366	CYLINDER, AUTO-RETURN - HYD	2
1	80356	CYLINDER ASSY, COUNTERBALANCE - HYD	1

### AS SUPPLIED

Seller's statement:  
This document accurately  
represents the as supplied  
condition of the work

Seller's Authorized Signature: *T. W. H. H. H.* Date: 9-11-12

COMPANY RETURN CODES		AMERADA HESS LIMITED	
<input checked="" type="checkbox"/> 1. Accepted "As Supplied"		SCOTT FIELD DEVELOPMENT	
<input type="checkbox"/> 2. Accepted - No Comments		Package Data: TOP Drive TDS4S	
<input type="checkbox"/> 3. Qualified Acceptance - Minor Comments. Review & Resubmit as "As Supplied" Work May Proceed		Equip Nos: DT8601	
<input type="checkbox"/> 4. Qualified Acceptance - Minor Comments. Review & Resubmit To Obtain Code 2 Work May Proceed		SORS Codes: D01	
<input type="checkbox"/> 5. Qualified Acceptance - Major Comments. Review & Resubmit To Obtain Code 2 Work May Proceed		Module: L Sheet 1 of 2	
<input type="checkbox"/> 6. Rejected - Review & Resubmit Immediately Work May Not Proceed In The Affected Area		Purchase Order No: P0003	
<input type="checkbox"/> 7. Review Not Required		Document No: D 0001 02	
Company's Signature: <i>T. W. H. H. H.</i> Date: 9/2/12		Rev: 02	

UNLESS OTHERWISE SPECIFIED	
INTERPRET DIMENSIONS & TOLERANCES PER ANSI Y14.5	INTERPRET ABBREVIATIONS PER ANSI Y11.1
X ± .1 .XX ± .03 .XXX ± .010	
ANGULAR TOLERANCE	± 0° 30'
MACHINED SURFACES	250 / .001
DIMENSIONS ARE IN INCHES	
DO NOT SCALE DOCUMENT	
92925	TDS-4S
NEXT ASSY	PRODUCT
APPLICATION	

LIST OF MATERIALS		APPROVALS		DATE	
PREPARED	B. MEISCH	9-90			
CHECKED	R. A. W.	9-20-90			
ENGR					
APPROVED	A. W. H.	9-21-90			
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Varco BJ		DRILLING SYSTEMS		TITLE: HYD/PNEU/SCHEMATIC CLOSED LOOP COOLING TDS-4S (AMERADA HESS)	
SIZE: D		DOCUMENT NO: 91982		SHEET 1 OF 2	