1. GEOLOGIC NAME OF SURFACE FORMATION: Permian

.

2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Rustler	940'
Top of Salt	1,240'
Base of Salt / Top Anhydrite	4,950'
Base Anhydrite	5,200'
Lamar	5,200'
Bell Canyon	5,230'
Cherry Canyon	6,235'
Brushy Canyon	7,830'
Bone Spring Lime	9,330'
1 st Bone Spring Sand	10,315'
2 nd Bone Spring Shale	10,515'
2 nd Bone Spring Sand	10,835'
3 rd Bone Spring Carb	11,315'
3 rd Bone Spring Sand	11,895'
Wolfcamp	12,365'
TD	12,530'

3. ESTIMATED DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS:

Upper Permian Sands	0-400'	Fresh Water
Cherry Canyon	6,235'	Oil
Brushy Canyon	7,830'	Oil
1st Bone Spring Sand	10,315'	Oil
2 nd Bone Spring Shale	10,515'	Oil
2 nd Bone Spring Sand	10,835'	Oil
3 rd Bone Spring Carb	11,315'	Oil
3rd Bone Spring Sand	11,895'	Oil
Wolfcamp	12,365'	Oil

No other Formations are expected to give up oil, gas or fresh water in measurable quantities. Surface fresh water sands will be protected by setting 10.75" casing at 965' and circulating cement back to surface.

Hole		Csg				\mathbf{DF}_{\min}	DFmin	DFmin
Size	Interval	OD	Weight	Grade	Conn	Collapse	Burst	Tension
14.75"	0-965 03	10.75"	40.5#	J55	STC	1.125	1.25	1.60
9.875"	0 - 1,000'	7.625"	29.7#	HCP-	LTC	1.125	1.25	1.60
				110				
9.875"	1,000' - 3,000'	7.625"	29.7#	P-110EC	SLIJ II	1.125	1.25	1.60
8.75"	3,000' - 11,400'	7.625"	29.7#	HCP- 110	FlushMax III	1.125	1.25	1.60
6.75"	0' - 10,900'	5.5"	20#	P-110EC	DWC/C-IS MS	1.125	1.25	1.60
6.75"	10,900'-19.980'	5.5"	20#	P-110EC	VAM SFC	1.125	1.25	1.60

Geb 4. CASING PROGRAM - NEW

Variance is requested to wave the centralizer requirements for the 7-5/8" FJ casing in the 8-3/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 8-3/4" hole interval to maximize cement bond and zonal isolation.

Variance is also requested to wave any centralizer requirements for the 5-1/2" FJ casing in the 6-3/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 6-3/4" hole interval to maximize cement bond and zonal isolation.

Depth	No. Sacks	Wt. ppg	Yld Ft ³ /ft	Mix Water Gal/sk	Slurry Description
10-3/4" 965'	325	13.5	1.73	9.13 Class C + 4.0% Bentonite + 0.6% CD-32 + 0.5% CaCl ₂ + 1b/sk Cello-Flake (TOC @ Surface)	
	200	14.8	1.34	6.34	Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate
7-5/8" 11,400'	250	14.8	1.38	6.48 Class C + 5% Gypsum + 3% CaCl2 pumped via Bradenhea (TOC @ Surface)	
	2000	14.8	1.38	6.48	Class C + 5% Gypsum + 3% CaCl2 pumped via Bradenhead
	550	14.4	1.20	4.81	50:50 Class H:Poz + 0.25% CPT20A + 0.40% CPT49 + 0.20% CPT35 + 0.80% CPT16A + 0.25% CPT503P pumped Conventionally
5-1/2" 19,980'	850	14.1	1.26	5.80	Class H + 0.1% C-20 + 0.05% CSA-1000 + 0.20% C-49 + 0.40% C-17 (TOC @ 10,900`)

Cementing Program:

Note: Cement volumes based on bit size plus at least 25% excess in the open hole plus 10% excess in the cased-hole overlap section.

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

Variance is requested to use a co-flex line between the BOP and choke manifold (instead of using a 4" OD steel line).

The minimum blowout preventer equipment (BOPE) shown in Exhibit #1 will consist of a single ram, mud cross and double ram-type (10,000 psi WP) preventer and an annular preventer (5000-psi WP). Both units will be hydraulically operated and the ram-type will be equipped with blind rams on bottom and drill pipe rams on top. All BOPE will be tested in accordance with Onshore Oil & Gas order No. 2.

Before drilling out of the surface casing, the ram-type BOP and accessory equipment will be tested to 5000/ 250 psig and the annular preventer to 3500/ 250 psig. The surface casing will be tested to 1500 psi for 30 minutes.

Before drilling out of the intermediate casing, the ram-type BOP and accessory equipment will be tested to 5000/ 250 psig and the annular preventer to 3500/ 250 psig. The intermediate casing will be tested to 2000 psi for 30 minutes.

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.

A hydraulically operated choke will be installed prior to drilling out of the intermediate casing shoe.

6. TYPES AND CHARACTERISTICS OF THE PROPOSED MUD SYSTEM:

During this procedure we plan to use a Closed-Loop System and haul contents to the required disposal.

The applicable depths and properties of the drilling fluid systems are as follows.

Depth	Туре	Weight (ppg)	Viscosity	Water Loss
0 – 965'	Fresh - Gel	8.6-8.8	28-34	N/c
965' - 11,400'	Brine	8.8-10.0	28-34	N/c
11,400' - 19,980'	Oil Base	10.0-14.0	58-68	3 - 6
Lateral				

The highest mud weight needed to balance formation is expected to be 11.5 ppg. In order to maintain hole stability, mud weights up to 14.0 ppg may be utilized.

An electronic pit volume totalizer (PVT) will be utilized on the circulating system, to monitor pit volume, flow rate, pump pressure and stroke rate.

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

7. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT:

- (A) A kelly cock will be kept in the drill string at all times.
- (B) A full opening drill pipe-stabbing valve (inside BOP) with proper drill pipe connections will be on the rig floor at all times.
- (C) H₂S monitoring and detection equipment will be utilized from surface casing point to TD.

8. LOGGING, TESTING AND CORING PROGRAM:

Open-hole logs are not planned for this well.

GR–CCL Will be run in cased hole during completions phase of operations.

9. ABNORMAL CONDITIONS, PRESSURES, TEMPERATURES AND POTENTIAL HAZARDS:

The estimated bottom-hole temperature (BHT) at TD is 181 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 7492 psig (based on 11.5 ppg MW). No hydrogen sulfide or other hazardous gases or fluids have been encountered, reported or are known to exist at this depth in this area. Severe loss circulation is expected from 7,300' to Intermediate casing point.

10. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS:

The drilling operation should be finished in approximately one month. If the well is productive, an additional 60-90 days will be required for completion and testing before a decision is made to install permanent facilities.

(A)EOG Resources requests the option to contract a Surface Rig to drill, set surface casing, and cement on the subject well. If the timing between rigs is such that EOG Resources would not be able to preset the surface, the Primary Rig will MIRU and drill the well in its entirety per the APD.

11. WELLHEAD:

A multi-bowl wellhead system will be utilized.

After running the 10-3/4" surface casing, a 13-5/8" BOP/BOPE system with a minimum working pressure of 5000 psi will be installed on the wellhead system and will be pressure tested to 250 psi low followed by a 5000 psi pressure test. This pressure test will be repeated at least every 30 days, as per Onshore Order No. 2

The minimum working pressure of the BOP and related BOPE required for drilling below the surface casing shoe shall be 5000 psi.

The multi-bowl wellhead will be installed by vendor's representative(s). A copy of the installation instructions for the Stream Flo FBD100 Multi-Bowl WH system has been sent to the NM BLM office in Carlsbad, NM.

The wellhead will be installed by a third party welder while being monitored by WH vendor's representative.

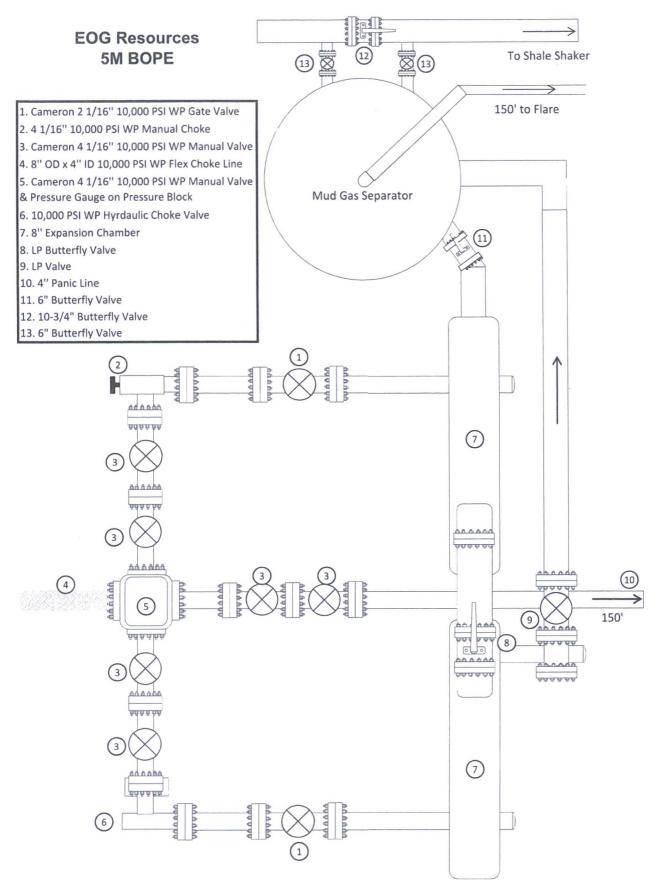
All BOP equipment will be tested utilizing a conventional test plug. Not a cup or J-packer type.

A solid steel body pack-off will be utilized after running and cementing the intermediate casing. After installation the pack-off and lower flange will be pressure tested to 5000 psi.

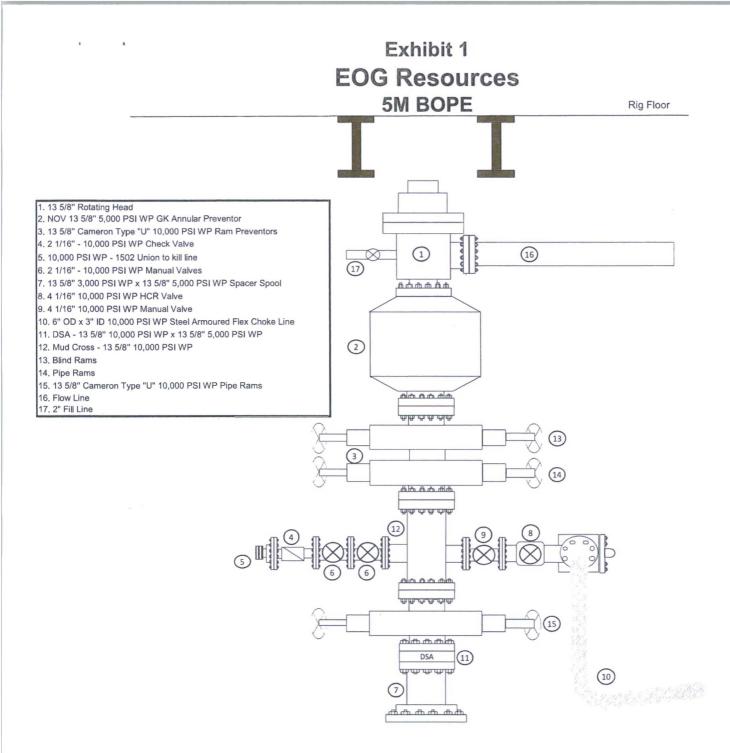
Both the surface and intermediate casing strings will be tested as per Onshore Order No. 2 to at least 0.22 psi/ft or 1500 psi, whichever is greater.

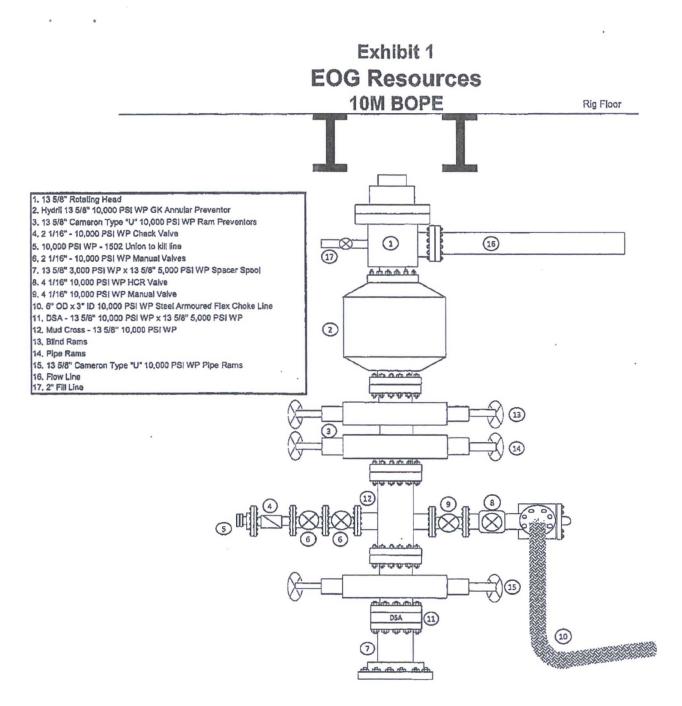
Exhibit 1a

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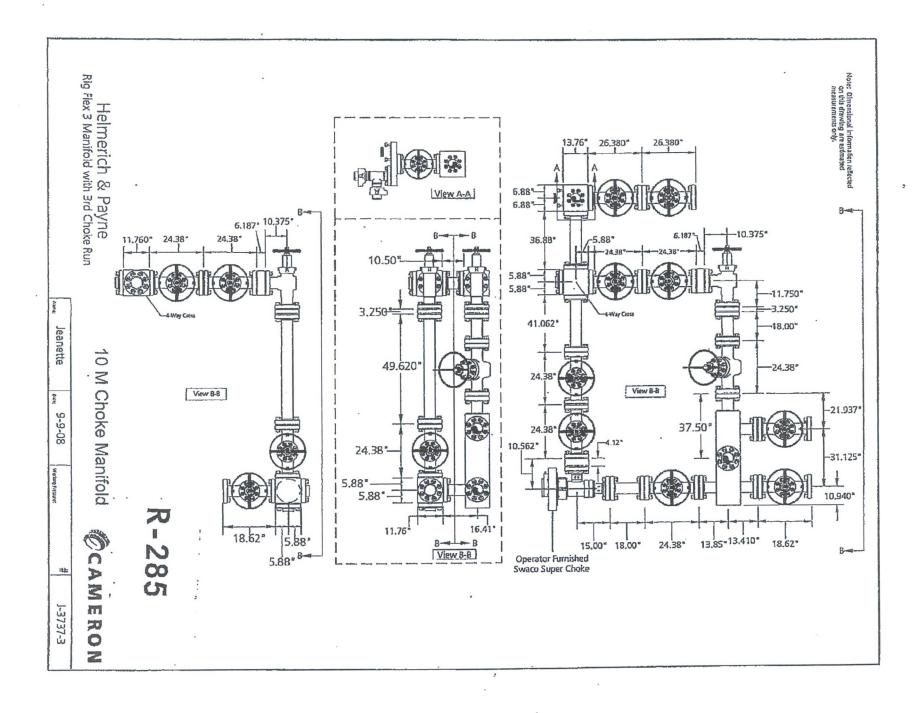


EOG 5M Choke Manifold Diagram (rev. 3/21/14)





EOG 5M BOPE Diagram (6/10/14)



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HOBBS OCD JUN 16 2017 RECEIVED

Hydrogen Sulfide Plan Summary

- A. All personnel shall receive proper H2S training in accordance with Onshore Order III.C.3.a.
- B. Briefing Area: two perpendicular areas will be designated by signs and readily accessible.
- C. Required Emergency Equipment:
 - Well control equipment
 - a. Flare line 150' from wellhead to be ignited by flare gun.
 - b. Choke manifold with a remotely operated choke.
 - c. Mud/gas separator
 - Protective equipment for essential personnel.

Breathing apparatus:

- a. Rescue Packs (SCBA) 1 unit shall be placed at each breathing area, 2 shall be stored in the safety trailer.
- b. Work/Escape packs —4 packs shall be stored on the rig floor th sufficient air hose not to restrict work activity.
- c. Emergency Escape Packs —4 packs shall be stored in the doghouse for emergency evacuation.

Auxiliary Rescue Equipment:

- a. Stretcher
- b. Two OSHA full body harness
- c. 100 ft 5/8 inch OSHA approved rope
- d. 1-20# class ABC fire extinguisher
- H2S detection and monitoring equipment:

The stationary detector with three sensors will be placed in the upper dog house if equipped, set to visually alarm @ 10 ppm and audible @ 14 ppm. Calibrate a minimum of every 30 days or as needed. The sensors will be placed in the following places: Rig floor / Bell nipple / End of flow line or where well bore fluid is being discharged.

(Gas sample tubes will be stored in the safety trailer)

- Visual warning systems.
 - a. One color code condition sign will be placed at the entrance to the site reflecting the possible conditions at the site.
 - b. A colored condition flag will be on display, reflecting the current condition at the site at the time.
 - c. Two wind socks will be placed in strategic locations, visible from all angles.

Mud program:

a.

The mud program has been designed to minimize the volume of H2S circulated to surface. The operator will have the necessary mud products to minimize hazards while drilling in H2S bearing zones.

Metallurgy:

All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service.

Communication:

Communication will be via cell phones and land lines where available.

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DUDI IC SAFETV.	List	011
PUBLIC SAFETY:		911 or
Lea County Sheriff's Department		(575) 396-3611
Rod Coffman		
Fire Department:		
Carlsbad		(575) 885-3125
Artesia		(575) 746-5050
Hospitals:		
Carlsbad		(575) 887-4121
Artesia		(575) 748-3333
Hobbs		(575) 392-1979
Dept. of Public Safety/Carlsbad		(575) 748-9718
Highway Department		(575) 885-3281
New Mexico Oil Conservation		(575) 476-3440
U.S. Dept. of Labor		(575) 887-1174
o.o. orp. or buoor		(575) 007 1171
EOG Resources, Inc.		
EOG / Midland	Office	(432) 686-3600
	Onice	(452) 080-5000
Company Drilling Consultanta		
Company Drilling Consultants: Jett Dueitt	Cell	(122) 220 1840
	Cell	(432) 230-4840
Blake Burney		
Duilling Fracing on		
Drilling Engineer	0.00	(120) (0(2(0)
Steve Munsell		(432) 686-3609
	Cell	(432) 894-1256
Drilling Manager		
Heath Work		(432) 686-6716
	Cell	(903) 780-1179
Drilling Superintendent		
Jason Fitzgerald	Office	(432) 848-9029
	Cell	(318) 347-3916
H&P Drilling		
H&P Drilling	Office	(432) 563-5757
H&P 415 Drilling Rig	Rig	(432) 230-4840
	0	
Tool Pusher:		
Johnathan Craig	Cell	(817) 760-6374
Brad Garrett		()
Safety		
Brian Chandler (HSE Manager)	Office	(432) 686-3695
Brian Chandrer (115E Wanager)	Cell	< <i>/</i>
	Cell	(817) 239-0251

Emergency Assistance Telephone List

TECHNICAL SPECIFICATIONS

These specifications are furnished for general information only and are not intended for design purposes. This information is preliminary and may change subject to a final design by VAM-USA Engineering. This is not a controlled document.

DWC/C-IS MS standard		Casing	5.500" O.D.	20.00 lb./ft.	VST P-110EC
		Material			
VST P-110EC 125,000 135,000		Grade Minimum Yield Strength (p Minimum Ultimate Strengtl			
		Pipe Dimensions			USA
5.500 4.778 0.361 20.00 19.83 5.828		Nominal Pipe Body OD (in Nominal Pipe Body ID (in.) Nominal Wall Thickness (i Nominal Weight (lbs./ft.) Plain End Weight (lbs./ft.) Nominal Pipe Body Area (s) n.)	Houston, TX 7704 Phone: (713) 479 Fax: (713) 479-3	9-3200
		Pipe Body Performance	Properties		
729,000 12,090 14,360 13,100		Minimum Pipe Body Yield Minimum Collapse Pressu Minimum Internal Yield Pre Hydrostatic Test Pressure	re (psi.) essure (psi.)		
6.115 4.778 4.653 4.13 5.828 100.0		Connection Dimensions Connection OD (in.) Connection ID (in.) Connection Drift Diameter Make-up Loss (in.) Critical Area (sq. in.) Joint Efficiency (%)	(in.)		
		Connection Performance	e Properties		
729,000 26,040 728,000 729,000 12,090 14,360 104.2	 (1) (2) (3) (4) 	Joint Strength (lbs.) Reference String Length (API Joint Strength (lbs.) Compression Rating (lbs.) API Collapse Pressure Ra API Internal Pressure Res Maximum Uniaxial Bend R	ting (psi.) istance (psi.)		
104.2		Approximated Field End		100 11.)	
16,600 19,100 21,600	(5) (5) (6)	Minimum Final Torque (ft Maximum Final Torque (ft. Connection Yield Torque (-lbs.) -lbs.)		
(2) Reference String	g Length i	um pipe body yield strength multipli s the joint strength divided by both t eference only. It is calculated from I	he weight in air and	the design factor.	

(3) API Joint Strength is for reference only. It is calculated from Formulas 42 and 43 in the API Bulletin 5C3.

(4) API Internal Pressure Resistance is calculated from Formulas 31, 32, and 35 in the API Bulletin 5C3.

(5) Torque values are approximated and may be affected by field conditions.

(6) Connection yield torque is not to be exceeded.

8

Connection specifications within the control of VAM-USA were correct as of the date printed. Specifications are subject to change without notice. Certain connection specifications are dependent on the mechanical properties of the pipe. Mechanical properties of mill proprietary pipe grades v obtained from mill publications and are subject to change. Properties of mill proprietary grades should be confirmed with the mill. Users are advi to obtain current connection specifications and verify pipe mechanical properties for each application.

TECHNICAL SPECIFICATIONS

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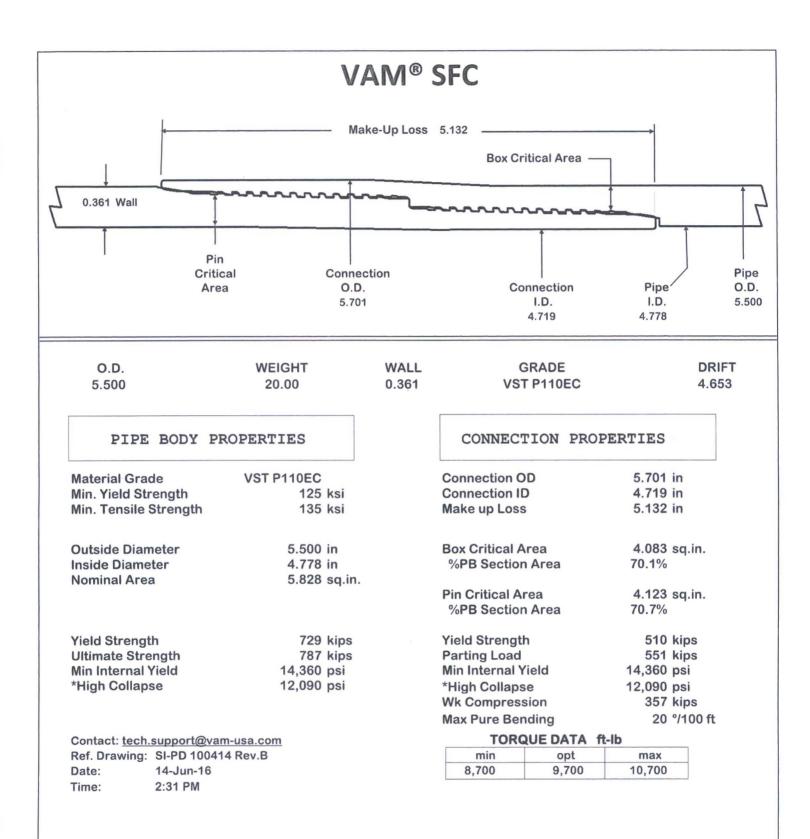
DWC/C-IS MS standard		Casing	5.500" O.D.	20.00 lb./ft.	VST P-110EC
VST P-110EC 125,000 135,000		<u>Material</u> Grade Minimum Yield Strength (p Minimum Ultimate Strength			
5.500 4.778 0.361 20.00 19.83 5.828		Pipe Dimensions Nominal Pipe Body OD (in Nominal Pipe Body ID (in.) Nominal Wall Thickness (in Nominal Weight (lbs./ft.) Plain End Weight (lbs./ft.) Nominal Pipe Body Area (s) n.)	VAM-USA 4424 W. Sam Housto Houston, TX 77041 Phone: (713) 479-32 Fax: (713) 479-3234 E-mail: VAMUSAsale	200
729,000 12,090 14,360 13,100		Pipe Body Performance Minimum Pipe Body Yield Minimum Collapse Pressu Minimum Internal Yield Pre Hydrostatic Test Pressure	Strength (lbs.) re (psi.) essure (psi.)		
6.115 4.778 4.653 4.13 5.828 100.0		Connection Dimensions Connection OD (in.) Connection ID (in.) Connection Drift Diameter Make-up Loss (in.) Critical Area (sq. in.) Joint Efficiency (%)	(in.)		×
		Connection Performance	e Properties		
729,000 26,040 728,000 729,000 12,090 14,360 104.2	 (1) (2) (3) (4) 	Joint Strength (Ibs.) Reference String Length (1 API Joint Strength (Ibs.) Compression Rating (Ibs.) API Collapse Pressure Ra API Internal Pressure Res Maximum Uniaxial Bend R	ting (psi.) istance (psi.)		
16,600 19,100 21,600	(5) (5) (6)	Approximated Field End Minimum Final Torque (ft Maximum Final Torque (ft. Connection Yield Torque (-lbs.) -lbs.)		
 Joint Strength is th Reference String API Joint Strength 	ne minim Length is n is for r ure Resi	um pipe body yield strength multipli s the joint strength divided by both t eference only. It is calculated from f stance is calculated from Formulas	ied by the connection he weight in air and Formulas 42 and 43 31, 32, and 35 in the	the design factor. in the API Bulletin 5C3.	

(5) Torque values are approximated and may be affected by field conditions.

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Connection Data	a Sheet	
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OD	Weight	Wall Th.	Grade	API Drift	Connection
7 5/8 in.	29.70 lb/ft	0.375 in.	VM 110 HC	6.750 in.	VAM® SLIJ-II

1	PIPE PROPERTIES		
Ν	Nominal OD	7.625 in.	С
Ν	Nominal ID	6.875 in.	С
Ν	Nominal Cross Section Area	8.541 sqin.	С
C	Grade Type	High Collapse	N
Ν	Min. Yield Strength	110 ksi	С
Ν	Max. Yield Strength	140 ksi	Т
Ν	Min. Ultimate Tensile Strength	125 ksi	С

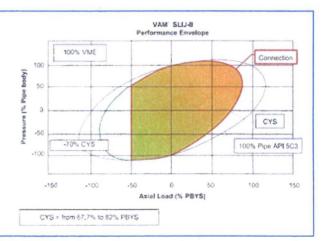
CONNECTION I	PROPERTIES
Connection Type	Premium integral semi-flush
Connection OD (nom)	7.711 in.
Connection ID (nom)	6.820 in.
Make-up Loss	4.822 in.
Critical Cross Section	5.912 sqin.
Tension Efficiency	69.2 % of pipe
Compression Efficiency	48.5 % of pipe
Internal Pressure Efficiency	100 % of pipe
External Pressure Efficiency	100 % of pipe

CONNECTION PERFORMANCES						
Tensile Yield Strength	651	klb				
Compression Resistance	455	klb				
Internal Yield Pressure	9470	psi				
Uniaxial Collapse Pressure	7890	psi				
Max. Bending Capacity	TDB					
Max Bending with Sealability	20	°/100 ft				

FIELD TORQUE VALUES				
Min. Make-up torque	11300 ft.lb			
Opti. Make-up torque	12600 ft.lb			
Max. Make-up torque	13900 ft.lb			

VAM® SLIJ-II is a semi-flush integral premium connection for all casing applications. It combines a near flush design with high performances in tension, compression and gas sealability.

VAM® SLIJ-II has been validated according to the most stringent tests protocols, and has an excellent performance history in the world's most prolific HPHT wells.



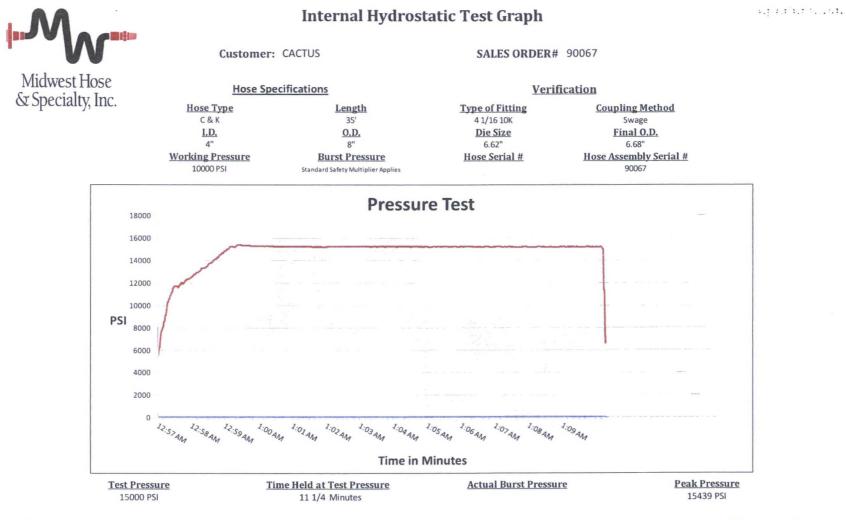
Do you need help on this product? - Remember no one knows VAM[®] like VAM uk@vamfieldservice.com canada@vamfieldservice.com china@vamfieldservice.com usa@vamfieldsarvice.com dubal@vamfieldservice.com baku@vamfieldservice.com mexico@vamfieldservice.com nigeria@vamfieldservice.com singapore@vamfieldservice.com brazil@vamfieldservice.com angola@vamfieldservice.com australia@vamfieldservice.com

Over 140 VAM® Specialists available worldwide 24/7 for Rig Site Assistance Other Connection Data Sheets are available at www.vamservices.com

vallourec

Vallourec Group

			Page Date	44-0	
	FLUSHMAX-III			1-Oct-15	
	on Data Sheet		Rev.	N-0	
One Corp			Rev.	IN-0	
1	Make up long		1		
4	Make up loss				
+			Same and the second second		
chrow	m	m	ingen		
		+			
			/		
Pin critic	al area		Box critical are	22	
			Bux critical are	a	
Pipe Body	Imperia	al	<u>S.I.</u>		
Grade	P110		P110		
Pipe OD (D)	7 5/8	in	193.68	mm	
Weight	29.7	Ib/ft	44.25	kġ/m	
Actual weight	29.0	Ib/ft	43.26	kg/m	
Wall thickness (t) Pipe ID (d)	0.375	in	9.53	mm	
Pipe body cross section	8.537	in ²	5,508		
Drift Dia.	6,750	in	171.45	mm ²	
Drift Dia.	0.750	1 11 1	171.45	11111	
Connection					
Box OD (W)	7.625	in	193.68	mm	
PIN ID	6.875	in	174.63	mm	
Pin critical area	4.420	in ²	2,852	mm ²	
Box critical area	4.424	in ²	2,854	mm ²	
Joint load efficiency	60	%	60	%	
Make up loss	3.040	in	77.22	mm	
Thread taper	1		in per ft)		
Number of threads		5 thread	l per in.		
Contraction De la					
Connection Performance Tensile Yield load	563.4	king	2.506	kN	
M.I.Y.P.	7,574	kips psi	52.2	MPa	
Collapse strength	5,350	psi	36.9	MPa	
Note	0,000	par	00.0	in a	
M.I.Y.P. = Minimum Inter	nal Yield Press	ure of the	e connection		
Torque Recommended					
Min.	8,700	ft-lb	11,700	N-m	
Opti.	9,700	ft-lb	13,100	N-m	
	10,700	ft-lb	14,500	N-m	
Max. Operational Max.	23.600	ft-lb	32,000	N-m	



Comments: Hose assembly pressure tested with water at ambient temperature.

Tested By: Bobby Fink

Soply ZC

Approved By: Mendi Jackson

× Mendi Jackson

Manufacturer: Midwest Hose & Specialty

Serial Number: SN#90067

Length: 35'

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v

Size: OD = 8" ID = 4"

Ends: Flanges Size: 4-1/16"

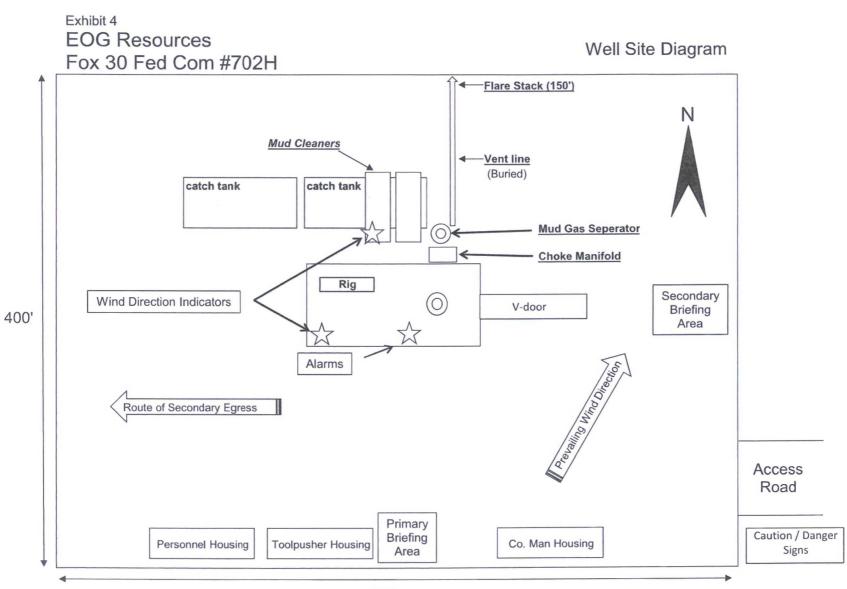
WP Rating: 10,000 psi Anchors required by manfacturer: No

MIDWEST

0

HOSE AND SPECIALTY INC.

INTERNAL HYDROSTATIC TEST REPORT								
Custome	Customer:			P.O. Number:				
CACTUS				RIG #123				
				Asset # N	110761			
	HOSE SPECIFICATIONS							
Type: CHOKE LINE				Length:	35'			
I.D.	4"	INCHES	0.D.	8"	INCHES			
WORKING	PRESSURE	TEST PRESSUR	E	BURST PRESSURE				
10,000	PSI	15,000	PSI		PS			
		COUP	LINGS		estimation of the state of the			
Type of End Fitting								
	4 1/16 10K F	LANGE						
Type of C	Type of Coupling: MANUFACTURED BY							
	SWEDGED		MIDWEST HOSE & SPECIALTY					
PROCEDURE								
Hose assembly pressure tested with water at ambient temperature. TIME HELD AT TEST PRESSURE ACTUAL BURST PRESSURE:								
	1	MIN.			0 PSI			
COMMEN	rs:							
SN#90067 M10761								
Hose is covered with stainless steel armour cover and								
wraped with fire resistant vermiculite coated fiberglass								
insulation rated for 1500 degrees complete with lifting eyes								
Date:		Tested By:		Approved:				
	6/6/2011	BOBBY FINK		MENDI J	ACKSON			
				1				



455'

Fox 30 Fed Com #702H

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