Mewbourne Oil Company, Bilbrey 34/27 B2MD Fed Com #1H Sec 34, T21S, R32E SL: 270' FNL & 405' FWL, Sec 34 BHL: 330' FNL & 500' FWL, Sec 27

Casing Program

Hole	Casing	Interval	Csg.	Weight	Grade	Conn.	SF	SF	SF Jt	SF Body
Size	From	To	Size	(lbs)			Collapse	Burst	Tension	Tension
17.5"	0'	835'	13.375"	48	H40	STC	1.77	3.98	8.03	13.50
12.25"	0'	3453'	9.625"	36	J55	LTC	1.13	1.96	2.56	4.54
12.25"	3453'	4393'	9.625"	40	J55	LTC	1.13	1.73	9.83	16.75
12.25"	4393'	4775'	9.625"	40	N80	LTC	1.24	2.32	48.25	59.97
8.75"	0'	11053'	7"	26	HCP110	LTC	1.46	1.86	2.41	2.89
6.125"	10300'	20550'	4.5"	13.5	P110	LTC	1.31	1.52	2.44	3.05
				BL	M Minimu	m Safety	1.125	1	1.6 Dry	1.6 Dry
						Factor			1.8 Wet	1.8 Wet

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h Must have table for contingency casing

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	Y
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	Y
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	Y
If yes, are there two strings cemented to surface?	Y
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

213234p APD17-121 Bilbrey 34 27 B2MD Com 1H 30015 NMNM 85933 Mewbourne 12-54

R111P KFC

133/8	surface	csg in a	17 1/2	inch hole.		Design I	actors	SUR	FACE
Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	Weight
"A"	48.00	Н	40	ST&C	7.41	1.86	0.7	905	43,440
"B"								0	0
w/8.4#/g	mud, 30min Sf	c Csg Test psig	: 816	Tail Cmt	does not	circ to sfc.	Totals:	905	43,440
comparison o	f Proposed t	o Minimum	Required Cer	nent Volumes					
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd	Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE	Hole-Cplg
17 1/2	0.6946	844	1633	683	139	8.80	1430	2M	1.56

ŗ	95/8	casing in	side the	13 3/8			Design	Factors	INTER	MEDIATE
1	Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	Weight
1	"A"	36.00	J	55	LT&C	2.56	1.13	0.66	3,453	124,308
1	"B"	40.00	J	55	LT&C	9.83	1.13	0.74	940	37,600
	"C"	40.00	N	80	LT&C	48.23	1.25	1.08	382	15,280
1	"D"								0	0
ł	w/8.4#/g	g mud, 30min Sf	c Csg Test psig					Totals:	4,775	177,188
î	The	cement volu	ime(s) are in	tended to ac	nieve a top of	0	ft from su	irface or a	905	overlap.
į.	Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd	Min Dist
	Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE	Hole-Cplg
!	12 1/4	0.3132	995	1953	1572	24	10.00	2948	3M	0.81

Burst Frac Gradient(s) for Segment(s): A, B, C, D = 1.02, 0.9, c, d All

ŗ	7	casing ins	ide the	9 5/8		a and a sold of the	Design Fa	actors	PROD	UCTION
S	egment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	Weight
i	"A"	26.00	P	110	LT&C	2.47	1.22	1.87	10,300	267,787
	"B"	26.00	P	110	LT&C	4.62	1.59	1.87	754	19,591
Ę.	w/8.4#	/g mud, 30min Sfc	Csg Test psig:	2,266				Totals:	11,053	287,378
1	В	would be:				55.82	1.17	if it were a	vertical we	ellbore.
1	No D	ilot Hole Plan	nod	MTD	Max VTD	Csg VD	Curve KOP	Dogleg ^o	Severity	MEOC
1	NO P	not hole Flan	neu	11053	10777	10777	10300	90	12	11053
5	Th	e cement volur	ne(s) are inf	ended to ach	nieve a top of	4275	ft from s	urface or a	500	overlap.
1	Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd	Min Dist
1	Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE	Hole-Cplg
í	8 3/4	0.1503	785	1288	1035	24	9.50	2948	3M	0.55

Must be 1/3 to cover collapse on B

"A" 13.50 P 110 LT&C 1.87 1.78 2.33 753 1 "B" 13.50 P 110 LT&C 2.50 2.01 2.33 9,497 12 w/8.4#/g mud, 30min Sfc Csg Test psig: 2,371 Totals: 10,250 12 A Segment Design Factors would be: 2.44 2.01 if it were a vertical wellbore. No Pilot Hole Planned MTD Max VTD Csg VD Curve KOP Dogleg° Severity° The cement volume(s) are intended to achieve a top of 10300 ft from surface or a 753 over Hole Annular 1 Stage Min 1 Stage Drilling Calc Req'd N Size Volume Cmt Sx CuFt Cmt Cu Ft % Excess Mud Wt MASP BOPE Ho	41/2	Liner w	/top @	10300		-	Design	Factors	LI	NER
"B" 13.50 P 110 LT&C 2.50 2.01 2.33 9,497 12 w/8.4#/g mud, 30min Sfc Csg Test psig: 2,371 Totals: 10,250 13 A Segment Design Factors would be: 2.44 2.01 if it were a vertical wellbore. No Pilot Hole Planned MTD Max VTD Csg VD Curve KOP Doglego Severityo The cement volume(s) are intended to achieve a top of 10300 ft from surface or a 753 over Hole Annular 1 Stage Min 1 Stage Drilling Calc Req'd N Size Volume Cmt Sx CuFt Cmt Cu Ft % Excess Mud Wt MASP BOPE Ho 6 1/8 0.0942 415 1233 977 26 9.50 9.50	Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	Weight
w/8.4#/g mud, 30min Sfc Csg Test psig: 2,371 Totals: 10,250 12 A Segment Design Factors would be: 2.44 2.01 if it were a vertical wellbore. No Pilot Hole Planned MTD Max VTD Csg VD Curve KOP Dogleg ^o Severity ^o The cement volume(s) are intended to achieve a top of 10300 ft from surface or a 753 over Hole Annular 1 Stage Min 1 Stage Drilling Calc Req'd N Size Volume Cmt Sx CuFt Cmt Cu Ft % Excess Mud Wt MASP BOPE Ho 6 1/8 0.0942 415 1233 977 26 9.50 9.50	"A"	13.50	P	110	LT&C	1.87	1.78	2.33	753	10,166
A Segment Design Factors would be:2.442.01if it were a vertical wellbore.No Pilot Hole PlannedMTDMax VTDCsg VDCurve KOPDogleg°Severity°205501077710777103009012The cement volume(s) are intended to achieve a top of10300ft from surface or a753oveHoleAnnular1 Stage1 StageMin1 StageDrillingCalcReq'dNSizeVolumeCmt SxCuFt CmtCu Ft% ExcessMud WtMASPBOPEHo6 1/80.09424151233977269.509.50100100100	"B"	13.50	P	110	LT&C	2.50	2.01	2.33	9,497	128,210
No Pilot Hole PlannedMTDMax VTDCsg VDCurve KOPDoglegoSeverityo205501077710777103009012The cement volume(s) are intended to achieve a top of Hole10300ft from surface or a From surface or a753overKoreK	w/8.4#/	g mud, 30min Sf	c Csg Test psig	: 2,371				Totals:	10,250	138,375
No Pilot Hole Planned205501077710777103009012The cement volume(s) are intended to achieve a top of10300ft from surface or a753oveHoleAnnular1 Stage1 StageMin1 StageDrillingCalcReq'dNSizeVolumeCmt SxCuFt CmtCu Ft% ExcessMud WtMASPBOPEHo6 1/80.09424151233977269.509.50	A	Segment De	sign Factor	rs would be		2.44	2.01	if it were a ve	ertical wellb	ore.
205501077710777103009012The cement volume(s) are intended to achieve a top of10300ft from surface or a753oveHoleAnnular1 Stage1 StageMin1 StageDrillingCalcReq'dNSizeVolumeCmt SxCuFt CmtCu Ft% ExcessMud WtMASPBOPEHo6 1/80.09424151233977269.509.50	No Di		anad	MTD	Max VTD	Csg VD	Curve KOP	Dogleg ^o	Severity	MEOC
HoleAnnular1 Stage1 StageMin1 StageDrillingCalcReq'dNSizeVolumeCmt SxCuFt CmtCu Ft% ExcessMud WtMASPBOPEHo6 1/80.09424151233977269.509.50	NO FI	IOT HOLE FIAI	lineu	20550	10777	10777	10300	90	12	11053
Size Volume Cmt Sx CuFt Cmt Cu Ft % Excess Mud Wt MASP BOPE Ho 6 1/8 0.0942 415 1233 977 26 9.50 9.50	The	e cement volu	me(s) are in	tended to act	nieve a top of	10300	ft from s	urface or a	753	overlap.
6 1/8 0.0942 415 1233 977 26 9.50	Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd	Min Dist
6 1/8 0.0942 415 1233 977 26 9.50	Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE	Hole-Cplg
Capitan Reef est top XXXX.	6 1/8	0.0942	415	1233	977	26	9.50			0.56
				Capitan Reef	est top XXXX.					

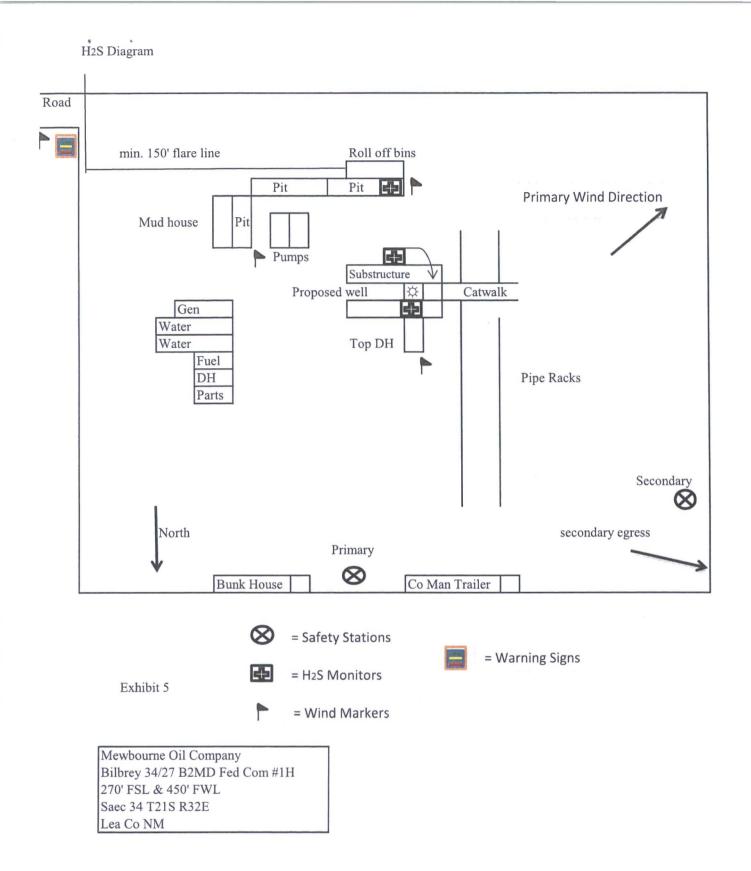
Carlsbad Field Office



	SF	SF	SF Jt	SF Body
Casing	Collapse	Burst	Tension	Tension
36# J-55	1.13	1.96	2.56	4.54
40# J-55	1.13	1.73	9.83	16.75
40# N-80	1.24	2.32	48.25	59.97

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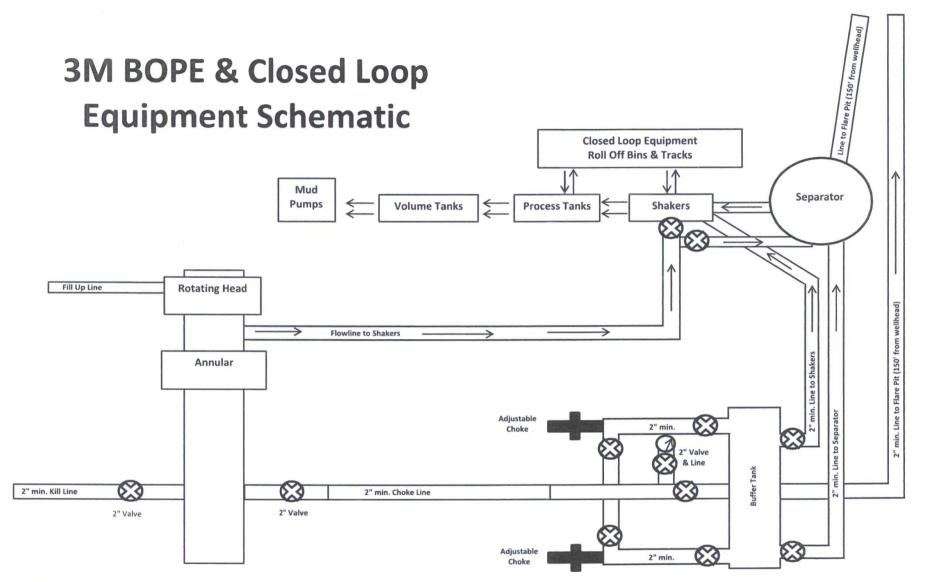
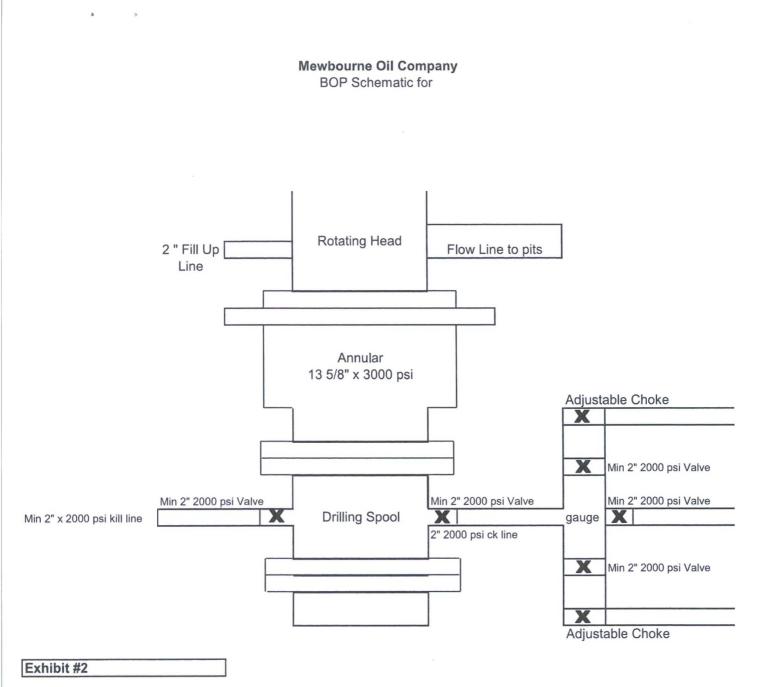
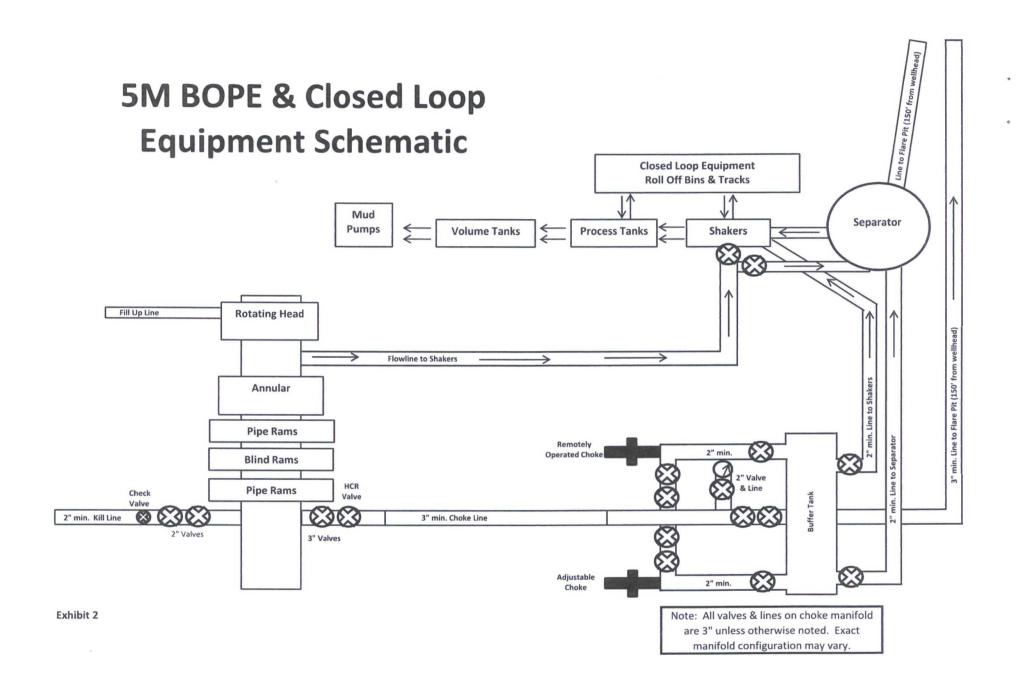
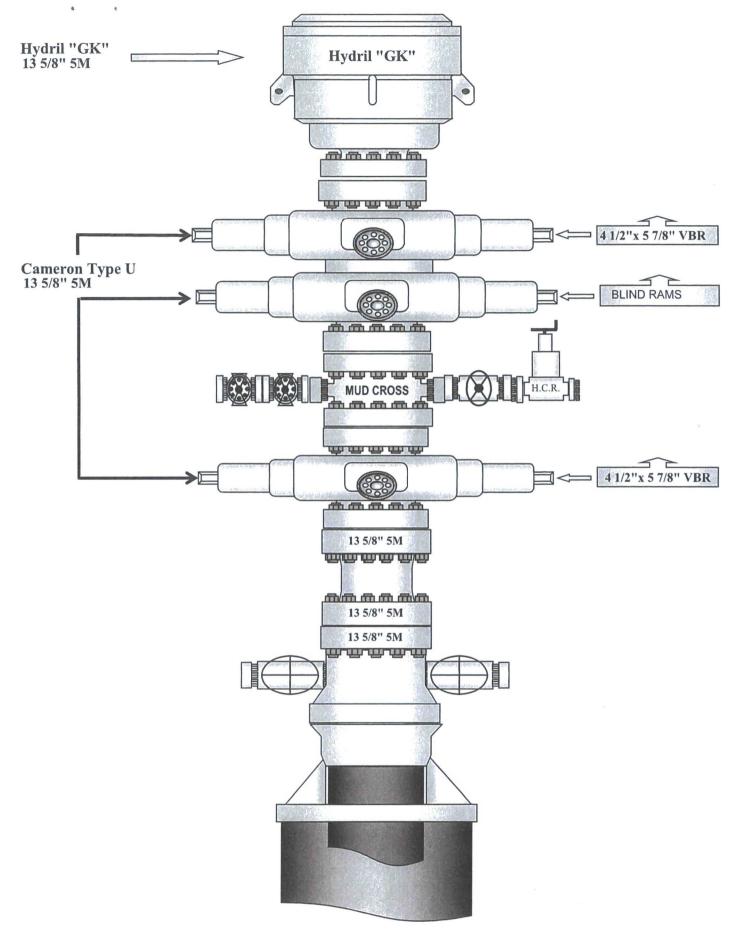


Exhibit "2"







		ENGINEERING & SERVICES		
TES E & S NOR	1	RICA, INC.		PHONE: 361-887-9807
4 44TH STREE	1	70405		FAX: 361-887-0812
RPUS CHRIST	L, IEXAS	78403		EMAIL: <i>Tim.Cantu@gates.com</i> WEB: www.gates.com
10K C	CEMEN	ITING ASSEMBLY	PRESSURE T	EST CERTIFICATE
		AUSTIN DISTRIBUTING	Test Date:	4/30/2015
Customer : Customer Ref. :		4060578	Hose Serial No.:	D-043015-7
nvoice No. :		500506	Created By:	JUSTIN CROPPER
				1
Product Description:		1(0K3.548.0CK4.1/1610KFLG	E/E LE
End Fitting 1 :		4 1/16 10K FLG	End Fitting 2 :	4 1/16 10K FLG
Sates Part No. : Norking Pressure :		4773-6290 10,000 PSI	Assembly Code : Test Pressure :	L36554102914D-043015-7 15,000 PSI
		America, Inc. certifies t	hat the following h	ose assembly has been tested to ents and passed the 15 minute
the Gates Oi hydrostatic tes	ilfield Ro st per AP ii in acco	America, Inc. certifies to ughneck Agreement/Spe I Spec 7K/Q1, Fifth Edito rdance with this product	hat the following h ecification requirem ion, June 2010, Te t number. Hose bur	ose assembly has been tested to ents and passed the 15 minute st pressure 9.6.7 and per Table 9 st pressure 9.6.7.2 exceeds the
the Gates Oi hydrostatic tes	ilfield Ro st per AP ii in acco	America, Inc. certifies to ughneck Agreement/Spe PI Spec 7K/Q1, Fifth Edit	hat the following h ecification requirem ion, June 2010, Te t number. Hose bur	ose assembly has been tested to ents and passed the 15 minute st pressure 9.6.7 and per Table 9 st pressure 9.6.7.2 exceeds the
the Gates Oi hydrostatic tes to 15,000 ps	ilfield Ro st per AP ii in acco	America, Inc. certifies to ughneck Agreement/Spe PI Spec 7K/Q1, Fifth Editor rdance with this product ninimum of 2.5 times the	hat the following h ecification requirem ion, June 2010, Te t number. Hose bur e working pressure	ose assembly has been tested to ents and passed the 15 minute st pressure 9.6.7 and per Table 9 st pressure 9.6.7.2 exceeds the per Table 9.
the Gates Oi hydrostatic tes to 15,000 ps Quality Manager :	ilfield Ro st per AP ii in acco	America, Inc. certifies to ughneck Agreement/Spe PI Spec 7K/Q1, Fifth Editor rdance with this product hinimum of 2.5 times the QUALITY	hat the following h ecification requirem ion, June 2010, Tes t number. Hose bur working pressure Produciton:	ose assembly has been tested to ents and passed the 15 minute st pressure 9.6.7 and per Table 9 st pressure 9.6.7.2 exceeds the per Table 9.
the Gates Oi hydrostatic tes to 15,000 ps Quality Manager : Date :	ilfield Ro st per AP ii in acco	America, Inc. certifies to ughneck Agreement/Spe PI Spec 7K/Q1, Fifth Editor rdance with this product ninimum of 2.5 times the	hat the following h ecification requirem ion, June 2010, Tes t number. Hose bur working pressure Producton: Date :	ose assembly has been tested to ents and passed the 15 minute st pressure 9.6.7 and per Table 9 st pressure 9.6.7.2 exceeds the per Table 9.
the Gates Oi hydrostatic tes to 15,000 ps Quality Manager :	ilfield Ro st per AP ii in acco	America, Inc. certifies to ughneck Agreement/Spe PI Spec 7K/Q1, Fifth Editor rdance with this product hinimum of 2.5 times the QUALITY	hat the following h ecification requirem ion, June 2010, Tes t number. Hose bur working pressure Produciton:	ose assembly has been tested to ents and passed the 15 minute st pressure 9.6.7 and per Table 9 st pressure 9.6.7.2 exceeds the per Table 9. PRODUCTION 4/30/2015
the Gates Oi hydrostatic tes to 15,000 ps Quality Manager : Date :	ilfield Ro st per AP ii in acco	America, Inc. certifies to ughneck Agreement/Spe PI Spec 7K/Q1, Fifth Editor rdance with this product hinimum of 2.5 times the QUALITY	hat the following h ecification requirem ion, June 2010, Tes t number. Hose bur working pressure Producton: Date :	ose assembly has been tested to ents and passed the 15 minute st pressure 9.6.7 and per Table 9 st pressure 9.6.7.2 exceeds the per Table 9.
the Gates Oi hydrostatic tes to 15,000 ps Quality Manager : Date :	ilfield Ro st per AP ii in acco	America, Inc. certifies to ughneck Agreement/Spe PI Spec 7K/Q1, Fifth Editor rdance with this product hinimum of 2.5 times the QUALITY	hat the following h ecification requirem ion, June 2010, Tes t number. Hose bur working pressure Producton: Date :	ose assembly has been tested to ents and passed the 15 minute st pressure 9.6.7 and per Table 9 st pressure 9.6.7.2 exceeds the per Table 9. PRODUCTION 4/30/2015
the Gates Oi hydrostatic tes to 15,000 ps Quality Manager : Date :	ilfield Ro st per AP ii in acco	America, Inc. certifies to ughneck Agreement/Spe PI Spec 7K/Q1, Fifth Editor rdance with this product hinimum of 2.5 times the QUALITY	hat the following h ecification requirem ion, June 2010, Tes t number. Hose bur working pressure Producton: Date :	ose assembly has been tested to ents and passed the 15 minute st pressure 9.6.7 and per Table 9 st pressure 9.6.7.2 exceeds the per Table 9. PRODUCTION 4/30/2015
the Gates Oi hydrostatic tes to 15,000 ps Quality Manager : Date :	ilfield Ro st per AP ii in acco	America, Inc. certifies to ughneck Agreement/Spe PI Spec 7K/Q1, Fifth Editor rdance with this product hinimum of 2.5 times the QUALITY	hat the following h ecification requirem ion, June 2010, Tes t number. Hose bur working pressure Producton: Date :	ose assembly has been tested to ents and passed the 15 minute st pressure 9.6.7 and per Table 9 st pressure 9.6.7.2 exceeds the per Table 9. PRODUCTION 4/30/2015

