

**Operator Name:** DEVON ENERGY PRODUCTION COMPANY LP

**Well Name:** THISTLE UNIT

**Well Number:** 153H

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## Section 2 - Blowout Prevention

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**Pressure Rating (PSI):** 3M

**Rating Depth:** 9665

**Equipment:** 3M rotating head, mud-gas separator, panic line, and flare will be rigged up prior to drilling out surface casing.

**Requesting Variance?** YES

**Variance request:** A variance is requested for the use of a flexible choke line from the BOP stack to the choke manifold. See attached for specs for hydrostatic test chart.

**Testing Procedure:** A multibowl wellhead may be 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.

**Choke Diagram Attachment:**

Thistle Unit 153H\_Choke\_BOP Equipment\_3M\_09-06-2016.pdf

**BOP Diagram Attachment:**

Thistle Unit 153H\_Choke\_BOP Equipment\_3M\_09-06-2016.pdf

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**Pressure Rating (PSI):** 3M

**Rating Depth:** 5100

**Equipment:** 3M rotating head, mud-gas separator, panic line, and flare will be rigged up prior to drilling out surface casing.

**Requesting Variance?** YES

**Variance request:** A variance is requested for the use of a flexible choke line from the BOP stack to the choke manifold. See attached for specs for hydrostatic test chart.

**Testing Procedure:** A multibowl wellhead may be 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.

**Choke Diagram Attachment:**

Thistle Unit 153H\_Choke\_BOP Equipment\_3M\_09-06-2016.pdf

**BOP Diagram Attachment:**

Thistle Unit 153H\_Choke\_BOP Equipment\_3M\_09-06-2016.pdf

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## Section 3 - Casing

---

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: THISTLE UNIT

Well Number: 153H

String Type: INTERMEDIATE

Other String Type:

*\* See COA: Casing must be kept 1/3 fluid filled*

Hole Size: 12.25

Top setting depth MD: 0

Top setting depth TVD: 0

~~Top setting depth MSL: 366~~

Bottom setting depth MD: ~~5400~~ 4300

Bottom setting depth TVD: ~~5400~~ 4300

~~Bottom setting depth MSL: 1430~~

Calculated casing length MD: ~~5400~~ 4300

Casing Size: 9.625

Other Size

Grade: J-55

Other Grade:

Weight: 40

Joint Type: OTHER

Other Joint Type: btc

Condition: NEW

Inspection Document:

Standard: API

Spec Document:

Tapered String?: N

Tapered String Spec:

### Safety Factors

Collapse Design Safety Factor: 1.15

Burst Design Safety Factor: 1.77

Joint Tensile Design Safety Factor type: BUOYANT

Joint Tensile Design Safety Factor: 3.98

Body Tensile Design Safety Factor type: BUOYANT

Body Tensile Design Safety Factor: 3.98

Casing Design Assumptions and Worksheet(s):

Thistle Unit 153H\_Intermediate Casing Assumptions\_09-06-2016.docx

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: THISTLE UNIT

Well Number: 153H

String Type: SURFACE

Other String Type:

Hole Size: 17.5

Top setting depth MD: 0

Top setting depth TVD: 0

Top setting depth TVD: 0

Bottom setting depth MD: 1400

Bottom setting depth TVD: 1400

Bottom setting depth TVD: 1400

Calculated casing length MD: 1400

Casing Size: 13.375

Other Size:

Grade: H-40

Other Grade:

Weight: 48

Joint Type: STC

Other Joint Type:

Condition: NEW

Inspection Document:

Standard: API

Spec Document:

Tapered String?: N

Tapered String Spec:

### Safety Factors

Collapse Design Safety Factor: 1.18

Burst Design Safety Factor: 2.64

Joint Tensile Design Safety Factor type: BUOYANT

Joint Tensile Design Safety Factor: 8.05

Body Tensile Design Safety Factor type: BUOYANT

Body Tensile Design Safety Factor: 8.05

Casing Design Assumptions and Worksheet(s):

Thistle Unit 153H\_Surface Casing Assumptions\_09-06-2016.docx

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: THISTLE UNIT

Well Number: 153H

String Type: INTERMEDIATE

Other String Type:

Hole Size: 12.25

Top setting depth MD: 4300

Top setting depth TVD: 4300

Bottom setting depth MD: 5100

Bottom setting depth TVD: 5100

Calculated casing length MD: 800

Casing Size: 9.625

Other Size

Grade: HCK-55

Other Grade:

Weight: 40

Joint Type: OTHER

Other Joint Type: btc

Condition: NEW

Inspection Document:

Standard: API

Spec Document:

Tapered String?: N

Tapered String Spec:

### Safety Factors

Collapse Design Safety Factor: 1.58

Burst Design Safety Factor: 1.47

Joint Tensile Design Safety Factor type: BUOYANT

Joint Tensile Design Safety Factor: 4.5

Body Tensile Design Safety Factor type: BUOYANT

Body Tensile Design Safety Factor: 4.5

Casing Design Assumptions and Worksheet(s):

Thistle Unit 153H\_Intermediate Casing Assumptions\_09-06-2016.docx

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: THISTLE UNIT

Well Number: 153H

String Type: PRODUCTION

Other String Type:

Hole Size: 8.75

Top setting depth MD: 0

Top setting depth TVD: 0

~~Top setting depth MSL: 366~~

Bottom setting depth MD: 19326

Bottom setting depth TVD: 9665

~~Bottom setting depth MSL: 3600~~

Calculated casing length MD: 19326

Casing Size: 5.5

Other Size

Grade: P-110

Other Grade:

Weight: 17

Joint Type: OTHER

Other Joint Type: btc

Condition: NEW

Inspection Document:

Standard: API

Spec Document:

Tapered String?: N

Tapered String Spec:

### Safety Factors

Collapse Design Safety Factor: 1.56

Burst Design Safety Factor: 1.93

Joint Tensile Design Safety Factor type: BUOYANT

Joint Tensile Design Safety Factor: 2.09

Body Tensile Design Safety Factor type: BUOYANT

Body Tensile Design Safety Factor: 2.09

Casing Design Assumptions and Worksheet(s):

Thistle Unit 153H\_Production Casing Assumptions\_09-06-2016.docx

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## Section 4 - Cement



Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: THISTLE UNIT

Well Number: 153H

Casing String Type: SURFACE

Stage Tool Depth: 300

Lead

Top MD of Segment: 0	Bottom MD Segment: 300	Cement Type: C
Additives: N/A	Quantity (sks): 185	Yield (cu.ff./sk): 1.72
Density: 13.5	Volume (cu.ft.): 312	Percent Excess: 50

Tail

Top MD of Segment: 300	Bottom MD Segment: 1400	Cement Type: C
Additives: N/A	Quantity (sks): 865	Yield (cu.ff./sk): 1.33
Density: 14.8	Volume (cu.ft.): 1146	Percent Excess: 50

Stage Tool Depth: 300

Lead

Top MD of Segment: 0	Bottom MD Segment: 300	Cement Type: C
Additives: N/A	Quantity (sks): 235	Yield (cu.ff./sk): 1.33
Density: 14.8	Volume (cu.ft.): 312	Percent Excess: 50

Stage Tool Depth:

Lead

Top MD of Segment: 0	Bottom MD Segment: 1400	Cement Type: C
Additives: 1% Calcium Chloride	Quantity (sks): 1090	Yield (cu.ff./sk): 1.34
Density: 14.8	Volume (cu.ft.): 1458	Percent Excess: 50

Casing String Type: INTERMEDIATE

\* See COA Additional cement maybe Required

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: THISTLE UNIT

Well Number: 153H

Stage Tool Depth:

Lead

Top MD of Segment: 0	Bottom MD Segment: 4100	Cement Type: C
Additives: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sks Poly-E-Flake	Quantity (sks): 905	Yield (cu.ff./sk): 1.85
Density: 12.9	Volume (cu.ft.): 1669	Percent Excess: 30

Bottom MD Segment: 5100	Cement Type: H	
Top MD of Segment: 4100	Quantity (sks): 320	Yield (cu.ff./sk): 1.33
Additives: 0.125 lbs/sks Poly-R-Flake	Volume (cu.ft.): 426	Percent Excess: 30
Density: 14.8		

Casing String Type: PRODUCTION

Stage Tool Depth: 5500

Lead

Top MD of Segment: 4800	Bottom MD Segment: 4900	Cement Type: C
Additives: Enhancer 923 + 10% BWOC Bentonite + 0.05% BWOC SA-1015 + 0.3% BWOC HR-800 + 0.2% BWOC	Quantity (sks): 20	Yield (cu.ff./sk): 3.31
FE-2 + 0.125 lb/sk Pol-E-Flake + 0.5 lb/sk D-Air 5000	Volume (cu.ft.): 66	Percent Excess: 25

Density: 10.9	Bottom MD Segment: 5000	Cement Type: H
	Quantity (sks): 30	Yield (cu.ff./sk): 1.33
Top MD of Segment: 4900	Volume (cu.ft.): 39	Percent Excess: 25

Additives: 0.125 lbs/sack Poly-E-Flake

Density: 14.8

Stage Tool Depth:

Lead

Top MD of Segment: 4900	Bottom MD Segment: 9500	Cement Type: H
Additives: Poz (Fly Ash) + 0.3% BWOC HR-601 + 10% bwoc Bentonite	Quantity (sks): 580	Yield (cu.ff./sk): 2.31
Density: 11.9	Volume (cu.ft.): 1336	Percent Excess: 25

Tail

Top MD of Segment: 9500	Bottom MD Segment: 19326	Cement Type: H
Additives: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC HR-601 + 2% bwoc Bentonite	Quantity (sks): 2380	Yield (cu.ff./sk): 1.2
Density: 14.5	Volume (cu.ft.): 2854	Percent Excess: 25

2nd  
stage  
DV  
Tool

Single  
stage  
Cement  
Program

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: THISTLE UNIT

Well Number: 153H

Stage Tool Depth: 5500

Lead

Top MD of Segment: 5000

Bottom MD Segment: 9500

Cement Type: C

Additives: Enhancer 923 + 10% BWOC Quantity (sks): 405

Yield (cu.ff./sk): 3.31

Bentonite + 0.05% BWOC SA-1015 +

0.3% BWOC HR-800 + 0.2% BWOC

Volume (cu.ft.): 1336

Percent Excess: 25

FE-2 + 0.125 lb/sk Pol-E-Flake + 0.5

lb/sk D-Air 5000

Density: 10.9

Bottom MD Segment: 19326

Cement Type: H

Quantity (sks): 2380

Yield (cu.ff./sk): 1.2

Top MD of Segment: 9500

Volume (cu.ft.): 2854

Percent Excess: 25

Additives: Poz (Fly Ash) + 0.5% bwoc

HALAD-344 + 0.4% bwoc CFR-3 +

0.2% BWOC HR-601 + 2% bwoc

Bentonite

Density: 14.5

1st  
Stage  
DV  
Tool

## Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

Describe what will be on location to control well or mitigate other conditions: Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

Describe the mud monitoring system utilized: PVT/Pason/Visual Monitoring

## Circulating Medium Table

Top Depth: 0

Bottom Depth: 1400

Mud Type: WATER-BASED MUD

Min Weight (lbs./gal.): 8.5

Max Weight (lbs./gal.): 9

Density (lbs/cu.ft.):

Gel Strength (lbs/100 sq.ft.):

PH:

Viscosity (CP): 2

Filtration (cc):

Salinity (ppm):

Additional Characteristics:



**Operator Name:** DEVON ENERGY PRODUCTION COMPANY LP

**Well Name:** THISTLE UNIT

**Well Number:** 153H

**Top Depth:** 0

**Bottom Depth:** 5100

**Mud Type:** SALT SATURATED

**Min Weight (lbs./gal.):** 10

**Max Weight (lbs./gal.):** 11

**Density (lbs/cu.ft.):**

**Gel Strength (lbs/100 sq.ft.):**

**PH:**

**Viscosity (CP):** 2

**Filtration (cc):**

**Salinity (ppm):**

**Additional Characteristics:**

---

**Top Depth:** 5100

**Bottom Depth:** 17109

**Mud Type:** WATER-BASED MUD

**Min Weight (lbs./gal.):** 8.5

**Max Weight (lbs./gal.):** 9.3

**Density (lbs/cu.ft.):**

**Gel Strength (lbs/100 sq.ft.):**

**PH:**

**Viscosity (CP):** 12

**Filtration (cc):**

**Salinity (ppm):**

**Additional Characteristics:**

---

## Section 6 - Test, Logging, Coring

**List of production tests including testing procedures, equipment and safety measures:**

Will run GR/CNL from TD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.

**List of open and cased hole logs run in the well:**

GR

**Coring operation description for the well:**

N/A

## Section 7 - Pressure

**Anticipated Bottom Hole Pressure:** 4223

**Anticipated Surface Pressure:** 2096.69

**Anticipated Bottom Hole Temperature(F):** 150

**Anticipated abnormal pressures, temperatures, or potential geologic hazards?** NO

**Describe:**

**Contingency Plans geohazards description:**

**Contingency Plans geohazards attachment:**

**Operator Name:** DEVON ENERGY PRODUCTION COMPANY LP

**Well Name:** THISTLE UNIT

**Well Number:** 153H

**Hydrogen Sulfide drilling operations plan required? YES**

**Hydrogen sulfide drilling operations plan:**

Thistle Unit 153H\_H2S Plan\_09-07-2016.pdf

## **Section 8 - Other Information**

**Proposed horizontal/directional/multi-lateral plan submission:**

Thistle Unit 153H\_Directional Plan\_09-07-2016.pdf

**Other proposed operations facets description:**

Multi-Bowl Verbiage

Multi-Bowl Wellhead

Closed-Loop Design Plan

Anti-Collision Plan

**Other proposed operations facets attachment:**

Thistle Unit 153H\_Multi-Bowl Verbiage\_3M\_09-07-2016.pdf

Thistle Unit 153H\_Multi-Bowl Wellhead\_09-07-2016.pdf

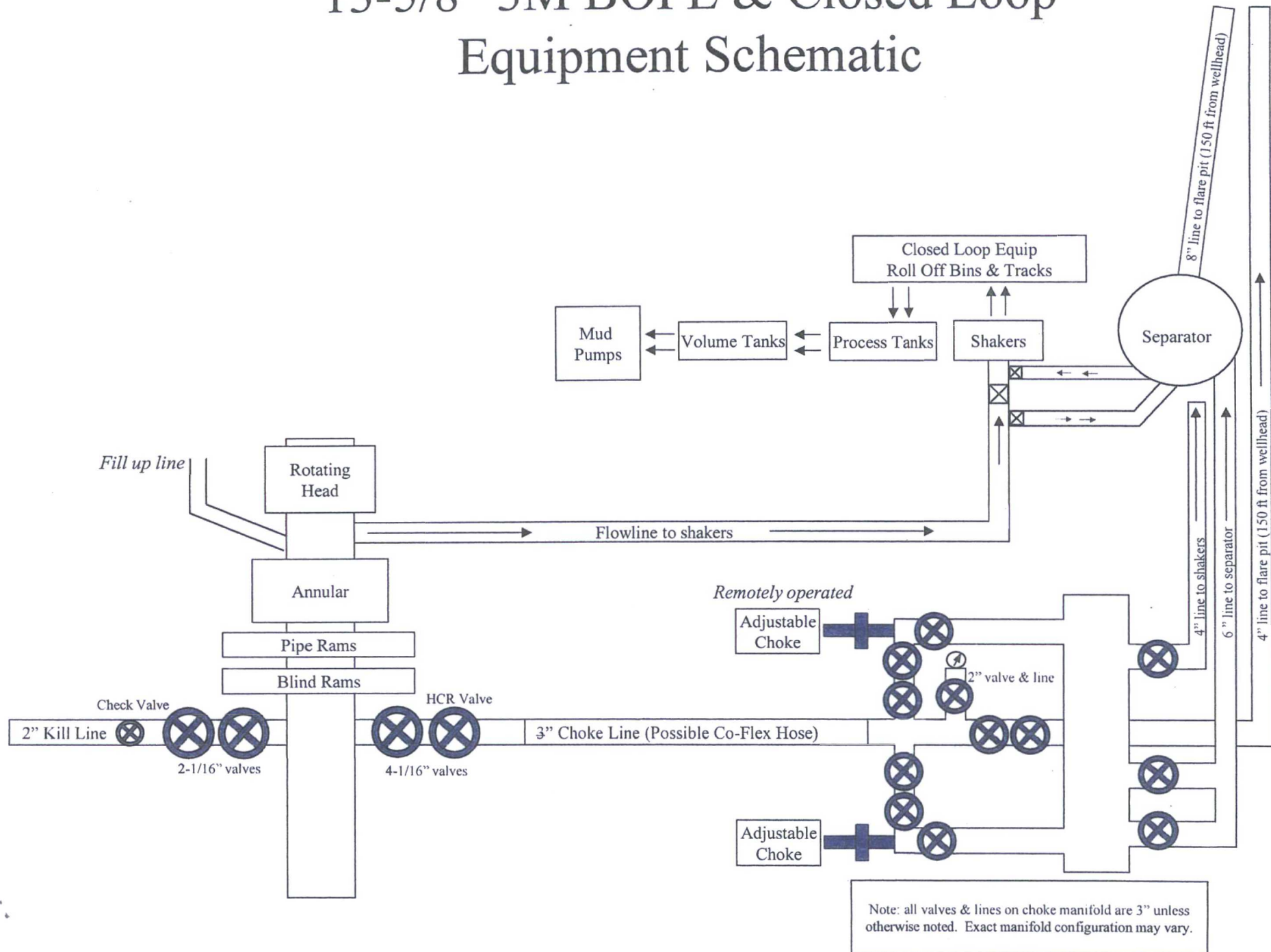
Thistle Unit 153H\_Closed Loop Design Plan\_09-07-2016.pdf

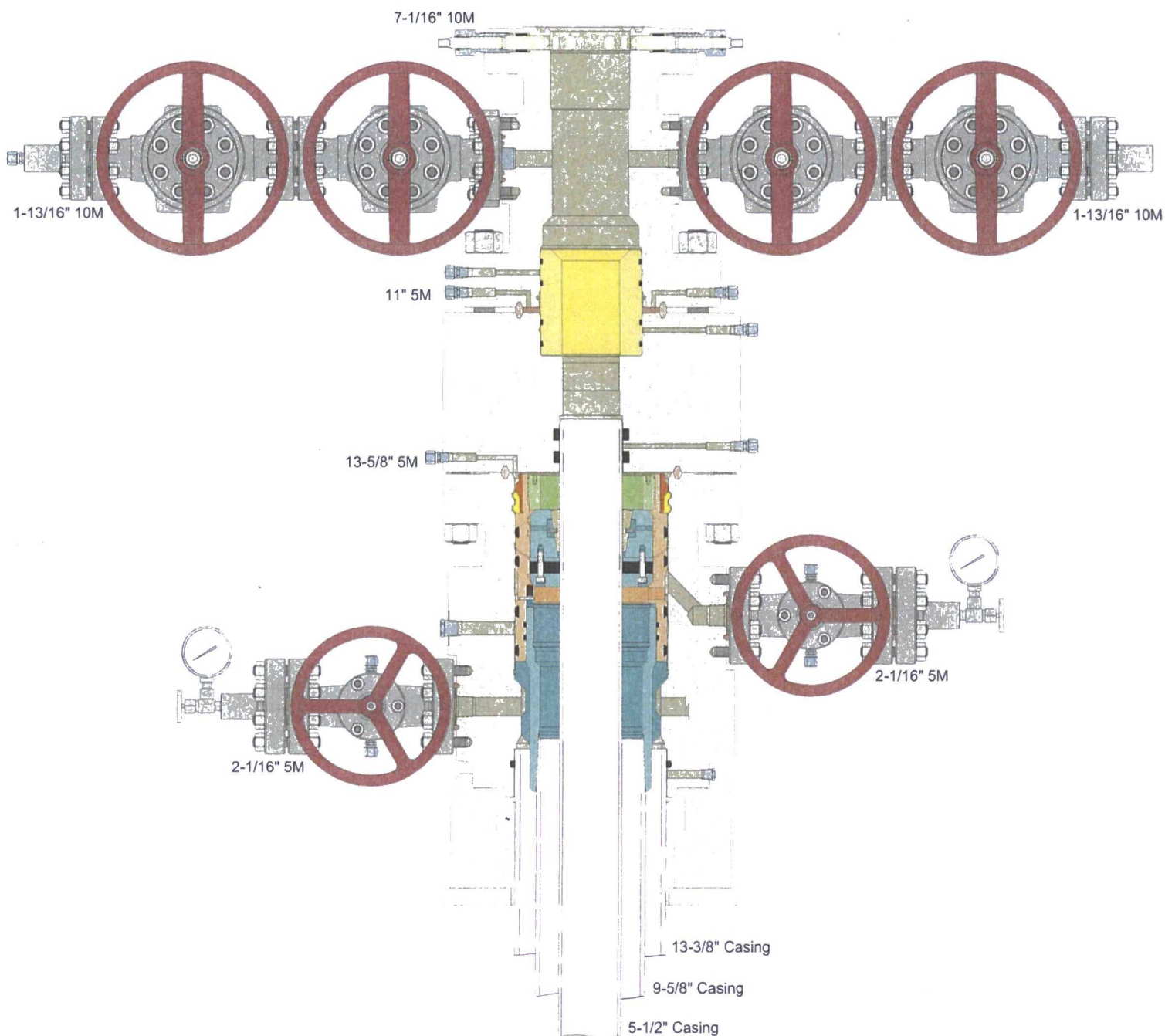
Thistle Unit 153H\_AC Report\_09-15-2016.pdf

**Other Variance attachment:**

Thistle Unit 153H\_H\_P Co-flex hose\_09-07-2016.pdf

# 13-5/8" 3M BOPE & Closed Loop Equipment Schematic







A multibowl wellhead may be 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.

Devon proposes using a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 3000 (3M) psi.

- Wellhead will be installed by wellhead representatives.
- If the welding is performed by a third party, the wellhead representative will monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- Wellhead representative will install the test plug for the initial BOP test.
- Wellhead company will install a solid steel body pack-off to completely isolate the lower head after cementing intermediate casing. After installation of the pack-off, the pack-off and the lower flange will be tested to 3M, as shown on the attached schematic. Everything above the pack-off will not have been altered whatsoever from the initial nipple up. Therefore the BOP components will not be retested at that time.
- If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head will be cut and top out operations will be conducted.
- Devon will pressure test all seals above and below the mandrel (but still above the casing) to full working pressure rating.
- Devon will test the casing to 0.22 psi/ft or 1500 psi, whichever is greater, as per Onshore Order #2.

After running the 13-3/8" surface casing, a 13-5/8" BOP/BOPE system with a minimum rating of 3M will be installed on the wellhead system and will undergo a 250 psi low pressure test followed by a 3,000 psi high pressure test. The 3,000 psi high and 250 psi low test will cover testing requirements a maximum of 30 days, as per Onshore Order #2. If the well is not complete within 30 days of this BOP test, another full BOP test will be conducted, as per Onshore Order #2.

After running the 9-5/8" intermediate casing with a mandrel hanger, the 13-5/8" BOP/BOPE system with a minimum rating of 3M will already be installed on the wellhead.

The pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These tests will be logged in the daily driller's log. A 2" kill line and 3" choke line will be incorporated into the drilling spool below the ram BOP. In addition to the rams and annular preventer, additional BOP accessories include a kelly cock, floor safety valve, choke lines, and choke manifold rated at 3,000 psi WP.

Devon's proposed wellhead manufactures will be FMC Technologies, Cactus Wellhead, or Cameron.



Fluid Technology

ContiTech Beattie Corp.  
Website: [www.contitechbeattie.com](http://www.contitechbeattie.com)

Monday, June 14, 2010

RE: Drilling & Production Hoses  
Lifting & Safety Equipment

To Helmerich & Payne,

A Continental ContiTech hose assembly can perform as intended and suitable for the application regardless of whether the hose is secured or unsecured in its configuration. As a manufacturer of High Pressure Hose Assemblies for use in Drilling & Production, we do offer the corresponding lifting and safety equipment, this has the added benefit of easing the lifting and handling of each hose assembly whilst affording hose longevity by ensuring correct handling methods and procedures as well as securing the hose in the unlikely event of a failure; but in no way does the lifting and safety equipment affect the performance of the hoses providing the hoses have been handled and installed correctly. It is good practice to use lifting & safety equipment but not mandatory.

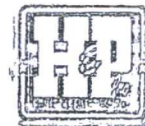
Should you have any questions or require any additional information/clarifications then please do not hesitate to contact us.

ContiTech Beattie is part of the Continental AG Corporation and can offer the full support resources associated with a global organization.

Best regards,

Robin Hodgson  
Sales Manager  
ContiTech Beattie Corp

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## Casing Assumptions and Load Cases

## Surface

All casing design assumptions were ran in Stress Check to determine safety factor which meet or exceed both Devon Energy and BLM minimum requirements. All casing strings will be filled while running in hole in order to not exceed collapse rating of the pipe.

Surface Casing Burst Design		
Load Case	External Pressure	Internal Pressure
Pressure Test	Formation Pore Pressure	Max mud weight of next hole-section plus Test psi
Drill Ahead	Formation Pore Pressure	Max mud weight of next hole section
Displace to Gas	Formation Pore Pressure	Dry gas from next casing point

Surface Casing Collapse Design		
Load Case	External Pressure	Internal Pressure
Full Evacuation	Water gradient in cement, mud above TOC	None
Cementing	Wet cement weight	Water (8.33ppg)

Surface Casing Tension Design	
Load Case	Assumptions
Overpull	100kips
Runing in hole	3 ft/s
Service Loads	N/A

## Casing Assumptions and Load Cases

## Intermediate

All casing design assumptions were ran in Stress Check to determine safety factor which meet or exceed both Devon Energy and BLM minimum requirements. All casing strings will be filled while running in hole in order to not exceed collapse rating of the pipe.

Intermediate Casing Burst Design		
Load Case	External Pressure	Internal Pressure
Pressure Test	Formation Pore Pressure	Max mud weight of next hole-section plus Test psi
Drill Ahead	Formation Pore Pressure	Max mud weight of next hole section
Fracture @ Shoe	Formation Pore Pressure	Dry gas

Intermediate Casing Collapse Design		
Load Case	External Pressure	Internal Pressure
Full Evacuation	Water gradient in cement, mud above TOC	None
Cementing	Wet cement weight	Water (8.33ppg)

Intermediate Casing Tension Design	
Load Case	Assumptions
Overpull	100kips
Runing in hole	2 ft/s
Service Loads	N/A



## Casing Assumptions and Load Cases

## Production

All casing design assumptions were ran in Stress Check to determine safety factor which meet or exceed both Devon Energy and BLM minimum requirements. All casing strings will be filled while running in hole in order to not exceed collapse rating of the pipe.

Production Casing Burst Design		
Load Case	External Pressure	Internal Pressure
Pressure Test	Formation Pore Pressure	Fluid in hole (water or produced water) + test psi
Tubing Leak	Formation Pore Pressure	Packer @ KOP, leak below surface 8.6 ppg packer fluid
Stimulation	Formation Pore Pressure	Max frac pressure with heaviest frac fluid

Production Casing Collapse Design		
Load Case	External Pressure	Internal Pressure
Full Evacuation	Water gradient in cement, mud above TOC.	None
Cementing	Wet cement weight	Water (8.33ppg)

Production Casing Tension Design	
Load Case	Assumptions
Overpull	100kips
Runing in hole	2 ft/s
Service Loads	N/A

RIG 212



## QUALITY DOCUMENT

**PHOENIX RUBBER  
INDUSTRIAL LTD.**

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 Phone: (361) 456-4200 • Fax: (361) 217-2972, 456-4273 • www.taurusemerge.hu

QUALITY CONTROL INSPECTION AND TEST CERTIFICATE				CERT. N°: 552	
PURCHASER: Phoenix Beattie Co.			P.O. N°: 1519FA-871		
PHOENIX RUBBER order N°: 170466		HOSE TYPE: 3" ID Choke and Kill Hose			
HOSE SERIAL N°: 34128		NOMINAL / ACTUAL LENGTH: 11,43 m			
W.P. 68,96 MPa 10000 psi		T.P. 103,4 MPa 15000 psi		Duration: 60 min.	
Pressure test with water at ambient temperature  <div style="text-align: center;">See attachment. (1 page)</div>					
↑ 10 mm = 10 Min. → 10 mm = 25 MPa					
COUPLINGS					
Type	Serial N°	Quality	Heat N°		
3" coupling with 4 1/16" Flange end	720 719	AISI 4130	C7626		
		AISI 4130	47357		
API Spec 16 C 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 AND PRESSURE TESTED AS ABOVE WITH SATISFACTORY RESULT.					
Date:	Inspector	Quality Control			
29. April. 2002.		PHOENIX RUBBER Industrial Ltd. <i>Handwritten signature</i> Hose Inspection and PHOENIX RUBBER G.C.			

40920-0-00015 N800C 14094-66

8	GNL	+0.000	PC	14:00			
	RDL	+0.000	PC	14:00			
	BL	+0.000	PC	14:00			
7	GNL	+0.000	PC	13:40	40	60	80
	RDL	+0.000	PC	13:40			
	BL	+0.000	PC	13:40			
6	GNL	+0.000	PC	13:20			
	RDL	+0.000	PC	13:20			
	BL	+0.000	PC	13:20			
5	GNL	+0.000	PC	13:00			
	RDL	+0.000	PC	13:00			
	BL	+0.000	PC	13:00			
4							
3							
2							

*[Signature]*  
**PHOENIX RUBBER**  
 Industrial Ltd.  
 Hose Inspection and  
 Certification Dept.

VERIFIED TRUE CO.  
 PHOENIX RUBBER CO.