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New Ke11 P 3661.6' ¹⁸ Multiple ¹⁹ Proposed Depth ¹⁸ Promotion ¹⁹ Contractor ²⁹ Synd Date ²¹ Proposed Casing and Cement Program ²¹ Proposed Casing and Cement Program ²¹ Hole Size Casing weight/foot Setting Depth Sacks of Cement Estimated TOC 12-1/4 9-5/8 36 1600 640 Sur Face 8-3/4 7 26 4600 800 Sur Face 8-3/4 7 26 4600 800 Sur face 2 ¹³ Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone Describe the blowout prevention program, if any: Use additional sheets if necessary. BOP type is blind ram-pipe ram-annular (National 0ilwell Varco) 3000 psi working pressure. 1800 psi test pressure During this procedure. 0xy plans to use a closed-loop system with steel tanks and haul contents to the required disposal facility per 0CD Rule 19.15.17 (closed loop system Schematic attached) ³¹ Intereby certify that the information given above is true and complete to the best of my knowledge and belief. OIL CONSERVATION DIVISION Signature: Mark Stephens Title: Petrolexin Elignex Privat damar:	Additional V	Vell Loca	ation									-
¹⁶ Maliple No ¹⁷ Proposed Depth 4615' TWD/4615' TND ¹⁹ Formation San Andres ¹⁹ Contractor H&P 236 ²⁰ Spud Date January. 2014 ²¹ Proposed Casing and Cement Program			12	Well Type Cod	A			¹⁴ Leas				1
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8" Flex Hose 20 ft long

H&P Flex 4 Closed Loop Schematic

APD DATA – DRILLING PLAN

OPERATOR NAME / NUMBER: OXY USA WTP LP

LEASE NAME / NUMBER: North Hobbs G/SA Unit #947

STATE: NM COUNTY: Lea

SURFACE LOCATION: 278' FNL & 1123' FEL, Sec 19, T18S, R38E

SL:	Lat:	32.7393424'N	LONG:	103.1824535'W
	X:	853884.2	Y :	634606.0

New Mexico East NAD1927

-1

C-102 PLAT APPROX GR ELEV: 3661.6'

EST KB ELEV: 3678.1' (16.5' KB)

1. GEOLOGIC NAME OF SURFACE FORMATION

a. Permian

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

Formation	TV Depth Top*	Expected Fluids
Base Red Beds	234	Fresh Water
Rustler	1563	Formation Fluid
Top of Salt	1641	Formation Fluid
Base of Salt	2706	Formation Fluid
Queen	3498	Formation Fluid
Grayburg	3863	Formation Fluid
Basal Grayburg	4013	Formation Fluid
San Andres	4143	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 \pm 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	

4. CEMENT PROGRAM:

Surface Interval

j.

Interval	Amount sks	Ft of Fill	Туре	Gal/Sk	PPG	Ft ³ /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
Tail: 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 ³ /sk	24 Hr Comp
Production (T	OC: 0' - 460)))					
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

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	asing Wellhead Flange		BC	BOP Stack			Pressure Test (psi)				
Size	Size	Pressure	m (1)	Size	Pressure	Initial		Subsequent			
(in.)	(in.)	(psi)	Type ⁽¹⁾	(in.)	(psi)	Rams	Ann	Rams	Ann		
9 5/8"	11"	3000	R, R, A, G	11"	5000	250/ 1800	250/ 1800	250/1800	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

H&P 346 BOP Diagram

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Surface Systems

Cameron Romania S.A. 1, B.P. Hasdeu St. 105600, Campina Prahova, Romania Tel: +40.244.306600 Fax: +40.244.336553 www.c-a-m.com



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

Reg. Com. J 29/385/1991, C.U.I. 1323964, atribut fiscal R, capital social subscris si varsat 60.483.470 RON IBAN: ROD3 RNCB 3910 0000 0015 0001 - B.C.R. Campina



Drilling and Production Systems

Cameron France, S.A.S. Siège Social et Usine Plaine Saint-Pierre – CS 620 34535 Béziers Cédex - France Tei. # 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.

ltem #	Part Number	Rev #		Description		Qty	Serial Number(s)	Line Item Notes	
	141511-31-94-02		1/16 BORE, 5, 2-1/16 API FL EDITION, TEMP	SEMBLY, MANUAL, MODEL FLS, 2 000 PSI, ANGE X FLANGE, API 6A 20TH PERATURE CLASS CLASS DD-NL, PSL-2, PR-2	-	23	112401686-1 to 23		
Additio	nal Endorsements	}		Endorsement Report /License Number	r I		Notes on Scope of Certification		
(if appl				(If Applicable)			-		
API 6A	,20th ed.			Monogram:License n° 6A-0418.9					
NACE	MR0175 latest ec	lition							
hannesseemen	an an an a share an	enga mani s		ann an					
l		e olan shekara							
harmani									
L							1		

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





2 May M2

Jean-Luc LLORCA Cameron Quality Representative Name

Signature

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

JLL

Surface Systems

Cameron Romania S.A. 1, 8.P. Hasdeu St. 105600, Campina Prahowa, Romania Tel: +40.244.306600 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

ALE A

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. API License Number 6A-0327. (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.

 $\mathcal{C}_{\mathcal{L}\mathcal{Q}}$

Signature

e

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. 1323954, atribut fiscal R, capitel social subscris si varsat 69.483.470 RON IBAN: ROD3 RNCB 3910 0000 0015 0091 - B.C.R. Campina



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- GERTIFICATE OF CONFORMITY

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	KC WHSE	
CUSTOMER ORDER :	4700401750		
ITEM :	020	BEZIERS ORDER :	1290301
DESIGNATION :	12 Gate Valve 3.1/8" AP	I 5000 W/ACTUATOR	
SERIAL N° :	111408245-1 to 12		
PART NUMBER :	163936-31-06-03	REV.:	02

C. Béziers, on 30 106/2009

Conneron France, S.A.S. Plane Saint-Pierre CS 620 34535 SECIENS OEDEX TO 04 87 11 15 (0 - Pax 04 67 11 15 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 Numbar:	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.

item #	Part Number 141513-41-94-03	Rev	Descriptik Gate Valve Assembly, M		Qty 1	Serial Number(a) 11033396-03	Heat Number	Line Item Notes
	141010-41-04-00		3-1/16 BORE, 10,000 PSI, 3-1 API FLANGE X FLANGE, API EDITION, TEMPERATURE CI MATERIAL CLASS DD-NL, PC	/16 6A 20TH _ASS P+U,				
Addition (if applic	al Endorsements able)		Endorsement Report NumberfLicense 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

Etwards Racing

Cameron Quality Representative Name

Signature

Stamp

07/31/2013 Date Signed (MM/DD/YYYY)

10.



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: A April An CAM-DRILLING SYS - OKC WHSE

4700581611

Cameron Sales Order Number:

1898153

Customer PO Number:

Cameron Internal Tracking 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.

010	162501-31-94-03	05	ASSEMBLY CHEC 2-1/16° API 5 ISO 10423 AND	K VALVE TYPE "MS" 1000 PSI WP DOUBLE FLANG 1 API 6A 20TH EDITION PS 11 CLASS: DD-NL-EE-NL.	E R24,	112008385-1 to 5	
API 6/	A,20th ed. MR0175 -2000			Morrogram:License n° 6A-041			

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

Signature



4 April M

Cameron Quality Representative Name

Jean-Luc LLORCA

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

Certificate of Conformance

S/N: 20026897-46 SBOP ASSY, 11-3M, SXF (5M), T-20, SST, XYLAN COATED

DOCUMENT PART NUMBER	DOCUMENT NUMBER	:OC-001	Lana	REV
824272 SALES ORDER LINE ITEM NUMBER 0008 CLIENT DOCUMENT NUMBER 34-35-001 SERIAL NUMBER 20026897-46	This document contains proprietary which belongs to Varco, LP; it is toar and remains the property of Varco, L part; or use of this design or distribut is not permitted without the express. This document is to be returned to V any event upon completion of the us & Varco, LP	hed for limited purposes only P. Reproduction, in whole or in tion of this information to others written consent of Varco, LP. farco, LP upon request and in	Varco, LP 12950 W. Little York Houston, TX 77041 Phone 713-937-5000 Fax 713-849-6147	تىر تەر
RIG TBD SALES ORDER NUMBER	REFERENCE S/N: 20026897-46	REFERENCE DESCRIPTI SBOP ASSY, 1 XYLAN COATE	I-3M, SXF (5M), T-2	20, SST,



www.nov.com

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NOV CERTIFICATE OF CONFORMANCE

2.

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:

- 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 H₂S service.

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

9

MATIONAL OILWELL VARCO **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:

SALES ORDER NUMBER:	8014232
CUSTOMER:	HELMERICH & PAYNE
PURCHASE ORDER:	R-324-352-01
PART NUMBER:	20020348RC
DESCRIPTION:	BOP ASSY, 11-5M, DBL, LXT, SxF, w/(4) 3-5M FO, SST, RECON (ASSET # 55-2572)
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.

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RIG SOLUTIONS GROUP

Low Pressure: (N/-i) PSI	Hij	High Pressure: (N//1) PSI										
Gauge Number: (N/A)	E	xpiration Date: (N/A)										
1 st low Start Time: (N//1)	Stop: (N/A)	1^{st} low Start Time: (<i>N/A</i>)	Stop: (N/.4)									
2 nd high Start Time: (N/1)	Stop: (N/4)	2 nd high Start Time: (N/4)	Stop: (AVA)									
3rd high Start Time: (N/3)	Stop: (N/A)	3rd high Start Time: (N/A)	Stop: (N/A)									

DRIFT TEST: Gauge Number: COT 45-6

Drifted By: CHARLIE ZARATE

QA Witnessed By: Jum MITTUE Rule

Assembled By: CHARLIE ZARATE & JOSE PINEDA

QA Final Approval:

Date: 12.26.09

Expiration Date: 08.07.11

Date:

Date: 02-04-10

12-26-09

NOTEANY NOT APPLICABLE IS PER TEST PROCEDURE

Ø NATIONM,	Houston Rep	air Center	SPECIFICATION:	FRM-	-075	rev. E
OILMELL. VENECO			OA APPRO	VALBY: G.	. Hunter I	12 Aug 2009
Rig Solutions Group			APPRO	VAL BY: H.	f, Parker I	12 Aug 2009
BLOW	OUT PREVENT	TER TEST CER	TIFICATE – I	16A		
Customer H&P DRILLING		Location: HOUST	ON REPAIR CE	ENTER		
Work Order #: 8014232		Date: 12.26.09				
Part #: 20021308		Serial Number: 200	020348-53			
Description: BOP ASSY, 11-5M, DB	L, SxF, W (4) 3"-51	M SO, LXT (S/N: 2	0020348-53			
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	LOW	ER CAVITY			
Test Pressure: 4,500 PSI						
Gauge Number: HP108 (UPPER CAVITY)		Expiration Date: 1	2.30.09			
1 st Close Start Time: 0717AM	Stop: 0723AM	1 st Open S	Start Time: 0756	AM	Stop: 0808174	٩M
2 nd Close Start Time: 0723AM	Stop: 0747AM	2 nd Open	Start Time: 0813	7AM	Stop: 0838 A	М
Test Pressure: 4,500 PSI						
Gauge Number: HP108 (LOWER (AVITY)		Expiration Date: 1	2.30.09			
1 st Close Start Time: 0855AM	Stop: 0901AM	1 st Open S	Start Time: 0922	2AM	Stop: 0928AM	1
2 nd Close Start Time: 0901AM	Stop: 0919AM	2 nd Open	Start Time: 0930)AM	Stop: 0947AM	1
CLOSED PREVENTER TEST (ran	n <u>or mandrel test)</u>	<u>:</u>				
Low Pressure: 200-300 PSI		High Pressure: 5,00				
(low) (hi) Gauge Number: HP99 / HP1		(A) Expiration Date: 02	law) (hig 2.05.10 / 12.30.			
(<u>UPPER CAVITY</u>) 1 st low Start Time: 1245PM	Stop: 1257PM	(LOWER CAVIT			Stop: 0202PM	1
2 nd high Start Time: 0100 PM	Stop: 0110PM	2 nd high S	tart Time: 0202	PM	Stop: 0214PM	1
3rd high Start Time; 0110PM	Stop: 0125PM	3rd high S	Start Time: 0215	PM	Stop: 0226PM	1

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Fluid Technology Quality Document

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HOSE	SERIAL Nº:	53:	350	NOM	INAL / AC	TUAL L	ENGTH:	•	8,84	m	
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		MPa e		Serial	I Nº			Quality		Heat N°	
	10 mm = 25 COUPLINGS Typ 3" coupling with		174		I № 1748		AI	Quality SI 4130		Heat Nº.	B
	COUPLINGS Typ	9	174		-,			,,,		Heat N <u>°</u> . T37676; 11131	3
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P.O. BOX 920939 Houston, TX 77292 Office: 713.957.228 Fax: 713.957.3322

MANUFACTURER'S CERTIFICATE OF COMPLIANCE

CUSTOMER: MATHENA SERVICES

WINDOWS & #	STA & STATES 24 7 1 4 4 7 5 17 17 18	275 275 CT CTWS WWW.075 7 CS 76 7	AT 7878 7
			OTY.
R R S 114 R	PART NUMBER	DESCRIPTION	

1.012-01019-28CHOKE 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 EEC 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.



M2216 RS **(OUALITY CERTIFICAT** SANAYI VE TICARET A.S. http://www.esticelit.com.tr . . TIN Abalaland Dékliman No / Document Number Torib / Date Sayla /Paga 1105900 14.04.2011 1 Müşteri Sip. No./ Your Order No. - Sip.No.J Our Order No. Mistori Rusianes Belga Kom/Document Kom Sip. Miktan / Ordar (Ka) COMMERCIAL METALS COMPANY 65247 1111011021 EN 10204/3.1 Rest / Dimension Döküm NoJ Heat No. Algerick / Wolght (Kg) Adet / Quantity Kathe / Gustay Y/Rd 8.5 * 110718 SAE 4130 Malzenne / Product hot rolled formalised, quenched & tempered round steel bars Acc to cro callas traders to strong to store the strong and a structure, assa, assa, Auto, auto, and, arsh-harsa, api sa psij, api sa, nace krutto to api tea & tec & api ted **Onaylayan / Approved By** Subutay SEZGIN Cella Yapan Belodu / Shelimahing Process : ____Ark Oragi / EAF, Pota Firm / LF, Vakumda Gaz Abia / VD Pote Kinyasal Anallal / Ladia Chemical Composition (%)
 C
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 .015
 .033
 Mamul Analiz (%) / Product Analysis ν Cr Ma NI AL C SE Ma P S £a Śø 55 013 002 1.07 24 .10 ,027 .15 .013 .003 32 22 22 .55 .013 .002 1.07 24 10 :027 .19 .003 .53 .013 Mekanik Öreilikler i Mechanical Properties (QTC) 4"X4"X8" (Midradius) Akma Cetme Uzama Kesi Daramas Serek Cemil SO-Y (P. Bu Harrows) Yield Tansite Red Of Area SH Haraness Elongata linge ٤£ Onlaw Sycald Tenn PSH0 2%) PSI 01 82 0.1 4 <u>n</u> 217 HBI SRF 217 HBI SRF .75% 75421 \$8482 27 6.4 L 55 50 37 0 75-0 82-0 76 ALALAA 53 58 56 38 40 -75°F Ť 0.58-0.50-0.50 \$0.30.30 Tane Buyüklüğü Earre Oran (ASTM E-112) Reduction Rabo 7_8 Ingol . B 1/1 NARDNESD OH BARS (SURFACE) 220,225 88 NECHANICAL PROPERTIES TAKEN FROM OTC LENGTH OF GTC - 20 on 7 TEKSLE SPECISEN . RND 12.5 mm CAGE LENGTH ISI ELONGATION 2 mm I FEH SIZE MAILA MM & RESULTS WERE OK CAGE LENGTH (BE CONGATORY 2) AG 1 FBH SUE MAU & MMA RESULTS WERE OK QUENCH MEDIA WATER 4 YELD (EUL CBN), 7555 PS1 / CHARPY SPECAMEN, 10X10X55 mp7 OUENON-THMPENAVINES AT STADTURENCH, 100 YEA TRO F / TEMP. OF TENSILE SPECAMEN WARDAWT TEMP HORMAL CRG TEMP. / THE TRO Y / TAB HORMS LUSTENTURING TEMP / THE TRO Y / TAB HORMS 100 % MOLTAN CTABLE TRO YEA TRO K TESTED 107 % UTAKSONET LESTED AC TO A STADASS AND THE RESULTS WERE OK METHOD OF MORATORING TEMPERATURE FURNACE THE THERMOLOGIFLE FURNACE CHIPMANIA THE RECT THE TRO YEAR AND THE RESULTS WERE OK METHOD OF MORATORING TEMPERATURE FURNACE THE THERMACOURLE FURNACE CHIPMANIA THE FROM THE TRO YEAR AND THE RESULTS WERE OK METHOD OF MORATORING TEMPERATURE FURNACE THE THERMAX 20 GAUSS THIS MATERIAL IS FREE FROM RADIOAC TWITY NO WELD REPAR PERFORMED. STEEL AS FREE FROM MERCURAL OF COUNTRY OF ORIGIN TURKEY MEDIAL DEFISIONET THE PERFORMENT OF MOLTANE MERCURAL OF COUNTRY OF ORIGIN TURKEY TYASSIR 14-88 MARCA BE ANTERIMIZENDERM TESTEDLOGI VE SPART SANTLANDA UVRLA OLOUGU ONAN AMP. HEREBY CERTIFY, WATERIAL DESCRIPTED ASONE WAS BEEN VESTED AND COMPLETE WITH THE TERMS OF DROLFI CONTRACT. C Sates 1 Domestic Sales Dis Sate / Exopri Saritial / Central Signatina / Punchasing . je +90 224 280 62 10. +90 224 260 62 19 ' Id. :+90 224 280.61 00 falo;+90 224 280 62 00 +90 224 280 63 00 +98 224 280 61 20 +90 224 280 63 09 :* +90 224 280 51 30 Ynni Danest Büyük Müheleter Verpi Danesi Başkanlığı Verdi No Fabrica /Nead Office & Plant Gener, Köye Marko 16000 Offician Filles A Ticatel Sicit 125642 / 72672.



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:	11/26/2013		
(MM/DD/YYYY) 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
	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: Carnlast™. 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)	on 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 Cameron Quality Representative Name PC-CC-Signature Stamp

10/26/2013 Date (MM/DD/YYYY)