

APR 26 2017

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

APPLICATION FOR PERMIT TO DRILL OR REENTER

| | | |
|---|---|--|
| 1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER | | 5. Lease Serial No. NMNM114988 |
| 1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone | | 6. If Indian, Allottee or Tribe Name |
| 2. Name of Operator DEVON ENERGY PRODUCTION COMPANY LP (6137) | | 7. If Unit or CA Agreement, Name and No. |
| 3a. Address 333 West Sheridan Avenue Oklahoma City OK | | 8. Lease Name and Well No. (317671) SEAWOLF 1-12 FED 81H |
| 3b. Phone No. (include area code) (405)552-6571 | | 9. API Well No. 30-025-43762 (98094) |
| 4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface NWNW / 200 FNL / 360 FWL / LAT 32.0791863 / LONG -103.5334299 At proposed prod. zone SWSW / 330 FSL / 380 FWL / LAT 32.0516152 / LONG -103.5333659 | | 10. Field and Pool, or Exploratory WC-025 G-09 S253336D / UPPER WOLF |
| 14. Distance in miles and direction from nearest town or post office* | | 11. Sec., T. R. M. or Blk. and Survey or Area SEC 1 / T26S / R33E / NMP |
| 15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 200 feet | 16. No. of acres in lease 1280 | 12. County or Parish LEA |
| 17. Spacing Unit dedicated to this well 320 | 13. State NM | |
| 18. Distance from proposed location* to nearest well, drilling, completed, 450 feet applied for, on this lease, ft. | 19. Proposed Depth 22557 feet / 12574 feet | 20. BLM/BIA Bond No. on file FED: CO1104 |
| 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3319 feet | 22. Approximate date work will start* 07/01/2017 | 23. Estimated duration 45 days |

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

- | | |
|--|---|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the BLM. |

| | | |
|--|--|--------------------|
| 25. Signature (Electronic Submission) | Name (Printed/Typed) Rebecca Deal / Ph: (405)228-8429 | Date 10/11/2016 |
| Title Regulatory Compliance Professional | | |
| Approved by (Signature) (Electronic Submission) | Name (Printed/Typed) Cody Layton / Ph: (575)234-5959 | Date 04/17/2017 |
| Title Supervisor Multiple Resources | | |

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 2)

*(Instructions on page 2)

APPROVED WITH CONDITIONS

KC
04/26/17

INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from local Federal offices.

ITEM 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

NOTICES

The Privacy Act of 1974 and regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR 3160

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service well or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

ROUTINE USE: Information from the record and/or the record will be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to allow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

Additional Operator Remarks

Location of Well

1. SHL: NWNW / 200 FNL / 360 FWL / TWSP: 26S / RANGE: 33E / SECTION: 1 / LAT: 32.0791863 / LONG: -103.5334299 (TVD: 0 feet, MD: 0 feet)
PPP: NWNW / 330 FNL / 380 FWL / TWSP: 26S / RANGE: 33E / SECTION: 1 / LAT: 32.0791863 / LONG: -103.5334299 (TVD: 12592 feet, MD: 12929 feet)
BHL: SWSW / 330 FSL / 380 FWL / TWSP: 26S / RANGE: 33E / SECTION: 12 / LAT: 32.0516152 / LONG: -103.5333659 (TVD: 12557 feet, MD: 12574 feet)

BLM Point of Contact

Name: Alana Baker
Title: Legal Instruments Examiner
Phone: 5752345922
Email: abaker@blm.gov

Review and Appeal Rights

A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, Suite 300, Arlington, VA 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.



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

Operator Certification Data Report

04/18/2017

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: 10/11/2016

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: RICHARD WEDMAN

Street Address: 6488 SEVEN RIVERS HWY

City: ARTESIA

State: NM

Zip: 88210

Phone: (575)748-1819

Email address: RICHARD.WEDMAN@DVN.COM

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:

PWD disturbance (acres):

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:

Describe 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:

Section 3 - Unlined Pits

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:

Describe 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:

PWD disturbance (acres):

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

Injection 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:

Injection well name:

Injection well API number:

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:

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: SEAWOLF 1-12 FED

Well Number: 81H

Access road engineering design attachment:

Seawolf 1-12 Fed 81H_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: N/A

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 81H_One Mile Map_09-06-2016.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 CTB 1 Plat, Battery Connect, Battery Connect Electric, Pad Connect, Flowlines (buried).

Production Facilities map:

Seawolf 1-12 Fed 81H_CTB_1_BAT_CON_01-30-2017.pdf

Seawolf 1-12 Fed 81H_Seawolf_1-12_BS_CTB_1_Plat_01-30-2017.PDF

Seawolf 1-12 Fed 81H_SEAWOLF_1-12_BS_CTB_1_R1_P Batt Conn_01-30-2017.PDF

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: SEAWOLF 1-12 FED

Well Number: 81H

Seawolf 1-12 Fed 81H_PAD_CONNECT_01-30-2017.PDF

SEAWOLF 1-12 Fed 81H_Flowlines_01-30-2017.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): 350000

Source volume (acre-feet): 45.112583

Source volume (gal): 14700000

Water source and transportation map:

Seawolf 1-12 Fed 81H_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 aquifer:

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:

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: SEAWOLF 1-12 FED

Well Number: 81H

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 81H_CALICHE MAP_01-30-2017.pdf

Section 7 - Methods for Handling Waste

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 FACILITY **Disposal location ownership:** PRIVATE

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.

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:

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: SEAWOLF 1-12 FED

Well Number: 81H

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: 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: N/A

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.

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 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

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: SEAWOLF 1-12 FED

Well Number: 81H

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 81H_Well Layout_01-24-2017.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: NEW

Recontouring attachment:

Seawolf 1-12 Fed 81H_Interim Reclamation_01-24-2017.pdf

Drainage/Erosion control construction: N/A

Drainage/Erosion control reclamation: N/A

Wellpad long term disturbance (acres): 2.438

Wellpad short term disturbance (acres): 4.7015

Access road long term disturbance (acres): 0.04265

Access road short term disturbance (acres): 0.04265

Pipeline long term disturbance (acres): 2.5981405

Pipeline short term disturbance (acres): 2.5981405

Other long term disturbance (acres): 0

Other short term disturbance (acres): 0

Total long term disturbance: 5.0787907

Total short term disturbance: 7.3422904

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.

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: SEAWOLF 1-12 FED

Well Number: 81H

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

Total pounds/Acre:

| Seed Type | Pounds/Acre |
|-----------|-------------|
|-----------|-------------|

Seed reclamation attachment:

Operator Contact/Responsible Official Contact Info

First Name: Cole

Last Name: Metcalf

Phone: (575)748-1872

Email: cole.metcalf@dvn.com

Seedbed prep:

Seed BMP:

Seed method:

Existing invasive species? NO

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: SEAWOLF 1-12 FED

Well Number: 81H

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: 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:

Disturbance type: EXISTING ACCESS ROAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: SEAWOLF 1-12 FED

Well Number: 81H

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:

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:

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: SEAWOLF 1-12 FED

Well Number: 81H

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): 281001 ROW - ROADS,288100 ROW – O&G Pipeline,Other

ROW Applications

SUPO Additional Information: Seawolf 1-12 CTB 1 Battery Connect, Battery Connect Electric, Plat, Pad Connect, Flowlines (buried).

Use a previously conducted onsite? YES

Previous Onsite information: On site conducted 5/26/2015

Other SUPO Attachment

SEAWOLF 1-12 Fed 81H_Flowlines_01-30-2017.pdf

Seawolf 1-12 Fed 81H_PAD_CONNECT_01-30-2017.PDF

Seawolf 1-12 Fed 81H_CTB_1_BAT_CON_01-30-2017.pdf

Seawolf 1-12 Fed 81H_SW_1-12_BS_CTB_1_R1_P Batt Conn_01-30-2017.PDF

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: SEAWOLF 1-12 FED

Well Number: 81H

Seawolf 1-12 Fed 81H_Seawolf_1-12_BS_CTB_1_Plat_01-30-2017.PDF



APD ID: 10400003275

Submission Date: 10/11/2016

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: SEAWOLF 1-12 FED

Well Number: 81H

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - General

APD ID: 10400003275

Tie to previous NOS?

Submission Date: 10/11/2016

BLM Office: HOBBS

User: Rebecca Deal

Title: Regulatory Compliance
Professional

Federal/Indian APD: FED

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: 81H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: WC-025 G-09
S253336D

Pool Name: UPPER
WOLFCAMP

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: SEAWOLF 1-12 FED

Well Number: 81H

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,
& 102H

SEAWOLF 1-12 FED

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 town:

Distance to nearest well: 450 FT

Distance to lease line: 200 FT

Reservoir well spacing assigned acres Measurement: 320 Acres

Well plat: SEAWOLF 1-12 FED 81H_C-102 Rev Signed_02-14-2017.pdf

Well work start Date: 07/01/2017

Duration: 45 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Vertical Datum: NAVD88

Survey number: 3918F

STATE: NEW MEXICO

Meridian: NEW MEXICO PRINCIPAL **County:** LEA

Latitude: 32.0791863

Longitude: -103.5334299

SHL

Elevation: 3319

MD: 0

TVD: 0

Leg #: 1

Lease Type: FEDERAL

Lease #: NMNM114988

NS-Foot: 200

NS Indicator: FNL

EW-Foot: 360

EW Indicator: FWL

Twsp: 26S

Range: 33E

Section: 1

Aliquot: NWNW

Lot:

Tract:

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: SEAWOLF 1-12 FED

Well Number: 81H

| | | | |
|-----------------|-----------------------------|---------------------------------------|--------------------|
| | STATE: NEW MEXICO | Meridian: NEW MEXICO PRINCIPAL | County: LEA |
| | Latitude: 32.0791863 | Longitude: -103.5334299 | |
| KOP | Elevation: -8700 | MD: 12027 | TVD: 12019 |
| Leg #: 1 | Lease Type: FEDERAL | Lease #: NMNM114988 | |
| | NS-Foot: 11 | NS Indicator: FNL | |
| | EW-Foot: 380 | EW Indicator: FWL | |
| | Twsp: 26S | Range: 33E | Section: 1 |
| | Aliquot: NWNW | Lot: | Tract: |
| | STATE: NEW MEXICO | Meridian: NEW MEXICO PRINCIPAL | County: LEA |
| | Latitude: 32.0791863 | Longitude: -103.5334299 | |
| PPP | Elevation: -9273 | MD: 12929 | TVD: 12592 |
| Leg #: 1 | Lease Type: FEDERAL | Lease #: NMNM114988 | |
| | NS-Foot: 330 | NS Indicator: FNL | |
| | EW-Foot: 380 | EW Indicator: FWL | |
| | Twsp: 26S | Range: 33E | Section: 1 |
| | Aliquot: NWNW | Lot: | Tract: |
| | STATE: NEW MEXICO | Meridian: NEW MEXICO PRINCIPAL | County: LEA |
| | Latitude: 32.0516152 | Longitude: -103.5333659 | |
| EXIT | Elevation: -9238 | MD: 12574 | TVD: 12557 |
| Leg #: 1 | Lease Type: FEDERAL | Lease #: NMNM114988 | |
| | NS-Foot: 330 | NS Indicator: FSL | |
| | EW-Foot: 380 | EW Indicator: FWL | |
| | Twsp: 26S | Range: 33E | Section: 12 |
| | Aliquot: SWSW | Lot: | Tract: |
| | STATE: NEW MEXICO | Meridian: NEW MEXICO PRINCIPAL | County: LEA |
| | Latitude: 32.0516152 | Longitude: -103.5333659 | |
| BHL | Elevation: -9238 | MD: 12574 | TVD: 12557 |
| Leg #: 1 | Lease Type: FEDERAL | Lease #: NMNM114988 | |
| | NS-Foot: 330 | NS Indicator: FSL | |
| | EW-Foot: 380 | EW Indicator: FWL | |

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: SEAWOLF 1-12 FED

Well Number: 81H

Twsp: 26S

Range: 33E

Section: 12

Aliquot: SWSW

Lot:

Tract:

APD ID: 10400003275

Submission Date: 10/11/2016

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: SEAWOLF 1-12 FED

Well Number: 81H

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

True Vertical Depth: 1332

Measured Depth: 1332

Mineral Resource(s):

NONE

Is this a producing formation? N

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: SEAWOLF 1-12 FED

Well Number: 81H

ID: Formation 3

Name: BASE OF SALT

Lithology(ies):

SALT

Elevation: -1560

True Vertical Depth: 4879

Measured Depth: 4879

Mineral Resource(s):

NONE

Is this a producing formation? N

ID: Formation 4

Name: DELAWARE

Lithology(ies):

SANDSTONE

Elevation: -1802

True Vertical Depth: 5121

Measured Depth: 5121

Mineral Resource(s):

NATURAL GAS

OIL

Is this a producing formation? N

ID: Formation 5

Name: BRUSHY CANYON LOWER

Lithology(ies):

SANDSTONE

Elevation: -5802

True Vertical Depth: 9121

Measured Depth: 9121

Mineral Resource(s):

NATURAL GAS

OIL

Is this a producing formation? N

ID: Formation 6

Name: BONE SPRING LIME

Lithology(ies):

LIMESTONE

Elevation: -5973

True Vertical Depth: 9292

Measured Depth: 9292

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: SEAWOLF 1-12 FED

Well Number: 81H

Mineral Resource(s):

NATURAL GAS

OIL

Is this a producing formation? N

ID: Formation 7

Name: BONE SPRING

Lithology(ies):

SANDSTONE

Elevation: -6928

True Vertical Depth: 10247

Measured Depth: 10247

Mineral Resource(s):

NATURAL GAS

OIL

Is this a producing formation? N

ID: Formation 8

Name: BONE SPRING LIME

Lithology(ies):

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

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: SEAWOLF 1-12 FED

Well Number: 81H

ID: 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: -9026

True Vertical Depth: 12345

Measured Depth: 12345

Mineral Resource(s):

NATURAL GAS

OIL

Is this a producing formation? Y

ID: Formation 13

Name: WOLFCAMP

Lithology(ies):

SHALE

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: SEAWOLF 1-12 FED

Well Number: 81H

Elevation: -9277

True Vertical Depth: 12596

Measured Depth: 12596

Mineral Resource(s):

NATURAL GAS

OIL

Is this a producing formation? Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 12557

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 81H_5M BOPE Double Ram and CLS Schematic_09-06-2016.pdf

BOP Diagram Attachment:

Seawolf 1-12 Fed 81H_5M BOPE Double Ram and CLS Schematic_09-06-2016.pdf

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: SEAWOLF 1-12 FED

Well Number: 81H

Pressure Rating (PSI): 5M

Rating Depth: 12557

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 81H_5M BOPE Double Ram and CLS Schematic_09-06-2016.pdf

BOP Diagram Attachment:

Seawolf 1-12 Fed 81H_5M BOPE Double Ram and CLS Schematic_09-06-2016.pdf

Section 3 - Casing

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: SEAWOLF 1-12 FED

Well Number: 81H

See
COA

String Type: SURFACE

Other String Type:

Hole Size: 17.5

Top setting depth MD: 0

Top setting depth TVD: 0

Top setting depth MSL: -9238

Bottom setting depth MD: 1000

Bottom setting depth TVD: 1000

Bottom setting depth MSL: -10038

Calculated casing length MD: 1000

Casing Size: 13.75

Other Size

Grade: ~~H-40~~ J-55

Other Grade:

Weight: ~~48~~ 54.5

Joint Type: ~~STG~~ 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 81H_Surface Casing Assumptions_09-16-2016.docx

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: SEAWOLF 1-12 FED

Well Number: 81H

String Type: INTERMEDIATE

Other String Type:

Hole Size: 12.25

Top setting depth MD: 0

Top setting depth TVD: 0

Top setting depth MSL: -9238

Bottom setting depth MD: 11300

Bottom setting depth TVD: 11300

Bottom setting depth MSL: -20538

Calculated casing length MD: 11300

Casing Size: 9.625

Other Size

Grade: P-110 *EC*

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 81H_Intermediate Casing Assumptions_09-16-2016.docx

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: SEAWOLF 1-12 FED

Well Number: 81H

String Type: PRODUCTION

Other String Type:

Hole Size: 8.75

Top setting depth MD: 0

Top setting depth TVD: 0

Top setting depth MSL: -9238

Bottom setting depth MD: 22574

Bottom setting depth TVD: 12557

Bottom setting depth MSL: -21799

Calculated casing length MD: 22574

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 81H_Production Casing Assumptions_09-16-2016.docx

Section 4 - Cement

Casing String Type: SURFACE

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: SEAWOLF 1-12 FED

Well Number: 81H

Stage Tool Depth:

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

Quantity (sks): 1580

Yield (cu.ff./sk): 2.31

Volume (cu.ft.): 3640

Percent Excess: 30

Density: 11.9

Fall

Top MD of Segment: 9400

Bottom MD Segment: 11300

Cement Type: C

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% BWOC
Bentonite + 0.05% BWOC SA-1015 +
0.3% BWOC HR-800 + 0.2% BWOC

Quantity (sks): 144

Yield (cu.ff./sk): 2.31

Volume (cu.ft.): 333

Percent Excess: 25

Additives: FE-2 + 0.125 lb/sk Pol-E-Flake + 0.5
lb/sk D-Air 5000

Density: 11.9

Fall

Top MD of Segment: 12300

Bottom MD Segment: 22574

Cement Type: H

Quantity (sks): 2379

Yield (cu.ff./sk): 1.2

Volume (cu.ft.): 2842

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: 81H

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

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

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

Circulating Medium Table

Top Depth: 0

Bottom Depth: 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:

Top Depth: 1000

Bottom Depth: 11300

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:

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: SEAWOLF 1-12 FED

Well Number: 81H

Top Depth: 11300

Bottom Depth: 22574

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:

Section 6 - Test, Logging, Coring

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

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

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

GR

Coring operation description for the well:

N/A

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 7200

Anticipated Surface Pressure: 4429.76

Anticipated Bottom Hole Temperature(F): 165

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

Describe:

Contingency Plans geohazards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

Seawolf 1-12 Fed 81H_H2S Plan_09-06-2016.pdf

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: SEAWOLF 1-12 FED

Well Number: 81H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Seawolf 1-12 Fed 81H_Directional Plan_01-24-2017.pdf

Other proposed operations facets description:

MULTI-BOWL VERBIAGE
MULTI-BOWL WELLHEAD
CLOSED-LOOP DESIGN PLAN
ANTICOLLISION PLAN

Other proposed operations facets attachment:

Seawolf 1-12 Fed 81H_Multi-Bowl Wellhead_09-06-2016.pdf
Seawolf 1-12 Fed 81H_Multi-Bowl Verbiage_3M_09-06-2016.DOCX
Seawolf 1-12 Fed 81H_Closed Loop Design Plan_09-06-2016.pdf
Seawolf 1-12 Fed 81H_AC Report_09-06-2016.pdf

Other Variance attachment:

Seawolf 1-12 Fed 81H_H_P Co-flex hose_09-06-2016.pdf

OCTG Casing



TABLE 1 - BASIC DATA SHEET

| O.D. | T&C LB FT | PE LB FT | GRADE |
|-------|-----------|----------|---------|
| 9.625 | 40.00 | 38.97 | P110 EC |

Grade - Material Properties

| | | |
|---------------------------|-------|-----|
| Minimum Yield Strength: | 125.0 | ksi |
| Maximum Yield Strength: | 140 | ksi |
| Minimum Tensile Strength: | 135 | ksi |

Pipe Body Data (PE)

Geometry

| | | |
|------------------|--------|-------------------|
| Nominal ID: | 8.835 | inch |
| Wall: | 0.395 | inch |
| Nominal Area: | 11.454 | inch ² |
| API Drift: | 8.679 | inch |
| Alternate Drift: | 8.750 | inch |

Performance

| | | |
|--|-------|------|
| Pipe Body Yield Strength: | 1,432 | kips |
| Collapse Resistance: | 4,230 | psi |
| Internal Yield Pressure (<i>API Historical</i>): | 8,980 | psi |

Lamé - Internal Yield Pressure

| | | |
|-----------------------|-------|-----|
| Lamé open: | 8,950 | psi |
| Lamé capped: | 9,970 | psi |
| Lamé ductile rupture: | 9,700 | psi |

API Connection Data

| | | |
|------------------------|-------|------|
| STC Internal Pressure: | 8,980 | psi |
| STC Joint Strength: | 861 | kips |
| LC Internal Pressure: | 8,980 | psi |
| LC Joint Strength: | 988 | kips |
| BC Internal Pressure: | 8,980 | psi |
| BC Joint Strength: | 1,266 | kips |

LC Torque (ft-lbs)

minimum: 7,410 optimum: 9,880 maximum: 12,350

This data sheet is for informational purposes only. While every effort has been made to ensure the accuracy of all data and that the information contained herein is correct, this material is presented as a reference guide only. V & M Tubes assumes no responsibility for the results obtained through the use of this material.

API grades with enhanced performance are supplied with API couplings produced from standard API grades.

7/20/01 12:40



Fluid Technology

ContiTech Beattie Corp.
Website: www.contitechbeattie.com

Monday, June 14, 2010

RE: Drilling & Production Hoses
Lifting & Safety Equipment

To Helmerich & Payne,

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

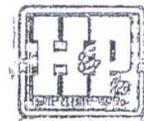
Should you have any questions or require any additional information/clarifications then please do not hesitate to contact us.

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

Best regards,

Robin Hodgson
Sales Manager
ContiTech Beattie Corp

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



RIG 212



QUALITY DOCUMENT

PHOENIX RUBBER INDUSTRIAL LTD.

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Phone: (3662) 566-737 • Fax: (3662) 566-738

SALES & MARKETING: H-1092 Budapest, Ráday u. 42-44. Hungary • H-1440 Budapest, P. O. Box 26
Phone: (361) 456-4200 • Fax: (361) 217-2972, 456-4273 • www.turusemerge.hu

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

H&P Flex Rig Location Layout

5 Well Pad

