<u>District I</u> 1625 N. French Dr.	., Hobbs, N <sup>i</sup> N	F	State of New Mexico Energy, Minerals & Natural Resources					Form C-101 June 16, 2008			
District II 1301 W. Grand Av District III 1000 Rio Brazos R District IV 1220 S. St. Francis	d., Aztec, Ni Dr. Santa I	M 87410 Fe NM 87505	·	HOBBS OCD Submit to appropriate District Oil Conservation Divsiion 1220 S. St. Francis Dr. DEC 09 2013 Santa Fe, NM 87505					iate District Office NDED REPORT		
APPLICA PLUGBAC	TION F	OR PER	міт то	DRIL	L, RE-EN7	fer, I	DEEPENECE	IVED			
			ator Name and	d Address					<sup>2</sup> OGRID Number 157984		
Occidental P.O. Box 42			77210-429	14				30- 1723	<sup>3</sup> API Number	0	
<sup>4</sup> Property Code 19520 North Hobbs							nit		<sup>6</sup> Wel	1 No. 46	
		<sup>9</sup> Proposed P Grayburg -			, 3192D			<sup>10</sup> Proposed P			
<sup>7</sup> Surface Lo		a aybar g	Juli Alu		STIADY						
UL or lot no.	Section	Township	Range	Lot. Id			North/South Line	Feet from the	East/West line	County	
0 <sup>8</sup> Proposed B	18 ottom H	18-S	38-E	ferent	110 From Surfa	1	South	1670	East	Lea	
UL or lot no.	Section	Township	Range	Lot. Id			North/South Line	Feet from the	East/West line	County	
Additional W								<i>n</i>			
Work Typ		12	Well Type Cod	P 1 <sup>3</sup> Cable/Rotary 14 Leas			P 15 Ground Level Elev P 3661.6'				
<sup>16</sup> Multij No			Proposed Dept 4615' TVI	-				ontractor &P 346	<sup>20</sup> Spud Date January, 2014		
										<b>J</b> , <b>Lu</b>	
<sup>21</sup> Proposed ( Hole Si			it Program		ng weight/foot	s	etting Depth	Sacks of Ceme	nt Es	timated TOC	
12-1/	4	9-	5/8		36		1600	640	Surface		
8-3/4	4		7		26		4600	800		Surface	
<sup>22</sup> Describe the n	ronosed prog	aram If this a	nolication is	to DEEPE	N or PLUG BAG	⊂K give	the data on the <b>nr</b> e	sent productive 70	ne and proposed r	new productive zone.	
Describe the blow	out preventio	on program, if	any. Use add	itional she						iew productive zone.	
	· · · ·	pressure,	•	•							
During th to the re	is proce quired d	dure, Oxy isposal f	plans to acility p	use a er OCD	closed-loop Rule 19.15.	o syste .17 (c	em with steel losed loop sy	tanks and h stem schemat	aul contents ic attached)		
<sup>23</sup> I hereby certify	that the infe	rmation given	abovo io truo	and compl	late to the best	<u> </u>			······		
of my knowledge		imanon given	above is true	and comp	iete to the best			ONSERVAT	ION DIVISI	ON	
Signature:	Man	L Step	hear			Appro	ved by:	Ma	ing		
Signature: Mark Stephens   Printed name: Mark Stephens						Title:	Petroleum E	ingmeer			
Title:	Regulat	cory Compl	iance Ana	lyst		Appro	val Date: 2	3/13 E	xpiration Date:	12/13/15	
E-mail Address:	Mark St	.ephens@ox	y.com								
Date: 12/6/13			Phone: (71	3) 366-	5158	Condi	tions of Approval A		,		
								,D	EC 162	013	

1	44
$\checkmark$	1

### APD DATA – DRILLING PLAN

**OPERATOR NAME / NUMBER: OXY USA WTP LP** 

LEASE NAME / NUMBER: North Hobbs G/SA Unit #946

STATE: NM **COUNTY:** Lea

1104' FSL & 1670' FEL, Sec 18, T18S, R38E SURFACE LOCATION:

SL: LONG: 103.1842359'W Lat: 32.7431408'N New Mexico East NAD1927 635982.04 X: 853321.2 **Y**:

C-102 PLAT APPROX GR ELEV: 3661.6'

EST KB ELEV: 3678.1' (16.5' KB)

#### **GEOLOGIC NAME OF SURFACE FORMATION** 1.

### a. Permian

#### ESTIMATED TOPS OF GEOLOGICAL MARKERS & DEPTHS OF ANTICIPATED FRESH WATER, OIL 2. OR GAS

Formation	TV Depth Top*	Expected Fluids
Base Red Beds	226	Fresh Water
Rustler	1546	Formation Fluid
Top of Salt	1641	Formation Fluid
Base of Salt	2706	Formation Fluid
Queen	3491	Formation Fluid
Grayburg	3816	Formation Fluid
Basal Grayburg	3986	Formation Fluid
San Andres	4091	Hydrocarbon
TD	4600	TD

\*Note: Depths are below GL.

A. Fresh Water formations will be covered with the 16" conductor pipe, which will be set at 53' prior to spud.

GREATEST PROJECTED TD 4615' MD / 4615' TVD **OBJECTIVE:** San Andres

#### 3. CASING PROGRAM

Surface Casing: 9.625" 36# J55 LTC casing set at  $\pm$  1600' MD/ 1600' TVD in a 12.25" hole filled with 9.8 ppg mud Production Casing: 7" 26# J55 LTC casing set at ± 4600'MD/ 4600'TVD in a 8.75" hole filled with 10.3 ppg mud

	OD ID		Coupling	Drift	Weight			Burst	Collapse	Tension	Torque (ft-lbs)		
String	(in)	(in)	OD (in)	(in)	(#/ft)	Grade	CXN	(psi)	(psi)	(k-lbs)	Minimum	Optimum	Maximum
Conductor	16	15.25	17	14.5	65	H40	Weld	1640	670	736	4390	4390	4390
Surface	9.625	8.921	10.625	8.765	36	J55	LTC	3520	2020	564	3400	4530	5660
Production	7	6.276	7.656	6.151	26	J55	LTC	4980	4320	415	2750	3670	4590

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- 2 2a

### 4. CEMENT PROGRAM:

Surface	Interval
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ч.,/

- 4

Interval	Amount sks	Ft of Fill	Туре	Gal/Sk	PPG	Ft <sup>3</sup> /sk	24 Hr Comp
Surface (TOC:	0'-1600')						
Lead: 0' - 1200' 100% Excess	440	1200	Premium Plus Cement: 94 lbm/sk Premium Plus Cement 4 % Bentonite (Light Weight Additive) 1 % Calcium Chloride - Flake(Accelerator) 0.125 lbm/sk Poly-E-Flake (LC Additive)	9.14	13.5	1.73	880 psi
<b>Tail:</b> 1200' – 1600' 100% Excess	200	400	Premium Plus Cement: 94 lbm/sk Premium Plus Cement, 1 % Calcium Chloride - Flake	6.36	14.8	1.34	1600 psi

### Production Interval

Interval	Amount sks	Ft of Fill	Туре	Gal/Sk	PPG	Ft <sup>3</sup> /sk	24 Hr Comp
Production (T	OC: 0' - 460	00')					
Stage 1 Primary: 3600'-4600' 85% Excess	270	1000	Premium Plus Cement 47 lbm/sk Premium Plus Cement 0.6 lbm/sk LAP-1 (LC Additive) 0.3 lbm/sk CFR-3 (Dispersant) 37 lbm/sk Pozmix A - Class C (Cement) 0.25 lbm/sk D-AIR 3000 (Defoamer) 0.125 lbm/sk Poly-E-Flake (LC Additive)	4.70	14.8	1.12	1236 psi
Stage 2 Lead: 0' - 1600' 10 % Excess 1600' - 2600' 200 % Excess	310	2600	Interfill C 0.125 lbm/sk Poly-E-Flake (LC.) 0.5 % Halad(R)-322 (LC Additive) 0.5 lbm/sk D-AIR 5000 (Defoamer)	13.87	11.9	2.44	376 psi
Stage 2 Tail: 2600'-3600' 100 % Excess	220	1000	Premium Plus Cement 94 lbm/sk Premium Plus Cement 0.2 % WellLife 734 (Cement Enhancer) 5 lbm/sk Microbond (Expander) 0.3 % Econolite (Light Weight Additive) 0.3 % CFR-3 (Dispersant)	7.72	14.20	1.55	1914

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### 5. PRESSURE CONTROL EQUIPMENT

Surface: 0 – 1600' None.

**Production: 1600' - 4600'** The minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required to drill below the surface casing shoe shall be 3000 (3M) psi (including annular).

Casing Wellhead Flange		BC	<b>DP</b> Stack	K Contraction of the second se	Pressure Test (psi)				
Size	Size	Pressure	<b>—</b> (1)	Type(1)SizePressure(in.)(psi)		Ini	tial	Subsequent	
(in.)	(in.)	(psi)	Туре			Rams Ann		Rams	Ann
9 5/8"	11"	3000	R, R, A, G	11"	5000	250/ <b>1800</b>	250/ <b>1800</b>	250/ <b>1800</b>	250/1800

- a. The 11" 3000 psi blowout prevention equipment will be installed and operational after setting the 9 5/8" surface casing and the 9 5/8" SOW x 11" 3K wellhead. A modified Wellhead System with 7" Mandrel Hanger will be used.
- **b.** The BOP and auxillary BOPE will be tested by a third party upon installation to the 9 5/8" 36# J-55 surface casing. All equipment will be tested to 250/1800 psi for 10.
- c. The pipe rams will be functionally tested during each 24 hour period; the blind rams will be functionally tested on each trip out of the hole. These functional tests will be documented on the Daily Driller's Log. Other accessory equipment (BOPE) will include a safety valve and subs as needed to fit all drill strings, and a 2" kill line and 3" choke line having a 3000 psi WP rating.
- d. See attached BOP & Choke manifold diagrams.

### 6. MUD PROGRAM:

Depth (ft)	Mud Weight (ppg)	Viscosity (sec/qt)	Fluid Loss (cc's)	рН	Mud System
0 - 1500	8.4 - 9.3	28-30	N/C	<9.0	Freshwater / Sweeps
1500 - 1600	8.8 - 9.3	32 - 40	< 25	<9.0	FW – Native Mud
1600 - 3600	9.8 - 10.0	28-32	N/C	10.0 - 11.0	Brine Water / Sweeps
3600 - 4600	10.0 - 10.3	36 - 45	<8	10.5 - 11.0	Salt Gel / Starch

Remarks: Pump high viscosity sweeps as needed for hole cleaning. The necessary mud products for additional weight and fluid loss control will be on location at all times.

A. Appropriately weighted mud will be used to isolate potential gas, oil, and water zones until such time as casing can be cemented into place for zonal isolation.

### 7. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT

- **a.** A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor unobstructed and readily accessible at all times.
- b. Hydrogen sulfide detection equipment will be in operation after drilling out the surface casing shoe until the production casing is cemented. Breathing equipment will be on location upon drilling the surface casing shoe until total depth is reached. <u>If Hydrogen Sulfide is encountered, measured amounts and formations will be reported to the REGULATORY AGENCIES.</u>

.

### 8. LOGGING / CORING AND TESTING PROGRAM:

- A. Mud Logger: None.
- B. DST's: None.
- C. Open Hole Logs as follows: May have triple combo for production section surface to TD. Spectral GR from B. Grayburg to TD. May have RFT testing.

### 9. POTENTIAL HAZARDS:

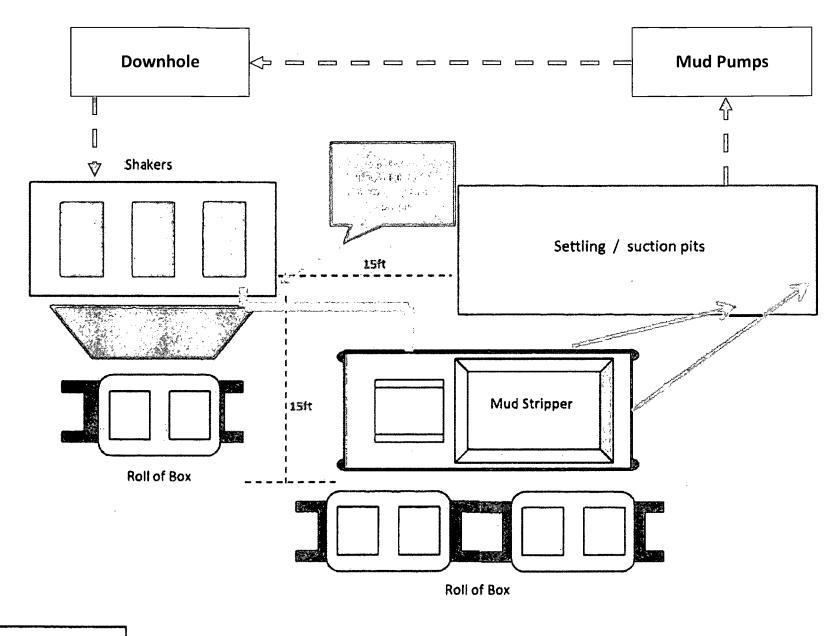
- A. H2S detection equipment will be in operation after drilling out the surface casing shoe until the production casing has been cemented. Breathing equipment will be on location from drilling out the surface shoe until production casing is cemented. If H2S is encountered the operator will comply with Onshore Order #6.
- B. The MASP will be 1254psi and BOP test (MASP + 500) will be 1754psi
- C. No abnormal temperatures or pressures are anticipated. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Adequate flare lines will be installed off the mud/gas separator where gas may be flared safely.

### **10. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS**

Road and location construction will begin after Oxy has submitted APD. Anticipated spud date will be as soon as possible after approval and as soon as a rig will be available. Move in operations and drilling is expected to take 10 days. If production casing is run, then an additional 30 days will be needed to complete the well and construct surface facilities and/or lay flow lines in order to place well on production.

### **11. COMPANY PERSONNEL:**

Name	Title	Office Phone
Edgar Diaz-Aguirre	Drilling Engineer	713-840-3037
Adriano Celli	Drilling Engineer Supervisor	713-985-6371
Kevin Videtich	Drilling Superintendent	713-350-4761
Michael Tessari	Drilling Manager	713-840-3092



8" Flex Hose 20 ft long

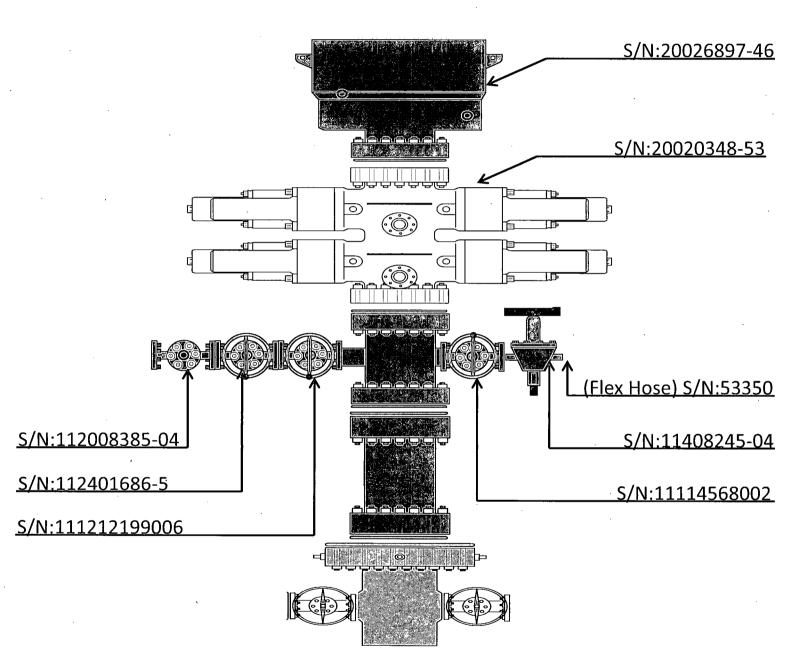
H&P Flex 4 Closed Loop Schematic

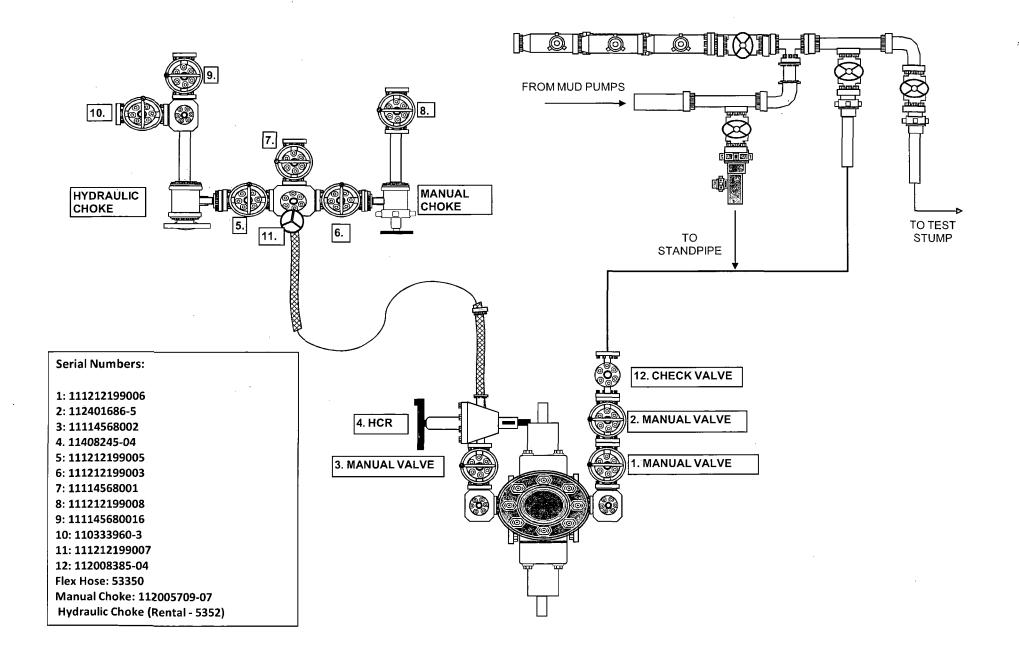
HOBBS OCD

H&P 346 BOP Diagram

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### **CERTIFICATE OF COMPLIANCE**

CUSTOMER: CAMERON CAMERON P.O. NO.: 4700345054/10,20,30

PART NUMBER: 141511-31-94-02

**REVISION: LEVEL:04** 

DATE OF MANUFACTURE: 8.08.2008

QUANTITY: 12 pcs.

DESCRIPTION: ASSEMBLY, FLS MANUAL GATE VALVE, 2-1/16 API 5000 FLG ,P+U, DD-NL, PSL2, PR2

SERIAL NOS.: From 111212199001 to 111212199012

The Cameron equipment described above was manufactured and tested per the engineering documents in the Cameron Bill of Material, and all applicable requirements of API Specifications 6A and Q1, the editions in effect at the above date of manufacture. Product Specification Level (PSL) is as noted in the product description above. Manufacture was performed under the Quality Management System certified to API Q1 / ISO TS 29001, <u>API License Number 6A-0327.</u> (Sterom S.A.) This license was active at the date of manufacture.

This certification, and supporting data contained in Sterom company records, has been verified, and is, to the best of our knowledge, true and correct.

Signature

Name: Cristin FLOREA

Title: Quality Control

Date: 8.08.2008

Form: F-824-13 Rev 01



**Drilling and Production Systems** 

Cameron France, S.A.S. Siège Social et Usine Plaine Saint-Pierre – CS 620 34535 Béziers Cédex - France Tel. # 00- 334.67.11.15.00 Fax # 00- 334.67.11.16.00 www.c-a-m.com

## Certificate of Conformance New Manufacture

Date: Customer: 25-avr.-12 CAM DRILLING SYST ODESSA MELCO 4700645730

Cameron Sales Order Number:

2110430

**Cameron Internal Tracking Number:** 

Customer PO Number: Project n° :

Cameron certifies that the item(s) described herewith is (are) in conformance with the requirements of the above Purchase Order Number and fully comply with applicable Cameron specifications in effect at the date of manufacture. All related documentation in support of the above statement is retained on file by Cameron for a minimum of 10 years from date of manufacture and can be made available to the purchaser upon request.

ltern #	Part Number	Rev #		Description		Qty	Serial Number(s)	Line Item Notes
30	141511-31-94-02		1/16 BORE, 5, 2-1/16 API FL EDITION, TEMP	SEMBLY, MANUAL, MODEL FLS, 000 PSI, ANGE X FLANGE, API 6A 20TH PERATURE CLASS CLASS DD-NL, PSL-2, PR-2		23	112401686-1 to 23	
Company of Children of Childre	nal Endorsements			Endorsement Report /License Numb	Dér		Notes on Scope of Certifi	cation
(if appl	icable)			(If Applicable)	,			
API 6A	,20th ed.			Monogram:License n° 6A-0418.9			n de feit met en de ser anne de met de la de La de la d	สหัสมันหม่องรองสารคายสารคา
NACE	MR0175 latest ed	ition						
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	and an an active of the state o			na na sana ana ana ana ana ana ana ana a				
	<u>an an a</u>	10202 (DA2022						
Ĺ								

All documents and inspection reports to support this certificate of conformance have been verified to the best of my knowledge to be true and correct

Jean-Luc LLORCA Cameron Quality

Signature

Stamp

<u>2 May A2</u> Date

Representative Name

Operational Maintenance Manual is available at :http://www.c-a-m.com

Surface Systems

Camerost Romania S.A. 1, B.P. Hasdeu St. 105600, Campina Prahova, Romania Tel: 440.244.306500 Fax: +40.244.336553 Www.cam.com

# CAMERON

### **CERTIFICATE OF COMPLIANCE**

#### CUSTOMER: CAMERON FRANCE SAS CAMERON P.O. NO.: 4700310851/00033

PART NUMBER: 141513-31-94-03

**REVISION: LEVEL:03** 

DATE OF MANUFACTURE: 29.05.2008

QUANTITY: 14 pcs.

DESCRIPTION: ASSEMBLY, FLS MANUAL GATE VALVE, 3-1/8 API 5,000 FLG, DD-NL; P+U ;PSL3, PR2

SERIAL NOS.: From 111145680001 to 111145680012, 111145680014, 111145680016

The Cameron equipment described above was manufactured and tested per the engineering documents in the Cameron Bill of Material, and all applicable requirements of API Specifications 6A and Q1, the editions in effect at the above date of manufacture. Product Specification Level (PSL) is as noted in the product description above. Manufacture was performed under the Quality Management System certified to API Q1 / ISO TS 29001. <u>API License Number 6A-0327.</u> (Sterom S.A.) This license was active at the date of manufacture.

This certification, and supporting data contained in Sterom company records, has been verified, and is, to the best of our knowledge, true and correct.

Sam

Signature AN

Name: Cristin FLOREA

Tille: Quality Control

Date: 29.05.2008

Form: F-824-13 Rev 01

Reg. Com. J 29/385/1991, C.U.I. 1323964, atribut fiscal R, capital social subscrip si varsat 60.483.470 RON IBAN: RODS RNCB 3910 0000 0015 0001 - B.C.R. Campbra



- OF CONTRACTOR OF CONTRACTOR

We, Cameron France, S.A.S., certify that the under mentioned meets order requirements and Cameron specifications, manufactured and tested according to : API 6A, 19th Edition. PSL3

MATERIAL CLASS :	DD-NL	TEMP. CLASS :	P+U
CUSTOMER :	CAM-DRILLING SYS - O		
CUSTOMER ORDER :	4700401750		
ITEM :	020	BEZIERS ORDER :	1290301
DESIGNATION :	12 Gate Valve 3.1/8" AF	1 5000 W/ACTUATOR	
SERIAL Nº :	111408245-1 to 12		
PART NUMBER :	163936-31-06-03	REV.:	02

Béziers, on 30 106/2009

Conneron France, S.A.S. Plane SampPierre CS 620 34535 DEFIERS OF07 Ta. 04 67 11 15 (0 - Pax 04 67 11 16 23 Service Contrôle

JL.LLORCA QC Supervisor



Drilling and Production Systems

Drilling Aftermarket 2101 S. Broadway Moore, OK 73160 USA Main: 405-813-3199 Fax: 405-682-1051 www.c-a-m.com

# Certificate of Conformance Repair/Remanufacture

Certified as of: (MM/DD/YYYY)	07/29/2013		
Customer:	HELMERICH & PAYNE INTL	Cameron Sales Order Number:	70490168
Customer PO Number:	WHSE-0130006	Cameron Internal Tracking Number:	47-2992507-60

Cameron certifies that the item(s) described herewith is (are) in conformance with the requirements of the above Purchase Order Number and fully comply with applicable Cameron specifications in effect at the date of manufacture. All related documentation in support of the above statement is retained on file by Cameron for a minimum of 10 years from date of manufacture and can be made available to the purchaser upon request.

Rem #	Part Number	Rev	Descripti		Qty	Serial Number(a)	Heat Number	Line liem Notes
1	141513-41- <del>94</del> -03		GATE VALVE ASSEMBLY, MANUAL, MODEL FLS, 3-1/16 BORE, 10,000 PSI, 3-1/16 API FLANGE X FLANGE, API 6A 20TH EDITION, TEMPERATURE CLASS P+U, MATERIAL CLASS DD-NL, PSL-3, PR-2			11033396-03		
Additional Endorsements Endorsement Report (if applicable) Number/License Number (if Applicable)		Notes on Sco	pe of C	ertification				
Complies	with NACE MR-0175							

All documents and inspection reports to support this certificate of conformance have been verified to the best of my knowledge to be true and correct

Eduardo Pacini

Ethiandro Raching

Cameron Quality Representative Name

Signature

Stamp

07/31/2013 Date Signed (MWDD/YYYY)

10



**Drilling and Production Systems** 

Cameron France, S.A.S. Siège Social et Usine Plaine Saint-Plerre – CS 620 34535 Béziers Cédex - France Tel. # 00- 334.67.11.15.00 Fax # 00- 334.67.11.16.00 www.c-a-m.com

### Certificate of Conformance New Manufacture

Date: Customer: A April An CAM-DRILLING SYS - OKC WHSE

Cameron Sales Order Number:

1898153

Customer PO Number:

4700581611

**Cameron Internal Tracking Number:** 

Project nº :

Cameron certifies that the item(s) described herewith is (are) in conformance with the requirements of the above Purchase Order Number and fully comply with applicable Cameron specifications in effect at the date of manufacture. All related documentation in support of the above statement is retained on file by Cameron for a minimum of 10 years from date of manufacture and can be made available to the purchaser upon request.

	ir Rumi i						Contact Surfaction and Contact	
010	162501-31-94-03		2-1/16" API 5 ISO 10423 AND	K VALVE TYPE "MS 000 PSI WP DOUBLE 0 API 6A 20TH EDIT 1 CLASS: DD-NL-EE LASS:P+U.	FLANGE R24, ION PSL-3,	5	112008385-1 to 5	م وج می بر
<u> </u>								
1917年2月				PROBAL PROPERTY INTE				
	,20th ed. MR0175 -2000			Monogram:License n'	° 6A-0418.9			
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All documents and inspection reports to support this certificate of conformance have been verified to the best of my knowledge to be true and correct

Jean-Luc LLORCA

Cameron Quality Representative Name Signature



4 April M

Acimicate al Animaliana	Certificate	of	Conformance
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S/N: 20026897-46 SBOP ASSY, 11-3M, SXF (5M), T-20, SST, XYLAN COATED

RIG TBD	REFERENCE S/N: 20026897-46	REFERENCE DESCRIPTI	on 1-3M, SXF (5M), T-	20, SST,			
SALES ORDER NUMBER		XYLAN COATE		<u></u>			
824272 SALES ORDER LINE ITEM NUMBER 0008	which belongs to Varco, LP; it is loan and remains the property of Varco, LI	This document contains proprietary and confidential information which belongs to Varco, LP; it is loaned for limited purposes only and remains the property of Varco, LP. Reproduction, in whole or in					
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Document number	20026897-46-COC-001
Revision	01

### NOV CERTIFICATE OF CONFORMANCE

Certificate of Conformance				
Equipment Name	SBOP ASSY, 11-3M, SXF (5M), T-20, SST, XYLAN COATED			
Part Number	20026897			
Serial Number	20026897-46			
Customer	HELMERICH AND PAYNE INT'L DRILLING			
Rig	TBD			
Customer Purchase Order	345-353-001			
NOV Sales Order	824272			
Date of Manufacturing	DECEMBER 2008			
Quantity	1			

NOV certifies that the above equipment:

- 1) Was manufactured and inspected in accordance with NOV specifications and customer purchase order requirements.
- 2) Manufactured to:
  - ANSI/API Specification 16A, Third Edition, June 2004.
  - ISO 13533:2001, (Modified) Petroleum and Natural Gas Industries-Drilling and Production Equipment-Drill-Through Equipment.
- 3) Meets the applicable portions of NACE standard MR 0175/ISO 15156, First Edition for H<sub>2</sub>S

Certified By: <u>Paige McNair</u>

Paige McNair Documentation Specialist MATHORIAL, OHLWARL, WARCO Rig Solutions Division Houston Repair Center 5100 N. Sam Houston Parkway W. Houston, Texas 77086 Tel: 281-569-3000 Fax: 281-569-0992 www.nov.com

### **CERTIFICATE OF CONFORMANCE**

This is to certify that the following:

CUSTOMER:HELMERICH & PAYNEPURCHASE ORDER:R-324-352-01PART NUMBER:20020348RCDESCRIPTION:BOP ASSY, 11-5M, DBL, LXT, SxF, w/(4) 3-5M FO, SST, RECON (ASSET # 55-2572)QUANTITY:1RIG NAME:234	SALES ORDER NUMBER:	8014232
PART NUMBER:20020348RCDESCRIPTION:BOP ASSY, 11-5M, DBL, LXT, SxF, w/(4) 3-5M FO, SST, RECON (ASSET # 55-2572)QUANTITY:1	CUSTOMER:	HELMERICH & PAYNE
DESCRIPTION: BOP ASSY, 11-5M, DBL, LXT, SxF, w/(4) 3-5M FO, SST, RECON (ASSET # 55-2572) QUANTITY: 1	<b>PURCHASE ORDER:</b>	R-324-352-01
RECON (ASSET # 55-2572)QUANTITY:1	PART NUMBER:	20020348RC
	DESCRIPTION:	BOP ASSY, 11-5M, DBL, LXT, SxF, w/(4) 3-5M FO, SST, RECON (ASSET # 55-2572)
RIG NAME: 234	QUANTITY:	1
	RIG NAME:	234

The equipment described above was inspected in accordance with NOV Houston Repair Center and NOV Pressure Control Group, Shaffer BOP Controls Products design and specifications requirements. Equipment is remanufactured to like new condition

All material acceptances, dimensional acceptance, functional checks, and processing surveillance were performed by the Quality Control Department in accordance with established NOV procedures. If required, all non-destructive testing was performed by NOV certified personnel or approved sources that meet A.S.M.E. or customer requirements.

All material meets the applicable portions of the, then current, issue of NACE MR0175 for H2S service.



### **RIG SOLUTIONS GROUP**

Low Pressure: (N/A) PSI	Hig	h Pressure: (N/A) PSI	
Gauge Number: (N/A)	Ex	piration Date: (N/A)	
1 <sup>st</sup> low Start Time: (/V/4)	Stop: (N/A)	1 <sup>st</sup> low Start Time: (N/A)	Stop: (N//4)
2 <sup>nd</sup> high Start Time: (11/4)	Stop: (/V/4)	2 <sup>nd</sup> high Start Time: (N//4)	Stop: (N/A)
3rd high Start Time: (N/.4)	Stop: ( <i>N</i> /A)	3rd high Start Time: (N//1)	Stop: (N/A)

DRIFT TEST: Gauge Number: COT 45-6

Drifted By: CHARLIE ZARATE

QA Witnessed By: MMTTun Rusin

Assembled By: CHARLIE ZARATE & JOSE PINEDA

Tested By: CHARLIE ZARATE

Date: 12.26.09

12-26-09

Expiration Date: 08.07.11

Date:

QA Final Approval:

hun \_ Date: 02-04-19

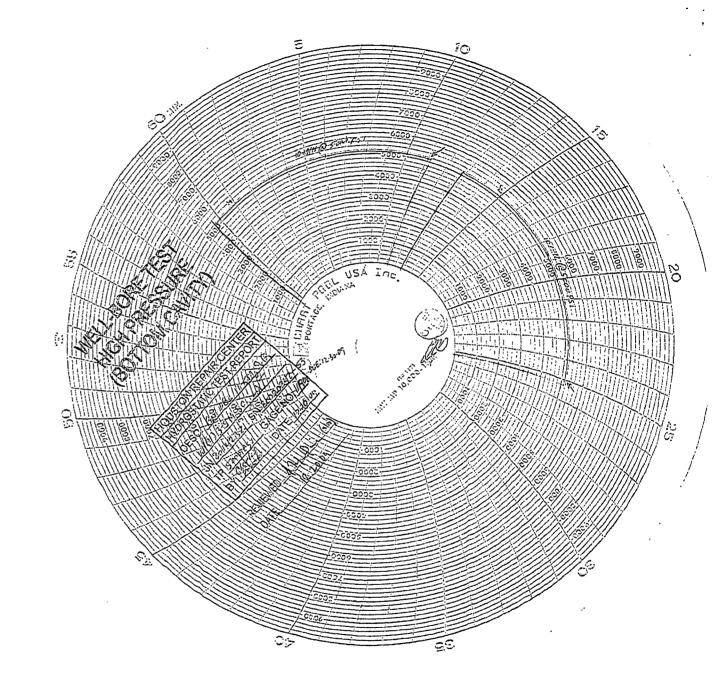
\*\*NOTE \*\*ANY NOT APPLICABLE IS PER TEST PROCEDURE

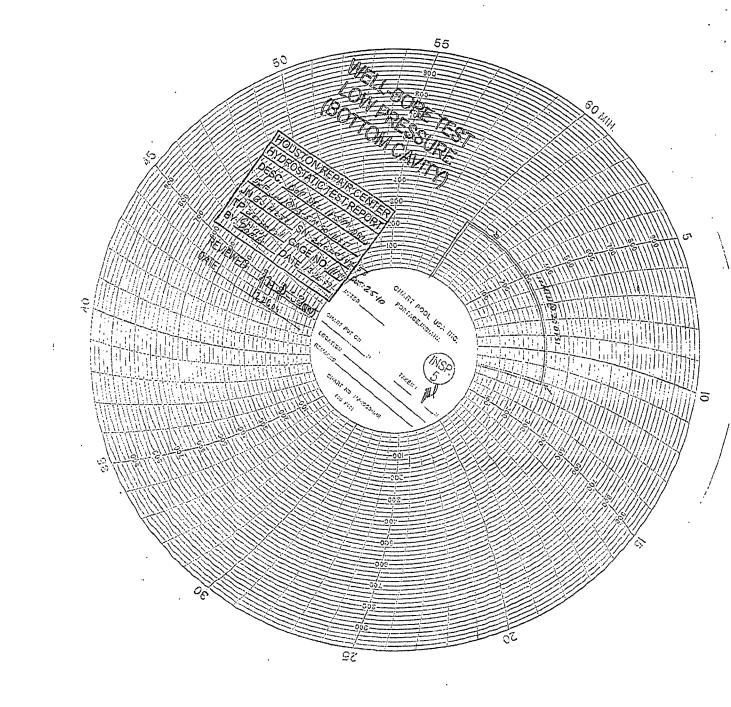
SPECIFICATION: FRM-075

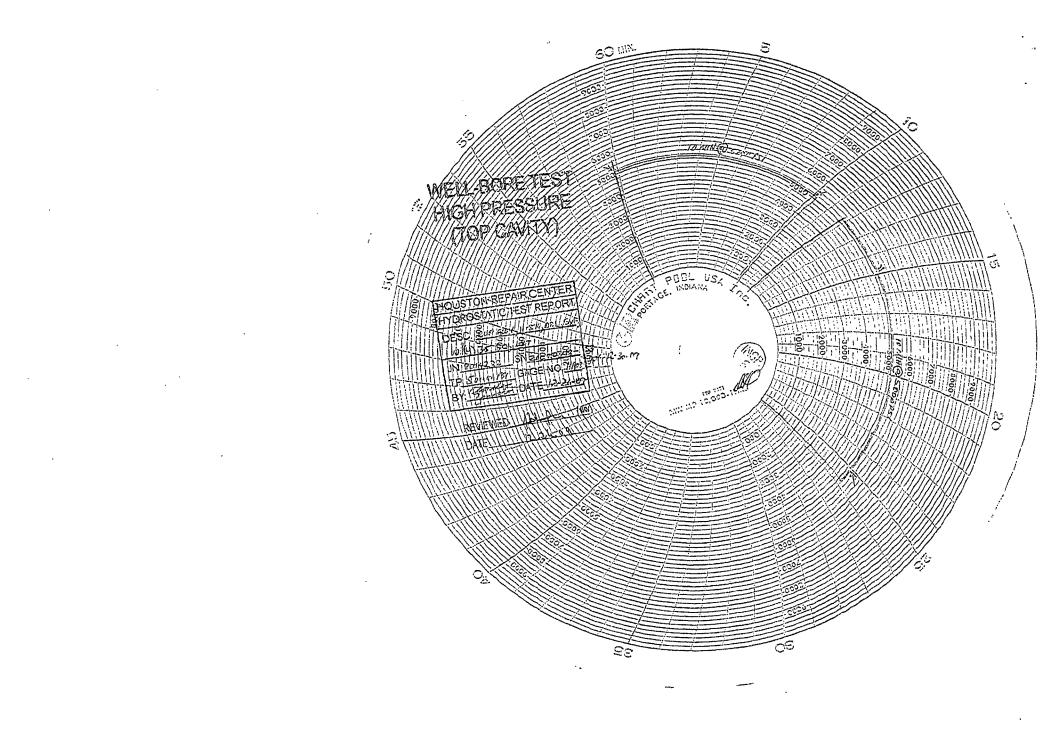
() FMATTORIAN	Houston Rep	oair Center	SPECIFICATION:	FRN	/-075	REV.	E
OILVITELL, VZARCO			OA APPRO	VAL BY:	G. Hunter	12 Aug	2009
Rig Solutions Group			APPRO	VAL BY:	H. Parker	12 Aug	2009
BLOW	OUT PREVEN	TER TEST CER	TIFICATE –	16A			
Customer H&P DRILLING		Location: HOUST	ON REPAIR CI	ENTER			
Work Order #: 8014232		Date: 12.26.09					
Part #: 20021308	Serial Number: 20020348-53						
Description: BOP ASSY, 11-5M, DB	L, SxF, W (4) 3"-5	M SO, LXT (S/N: 2	20020348-53				,
Test Procedure: AX060172 REV.AK							
HYDROSTATIC SHELL TEST: Test Pressure: 7,500 PSI							
Gauge Number: HP34		Expiration Date: 0	1.14.10				
Start Time: 0635AM	Stop: 0641 AM						
Start Time:0641AM	Stop: 0656AM						
HYDRAULIC TEST: U	PPER CAVITY	LOV	VER CAVITY				
Test Pressure: 4,500 PSI							
Gauge Number: HP108 ( <u>UPPER CAVITY</u> )		Expiration Date: 1	2.30.09				
1 <sup>st</sup> Close Start Time: 0717AM	Stop: 0723AM	1 <sup>st</sup> Open	Start Time: 0756	SAM	Stop: 08	80817AM	
2 <sup>nd</sup> Close Start Time: 0723AM	Stop: 0747AM	2 <sup>nd</sup> Open	Start Time: 081	7AM	Stop: 0	838 AM	
Test Pressure: 4,500 PSI							
Gauge Number: HP108 (LOWER CAVITY)		Expiration Date: 1	2.30.09				
1 <sup>st</sup> Close Start Time: 0855AM	Stop: 0901AM	1 <sup>st</sup> Open S	Start Time: 092	2AM	Stop: 09	28AM	
2 <sup>nd</sup> Close Start Time: 0901AM	Stop: 0919AM	2 <sup>nd</sup> Open	Start Time: 093	0AM	Stop: 09	947AM	
CLOSED PREVENTER TEST (rai	n or mandrel test )	<u>ı.</u>					
Low Pressure: 200-300 PSI		High Pressure: 5,00					
( <i>low</i> ) ( <i>lit</i> ) Gauge Number: HP99 / HP (UPPER CAVITY)	ish) 108	Expiration Date: 0 (LOWER CAVI)					
1 <sup>st</sup> low Start Time: 1245PM	Stop: 1257PM	1 <sup>st</sup> low St	art Time: 0150P	M	Stop: 02	202PM	
2 <sup>nd</sup> high Start Time: 0100 PM	Stop: 0110PM	2 <sup>nd</sup> high S	Start Time: 0202	.PM	Stop: 02	214PM	
3rd high Start Time; 0110PM	Stop: 0125PM	3rd high	Start Time: 021	5PM	Stop: 02	226PM	

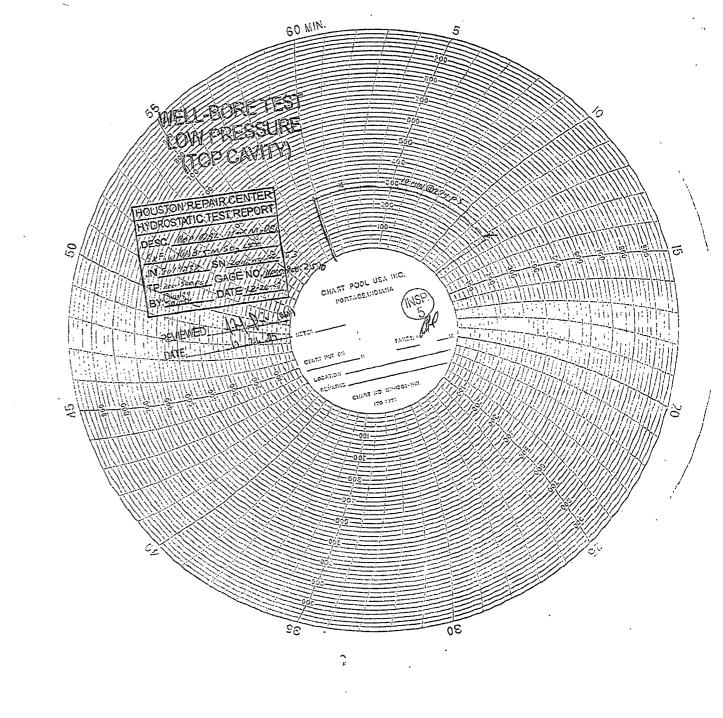
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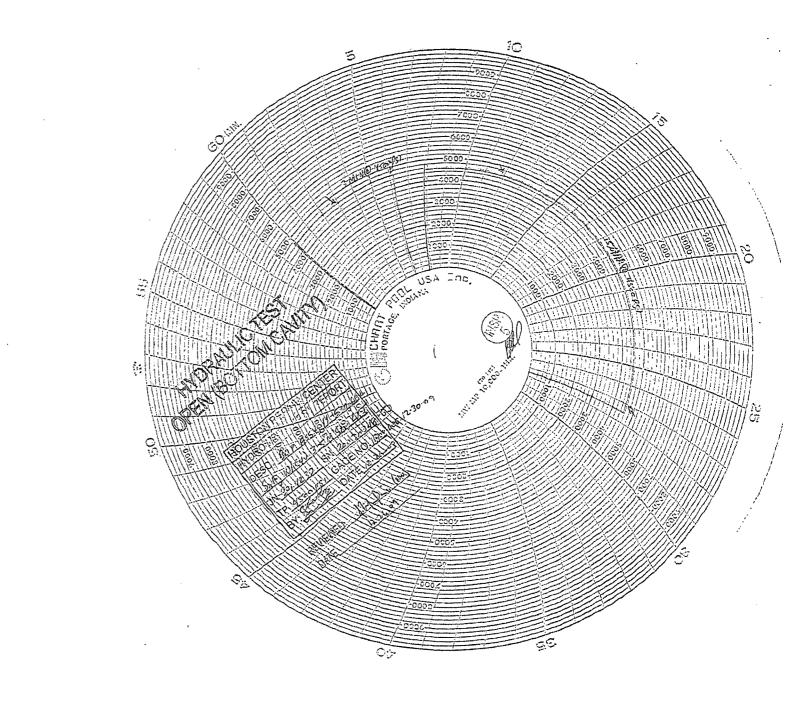
Page 1 of 2

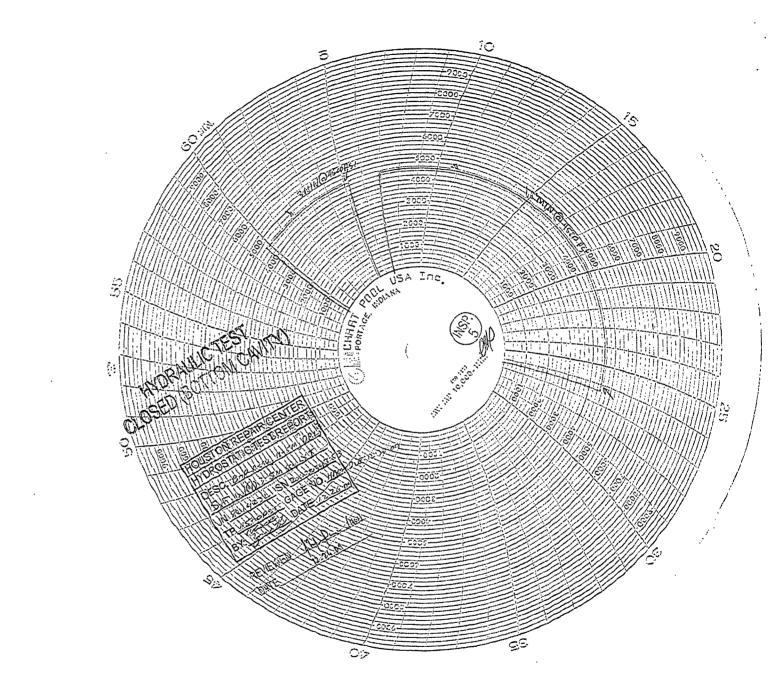


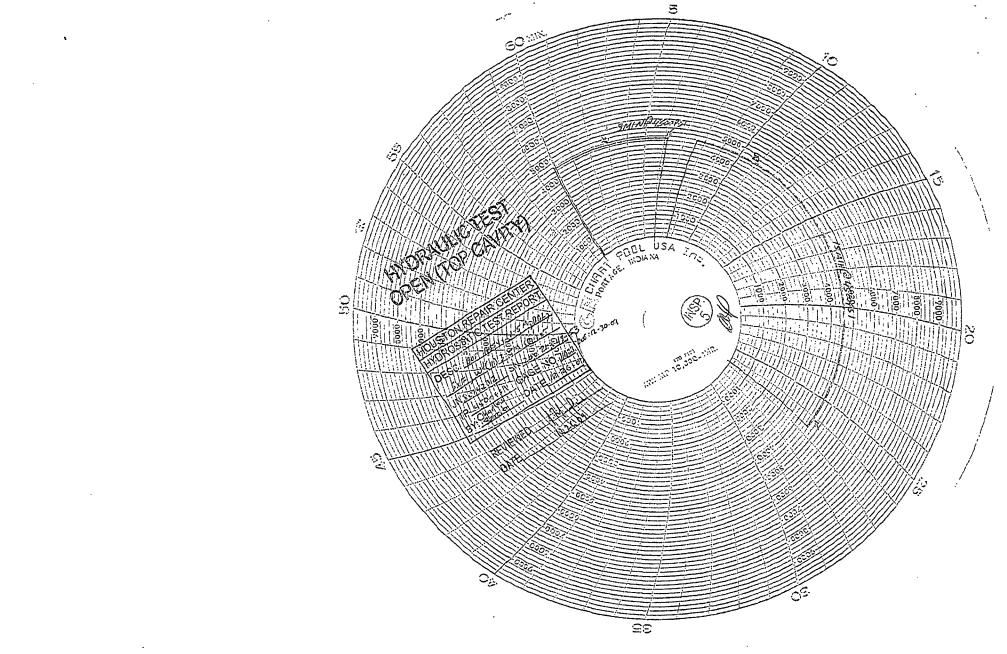


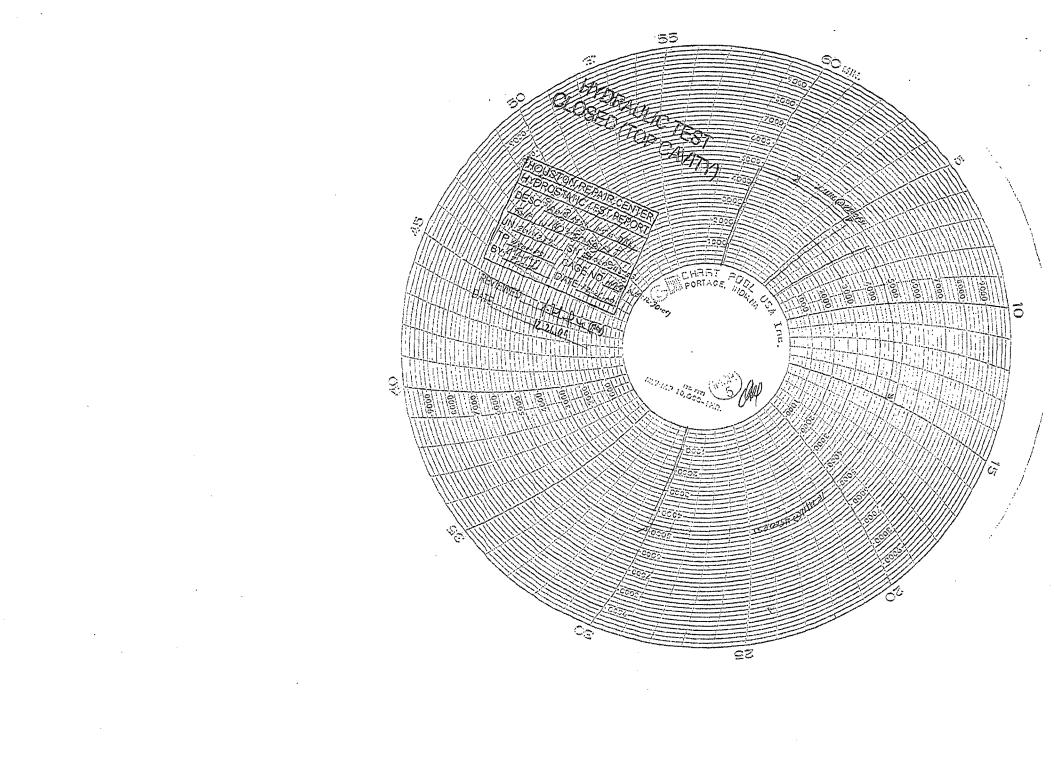


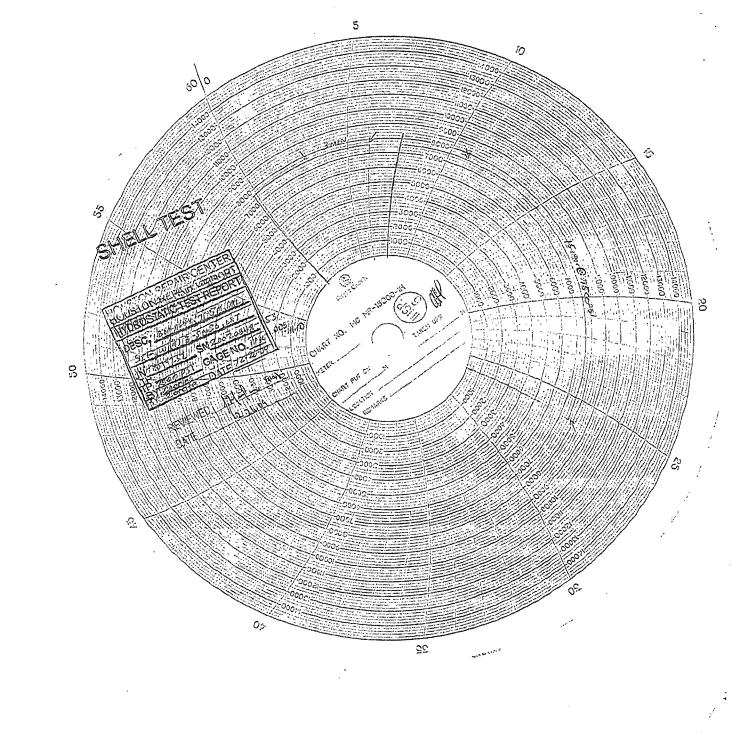












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Fluid Technology

Quality Document

INSPECTION AN	Y CONTI ID TEST		CATE		CERT. N	°.	1394	
PURCHASER:	Phoenix Be	attie Co.			P.O. N°:		002738	
CONTITECH ORDER Nº: 42	22321	HOSE TYPE:	3"	ÍD	CH	OKE AND	KILL HOSE	
HOSE SERIAL Nº:	53350	NOMINAL / AC	TUAL LI	ENGTH:		8,84	m	
W.P. 34,48 MPa 50	00 psi	т.р. 68,96	MPa	1000	) psi	Duration:	60	mi
Pressure test with water at ambient temperature See attachment. (1 page)								
$ \begin{array}{c ccccc} \uparrow & 10 \text{ mm} = & 10 \text{ Min.} \\ \hline \rightarrow & 10 \text{ mm} = & 25 \text{ MPa} \end{array} \\ \hline & & \text{COUPLINGS Type} & & \text{Serial N}^\circ & & & & & & & \\ \hline & & & & & & & & & & \\ \hline & & & &$								
INFOCHIP INSTALLED API Spec 16 C /Fire rated/ Temperature rate:"B" All metal parts are flawless WE CERTIFY THAT THE ABOVE HOSE HAS BEEN MANUFACTURED IN ACCORDANCE WITH THE TERMS OF THE ORDER								
	HOSE HAS BE			ACCORD	ANCEWIT	H THE TEP		2
	STED AS ABO We hereby o he above Purc andards, codes	VE WITH SATISI	FACTORY love items that thes s and mee	Y RESUL s/equipme se items/e et the rele	nt supplied quipment vant accep	d by us are were fabrica	in conformity with the	ne terr tested

28		Venci-
0H +24.05 PC		Centerich Rubber   Industrial Kft.   Ruslity Control Dept.
GN +25-06 40		
면이 #25·33 (40 모든 #760·1 년·6) 10		
	40 61 40	10^
RU +29-88 90 BU +794-4 841		
1341 426-05 90		
38  +25-73 90  BD  +25-73 90  BL  +711-6 80  IV		
τ <u>σ</u>		

### Q<sub>EC.M</sub>



P.O. BOX 920939 Houston, TX 77292 Office: 713.957.228 Fax: 713.957.3322

### MANUFACTURER'S CERTIFICATE OF COMPLIANCE

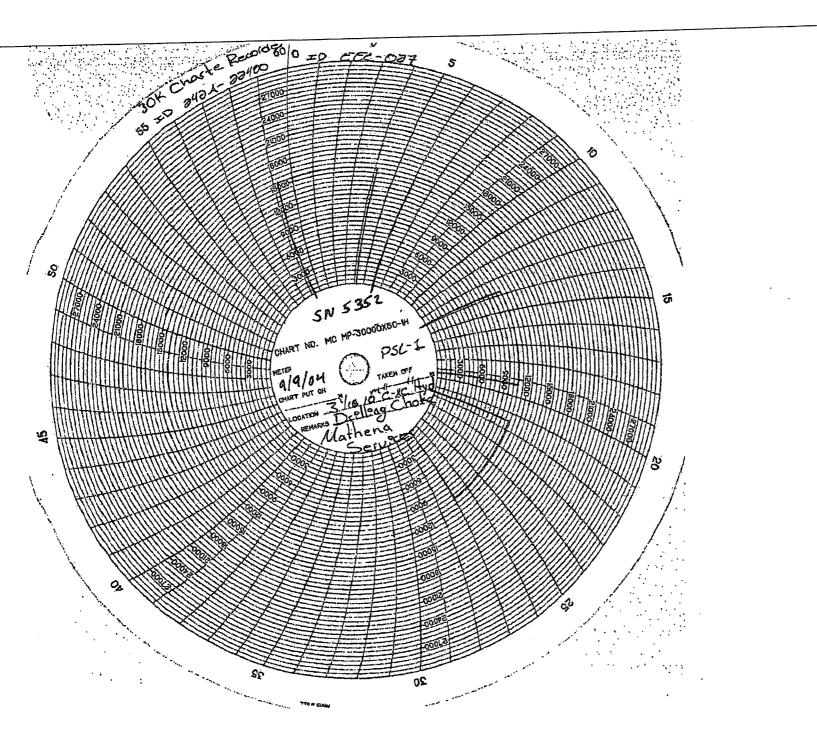
### **CUSTOMER: MATHENA SERVICES**

ITE	M PART NUMBER	DESCRIPTION		<u>OTY.</u>
1.	012-01019-28	CHOKE HYDRAULIC	DRILLING, EEC TYPE 'C-S	C' 3 1/16"-10,00

. 012-01019-28 CHOKE HYDRAULIC DRILLING, EEC TYPE 'C-SC' 3 1/16"-10,000 PSI WP, FLG X FLG (BX-154) FULL 2" MAX ORIFICE, API 6A PSL-1, MAT. CLASS 'DD', TEMP. CLASS 'U' H2S SERVICE PER NACE MR-01-75. PNEUMATIC POSITION INDICATOR INCLUDED

This is to certify that Energy Equipment Corporation has supplied the described equipment and all components in accordance with BEC standard practices, which are in compliance with the current editions of API-6A, API-16C, API-17D, ISO-9001 and NACE Standard MR0175/ISO 15156 for use in Sour Gas (H2S) Service.

Energy Equipment Corp.



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чар с силони обязателий от и сило на адорсские прояване, сал салим их има атурые Арманиеров и 307 роского и

Milisteri /Cussiomer Commercial metals company	Küşteri Sip. Na/ Your Ord 65247	ar No			Belge Norm/Docun EN 10204/3		Sayla (Pago 1 Sip. Milatan / Order (M	(g <sup>x</sup>
Kalko / Quality SAE 4130	Rost / Dimension Y/Rd 8.5 *		: Dอี่หมัก NoJ 1107		Ağırılık i Walght (Ke		Adut / Quantity	
ACG. TO CHIC GALLAS TRADEIG	ncked, a tempered round oteel b Idatatio (1004.1016) a astar a Api 6a p3l3, api 6a, nace brigt-76 b	254, 4388,	ige Bápi 14D				yan / Approved By butay SEZGIN	*
Çelîx Yapım Hêtodu / Stoetinal Pota Kîroyaşal Anatîzî / Ladie Ç <u>C Si An P</u> .33 :22 54 .013	hemical Composition (%) S Cr. No. Ni. Al. C	Lu Sn	/ L.F., Vakumd <u>V</u> }03	a Gaz Abña / V	0			
Hamul Analiz (X) / Product An C S: Mn P	alysis S Cr No Ní Al I	Cu Sn	. <b>v</b>	,				
Mexania Özelilikler i Mechanic Sertik Ak	.002 1.07 .24 sb .027 al Properties (QTC) 4"X4"X8" (Midra ma Cekme Uzama Kesit	19 .013 19 .013 dius) Daratmas d Of Area		190-7 (4-9-1) (	Nocrecius)	LE	SH	
· · · ·	9 294) PSI 94 421 88482 27	68 68	01 L 55 7 40	D2 D3 59 53 37 58	Ort/Av Sicakte/Temp 58 -75°F 38 -75°F	mm 0.78-0.82-0.7 0.58-0.50-0.5		
Tane Boydkaigu Grain Size (ASTM E-112) 7-8	Ezme Öranı Reduction Rabo İngol : 8 1/1							
	. <u>.</u>		ų =	1 1 1			,. <del>.</del>	
	."						· ·	
HARDINESS ON BARS (SURFAC HECHUNEAL PROPERTIES TAL LENGTH FO 20 cm 1 TEI	E): 229-225 MB REM FRIDM OTC SALE SPECIMENT, RND 12.5 mm				$\cap$		+	
GAGE LENGTH (H) ELONGATE QUEHCK MEDIA WAJER 1 YI QUEHCH TENPERATURES AT	HI 2 Inch I FBH SIZE MAR & mm & RE ELD (EUL 0.8%), 73556 P51 / CHARF STORTEFINISH, 100°F & 120°F / TEM 1870 F / 7.32 MCURS	Y SPECING	EN: 10X10X55	NABIANT TEM	· L	A		+

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Drilling and Production Systems Cameron Flow Control 11331 Tanner Rd. Houston, TX 77041 713-280-3000 www.c-a-m.com

# **Certificate of Conformance New Manufacture**

sDate: (MM/DD/YYYY)	11/26/2013		
Customer:	AC CENTER	Cameron Sales Order Number:	4700580953
Customer	4700580953	Cameron Internal Tracking Number:	112005709

Purchase Order

Cameron certifies that the item(s) described herewith is (are) in conformance with the requirements of the above Purchase Order Number and fully comply with applicable Cameron specifications in effect at the date of manufacture. All related documentation in support of the above statement is retained on file by Cameron for a minimum of 10 years from date of manufacture and can be made available to the purchaser upon request

ltem #	Part Number	Rev #	Description	Qty	Serial Number(s)	Heat Numbers	Line Item Notes
10	2029833-01	09	2" Nom. H2 Adjustable Choke with 2-1/16"API 5k, R-24 Inlet and Outlet Flanges.Flange Bore: Full API. Dimensions: A = 8.00" +/- 0.12" B = 6.88" +/- 0.12" Trim: 1" Nominal Needle & Seat Trim, Quick Opening Flow Characteristic ,Maximum Cv. 26.0.(Body Thread: 1.750"-10UNS-3B) Actuation: Manual T-Bar. Materials: Body, Bonnet & Bonnet Nut(Non-Wetted): Low Alloy Steel ,Grade AISI 4130. Trim: Tungsten Carbide / Stainless Steel, Grade 17-4ph. Body Bleed Valve: Ni Alloy 625. Bonnet Seal: Camlast <sup>™</sup> . API Monogram API 6A 20TH ED Ed., ISO 10423, M/C EE-0,5, T/R L-U, PSL 1,PR 2 API Nom. Size 2-1/16" x 64/64Ths.Max. Orifice. MWP @ 100F: 5,000 Psig. MWP @ 250F: 5,000 Psig.	11	112005709-01 TO -11	N/A	N/A
	onal Endorsements licable)		Endorsement Report Number/License Number (If Applicable)	ол Sco	pe of Certification		

All documents and inspection reports to support this certificate of conformance have been verified to the best of my knowledge to be true and correct

**Roxanne Gutierrez** 10/26/2013 **Cameron Quality** Date **Representative Name** Signature Stamp (MM/DD/YYYY)