Carlsbad Field Office OCD OCD Hobbs

Form 3160 - 3 (March 2012)

UNITED STATES DEPARTMENT OF THE INTERIOR CEIVED

FORM APPROVED OMB No. 1004-0137 Expires October 31, 2014

5. Lease Serial No.

BUREAU OF LAND MANAGEMENT

NMNM114988

APPLICATION FOR PERMIT TO DRI	6. If Indian, Allotee	or Tribe Name		
la. Type of work: DRILL REENTER	7. If Unit or CA Agree	ement, Name and No.		
lb. Type of Well: Oil Well Gas Well Other	Single Zone Multip	ole Zone	8. Lease Name and V SEAWOLF 1-12 FE	Vell No. 3/7671
2. Name of Operator DEVON ENERGY PRODUCTION COMPA	NY LP		9. API Well No.	43790
000 144 1 01 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Phone No. (include area code) 05)552-6571	9	10. Field and Pool, or E	100
4. Location of Well (Report location clearly and in accordance with any State At surface NENE / 170 FNL / 750 FEL / LAT 32.0792675 / Lt At proposed prod. zone SESE / 330 FSL / 882 FEL / LAT 32.05	ONG -103.5199529	1	11. Sec., T. R. M. or Bl SEC 1 / T26S / R33	
14. Distance in miles and direction from nearest town or post office*			12. County or Parish LEA	13. State NM
location to negrest 170 foot	No. of acres in lease	17. Spacing 320	Unit dedicated to this v	vell
to nearest well, drilling, completed, 380 feet	Proposed Depth 2828 feet / 22673 feet	20. BLM/B FED: CC	/BIA Bond No. on file	
	22. Approximate date work will start* 10/31/2017		23. Estimated duration 45 days	
24	4. Attachments			
The following, completed in accordance with the requirements of Onshore Oil 1. Well plat certified by a registered surveyor. 2. A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest System Land SUPO must be filed with the appropriate Forest Service Office).	4. Bond to cover the Item 20 above). 5. Operator certification.	he operation	is unless covered by an	existing bond on file (see
Signature Name (Printed/Typed) (Electronic Submission) Rebecca Deal / Ph: (405)228-842				Date 11/16/2016
Title Regulatory Compliance Professional				
pproved by (Signature) (Electronic Submission) Name (Printed/Typed) Cody Layton / Ph: (575)234-5959				Date 04/17/2017
Office Supervisor Multiple Resources HOBBS				
Application approval does not warrant or certify that the applicant holds leg conduct operations thereon. Conditions of approval, if any, are attached.	alor equitable title to those right	ts in the subj	ect lease which would e	ntitle the applicant to
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime States any false, fictitious or fraudulent statements or representations as to any	for any person knowingly and w y matter within its jurisdiction.	villfully to ma	ake to any department o	r agency of the United
(Continued on page 2)		ONG		ructions on page 2)

APPROVED WITH CONDITIONS FIRST + LAST TAKE
POINT NOT INDICATED
ON C-102. REQUIRES
OS OS OS L



U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

merator Certification Data Report 04/24/2017

Operator Certification

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

NAME: Rebecca Deal Signed on: 11/15/2016

Title: Regulatory Compliance Professional

Street Address: 333 West Sheridan Avenue

City: Oklahoma City State: OK Zip: 73102

Phone: (405)228-8429

Email address: Rebecca.Deal@dvn.com

Field Representative

Representative Name:		
Street Address:		
City:	State:	Zip:
Phone:		
Email address:		



U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

Application Data Report

APD ID: 10400007953 Submission Date: 11/16/2016

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: SEAWOLF 1-12 FED

Well Number: 95H

Well Type: OIL WELL Well Work Type: Drill

Section 1 - General

10400007953 APD ID:

Tie to previous NOS?

Submission Date: 11/16/2016

BLM Office: HOBBS

User: Rebecca Deal

Title: Regulatory Compliance

Federal/Indian APD: FED

Professional Is the first lease penetrated for production Federal or Indian? FED

Lease number: NMNM114988

Lease Acres: 1280

Surface access agreement in place?

Allotted?

Reservation:

Agreement in place? NO

Federal or Indian agreement:

Agreement number:

Agreement name:

Keep application confidential? YES

Permitting Agent? NO

APD Operator: DEVON ENERGY PRODUCTION COMPANY LP

Operator letter of designation:

Keep application confidential? YES

Operator Info

Operator Organization Name: DEVON ENERGY PRODUCTION COMPANY LP

Operator Address: 333 West Sheridan Avenue

Zip: 73102

Operator PO Box:

Operator City: Oklahoma City

State: OK

Operator Phone: (405)552-6571

Operator Internet Address: aletha.dewbre@dvn.com

Section 2 - Well Information

Well in Master Development Plan? NO

Mater Development Plan name:

Well in Master SUPO? NO

Master SUPO name:

Well in Master Drilling Plan? NO

Master Drilling Plan name:

Well Name: SEAWOLF 1-12 FED

Well Number: 95H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: WC-025 G-09

Pool Name: UPPER WOLFCAMP

S253336D

Page 1 of 4

Well Name: SEAWOLF 1-12 FED Well Number: 95H

Is the proposed well in an area containing other mineral resources? NATURAL GAS,OIL

Describe other minerals:

Is the proposed well in a Helium production area? N Use Existing Well Pad? NO

New surface disturbance?

Type of Well Pad: MULTIPLE WELL

Multiple Well Pad Name: SEAWOLF 1-12 FED

Number of Legs:

Number: 85H, 86H, 94H, 95H

Well Class: HORIZONTAL

Well Work Type: Drill Well Type: OIL WELL Describe Well Type:

Well sub-Type: INFILL

Describe sub-type: Distance to town:

Distance to nearest well: 380 FT

Distance to lease line: 170 FT

Reservoir well spacing assigned acres Measurement: 320 Acres

Well plat:

SEAWOLF 1-12 FED 95H C-102 Signed 11-14-2016.pdf

Well work start Date: 10/31/2017

Duration: 45 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Vertical Datum: NAVD88

Survey number: 4933

Datum: NAD83

STATE: NEW MEXICO

Meridian: NEW MEXICO PRINCIPAL County: LEA

Latitude: 32.0792675

Longitude: -103.5199529

SHL

Elevation: 3326

MD: 0

TVD: 0

Leg #: 1

Lease Type: FEDERAL

Lease #: NMNM114988

NS-Foot: 170

NS Indicator: FNL

EW-Foot: 750

EW Indicator: FEL

Twsp: 26S

Range: 33E

Section: 1

Aliquot: NENE

Lot:

Tract:

Well Name: SEAWOLF 1-12 FED

Well Number: 95H

STATE: NEW MEXICO Meridian: NEW MEXICO PRINCIPAL County: LEA

Longitude: -103.5199529 Latitude: 32.0792675

KOP Elevation: -9009 MD: 12335 TVD: 12335

Leg #: 1 Lease Type: FEDERAL Lease #: NMNM114988

NS-Foot: 170 NS Indicator: FNL **EW-Foot**: 750 EW Indicator: FEL

Twsp: 26S Range: 33E Section: 1

Aliquot: NENE Tract: Lot:

STATE: NEW MEXICO Meridian: NEW MEXICO PRINCIPAL County: LEA

Latitude: 32.0792675 Longitude: -103.5199529

PPP Elevation: -9366 MD: 12738 TVD: 12692

Leg #: 1 Lease Type: FEDERAL Lease #: NMNM114988

> NS-Foot: 330 NS Indicator: FNL EW-Foot: 750 EW Indicator: FEL

Range: 33E Twsp: 26S Section: 1

Aliquot: NENE Tract: Lot:

STATE: NEW MEXICO Meridian: NEW MEXICO PRINCIPAL County: LEA

Latitude: 32.051602 Longitude: -103.5203811

EXIT Elevation: -9502 MD: 22673 TVD: 12828

Leg #: 1 Lease Type: FEDERAL Lease #: NMNM114988

NS-Foot: 330 NS Indicator: FSL **EW-Foot**: 882 EW Indicator: FEL

> Twsp: 26S Range: 33E Section: 12

Aliquot: SESE Lot: Tract:

STATE: NEW MEXICO Meridian: NEW MEXICO PRINCIPAL County: LEA

Latitude: 32.051602 Longitude: -103.5203811

BHL Elevation: -9502 MD: 22673 TVD: 12828

Leg #: 1 Lease Type: FEDERAL Lease #: NMNM114988

NS-Foot: 330 NS Indicator: FSL

> EW-Foot: 882 EW Indicator: FEL

Well Name: SEAWOLF 1-12 FED

Well Number: 95H

Twsp: 26S

Range: 33E

Section: 12

Aliquot: SESE

Lot:

Tract:



U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

Drilling Plan Data Report

Submission Date: 11/16/2016

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: SEAWOLF 1-12 FED

Well Number: 95H

Well Type: OIL WELL

APD ID: 10400007953

Well Work Type: Drill

Section 1 - Geologic Formations

ID: Surface formation

Name: UNKNOWN

Lithology(ies):

OTHER - Surface

Elevation: 9643

True Vertical Depth: 0

Measured Depth: 0

Mineral Resource(s):

NONE

Is this a producing formation? N

ID: Formation 1

Name: RUSTLER

Lithology(ies):

ANHYDRITE

Elevation: 8723

True Vertical Depth: 920

Measured Depth: 920

Mineral Resource(s):

NONE

Is this a producing formation? N

ID: Formation 2

Name: TOP OF SALT

Lithology(ies):

SALT

Elevation: 8358

True Vertical Depth: 1285

Measured Depth: 1285

Mineral Resource(s):

NONE

Is this a producing formation? N

Well Name: SEAWOLF 1-12 FED

Well Number: 95H

ID: Formation 3

Name: BASE OF SALT

Lithology(ies):

SALT

Elevation: 4688

True Vertical Depth: 4955

Measured Depth: 4955

Mineral Resource(s):

NONE

Is this a producing formation? N

ID: Formation 4

Name: DELAWARE

Lithology(ies):

SANDSTONE

Elevation: 4478

True Vertical Depth: 5165

Measured Depth: 5165

Mineral Resource(s):

NATURAL GAS

OIL

Is this a producing formation? N

ID: Formation 5

Name: BRUSHY CANYON LOWER

Lithology(ies):

SANDSTONE

Elevation: 398

True Vertical Depth: 9245

Measured Depth: 9245

Mineral Resource(s):

NATURAL GAS

OIL

Is this a producing formation? N

ID: Formation 6

Name: BONE SPRING LIME

Lithology(ies):

LIMESTONE

Elevation: 248

True Vertical Depth: 9395

Measured Depth: 9395

Well Name: SEAWOLF 1-12 FED

Well Number: 95H

Mineral Resource(s):

NATURAL GAS

OIL

Is this a producing formation? N

ID: Formation 7

Name: BONE SPRING 1ST

Lithology(ies):

SANDSTONE

Elevation: -687

True Vertical Depth: 10330

Measured Depth: 10330

Mineral Resource(s):

NATURAL GAS

OIL

Is this a producing formation? N

ID: Formation 8

Name: BONE SPRING LIME

Lithology(ies):

LIMESTONE

Elevation: -947

True Vertical Depth: 10590

Measured Depth: 10590

Mineral Resource(s):

NATURAL GAS

OIL

Is this a producing formation? N

ID: Formation 9

Name: BONE SPRING 2ND

Lithology(ies):

SANDSTONE

Elevation: -1317

True Vertical Depth: 10960

Measured Depth: 10960

Mineral Resource(s):

NATURAL GAS

OIL

Is this a producing formation? N

Well Name: SEAWOLF 1-12 FED

Well Number: 95H

ID: Formation 10

Name: BONE SPRING 3RD

Lithology(ies):

Elevation: -1737

True Vertical Depth: 11380

Measured Depth: 11380

Mineral Resource(s):

NATURAL GAS

OIL

Is this a producing formation? N

ID: Formation 11

Name: BONE SPRING 3RD

Lithology(ies):

SANDSTONE

Elevation: -2327

True Vertical Depth: 11970

Measured Depth: 11970

Mineral Resource(s):

NATURAL GAS

OIL

Is this a producing formation? N

ID: Formation 12

Name: WOLFCAMP

Lithology(ies):

SHALE

Elevation: -2797

True Vertical Depth: 12440

Measured Depth: 12440

Mineral Resource(s):

NATURAL GAS

OIL

Is this a producing formation? Y

ID: Formation 13

Name: WOLFCAMP

Lithology(ies):

SHALE

Well Name: SEAWOLF 1-12 FED Well Number: 95H

Elevation: -2997

True Vertical Depth: 12640

Measured Depth: 12640

Mineral Resource(s):

NATURAL GAS

OIL

Is this a producing formation? Y

ID: Formation 14

Name: WOLFCAMP

Lithology(ies):

SHALE

Elevation: -3170

True Vertical Depth: 12813

Measured Depth: 12813

Mineral Resource(s):

NATURAL GAS

OIL

Is this a producing formation? Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 12828

Equipment: 5M 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 to Choke Manifold. See attached for specs and 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. 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

Well Name: SEAWOLF 1-12 FED Well Number: 95H

cock, floor safety valve, choke lines, and choke manifold rated at 3,000 psi WP.

Choke Diagram Attachment:

Seawolf 1-12 Fed 95H_5M BOPE_CK_11-15-2016.pdf

BOP Diagram Attachment:

Seawolf 1-12 Fed 95H_5M BOPE_CK_11-15-2016.pdf

Pressure Rating (PSI): 5M

Rating Depth: 12828

Equipment: 5M 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 to Choke Manifold. See attached for specs and 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. 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.

Choke Diagram Attachment:

Seawolf 1-12 Fed 95H_5M BOPE_CK_11-15-2016.pdf

BOP Diagram Attachment:

Seawolf 1-12 Fed 95H_5M BOPE_CK_11-15-2016.pdf

Section 3 - Casing

Well Name: SEAWOLF 1-12 FED

Well Number: 95H

String Type: SURFACE

Other String Type:

Hole Size: 17.5

Top setting depth MD: 0

Top setting depth TVD: 0

Top setting depth MSL: -9502

Bottom setting depth MD: 1000

Bottom setting depth TVD: 1000

Bottom setting depth MSL: -10502 Calculated casing length MD: 1000

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: 1.59

Burst Design Safety Factor: 3.46

Joint Tensile Design Safety Factor type: BUOYANT

Joint Tensile Design Safety Factor: 2.11

Body Tensile Design Safety Factor type: BUOYANT

Body Tensile Design Safety Factor: 2.11

Casing Design Assumptions and Worksheet(s):

SEAWOLF 1-12 FED 95H_Surf Csg Ass_11-15-2016.docx

Well Name: SEAWOLF 1-12 FED

Well Number: 95H

String Type: SURFACE

Other String Type:

Hole Size: 17.5

Top setting depth MD: 0

Top setting depth TVD: 0

Top setting depth MSL: -9502

Bottom setting depth MD: 1000

Bottom setting depth TVD: 1000

Bottom setting depth MSL: -10502 Calculated casing length MD: 1000

Casing Size: 13,375

Other Size

Grade: H-40 J-55

Other Grade:

Weight: 48 54.5

Joint Type: STC BTC

Other Joint Type:

Condition: NEW

Inspection Document:

Standard: API

Spec Document:

Tapered String?: N

Tapered String Spec:

Safety Factors

Collapse Design Safety Factor: 1.59

Burst Design Safety Factor: 3.46

Joint Tensile Design Safety Factor type: BUOYANT

Joint Tensile Design Safety Factor: 2.11

Body Tensile Design Safety Factor type: BUOYANT

Body Tensile Design Safety Factor: 2.11

Casing Design Assumptions and Worksheet(s):

SEAWOLF 1-12 FED 95H_Surf Csg Ass_11-15-2016.docx

Well Name: SEAWOLF 1-12 FED

Well Number: 95H

String Type: INTERMEDIATE

Other String Type:

Hole Size: 12.25

Top setting depth MD: 0

Top setting depth TVD: 0

Top setting depth MSL: -9502

Bottom setting depth MD: 11400

Bottom setting depth TVD: 11400

Bottom setting depth MSL: -20902 Calculated casing length MD: 11400

Casing Size: 9.625

Other Size

Grade: P-110 € C

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: 1.25

Burst Design Safety Factor: 1.59

Joint Tensile Design Safety Factor type: BUOYANT

Joint Tensile Design Safety Factor: 2.58

Body Tensile Design Safety Factor type: BUOYANT

Body Tensile Design Safety Factor: 2.58

Casing Design Assumptions and Worksheet(s):

SEAWOLF 1-12 FED 95H_Int Csg Ass_11-15-2016.docx

Well Name: SEAWOLF 1-12 FED

Well Number: 95H

String Type: INTERMEDIATE

Other String Type:

Hole Size: 12.25

Top setting depth MD: 0

Top setting depth TVD: 0

Top setting depth MSL: -9502

Bottom setting depth MD: 11400

Bottom setting depth TVD: 11400

Bottom setting depth MSL: -20902 Calculated casing length MD: 11400

Casing Size: 9.625

Other Size

Grade: P-110

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: 1.25

Burst Design Safety Factor: 1.59

Joint Tensile Design Safety Factor type: BUOYANT

Joint Tensile Design Safety Factor: 2.58

Body Tensile Design Safety Factor type: BUOYANT

Body Tensile Design Safety Factor: 2.58

Casing Design Assumptions and Worksheet(s):

SEAWOLF 1-12 FED 95H_Int Csg Ass_11-15-2016.docx

Well Name: SEAWOLF 1-12 FED

Well Number: 95H

String Type: PRODUCTION

Other String Type:

Hole Size: 8.75

Top setting depth MD: 0

Top setting depth TVD: 0

Top setting depth MSL: -9502

Bottom setting depth MD: 22673

Bottom setting depth TVD: 12828

Bottom setting depth MSL: -22314 Calculated casing length MD: 22673

Casing Size: 5.5

Other Size

Grade: P-110

Other Grade:

Weight: 20

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: 1.27

Burst Design Safety Factor: 1.26

Joint Tensile Design Safety Factor type: BUOYANT

Joint Tensile Design Safety Factor: 1.83

Body Tensile Design Safety Factor type: BUOYANT

Body Tensile Design Safety Factor: 1.83

Casing Design Assumptions and Worksheet(s):

SEAWOLF 1-12 FED 95H_ProdCsg Ass_11-15-2016.docx

Section 4 - Cement

Casing String Type: SURFACE

Well Name: SEAWOLF 1-12 FED

Well Number: 95H

Stage Tool Depth:

Lead

Top MD of Segment: 0

Bottom MD Segment: 1000

Cement Type: C

Additives: 1% Calcium Chloride

Quantity (sks): 780

Yield (cu.ff./sk): 1.34

Density: 14.8

Volume (cu.ft.): 1042

Percent Excess: 50

Casing String Type: INTERMEDIATE

Stage Tool Depth:

Lead

Top MD of Segment: 0

Bottom MD Segment: 9400

Cement Type: C

Additives: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium

Quantity (sks): 1600

Yield (cu.ff./sk): 2.31

Bentonite + 5% BWOW Sodium
Chloride + 0.125 lbs/sks Poly-E-Flake

Volume (cu.ft.): 3680

Percent Excess: 30

Pensity: 11.9

Bottom MD Segment: 11400

Cement Type: C

Top MD of Segment: 9400

Quantity (sks): 590

Yield (cu.ff./sk): 1.33

Additives: 0.125 lbs/sks Poly-R-Flake

Volume (cu.ft.): 783

Percent Excess: 30

Density: 14.8

Casing String Type: PRODUCTION

Stage Tool Depth:

Lead

Top MD of Segment: 11200

Bottom MD Segment: 12500

Cement Type: C

Bentonite + 0.05% BWOC SA-1015 +

Additives: Enhancer 923 + 10% BWOC Quantity (sks): 361

Yield (cu.ff./sk): 2.31

0.3% BWOC HR-800 + 0.2% BWOC

Volume (cu.ft.): 156

Percent Excess: 25

FE₁2 + 0.125 lb/sk Pol-E-Flake + 0.5 lb/sk D-Air 5000

Density: 11.9

Bottom MD Segment: 22673

Cement Type: H

Quantity (sks): 2827

Yield (cu.ff./sk): 1.2

Top MD of Segment: 12500

Volume (cu.ft.): 2356

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

Well Name: SEAWOLF 1-12 FED Well Number: 95H

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: 1000 Bottom Depth: 11400

Mud Type: OIL-BASED MUD

Min Weight (lbs./gal.): 8.4 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:

Top Depth: 11400 Bottom Depth: 22673

Mud Type: OIL-BASED MUD

Min Weight (lbs./gal.): 10.5 Max Weight (lbs./gal.): 11

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

PH: Viscosity (CP): 12

Filtration (cc): Salinity (ppm):

Additional Characteristics:

Well Name: SEAWOLF 1-12 FED

Well Number: 95H

Top Depth: 0

Bottom Depth: 1000

Mud Type: WATER-BASED MUD

Min Weight (lbs./gal.): 8.4

Max Weight (lbs./gal.): 8.5

Density (lbs/cu.ft.):

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

PH:

Viscosity (CP): 2

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 fromTD 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:

CALIPER, CBL, DS, GR, MUDLOG

Coring operation description for the well:

N/A

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 7200

Anticipated Surface Pressure: 4377.84

Anticipated Bottom Hole Temperature(F): 165

Anticipated abnormal proessures, temperatures, or potential geologic hazards? NO

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

Seawolf 1-12 Fed 95H_H2S Plan 11-15-2016.pdf

Well Name: SEAWOLF 1-12 FED Well Number: 95H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Seawolf 1-12 Fed 95H_Dir Plan_11-15-2016.pdf

Other proposed operations facets description:

Multi Bowl Verbiage Multi Bowl Wellhead Closed-Loop Design Plan

Other proposed operations facets attachment:

SEAWOLF 1-12 FED 95H_Clsd Loop_11-15-2016.pdf SEAWOLF 1-12 FED 95H_MB Verb_11-15-2016.pdf SEAWOLF 1-12 FED 95H_MB Wellhd_11-15-2016.pdf

Other Variance attachment:

SEAWOLF 1-12 FED 95H_Co-flex_11-15-2016.pdf



U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

SUPO Data Report

APD ID: 10400007953 Submission Date: 11/16/2016

Well Number: 95H

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: SEAWOLF 1-12 FED Well

Well Type: OIL WELL Well Work Type: Drill

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

Seawolf 1-12 Fed 95H Access Route map 11-15-2016.pdf

Existing Road Purpose: ACCESS,FLUID TRANSPORT Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? YES

Existing Road Improvement Description: Improve road to accommodate Drilling and Completion operations.

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? NO

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

Seawolf 1-12 FED 95H_1 Mile Radius Map_11-15-2016.pdf

Well Name: SEAWOLF 1-12 FED Well Number: 95H

Existing Wells description:

Section 4 - Location of Existing and/or Proposed Production Facilities

Submit or defer a Proposed Production Facilities plan? SUBMIT

Estimated Production Facilities description:

Production Facilities description: Seawolf 1-12 BS CTB 1, Battery Connect, Battery Connect Electrical, Flowline (Buried), Pad Connect. Location is not affected by other Seawolf well location changes. Location is currently accurate.

Production Facilities map:

Seawolf 1-12 Fed 95H_CTB_1_BAT_CON_EL_11-15-2016.pdf

Seawolf 1-12 Fed 95H CTB BATT CONN 11-15-2016.PDF

SEAWOLF 1-12 FED 95H_Flowline_11-15-2016.pdf

Seawolf 1-12 Fed 95H_PAD_CONN_ELE_11-15-2016.PDF

Seawolf 1-12 Fed 95H_SW_1-12_BS_CTB_1 Plat_11-15-2016.PDF

Section 5 - Location and Types of Water Supply

Water Source Table

Water source use type: STIMULATION Water source type: RECYCLED

Describe type:

Source latitude: Source longitude:

Source datum:

Water source permit type: OTHER Source land ownership: FEDERAL

Water source transport method: PIPELINE

Source transportation land ownership: FEDERAL

Water source volume (barrels): 8333.333 Source volume (acre-feet): 1.0741091

Source volume (gal): 350000

Water source and transportation map:

SEAWOLF 1-12 FED 95H_Water Map_11-15-2016.pdf

Water source comments: The attached Water Transfer Map is a proposal only and the final route and documentation will be provided by a Devon contractor prior to installation. When available Devon will always follow existing disturbance.

New water well? NO

New Water Well Info

Well latitude: Well Longitude: Well datum:

Well target aquifer:

Est. depth to top of aquifer(ft): Est thickness of aquifer:

Well Name: SEAWOLF 1-12 FED

Well Number: 95H

Aquifer comments:

Aquifer documentation:

Well depth (ft):

Well casing type:

Well casing outside diameter (in.):

Well casing inside diameter (in.):

New water well casing?

Used casing source:

Drilling method:

Drill material:

Grout material:

Grout depth:

Casing length (ft.):

Casing top depth (ft.):

Well Production type:

Completion Method:

Water well additional information:

State appropriation permit:

Additional information attachment:

Section 6 - Construction Materials

Construction Materials description: Dirt fill and caliche will be used to construct well pad. Caliche supplied from the

Federal Pit on Section 7-26S-34E; SWNE & SENE Construction Materials source location attachment:

Section 7 - Methods for Handling Waste

Waste type: COMPLETIONS/STIMULATION

Waste content description: Flow back water during completion operations.

Amount of waste: 3000

barrels

Waste disposal frequency: One Time Only

Safe containment description: NA

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: COMMERCIAL

FACILITY

Disposal type description:

Disposal location description: Various disposal locations in Lea and Eddy counties.

Waste type: PRODUCED WATER

Waste content description: Average produced BWPD over the first year of production.

Amount of waste: 1200

barrels

Waste disposal frequency: Daily

Safe containment description: N/A

Safe containment attachment:

Well Name: SEAWOLF 1-12 FED Well Number: 95H

Waste disposal type: OFF-LEASE INJECTION Disposal location ownership: STATE

Disposal type description:

Disposal location description: Produced water will be primarily disposed of at our Rattlesnake 16 SWD. At certain times during the year, some of the water will be recycled and used for drilling/completion operations. This recycle facility is at the same location as the SWD (state).

Waste type: DRILLING

Waste content description: Water and oil based cuttings

Amount of waste: 1600 barrels

Waste disposal frequency: Daily Safe containment description: N/A

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: PRIVATE

FACILITY

Disposal type description:

Disposal location description: All cutting will be disposed of at R360, Sundance, or equivalent.

Waste type: FLOWBACK

Waste content description: Average produced BWPD over the flowback period (first 30 days of production).

Amount of waste: 4000 barrels

Waste disposal frequency : Daily Safe containment description: N/A

Safe containmant attachment:

Waste disposal type: OFF-LEASE INJECTION Disposal location ownership: STATE

Disposal type description:

Disposal location description: Produced water during flowback will be disposed of at our Rattlesnake 16 SWD.

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit?

Reserve pit length (ft.)

Reserve pit width (ft.)

Reserve pit depth (ft.)

Reserve pit volume (cu. yd.)

Is at least 50% of the reserve pit in cut?

Reserve pit liner

Reserve pit liner specifications and installation description

Well Name: SEAWOLF 1-12 FED Well Number: 95H

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? NO

Description of cuttings location

Cuttings area length (ft.)

Cuttings area width (ft.)

Cuttings area depth (ft.)

Cuttings area volume (cu. yd.)

Is at least 50% of the cuttings area in cut?

WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: NO

Ancillary Facilities attachment:

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

Seawolf 1-12 Fed 95H_Rig Layout_11-15-2016.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: NEW

Recontouring attachment:

Drainage/Erosion control construction: N/A
Drainage/Erosion control reclamation: N/A

Wellpad long term disturbance (acres): 2.086

Wellpad short term disturbance (acres): 4.156

Access road long term disturbance (acres): 0

Access road short term disturbance (acres): 0

Pipeline long term disturbance (acres): 1.6072108

Pipeline short term disturbance (acres): 1.6072108

Other long term disturbance (acres): 0

Other short term disturbance (acres): 0

Total long term disturbance: 3.6932108

Total short term disturbance: 5.763211

Reconstruction method: Operator will use Best Management Practices"BMP" to mechanically recontour to obtain the desired outcome.

Well Name: SEAWOLF 1-12 FED

Well Number: 95H

Topsoil redistribution: Topsoils shall be replaced to their original relative positions and contoured so as to achieve erosion control, long-term stability and preservation of surface water flow patterns.

Soil treatment: Topsoils shall be replaced to their original relative positions and contoured so as to achieve erosion control, long-term stability and preservation of surface water flow patterns.

Existing Vegetation at the well pad: Shinnery, yucca, grasses and mesquite.

Existing Vegetation at the well pad attachment:

Existing Vegetation Community at the road: Shinnery, yucca, grasses and mesquite.

Existing Vegetation Community at the road attachment:

Existing Vegetation Community at the pipeline: Shinnery, yucca, grasses and mesquite.

Existing Vegetation Community at the pipeline attachment:

Existing Vegetation Community at other disturbances: Shinnery, yucca, grasses and mesquite.

Existing Vegetation Community at other disturbances attachment:

Non native seed used? NO

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? NO

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? NO

Seed harvest description:

Seed harvest description attachment:

Seed Management

Seed Table

Seed type:

Seed name:

Source name: Source address:

Source phone:

Seed cultivar:

Seed use location:

PLS pounds per acre:

Proposed seeding season:

Seed Summary

Total pounds/Acre:

Seed source:

Seed Type

Pounds/Acre

Seed reclamation attachment:

Well Name: SEAWOLF 1-12 FED Well Number: 95H

Operator Contact/Responsible Official Contact Info

First Name: Cole

Last Name: Metcaf

Phone: (575)748-1872

Email: cole.metcaf@dvn.com

Seedbed prep:

Seed BMP:

Seed method:

Existing invasive species? NO

Existing invasive species treatment description:

Existing invasive species treatment attachment:

Weed treatment plan description: Maintain weeds on an as need basis.

Weed treatment plan attachment:

Monitoring plan description: Monitor as needed.

Monitoring plan attachment:

Success standards: N/A

Pit closure description: N/A

Pit closure attachment:

Section 11 - Surface Ownership

Disturbance type: EXISTING ACCESS ROAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Well Name: SEAWOLF 1-12 FED	Well Number: 95H
Disturbance type: WELL PAD	
Describe:	
Surface Owner: BUREAU OF LAND MANAGEMENT	
Other surface owner description:	
BIA Local Office:	
BOR Local Office:	
COE Local Office:	
DOD Local Office:	
NPS Local Office:	
State Local Office:	
Military Local Office:	
USFWS Local Office:	
Other Local Office:	
USFS Region:	
USFS Forest/Grassland:	USFS Ranger District:
D. A. A. MEWAGGGG BOAR	
Disturbance type: NEW ACCESS ROAD Describe:	
Surface Owner: BUREAU OF LAND MANAGEMENT	
Other surface owner description:	
BIA Local Office:	
BOR Local Office:	
COE Local Office:	
DOD Local Office:	
NPS Local Office:	
State Local Office:	
Military Local Office	
Military Local Office:	
USFWS Local Office:	

Well Name: SEAWOLF 1-12 FED

Well Number: 95H

Disturbance type: PIPELINE

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Section 12 - Other Information

Right of Way needed? YES

Use APD as ROW? YES

ROW Type(s): 288100 ROW - O&G Pipeline, FLPMA (Powerline), Other

ROW Applications

SUPO Additional Information: Seawolf 1-12 BS CTB 1, Battery Connect, Battery Connect Electrical, Flowline (Buried), Pad Connect. Location is not affected by other Seawolf well location changes. Location is currently accurate.

Use a previously conducted onsite? YES

Previous Onsite information: Onsite of Seawolf 1-12 85H conducted 7/20/16

Other SUPO Attachment

Seawolf 1-12 Fed 95H_CTB_1_BAT_CON_EL_11-15-2016.pdf Seawolf 1-12 Fed 95H_CTB_BATT CONN_11-15-2016.PDF SEAWOLF 1-12 FED 95H_Flowline_11-15-2016.pdf Seawolf 1-12 Fed 95H_PAD_CONN_ELE_11-15-2016.PDF

Well Name: SEAWOLF 1-12 FED

Well Number: 95H

Seawolf 1-12 Fed 95H_SW_1-12_BS_CTB_1 Plat_11-15-2016.PDF



Section 1 - General

Would you like to address long-term produced water disposal? NO

Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit specifications:

Pit liner description:

Pit liner manufacturers information:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule attachment:

Lined pit reclamation description:

Lined pit reclamation attachment:

Leak detection system description:

Leak detection system attachment:

Lined pit Monitor description:

Lined pit Monitor attachment:

Lined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information attachment:

PWD disturbance (acres):

Section 3 - Unlined Pits

Injection well mineral owner:

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:	
PWD surface owner:	PWD disturbance (acres):
Unlined pit PWD on or off channel:	
Unlined pit PWD discharge volume (bbl/day):	
Unlined pit specifications:	
Precipitated solids disposal:	
Decribe precipitated solids disposal:	
Precipitated solids disposal permit:	
Unlined pit precipitated solids disposal schedule:	
Unlined pit precipitated solids disposal schedule attachment:	
Unlined pit reclamation description:	
Unlined pit reclamation attachment:	
Unlined pit Monitor description:	
Unlined pit Monitor attachment:	
Do you propose to put the produced water to beneficial use?	
Beneficial use user confirmation:	
Estimated depth of the shallowest aquifer (feet):	
Does the produced water have an annual average Total Disso that of the existing water to be protected?	lived Solids (TDS) concentration equal to or less than
TDS lab results:	
Geologic and hydrologic evidence:	
State authorization:	
Unlined Produced Water Pit Estimated percolation:	
Unlined pit: do you have a reclamation bond for the pit?	
Is the reclamation bond a rider under the BLM bond?	
Unlined pit bond number:	
Unlined pit bond amount:	
Additional bond information attachment:	
Section 4 - Injection	
Would you like to utilize Injection PWD options? NO	,
Produced Water Disposal (PWD) Location:	
PWD surface owner:	PWD disturbance (acres):
Injection PWD discharge volume (bbl/day):	

Injection well type: Injection well number: Injection well name: Assigned injection well API number? Injection well API number: Injection well new surface disturbance (acres): Minerals protection information: Mineral protection attachment: **Underground Injection Control (UIC) Permit? UIC Permit attachment:** Section 5 - Surface Discharge Would you like to utilize Surface Discharge PWD options? NO Produced Water Disposal (PWD) Location: PWD surface owner: PWD disturbance (acres): Surface discharge PWD discharge volume (bbl/day): Surface Discharge NPDES Permit? Surface Discharge NPDES Permit attachment: Surface Discharge site facilities information: Surface discharge site facilities map: Section 6 - Other Would you like to utilize Other PWD options? NO Produced Water Disposal (PWD) Location: PWD surface owner: PWD disturbance (acres): Other PWD discharge volume (bbl/day): Other PWD type description:

Other PWD type attachment:

Have other regulatory requirements been met?

Other regulatory requirements attachment:



U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

Bond Information

Federal/Indian APD: FED

BLM Bond number: CO1104

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

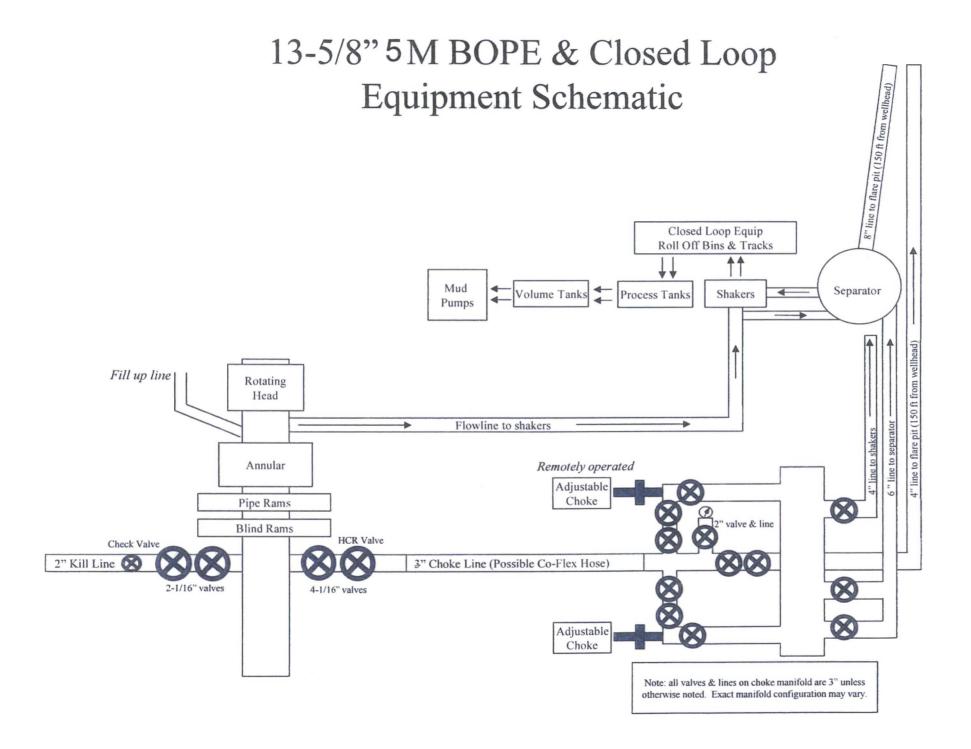
Forest Service reclamation bond attachment:

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment:



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.

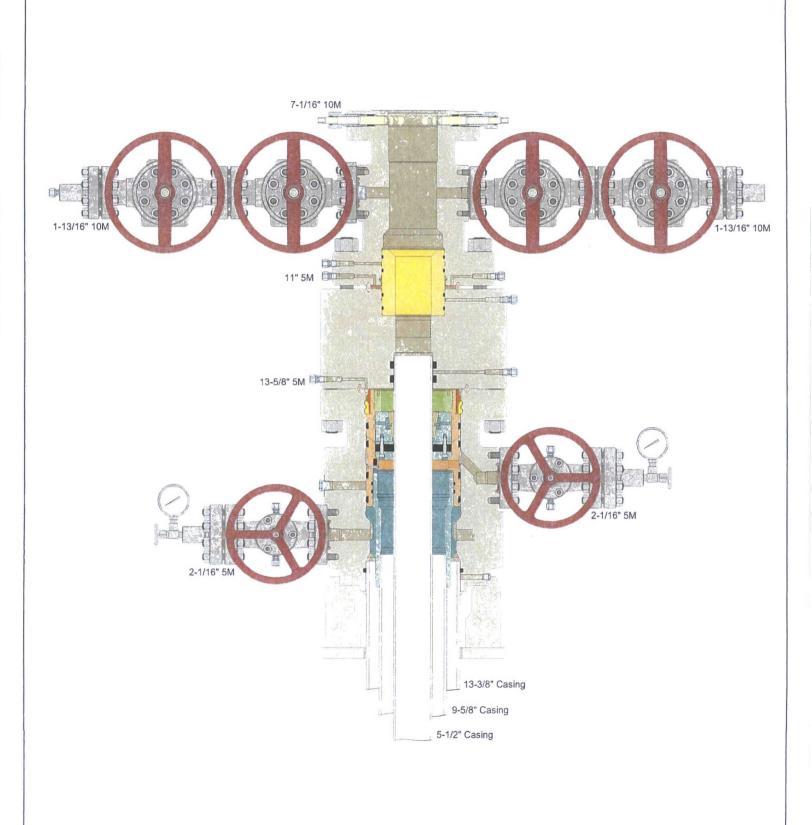
- Wellhead will be installed by wellhead representatives.
- If the welding is performed by a third party, the wellhead representative will monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- Wellhead representative will install the test plug for the initial 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 Beattle Corp. Website: www.contitechbeattle.com

Monday, June 14, 2010

RE: D

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/darifications 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

ContiTech Beattle Corp, 11535 Brittmoore Park Drive, Houston, TX 77041 Phone: 41 (832) 327-0141 Fax: +1 (832) 327-0148 www.contitechbeattle.com



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PHOENIK RUBBER Q.C.

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