			_	ATS-1	4-14	3
• •	OCD	Hobbs	0C[			Mun
Form 3160-3 (March 2012)		HORDA		OMB N Fxpires (	Vo. 1004-0137 October 31 20	4URP 1
UNITED STATE	S	11IN 2	0 2018	5. Lease Serial No.		
BUREAU OF LAND MA	NAGEMENT		-n/F	MMNM-0127A & F	ee	
APPLICATION FOR PERMIT TO	DRILL OF		EIAF	6. If Indian, Allotee	or Tribe Na	ime
				7. If Unit or CA Agre	eement, Nam	ie and No.
Ia. Type of work: V DRILL REEN	IEK					(marca)
lb. Type of Well: Oil Well Gas Well Other	Sir	ngle Zone 🔲 Multi	ple Zone	8. Lease Name and Salado Draw 9 W1	Well No. CN Fed C	om #2H
2. Name of Operator Mewbourne Oil Company /474	4)			9. API Well No.	1491	4
3a. Address PO Box 5270	3b. Phone No	. (include area code)		10. Field and Pool, or	Exploratory	<u> </u>
Hobbs, NM 88241 575-393-5905				Red Hills Wolfcam	p Gas (836	600)
4. Location of Well (Report location clearly and in accordance with a	any State requirem	nents.*)		11. Sec., T. R. M. or B	lk.and Surv	ey or Area
At surface and rive 330' ESI & 2310' EWI Sec 9 T205 K35E	SS R33F			Sec 9 1200 100E		
<ol> <li>14. Distance in miles and direction from nearest town or post office*</li> </ol>				12. County or Parish	1	13. State
22 miles SW of Jal, NM		 <sup></sup> 1	1			NM
15. Distance from proposed 310' location to rearest	16. No. of a	acres in lease	17. Spacir	ig Unit dedicated to this	well	
(Also to nearest drig. unit line, if any)	320					
18. Distance from proposed location* 345' - Salado Draw 9	19. Proposed	d Depth	20. BLM/	BIA Bond No. on file		
applied for, on this lease, ft.	12,310 - 1 16,715' - N	MD		3 Nationwide, NIVIB-	-000919	
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approxi	mate date work will sta	rt*	23. Estimated duratio	n	
3300 - GL	24 Atta	chments		du days		
The following, completed in accordance with the requirements of Onsh	ore Oil and Gas	Order No.1, must be a	ttached to th	is form:		
1. Well plat certified by a registered surveyor.		4. Bond to cover t	he operatio	ns unless covered by an	1 existing bo	nd on file (see
<ol> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on National Forest Syster</li> </ol>	n Lands, the	5. Operator certific	cation			
SUPO must be filed with the appropriate Forest Service Office).		6. Such other site BLM.	specific inf	ormation and/or plans a	s may be req	juired by the
25. Signature	Name	Name (Printed/Typed)			Date	
Title	Bradi	Bradley Bishop			12/31/20	J15
Approved by (Signature) /s/Cody Layton	Name	(Printed/Typed) F	IELD MA	NAGER	DateJUN	1 1 3 2018
Title Office CARLSBAD FIELD OFFICE						
Application approval does not warrant or certify that the applicant ho	lds legal or equi	itable title to those righ	nts in the sul	oject lease which would	entitle the ap	plicant to
conduct operations thereon. Conditions of approval, if any, are attached.			APPF	OVAL FOR T	WO YE	ARS
Fitle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a	crime for any p	erson knowingly and	willfully to r	nake to any department	or agency o	f the United
States any false, fictitions or fraudulent statements or representations a	s to any matter v	within its jurisdiction.				
(Continued on Dere PRAL REALIDEMENT		CARLSRA		OLLED WATH The	tructions	on page 2)
SPECIAL STIPHUATIONS	S AND	CPART, PAR			KE	11/
ATTACHED						/2/118
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		001	101110			

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# 1. Geologic Formations

TVD of target	12,310'	Pilot hole depth	NA
MD at TD:	17,014'	Deepest expected fresh water:	150'

#### Basin

.

Formation	Depth (TVD)	Water/Mineral Bearing/	Hazards*
	from KB	Target Zone?	
Quaternary Fill	Surface		
Rustler	856		
Top of Salt	1215		
Castile	3591		
Base of Salt	4694		
Lamar	4926	Oil	
Bell Canyon	4966		
Cherry Canyon	6048		
Manzanita Marker	6196		
Brushy Canyon	7516		
Bone Spring	8953	Oil/Gas	
1 <sup>st</sup> Bone Spring Sand	9971		
2 <sup>nd</sup> Bone Spring Sand	10,536		
3 <sup>rd</sup> Bone Spring Sand	11,613		
Abo			
Wolfcamp	12,062	Target Zone	
Devonian			
Fusselman			
Ellenburger			
Granite Wash			

\*H2S, water flows, loss of circulation, abnormal pressures, etc.

# 2. Casing Program

Hole	Casing	g Interval	Csg.	Weight	Grade	Conn.	SF	SF	SF Jt	SF Body
Size	From	То	Size	(lbs)	•		Collapse	Burst	Tension	Tension
17.5"	0'	935'	13.375"	48	H40	STC	1.76	3.95	7.17	12.05
12.25"	0'	3453'	9.625"	36	J55	LTC	1.13	1.96	2.51	3.13
12.25"	3453'	4383'	9.625"	40	J55	LTC	1.13	1.73	9.31	11.27
12.25"	4383'	4850'	9.625"	40	N80	LTC	1.23	2.28	40.33	50.13
8.75"	0'	12,450'	7"	26	HCP110	LTC	1.28	1.63	2.03	2.56
6.125"	11,748'	17,014'	4.5"	13.5	P110	LTC	1.28	1.49	4.75	5.94
				BLM Min	imum Safet	y Factor	1.125	1	1.6 Dry	1.6 Dry
									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.					
Is premium or uncommon casing planned? If yes attach casing specification sheet.					
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?	1				
Is well within the designated 4 string boundary.					
Is well located in SOPA but not in R-111-P?	N				
If yes, are the first 2 strings cemented to surface and 3 <sup>rd</sup> string cement tied back 500' into previous casing?					
Is well located in R-111-P and SOPA?	N				
If yes, are the first three strings cemented to surface?					
Is 2 <sup>nd</sup> string set 100' to 600' below the base of salt?					
Is well located in high Cave/Karst?	N				
If yes, are there two strings cemented to surface?					
(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?					

# 3. Cementing Program

4

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H20 gal/ sk	500# Comp. Strength (hours)	Slurry Description
Surf.	490	12.5	2.12	11	10	Lead: Class C + Salt + Gel + Extender + LCM
	200	14.8	1.34	6.3	8	Tail: Class C + Retarder
Inter.	810	12.5	2.12	11	10	Lead: Class C + Salt + Gel + Extender + LCM
	200	14.8	1.34	6.3	8	Tail: Class C + Retarder
Prod. Stg 1	335	12.5	2.12	11	9	Lead: Class C + Gel + Retarder + Defoamer + Extender
U	400	15.6	1.18	5.2	13	Tail: Class H + Retarder + Fluid Loss + Defoamer
					ECP/DV T	ool @ 6196'
Prod. Stg 2	80	12.5	2.12	11	16	Lead: Class C + Gel + Retarder + Defoamer + Extender
e	100	14.8	1.34	6.3	8	Tail: Class C + Retarder
Liner	215	11.2	2.97	18	16	Class C + Salt + Gel + Fluid Loss + Retarder + Dispersant + Defoamer + Anti-Settling Agent

A copy of cement test will be available on location at time of cement job providing pump times & compressive strengths.

Casing String	TOC	% Excess
Surface	0'	100%
Intermediate	0'	25%
Production	4650'	25%
Liner	11,748'	25%

### 4. Pressure Control Equipment

v	Variance: A variance is requested for use of a 5000 psi annular BOP with the 10,000 psi
I	BOP stack. Please see attached description and procedure.

BOP installed and tested before drilling which hole?	Size?	System Rated WP	Туре		•	Tested to:
			Aı	nnular	X	5000#
			Blin	nd Ram	X	
12-1/4"	13-5/8"	10M	Pip	e Ram	X	10.000#
			Dou	ble Ram		10,000#
			Other*			

\*Specify if additional ram is utilized.

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

X	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.
Y	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.
	N Are anchors required by manufacturer?
Y	A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.
	Provide description here: See attached schematic.

### 5. Mud Program

.

TVD		Туре	Weight (ppg)	Viscosity	Water Loss	
From	То					
0	935	FW Gel	8.6-8.8	28-34	N/C	
935	4850	Saturated Brine	10.0	28-34	N/C	
4850	11,737	Cut Brine	8.6-9.7	28-34	N/C	
11,737	12,310	OBM	10.0-13.0	30-40	<10cc	

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain	Pason/PVT/Visual Monitoring
of fluid?	

# 6. Logging and Testing Procedures

Logg	ing, Coring and Testing.
X	Will run GR/CNL from KOP (11,748') to surface (horizontal well - vertical portion of
	hole). Stated logs run will be in the Completion Report and submitted to the BLM.
	No Logs are planned based on well control or offset log information.
	Drill stem test? If yes, explain
	Coring? If yes, explain

Add	litional logs planned	Interval
Χ	Gamma Ray	11,748' (KOP) to TD
	Density	
	CBL	
	Mud log	
	PEX	

#### 7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	8322 psi
Abnormal Temperature	No

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers in surface hole. Weighted mud for possible over-pressure in Wolfcamp formation.

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

	H2S is present
Х	H2S Plan attached

### 8. Other facets of operation

Is this a walking operation? If yes, describe. Will be pre-setting casing? If yes, describe.

Attachments

\_\_\_\_ Directional Plan

\_\_\_\_ Other, describe

# **10,000 PSI Annular BOP Variance Request**

Mewbourne Oil Company request a variance to use a 5000 psi annular BOP with a 10,000 psi BOP stack. The component and compatibility tables along with the general well control plans demonstrate how the 5000 psi annular BOP will be protected from pressures that exceed its rated working pressure (RWP). The pressure at which the control of the wellbore is transferred from the annular preventer to another available preventer will not exceed 3500 psi (70% of the RWP of the 5000 psi annular BOPL).

#### 1. Component and Preventer Compatibility Tables

The tables below outline the tubulars and the compatible preventers in use. This table, combined with the drilling fluid, documents that two barriers to flow will be maintained at all times.

	12-1	L/4" Intermediate Hole	Section		
	- <u></u>	101VI psi Requiremen	τ		1
Component	OD	Primary Preventer	RWP	Alternate Preventer(s)	RWP
Drillpipe	5.000" or	Annular	5M	Upper 3.5"-5.5" VBR	10M
	4.500"			Lower 3.5"-5.5" VBR	10M
HWDP	5.000" or	Annular	5M	Upper 3.5"-5.5" VBR	10M
	4.500"			Lower 3.5"-5.5" VBR	10M
Jars	6.500"	Annular	5M	-	-
DCs and MWD tools	6.500"-8.000"	Annular	5M	-	-
Mud Motor	8.000"-9.625"	Annular	5M	-	-
Intermediate Casing	9.625"	Annular	5M	-	-
Open-Hole	-	Blind Rams	10M	-	-

	8-	3/4" Production Hole Se 10M psi Requiremen	ection t		
Component	OD	Primary Preventer	RWP	Alternate Preventer(s)	RWP
Drillpipe	5.000" or	Annular	5M	Upper 3.5"-5.5" VBR	10M
	4.500"			Lower 3.5"-5.5" VBR	10M
HWDP	5.000" or	Annular	5M	Upper 3.5"-5.5" VBR	10M
	4.500"			Lower 3.5"-5.5" VBR	10M
Jars	6.500"	Annular	5M	-	-
DCs and MWD tools	6.500"-8.000"	Annular	5M	-	-
Mud Motor	6.750"-8.000"	Annular	5M	_	-
Production Casing	7"	Annular	5M	_	-
Open-Hole	-	Blind Rams	10M	-	

		6-1/8" Lateral Hole Sect 10M psi Requiremen	tion t		
Component	OD	Primary Preventer	RWP	Alternate Preventer(s)	RWP
Drillpipe	4.500"	Annular	5M	Upper 3.5"-5.5" VBR	10M
				Lower 3.5"-5.5" VBR	10M
HWDP	4.500"	Annular	5M	Upper 3.5"-5.5" VBR	10M
				Lower 3.5"-5.5" VBR	10M
DCs and MWD tools	4.750"-5.500"	Annular	5M	Upper 3.5"-5.5" VBR	10M
				Lower 3.5"-5.5" VBR	10M
Mud Motor	4.750"-5.500"	Annular	5M	Upper 3.5"-5.5" VBR	10M
				Lower 3.5"-5.5" VBR	10M
Production Casing	4.500"	Annular	5M	Upper 3.5"-5.5" VBR	10M
				Upper 3.5"-5.5" VBR	10M
Open-Hole	-	Blind Rams	10M	-	-

VBR = Variable Bore Ram

#### 2. Well Control Procedures

Below are the minimal high-level tasks prescribed to assure a proper shut-in while drilling, tripping, running casing, pipe out of the hole (open hole), and moving the BHA through the BOPs. At least one well control drill will be performed weekly per crew to demonstrate compliance with the procedure and well control plan. The well control drill will be recorded in the daily drilling log. The type of drill will be determined by the ongoing operations, but reasonable attempts will be made to vary the type of drill conducted (pit, trip, open hole, choke, etc.). This well control plan will be available for review by rig personnel in the Mewbourne Oil Company drilling supervisor's office on location and on the rig floor. All BOP equipment will be tested as per Onshore O&G Order No. 2 with the exception of the 5000 psi annular which will be tested to 70% of its RWP.

### **General Procedure While Drilling**

- 1. Sound alarm (alert crew)
- 2. Space out drill string
- 3. Shut down pumps (stop pumps and rotary)
- 4. Shut-in well (uppermost applicable BOP, typically annular preventer, first. HCR & choke will already be in the closed position.)
- 5. Confirm shut-in
- 6. Notify toolpusher/company representative
- 7. Read and record the following:
  - a. SIDPP & SICP
  - b. Pit gain
  - c. Time
- 8. Regroup and identify forward plan

9. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

### **General Procedure While Tripping**

- 1. Sound alarm (alert crew)
- 2. Stab full-opening safety valve & close
- 3. Space out drill string
- 4. Shut-in well (uppermost applicable BOP, typically annular preventer, first. HCR & choke will already be in the closed position.)
- 5. Confirm shut-in

.

- 6. Notify toolpusher/company representative
- 7. Read and record the following:
  - a. SIDPP & SICP
  - b. Pit gain
  - c. Time
- 8. Regroup and identify forward plan
- 9. If pressure has built or is anticipated during the kill to reach 70% of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

### **General Procedure While Running Production Casing**

- 1. Sound alarm (alert crew)
- 2. Stab crossover and full-opening safety valve and close
- 3. Space out string
- 4. Shut-in well (uppermost applicable BOP, typically annular preventer, first. HCR & choke will already be in the closed position.)
- 5. Confirm shut-in
- 6. Notify toolpusher/company representative
- 7. Read and record the following:
  - a. SIDPP & SICP
  - b. Pit gain
  - c. Time
- 8. Regroup and identify forward plan
- 9. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

# General Procedure With No Pipe In Hole (Open Hole)

- 1. Sound alarm (alert crew)
- 2. Shut-in with blind rams (HCR & choke will already be in the closed position)
- 3. Confirm shut-in
- 4. Notify toolpusher/company representative
- 5. Read and record the following:
  - a. SICP
  - b. Pit gain
  - c. Time
- 6. Regroup and identify forward plan

# **General Procedures While Pulling BHA Through Stack**

- 1. PRIOR to pulling last joint of drillpipe through stack:
  - a. Perform flow check. If flowing, continue to (b).
  - b. Sound alarm (alert crew)
  - c. Stab full-opening safety valve and close
  - d. Space out drill string with tool joint just beneath the upper variable bore rams
  - e. Shut-in using upper variable bore rams (HCR & choke will already be in the closed position)
  - f. Confirm shut-in
  - g. Notify toolpusher/company representative
  - h. Read and record the following:
    - i. SIDPP & SICP
    - ii. Pit gain
    - iii. Time
  - i. Regroup and identify forward plan
- 2. With BHA in the stack and compatible ram preventer and pipe combination immediately available:
  - a. Sound alarm (alert crew)
  - b. Stab crossover and full-opening safety valve and close
  - c. Space out drill string with upset just beneath the upper variable bore rams
  - d. Shut-in using upper variable bore rams (HCR & choke will already be in the closed position)
  - e. Confirm shut-in
  - f. Notify toolpusher/company representative
  - g. Read and record the following:
    - i. SIDPP & SICP

- ii. Pit gain
- iii. Time
- h. Regroup and identify forward plan
- 3. With BHA in the stack and NO compatible ram preventer and pipe combination immediately available:
  - a. Sound alarm (alert crew)
  - b. If possible, pull string clear of the stack and follow "Open Hole" procedure.
  - c. If impossible to pull string clear of the stack:
  - d. Stab crossover, make up one joint/stand of drillpipe and full-opening safety valve and close
  - e. Space out drill string with tooljoint just beneath the upper variable bore ram
  - f. Shut-in using upper variable bore ram (HCR & choke will already be in the closed position)
  - g. Confirm shut-in
  - h. Notify toolpusher/company representative
  - i. Read and record the following:
    - i. SIDPP & SICP
    - ii. Pit gain
    - iii. Time
  - j. Regroup and identify forward plan



Salado Draw 9 sundry notice for off-site battery, lease road, SWD PL & gas PL.

#### Wells that will go to off-site battery.

- 1. Salado Draw 9/16 WOAP Fed Com #3H APD approved, not drilled.
- 2. Salado Draw 9/16 W0BO Fed Com #2H APD approved, drilled.
- 3. Salado Draw 9/16 W1BO Fed Com #3H APD approved, drilled.
- 4. Salado Draw 9 A3CN Fed Com #1H APD approved, drilled.
- 5. Salado Draw 9 AP Fed Com #1H APD approved, drilled.
- 6. Salado Draw 9 BO Fed Com #1H APD approved, drilled.
- 7. Salado Draw 9 DM Fed Com #1H APD approved, drilled.
- 8. Salado Draw 9 W0DM Fed Com #2H APD approved, not drilled.
- 9. Salado Draw 9 W1AP Fed Com #2H APD not approved, not drilled.
- 10. Salado Draw 9 W1CN Fed Com #2H APD not approved, not drilled. (will submit new APD info to move to East side of Salado Draw 9 A3CN Fed Com #1H.
- 11. Salado Draw 9 W1DM Fed Com #3H APD not approved, not drilled.

#### **OFF-SITE BATTERY INFORMATION**

#### **Exhibit A**

Battery pad size: 450' x 450'

Center of battery GPS coordinates: 32.0631046, -103.5725788

#### **Exhibit B**

Lease road to battery site: 648.30' - Sec 9 T26S R33E.

#### Exhibit C

Gas line from battery site to existing MOC meter: 970.32' of buried 4.5" steel, 220# line pressure. Sec 9 T26S R33E.

#### **Exhibit D**

SWD line from battery site to existing MOC SWD line: 1,976.47' of buried 8" poly SWD line. 200# line pressure. Sec 9 T26S R33E.

#### Exhibit E

Flowline from Salado Draw 9/16 AP well pad to Salado Draw battery: 675.84' of surface 2 7/8" steel flowline. Working pressure 100#.

#### Exhibit F

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Flowline from Salado Draw 9/16 BO well pad to Salado Draw battery: 904.97' of surface 2 7/8" steel flowline. Working pressure 100#.

# Exhibit G

Flowline from Salado Draw 9 DM & 9 CN well pads to Salado Draw battery: 4,787' of surface 2 7/8" steel flowline. Working pressure 100#.





RPUS CHRISTI			FAX: 361-887-0812
	, TEXAS 78405		EMAIL: <i>Tim.Cantu@gates.co)</i> WEB: www.gates.com
10K C	EMENTING ASSE	MBLY PRESSURE T	EST CERTIFICATE
Icham or 1		Tort Ortor	4/30/2015
istomer Ref	4060578	Hose Serial No. :	D-043015-7
voice No. :	500506	Created By:	JUSTIN CROPPER
educt Description:	<b></b>	10K3.548.0CK4.1/1610KFLG	E/E LE
nd Fitting 1 :	4 1/16 10K FLG	End Fitting 2 :	4 1/16 10K FLG
etes Part No. :	4773-6290	Assembly Code :	L36554102914D-043015-7
orking Pressure :	10,000 PSI	Test Pressure :	15,000 PSI
to 15,000 psi	in accordance with this minimum of 2.5 tir	product number. Hose bur nes the working pressure	st pressure 9.6.7.2 exceeds the per Table 9.
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uality Manager : ate : Ignature :	QUALITY 4/30/2015 Marin C	Produciton: Date : Offer Signature :	PRODUCTION 4/30/2015 Form-PTC - 01 Rev.D
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uality Manager : ate : Ignature :	QUALITY 4/30/2015 Algun C	Produciton: Date : Signature :	PRODUCTION 4/30/2015 Form-PTC - 01 Rev.D
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uality Manager : ate : gnature :	QUALITY 4/30/2015 Munich	Produciton: Date : Signature :	PRODUCTION 4/30/2015 Form PTC - 01 Rev.0
	minimum of 2.5 tir	nes the working pressure	per Table 9.

