Form 3160 -3 (March 2012)	ŀ	10BBC (;D	OMB No	APPROVED 0. 1004-0137 ctober 31, 2014	
UNITED STATE DEPARTMENT OF THE BUREAU OF LAND MA	INTERIOR	MAY 0820)17	5. Lease Serial No. NMNM114988		
APPLICATION FOR PERMIT TO		REENTEREIV	ED	6. If Indian, Allotee	or Tribe Name	Service
la. Type of work:	TER			7 If Unit or CA Agree	ement, Name an	id No.
lb. Type of Well: 🔽 Oil Well 🗌 Gas Well 💭 Other	Sin	gle Zone 🔽 Multip	le Zone	8. Lease Name and W SEAWOLF 1-12 FE	/ell No. D 102H	317671
2. Name of Operator DEVON ENERGY PRODUCTION CO	OMPANY LP	6137)	Alle	9. API Well No. 30-029-	-4379	3/767
3a. Address 333 West Sheridan Avenue Oklahoma City O		(include area code) 571	Ser 1	10. Field and Pool, or E WC-025 G-09 S253	xploratory 336D / UPP	(98094) ER WOLI
4. Location of Well (Report location clearly and in accordance with	any State requireme	ents.*)	Star.	11. Sec., T. R. M. or BI	k. and Survey o	ar Area
At surface NWNW / 200 FNL / 420 FWL / LAT 32.079	1865 / LONG -	103.5332362	aller .	SEC 1 / T26S / R33	E / NMP	
At proposed prod. zone SWSW / 330 FNL / 1272 FWL / L	AT 32.051612	2 / LONG -103.530	4875	De Countra Parish	12.0	State
14. Distance in miles and direction from nearest town or post office*				12. County or Parish LEA	NM	State
15. Distance from proposed* location to nearest 200 feet property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No. of ac 1280	eres in lease	17. Spacin 320	g Unit dedicated to this w	vell	
 Distance from proposed location* to nearest well, drilling, completed, 450 feet applied for, on this lease, ft. 	19. Proposed 13155 feet	Depth / 23182 feet	20. BLM/	BIA Bond No. on file O1104		
21. Elevations (Show whether DF, KDB, RT, GL, etc.)		nate date work will star	t*	23. Estimated duration)	
3319 feet	08/25/201			45 days		
The following, completed in accordance with the requirements of Onsl	24. Attac		tached to th	is form:		
 Well plat certified by a registered surveyor. A Drilling Plan. 	note on and oas			ons unless covered by an	existing bond of	on file (see
 A Surface Use Plan (if the location is on National Forest Syste SUPO must be filed with the appropriate Forest Service Office). 	m Lands, the	 Operator certific Such other site BLM. 		ormation and/or plans as	may be require	ed by the
25. Signature (Electronic Submission)		(Printed/Typed) cca Deal / Ph: (405)228-842		Date 01/30/2017	,
Title Regulatory Compliance Professional						8
Approved by (Signature) (Electronic Submission)		(Printed/Typed) Layton / Ph: (575)2	34-5959		Date 05/03/2017	7
Title Supervisor Multiple Resources	Office HOBE	35				
Application approval does not warrant or certify that the applicant he conduct operations thereon. Conditions of approval, if any, are attached.			ts in the sub	oject lease which would en	ntitle the applic	ant to
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a States any false, fictitious or fraudulent statements or representations at			villfully to n	nake to any department o	r agency of the	United
(Continued on page 2)				*(Insti	ructions on	page 2)

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



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: 01/30/2017

Title: Regulatory Compliance Professional Street Address: 333 West Sheridan Avenue City: Oklahoma City State: OK Phone: (405)228-8429 Email address: Rebecca.Deal@dvn.com

Zip: 73102

Field Representative

 Representative Name: Cole Metcalf

 Street Address: 6488 Seven Rivers Hwy

 City: Artesia
 State: NM

 Phone: (575)748-1872

 Email address: cole.metcalf@dvn.com

Zip: 88210



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

Application Data Report

11111-12

1

APD ID: 10400010527Submission Date: 01/30/2017Operator Name: DEVON ENERGY PRODUCTION COMPANY LPWell Name: SEAWOLF 1-12 FEDWell Number: 102HWell Type: OIL WELLWell Work Type: Drill

Section 1 - General

APD ID:	10400010527	Tie to previous NOS?		Submission Date: 01/30/2017
BLM Office:	HOBBS	User: Rebecca Deal		e: Regulatory Compliance
Federal/India	an APD: FED	Is the first lease penetrate	d for product	ifessional i on Federal or Indian? FED
Lease numb	er: NMNM114988	Lease Acres: 1280		
Surface acce	ess agreement in place?	Allotted?	Reservation:	
Agreement i	n place? NO	Federal or Indian agreeme	ent:	
Agreement r	number:			
Agreement r	name:			
Keep applica	ation confidential? YES			
Permitting A	gent? NO	APD Operator: DEVON EN	IERGY PROD	UCTION COMPANY LP
Operator let	ter of designation:			
Keep applica	ation confidential? YES			

Operator Info

Operator Organization Name: DEV	ON ENERGY PRODUCTION COMPANY	Y LP
Operator Address: 333 West Sheric	dan Avenue	7 im: 72102
Operator PO Box:		Zip: 73102
Operator City: Oklahoma City	State: OK	
Operator Phone: (405)552-6571		
Operator Internet Address: aletha.c	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: 102H	Well API Number:
Field/Pool or Exploratory? Field and Pool	Field Name: WC-025 G-09 S253336D	Pool Name: UPPER WOLFCAMP

Page 1 of 4

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: Number: 81H, 82H, 91H, 92H, SEAWOLF 1-12 FED 102H Well Class: HORIZONTAL Number of Legs: Well Work Type: Drill Well Type: OIL WELL **Describe Well Type:** Well sub-Type: INFILL Describe sub-type: Distance to lease line: 200 FT Distance to town: Distance to nearest well: 450 FT Reservoir well spacing assigned acres Measurement: 320 Acres Seawolf 1 12 Fed 102H C 102 Signed 03-23-2017.pdf Well plat: Well work start Date: 08/25/2017 Duration: 45 DAYS

Section 3 - Well Location Table

Survey Type: RE	ECTANGULAR		
Describe Survey	туре:		
Datum: NAD83		Vertical Datum: NAVD88	
Survey number:	5079		
	STATE: NEW MEXICO	Meridian: NEW MEXICO PRINCIPA	L County: LEA
	Latitude: 32.0791865	Longitude: -103.5332362	
SHL	Elevation: 3319	MD : 0	TVD : 0
Leg #: 1	Lease Type: FEDERAL	Lease #: NMNM114988	
	NS-Foot: 200	NS Indicator: FNL	
	EW-Foot: 420	EW Indicator: FWL	
	Twsp: 26S	Range: 33E	Section: 1
	Aliquot: NWNW	Lot:	Tract:

Well Name: SEAWOLF 1-12 FED

Well Number: 102H

	STATE: NEW MEXICO	Meridian: NEW MEXICO PRINCIPA	L County: LEA
	Latitude: 32.0791865	Longitude: -103.5332362	
KOP	Elevation: -8469	MD: 11840	TVD: 11788
Leg #: 1	Lease Type: FEDERAL	Lease #: NMNM114988	
	NS-Foot: 10	NS Indicator: FNL	
	EW-Foot: 1348	EW Indicator: FWL	
	Twsp: 26S	Range: 33E	Section: 1
	Aliquot: NENW	Lot:	Tract:
	STATE: NEW MEXICO	Meridian: NEW MEXICO PRINCIPA	L County: LEA
	Latitude: 32.0791865	Longitude: -103.5332362	
PPP	Elevation: -9836	MD: 13533	TVD: 13155
Leg #: 1	Lease Type: FEDERAL	Lease #: NMNM114988	
	NS-Foot: 330	NS Indicator: FNL	
	EW-Foot: 1348	EW Indicator: FWL	
	Twsp: 23S	Range: 33E	Section: 1
	Aliquot: NENW	Lot:	Tract:
	Aliquot: NENW STATE: NEW MEXICO	Lot: Meridian: NEW MEXICO PRINCIPA	
EXIT	STATE: NEW MEXICO	Meridian: NEW MEXICO PRINCIPA	
EXIT Leg #: 1	STATE: NEW MEXICO Latitude: 32.0516122	Meridian: NEW MEXICO PRINCIPA Longitude: -103.5304875	L County: LEA
	STATE: NEW MEXICO Latitude: 32.0516122 Elevation: -9836	Meridian: NEW MEXICO PRINCIPA Longitude: -103.5304875 MD: 23182	L County: LEA
	STATE: NEW MEXICO Latitude: 32.0516122 Elevation: -9836 Lease Type: FEDERAL	Meridian: NEW MEXICO PRINCIPA Longitude: -103.5304875 MD: 23182 Lease #: NMNM114988	L County: LEA
	STATE: NEW MEXICO Latitude: 32.0516122 Elevation: -9836 Lease Type: FEDERAL NS-Foot: 330	Meridian: NEW MEXICO PRINCIPA Longitude: -103.5304875 MD: 23182 Lease #: NMNM114988 NS Indicator: FNL	L County: LEA
	STATE: NEW MEXICO Latitude: 32.0516122 Elevation: -9836 Lease Type: FEDERAL NS-Foot: 330 EW-Foot: 1272	Meridian: NEW MEXICO PRINCIPA Longitude: -103.5304875 MD: 23182 Lease #: NMNM114988 NS Indicator: FNL EW Indicator: FWL	L County: LEA TVD: 13155
	STATE: NEW MEXICO Latitude: 32.0516122 Elevation: -9836 Lease Type: FEDERAL NS-Foot: 330 EW-Foot: 1272 Twsp: 26S	Meridian: NEW MEXICO PRINCIPA Longitude: -103.5304875 MD: 23182 Lease #: NMNM114988 NS Indicator: FNL EW Indicator: FWL Range: 33E	L County: LEA TVD: 13155 Section: 12 Tract:
	STATE: NEW MEXICO Latitude: 32.0516122 Elevation: -9836 Lease Type: FEDERAL NS-Foot: 330 EW-Foot: 1272 Twsp: 26S Aliquot: SWSW	Meridian: NEW MEXICO PRINCIPA Longitude: -103.5304875 MD: 23182 Lease #: NMNM114988 NS Indicator: FNL EW Indicator: FWL Range: 33E Lot:	L County: LEA TVD: 13155 Section: 12 Tract:
	STATE: NEW MEXICO Latitude: 32.0516122 Elevation: -9836 Lease Type: FEDERAL NS-Foot: 330 EW-Foot: 1272 Twsp: 26S Aliquot: SWSW STATE: NEW MEXICO	Meridian: NEW MEXICO PRINCIPA Longitude: -103.5304875 MD: 23182 Lease #: NMNM114988 NS Indicator: FNL EW Indicator: FWL Range: 33E Lot: Meridian: NEW MEXICO PRINCIPA	L County: LEA TVD: 13155 Section: 12 Tract:
Leg #: 1	STATE: NEW MEXICO Latitude: 32.0516122 Elevation: -9836 Lease Type: FEDERAL NS-Foot: 330 EW-Foot: 1272 Twsp: 26S Aliquot: SWSW STATE: NEW MEXICO Latitude: 32.0516122	Meridian: NEW MEXICO PRINCIPA Longitude: -103.5304875 MD: 23182 Lease #: NMNM114988 NS Indicator: FNL EW Indicator: FWL Range: 33E Lot: Meridian: NEW MEXICO PRINCIPA Longitude: -103.5304875	L County: LEA TVD: 13155 Section: 12 Tract: L County: LEA
Leg #: 1 BHL	STATE: NEW MEXICO Latitude: 32.0516122 Elevation: -9836 Lease Type: FEDERAL NS-Foot: 330 EW-Foot: 1272 Twsp: 26S Aliquot: SWSW STATE: NEW MEXICO Latitude: 32.0516122 Elevation: -9836	Meridian: NEW MEXICO PRINCIPA Longitude: -103.5304875 MD: 23182 Lease #: NMNM114988 NS Indicator: FNL EW Indicator: FWL Range: 33E Lot: Meridian: NEW MEXICO PRINCIPA Longitude: -103.5304875 MD: 23182	L County: LEA TVD: 13155 Section: 12 Tract: L County: LEA
Leg #: 1 BHL	STATE: NEW MEXICO Latitude: 32.0516122 Elevation: -9836 Lease Type: FEDERAL NS-Foot: 330 EW-Foot: 1272 Twsp: 26S Aliquot: SWSW STATE: NEW MEXICO Latitude: 32.0516122 Elevation: -9836 Lease Type: FEDERAL	Meridian: NEW MEXICO PRINCIPA Longitude: -103.5304875 MD: 23182 Lease #: NMNM114988 NS Indicator: FNL EW Indicator: FWL Range: 33E Lot: Meridian: NEW MEXICO PRINCIPA Longitude: -103.5304875 MD: 23182 Lease #: NMNM114988	L County: LEA TVD: 13155 Section: 12 Tract: L County: LEA

Well Name: SEAWOLF 1-12 FED

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Well Number: 102H

Twsp: 26S	Range: 33E	Section: 12
Aliquot: SWSW	Lot:	Tract:



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

Drilling Plan Data Report 05/04/2017

and the second

APD ID: 10400010527	Submission Date: 01/30/2017
Operator Name: DEVON ENERGY PRODUCTION COMPA	NY LP
Well Name: SEAWOLF 1-12 FED	Well Number: 102H
Well Type: OIL WELL	Well Work Type: Drill

Section 1 - Geologic Formations

ID: Surface formation	Name: UNKNOWN	
Lithology(ies): OTHER - Surface		
Elevation: 3319	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: 2356	True Vertical Depth: 963	Measured Depth: 963
Mineral Resource(s):		
NONE		
Is this a producing formation? N		
ID: Formation 2	Name: TOP OF SALT	
Lithology(ies): SALT		
Elevation: 1987 Mineral Resource(s): NONE Is this a producing formation? N	True Vertical Depth: 1332	Measured Depth: 1332

Well Name: SEAWOLF 1-12 FED	Well Number: 10	2H
D: Formation 3	Name: BASE OF SALT	
Lithology(ies):		
SALT		
Elevation: -1560	True Vertical Depth: 4879	Measured Depth: 4879
Mineral Resource(s):		
NONE		
s this a producing formation? N		
D: Formation 4	Name: DELAWARE	
Lithology(ies):		
SANDSTONE		
Elevation: -1802	True Vertical Depth: 5121	Measured Depth: 5121
Mineral Resource(s):		
NATURAL GAS		
OIL		
s this a producing formation? N		
D: Formation 5	Name: BRUSHY CANYON LOWER	
Lithology(ies):		
SANDSTONE		
Elevation: -5802	True Vertical Depth: 9121	Measured Depth: 9121
Mineral Resource(s):		
NATURAL GAS		
OIL		
s this a producing formation? N		
D: Formation 6	Name: BONE SPRING LIME	
_ithology(ies):		
LIMESTONE		
elevation: -5973	True Vertical Depth: 9292	Measured Depth: 9292

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Operator Name: DEVON ENERG	SY PRODUCTION COMPANY LP	
Well Name: SEAWOLF 1-12 FED	Well Number:	102H
Mineral Resource(s):		
NATURAL GAS		
OIL		
Is this a producing formation? N		
ID: Formation 7	Name: BONE SPRING 1ST	
Lithology(ies):		
SANDSTONE		
Elevation: -6928	True Vertical Depth: 10247	Measured Depth: 1024
Mineral Resource(s):		
NATURAL GAS		
OIL		
Is this a producing formation? N		
ID: Formation 8	Name: BONE SPRING LIME	

LIMESTONE

Elevation: -7192	True Vertical Depth: 10511	Measured Depth: 10511
Mineral Resource(s):		
NATURAL GAS		
OIL		
Is this a producing formation? N		
ID: Formation 9	Name: BONE SPRING 2ND	
Lithology(ies):		
SANDSTONE		
Elevation: -7494	True Vertical Depth: 10813	Measured Depth: 10813
Mineral Resource(s):		
NATURAL GAS		
OIL		
Is this a producing formation? N		

Well Name: SEAWOLF 1-12 FED	Well Number	: 102H
D: Formation 10	Name: BONE SPRING 3RD	
Lithology(ies):		
LIMESTONE		
Elevation: -7864	True Vertical Depth: 11183	Measured Depth: 11183
Mineral Resource(s):		
NATURAL GAS		
OIL		
Is this a producing formation? N		
ID: Formation 11	Name: BONE SPRING 3RD	
Lithology(ies):		
SANDSTONE		
Elevation: -8599	True Vertical Depth: 11918	Measured Depth: 11918
Mineral Resource(s):		
NATURAL GAS		
OIL		
Is this a producing formation? N		
ID: Formation 12	Name: WOLFCAMP	
Lithology(ies):		
SHALE		
Elevation: -2710	True Vertical Depth: 12353	Measured Depth: 12353
Mineral Resource(s):		
NATURAL GAS		
OIL		
Is this a producing formation? Y		
D: Formation 13	Name: WOLFCAMP	
Lithology(ies):		
SHALE		

Well Name: SEAWOLF 1-12 FED	Well Number: 102	2H
Elevation: -2896	True Vertical Depth: 12539	Measured Depth: 12539
Mineral Resource(s):		
NATURAL GAS		
OIL		
Is this a producing formation? Y		
ID: Formation 14	Name: WOLFCAMP	
Lithology(ies):		
SHALE		
Elevation: -9839	True Vertical Depth: 13158	Measured Depth: 13158
Mineral Resource(s):		
NATURAL GAS		
OIL		
Is this a producing formation? \boldsymbol{Y}		

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M Rating Depth: 13155

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 Page 5 of 13

4

Well Name: SEAWOLF 1-12 FED

Well Number: 102H

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

Choke Diagram Attachment:

Seawolf 1-12 Fed 102H_5M BOPE _CK_01-23-2017.pdf

BOP Diagram Attachment:

Seawolf 1-12 Fed 102H_5M BOPE _CK_01-23-2017.pdf

Pressure Rating (PSI): 5M

Rating Depth: 13155

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 102H_5M BOPE _CK_01-23-2017.pdf

BOP Diagram Attachment:

Seawolf 1-12 Fed 102H_5M BOPE _CK_01-23-2017.pdf

Section 3 - Casing

Well Name: SEAWOLF 1-12 FED

Well Number: 102H

String Type: INTERMEDIATE	Other String Type:
Hole Size: 12.25	×
Top setting depth MD: 0	Top setting depth TVD: 0
Top setting depth MSL: -9836	
Bottom setting depth MD: 11300	Bottom setting depth TVD: 11300
Bottom setting depth MSL: -21136	
Calculated casing length MD: 11300	
Casing Size: 9.625	Other Size
Grade: P-110 E 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: 1.25BitJoint Tensile Design Safety Factor type: BUOYANTJoint Safety Factor type: BUOYANTBody Tensile Design Safety Factor type: BUOYANTBody Casing Design Assumptions and Worksheet(s):

Burst Design Safety Factor: 1.59 Joint Tensile Design Safety Factor: 2.58 Body Tensile Design Safety Factor: 2.58

Seawolf 1-12 Fed 102H_Int Csg Ass_01-24-2017.pdf

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP Well Name: SEAWOLF 1-12 FED Well Number: 102H

String Type: SURFACE Other String Type: Hole Size: 17.5 Top setting depth TVD: 0 Top setting depth MD: 0 Top setting depth MSL: -9836 Bottom setting depth MD: 1000 Bottom setting depth TVD: 1000 Bottom setting depth MSL: -10636 Calculated casing length MD: 1000 Casing Size: 13.375 Other Size Other Grade: Grade: H-40 J-55 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 102H_Surf Csg Ass_01-24-2017.pdf

Well Name: SEAWOLF 1-12 FED

Well Number: 102H

String Type: SURFACE	Other String Type:	
Hole Size: 17.5		
Top setting depth MD: 0	.a.	Top setting depth TVD: 0
Top setting depth MSL: -9836		
Bottom setting depth MD: 1000		Bottom setting depth TVD: 1000
Bottom setting depth MSL: -10636		
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	9	Burst Design Safety Factor: 3.46

Joint Tensile Design Safety Factor type: BUOYANT Body Tensile Design Safety Factor type: BUOYANT Casing Design Assumptions and Worksheet(s): Burst Design Safety Factor: 3.46 Joint Tensile Design Safety Factor: 2.11 Body Tensile Design Safety Factor: 2.11

Seawolf 1-12 Fed 102H_Surf Csg Ass_01-24-2017.pdf

Well Name: SEAWOLF 1-12 FED Well Number: 102H

String Type: INTERMEDIATE	Other String Type:
Hole Size: 12.25	
Top setting depth MD: 0	Top setting depth TVD: 0
Top setting depth MSL: -9836	
Bottom setting depth MD: 11300	Bottom setting depth TVD: 11300
Bottom setting depth MSL: -21136	
Calculated casing length MD: 11300	
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 Joint Tensile Design Safety Factor type: BUOYANT Body Tensile Design Safety Factor type: BUOYANT Casing Design Assumptions and Worksheet(s):

Burst Design Safety Factor: 1.59 Joint Tensile Design Safety Factor: 2.58 Body Tensile Design Safety Factor: 2.58

Seawolf 1-12 Fed 102H_Int Csg Ass_01-24-2017.pdf

Operator Na	ame: DEVON	ENERGY	PRODUCTION	COMPANY LP

Well Name: SEAWOLF 1-12 FED

Well Number: 102H

String Type: PRODUCTION	Other String Type:
Hole Size: 8.75	
Top setting depth MD: 0	Top setting depth TVD: 0
Top setting depth MSL: -9836	
Bottom setting depth MD: 23182	Bottom setting depth TVD: 13155
Bottom setting depth MSL: -22610	
Calculated casing length MD: 23182	
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 Joint Tensile Design Safety Factor type: BUOYANT Body Tensile Design Safety Factor type: BUOYANT Casing Design Assumptions and Worksheet(s): Burst Design Safety Factor: 1.26 Joint Tensile Design Safety Factor: 1.83 Body Tensile Design Safety Factor: 1.83

Seawolf 1-12 Fed 102H_Prod Csg Ass_01-24-2017.pdf

Section 4 - Cement

Casing String Type: SURFACE

Well Name: SEAWOLF 1-12 FED

Well Number: 102H

Stage Tool Depth:

1

Lead		
Top MD of Segment: 0	Bottom MD Segment: 1000	Cement Type: C
Additives: 1% Calcium Chloride	Quantity (sks): 778	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: 9300	Cement Type: C
Additives: Poz (Fly Ash): 6% BWOC	Quantity (sks): 1580	Yield (cu.ff./sk): 2.31
Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sks Poly-E-Flake Pensity: 11.9	Volume (cu.ft.): 3640	Percent Excess: 30
<u>Tan</u>	Bottom MD Segment: 11300	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: 11100	Bottom MD Segment: 12300	Cement Type: C
Additives: Enhancer 923 + 10% BWOO	CQuantity (sks): 144	Yield (cu.ff./sk): 2.31
Bentonite + 0.05% BWOC SA-1015 + 0.3% BWOC HR-800 + 0.2% BWOC FF12 + 0.125 lb/sk Pol-E-Flake + 0.5	Volume (cu.ft.): 333	Percent Excess: 25
1b/sk D-Air 5000 Density: 11.9	Bottom MD Segment: 23182	Cement Type: H
	Quantity (sks): 2520	Yield (cu.ff./sk): 1.2
Top MD of Segment: 12300	Volume (cu.ft.): 3024	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		

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP
Well Name: SEAWOLF 1-12 FED Well Number: 102H

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: 11300
Mud Type: OIL-BASED MUD	
Min Weight (Ibs./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: 11300	Bottom Depth: 23182
Top Depth: 11300 Mud Type: OIL-BASED MUD	Bottom Depth: 23182
	Bottom Depth: 23182 Max Weight (Ibs./gal.): 11
Mud Type: OIL-BASED MUD	
Mud Type: OIL-BASED MUD Min Weight (Ibs./gal.): 10.5	Max Weight (Ibs./gal.): 11
Mud Type: OIL-BASED MUD Min Weight (Ibs./gal.): 10.5 Density (Ibs/cu.ft.):	Max Weight (Ibs./gal.): 11 Gel Strength (Ibs/100 sq.ft.):

Well Name: SEAWOLF 1-12 FED

Well Number: 102H

Top Depth: 0	Bottom Depth: 1000
Mud Type: WATER-BASED MUD	
Min Weight (Ibs./gal.): 8.4	Max Weight (Ibs./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: 4305.89

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 102H H2S Plan 01-24-2017.pdf

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Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: SEAWOLF 1-12 FED

Well Number: 102H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Seawolf 1-12 Fed 102H_Directional Plan_01-24-2017.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 102H_MB Wellhd_01-24-2017.pdf Seawolf 1-12 Fed 102H_MB Verb_01-24-2017.pdf

Seawolf 1-12 Fed 102H_Clsd Loop_01-24-2017.pdf

Other Variance attachment:

Seawolf 1-12 Fed 102H_Co-flex_01-24-2017.pdf



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



APD ID: 10400010527Submission Date: 01/30/2017Operator Name: DEVON ENERGY PRODUCTION COMPANY LPWell Name: SEAWOLF 1-12 FEDWell Number: 102HWell Type: OIL WELLWell Work Type: Drill

Section 1 - Existing Roads

Will existing roads be used? YES Existing Road Map: Seawolf 1-12 Fed 102H_Access Rd_01-24-2017.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? YES			
New Road Map:			
Seawolf 1-12 Fed 102H_New Access Rd_01-30-2017.pdf			
New road type: COLLECTOR	2		
Length: 929	Feet	Width (ft.): 20	
Max slope (%): 6		Max grade (%): 4	
Army Corp of Engineers (ACOE) permit required? NO			
ACOE Permit Number(s):			
New road travel width: 20			
New road access erosion control: Water drainage ditch			
New road access plan or profile prepared? YES			
New road access plan attachment:			
Seawolf 1-12 Fed 102H_New Access Rd_01-30-2017.pdf			
Access road engineering design? YES			

Well Name: SEAWOLF 1-12 FED

Well Number: 102H

Access road engineering design attachment: Seawolf 1-12 Fed 102H_New Access Rd_01-30-2017.pdf Access surfacing type: GRAVEL Access topsoil source: ONSITE Access surfacing type description: Access onsite topsoil source depth: 6 Offsite topsoil source description: Onsite topsoil removal process: See attached Interim reclamation diagram. Access other construction information: Access miscellaneous information: Number of access turnouts: Access turnout map:

Drainage Control

New road drainage crossing: OTHER

Drainage Control comments: NA

Road Drainage Control Structures (DCS) description: N/A

Road Drainage Control Structures (DCS) attachment:

Access Additional Attachments

Additional Attachment(s):

Section 3 - Location of Existing Wells

Existing Wells Map? YES Attach Well map: Seawolf 1-12 FED 102H_1 Mile Radius Map_01-24-2017.pdf 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 Electric Connect, Flowlines (Buried), CTB Plat, Battery Connect, Pad Connect Production Facilities map:

Seawolf 1-12 Fed 102H_CTB_1_BAT_CON_01-30-2017.pdf Seawolf 1-12 Fed 102H_Flowline_01-30-2017.pdf Seawolf 1-12 Fed 102H_Seawolf_1-12_BS_CTB_1_Plat_01-30-2017.PDF Seawolf 1-12 Fed 102H_CTB_1_R1_P Batt Conn_01-30-2017.PDF Seawolf 1-12 Fed 102H_PAD_CONNECT_01-30-2017.PDF

Section 5 - Location and Types of Water Supply

Water Source Table

Water source use type: STIMULATION

Describe type:

Source latitude:

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 (gal): 350000

Water source type: RECYCLED

Source longitude:

Source volume (acre-feet): 1.0741091

Water source and transportation map:

Seawolf 1-12 Fed 102H_Water Map_01-24-2017.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 aqui	ifer:
	Aquifer comments:		
	Aquifer documentation:		
1	Well depth (ft):	Well casing type:	
1	Well casing outside diameter (in.):	Well casing inside dian	neter (in.):
1	New water well casing?	Used casing source:	
I	Drilling method:	Drill material:	
(Grout material:	Grout depth:	
(Casing length (ft.):	Casing top depth (ft.):	
1	Well Production type:	Completion Method:	
١	Water well additional information:		

.

Well Name: SEAWOLF 1-12 FED

Well Number: 102H

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

Seawolf 1-12 FED 102H Caliche Map 01-30-2017.pdf

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 containmant attachment:

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

Well Name: SEAWOLF 1-12 FED

Well Number: 102H

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			

Cuttings Area

Cuttings Area being used? NO Are you storing cuttings on location? NO Description of cuttings location Cuttings area length (ft.) Cuttings area depth (ft.) Cuttings area depth (ft.) Is at least 50% of the cuttings area in cut? WCuttings area liner Cuttings area liner

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 102H_Rig Layout_01-24-2017.pdf Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: NEWRecontouring attachment:Seawolf 1-12 Fed 102H_Interim RecI_01-24-2017.pdfDrainage/Erosion control construction: N/ADrainage/Erosion control reclamation: N/AWellpad long term disturbance (acres): 2.438Wellpad short term disturbance (acres): 4.7015Access road long term disturbance (acres): 0.4265Access road short term disturbance (acres): 0.4265Pipeline long term disturbance (acres): 2.5981405Pipeline short term disturbance (acres): 2.5981405Other short term disturbance (acres): 0Other short term disturbance (acres): 0Total long term disturbance: 5.4626403Total short term disturbance: 7.7261405

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

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.

Well Name: SEAWOLF 1-12 FED

Well Number: 102H

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 source:
Seed name:	
Source name:	Source address:
Source phone:	
Seed cultivar:	
Seed use location:	
PLS pounds per acre:	Proposed seeding season:

Seed Summary

Seed Type

Pounds/Acre

Total pounds/Acre:

Seed reclamation attachment:

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

Well Name: SEAWOLF 1-12 FED

Well Number: 102H

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: USFWS Local Office: USFWS Local Office: USFS Region: USFS Forest/Grassland:

USFS Ranger District:

Disturbance type: WELL PAD Describe: Surface Owner: BUREAU OF LAND MANAGEMENT Other surface owner description: BIA Local Office:

Page 8 of 11

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP Well Name: SEAWOLF 1-12 FED Well Number: 102H

BOR Local Office: COE Local Office: DOD Local Office: NPS Local Office: State Local Office: Military Local Office: USFWS Local Office: USFS Region: USFS Forest/Grassland: USFS Ranger District:

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:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Page 9 of 11

Well Name: SEAWOLF 1-12 FED

Well Number: 102H

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 ROW Type(s): Other Use APD as ROW? YES

ROW Applications

SUPO Additional Information: Seawolf 1-12 BS CTB 1 Battery Electric Connect, Flowlines (Buried), CTB Plat, Battery Connect, Pad Connect Use a previously conducted onsite? YES

Previous Onsite information: Onsite of Seawolf 1-12 21H conducted 5/26/2015

Other SUPO Attachment

Seawolf 1-12 Fed 102H_BS_CTB_1_Plat_01-30-2017.PDF Seawolf 1-12 Fed 102H_Flowline_01-30-2017.pdf Seawolf 1-12 Fed 102H_PAD_CONNECT_01-30-2017.PDF Seawolf 1-12 Fed 102H_CTB_1_BAT_CON_01-30-2017.pdf

Well Name: SEAWOLF 1-12 FED

Well Number: 102H

Seawolf 1-12 Fed 102H_CTB_1_R1_P Batt Conn_01-30-2017.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

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

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 Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?

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: Injection PWD discharge volume (bbl/day): Injection well mineral owner:

PWD disturbance (acres):

PWD disturbance (acres):

Ihjection well type: Injection well number: Assigned 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):
 PWD disturbance (acres):

 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: Other PWD discharge volume (bbl/day): Other PWD type description: Other PWD type attachment: Have other regulatory requirements been met? Other regulatory requirements attachment:

PWD disturbance (acres):

Injection well name:

Injection well API number:

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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: Bond Info Data Report

05/04/2017

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