| B SUNDRY | UNITED STATE PARTMENT OF THE I UREAU OF LAND MANA NOTICES AND REPO is form for proposals to II. Use form 3160-3 (AP | NTERIOR GEMENT | LLS | ocd Huitbe | OMB NO | PPROVED . 1004-0137 nuary 31, 2018 Tribe Name | |
|---|--|--|--|--------------------------------|---|--|-----------|
| SUBMIT IN | TRIPLICATE - Other ins | tructions on | HOBBS | OCD | 7. If Unit or CA/Agree | ment, Name and/ | or No. |
| 1. Type of Well Soli Well Gas Well Ott | | | AUG 2 | 9 2017 | 8. Well Name and No. SEAWOLF 1-12 F | ED 92H | / |
| 2. Name of Operator DEVON ENERGY PRODUCT | Contact: ION CONTRACT: Rebecca.E | REBECCA D Deal@dvn.com | EAL | EIVED | API Well No. 30-025-43769-0 | D-X1 | |
| 3a. Address 333 WEST SHERIDAN AVEN OKLAHOMA CITY, OK 7310 | | 3b. Phone No Ph: 405-22 | (include area code | e) | 10. Field and Pool or E WC025G08S203 | xploratory Area | SPRING |
| 4. Location of Well (Footage, Sec., 7 | | 1) | | | 11. County or Parish, S | tate | |
| Sec 1 T26S R33E NWNW 20 32.079185 N Lat, 103.533142 | | | | | LEA COUNTY, M | M | |
| 12. CHECK THE AI | PPROPRIATE BOX(ES) | TO INDICA | TE NATURE (| OF NOTICE, | REPORT, OR OTH | ER DATA | |
| TYPE OF SUBMISSION | | | ТҮРЕ С | OF ACTION | | | |
| Notice of Intent | □ Acidize | Dee Dee | ben | Product | ion (Start/Resume) | U Water Shu | t-Off |
| | □ Alter Casing | 🗖 Hyd | raulic Fracturing | Reclam | ation | U Well Integ | rity |
| Subsequent Report | Casing Repair | _ | Construction | Recomp | | Other Change to Or | riginal A |
| Final Abandonment Notice | Change Plans | 🗖 Plug | and Abandon | Tempor Water I | arily Abandon | PD | |
| testing has been completed. Final Al determined that the site is ready for f Changes from APD: Intermediate Hole size: 9.875? hole size from 1000? to interval. Intermediate cement job: 3 Options listed 1.) Light weight lead slurry foll 2.) 2 Stage cement job with D 3.) Intermediate squeeze cont Mud system changed from sa | inal inspection. o 9200?. 7 5/8? 29.7# BT casing point. 7 5/8? Flus lowed by 14.5# tail V tool set above Delawar ingency if well goes on fu | TC casing will th joint casing te ull losses durin | be run from sur will be run thro | rface to 9200 ugh this hole | ?. | R | |
| 14. I hereby certify that the foregoing is | | | | | | | |
| | Electronic Submission # For DEVON ENER | GY PRODUCTI | ON COMPAN. s | ent to the Hot | bs | | |
| Com Name(Printed/Typed) REBECC/ | mitted to AFMSS for proc | essing by CHA | | | (17CN0076SE) MPLIANCE PROFES | 201 | |
| Ranc(1/uneu/Typeu) REBECC/ | | | The REGU | LATORT CO | WIFLIANCE FROFE | 551 | |
| Signature (Electronic S | Submission) | | Date 08/16/2 | 2017 | | | |
| | THIS SPACE FO | OR FEDERA | L OR STATE | OFFICE U | SE | | |
| _Approved By_CHARLES_NIMMER | | | TitlePETROL | EUM ENGINI | EER | Date 08/ | /24/2017 |
| Conditions of approval, if any, are attache certify that the applicant holds legal or equ which would entitle the applicant to condu | uitable title to those rights in the | s not warrant or e subject lease | Office Hobbs | | | | |
| Title 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent | U.S.C. Section 1212, make it a statements or representations as | crime for any person of the second se | rson knowingly an thin its jurisdictior | d willfully to ma n. | ake to any department or a | agency of the Uni | ted |
| (Instructions on page 2) ** BLM REV | ISED ** BLM REVISEI | D ** BLM RE | VISED ** BL | M REVISED |) ** BLM REVISED | ** | V |

Additional data for EC transaction #384877 that would not fit on the form

32. Additional remarks, continued

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*

Please see the attached revised Drill Plan.

Devon Energy, Seawolf 1-12 92H

Casing Program

| Hole | Hole Casing Interval | | Csg. | Weight | Grade | Conn. | SF | SF | SF |
|--------|----------------------|---------|--------|--------|-------|--------------|----------|-----------|---------|
| Size | From | То | Size | (lbs) | | | Collapse | Bur st | Tension |
| 9.875" | 0 | 9200' | 7.625" | 29.7 | P110 | BTC | 1.125 | 1.25 | 1.6 |
| 8.75" | 9200' | 13,042' | 7.625" | 29.7 | P110 | Flushmax III | 1.125 | 1.25 | 1.6 |

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

A variance is requested to wave the centralizer requirement for the 7-5/8" flush casing in the 8-3/4" hole

Cementing Program

| Casing | | | H ₂ O | Yld | Slurry Description | | | | |
|---------------|---------------------------|------|------------------|------|--|--|--|--|--|
| | | lb/ | gal/sk | ft3/ | | | | | |
| | | gal | Service Service | sack | | | | | |
| | 840 | 9 | 13.5 | 3.27 | Lead: Tuned Light [®] Cement | | | | |
| 7-5/8" Int | 217 | 14.5 | 5.31 | 1.2 | Tail: (50:50) Class H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC | | | | |
| | | | | | HR-601 + 2% bwoc Bentonite | | | | |
| | 311 | 10.9 | 20.6 | 3.31 | 1 st Stage Lead: (50:40:10) Class C: Silicalite: Enhancer 923 + 10% BWOC Bentonite + 0.05% BWOC SA-1015 + 0.3% BWOC HR-800 + 0.2% BWOC FE-2 + 0.125 lb/sk Pol-E-Flake + 0.5 lb/sk D-Air 5000 | | | | |
| 7-5/8" | 232 | 14.5 | 5.31 | 1.2 | 1 st Stage Tail: (50:50) Class H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC HR-601 + 2% bwoc Bentonite | | | | |
| Int Two | | | | | | | | | |
| Stage | 230 | 10.9 | 20.6 | 3.31 | 2 nd Stage Lead: (50:40:10) Class C: Silicalite: Enhancer 923 + 10% BWOC Bentonite + 0.05% BWOC SA-1015 + 0.3% BWOC HR-800 + 0.2% BWOC FE-2 + 0.125 lb/sk Pol-E-Flake + 0.5 lb/sk D-Air 5000 | | | | |
| | 217 | 14.8 | 6.32 | 1.33 | 2 nd Stage Tail: Class C Cement + 0.125 lbs/sack Poly-E- Flake | | | | |
| | 1730 | 14.8 | 6.32 | 1.32 | Class C Cement + 0.125 lbs/sack Poly-E-Flake | | | | |
| 7-5/8" | 295 | 13.2 | 6.32 | 1.46 | Class H Cement: Poz (Fly Ash) + 6% BWOC Bentonite + 0.25% BWOC HR-601 + 0.125 Ibs/sack Poly-E-Flake | | | | |
| Squeeze | Squeeze 220 14.4 6.32 1.2 | | | | (50:50) Class H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC HR-601 2% bwoc Bentonite | | | | |

If a DV tool is used, depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe. Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Devon Energy, Seawolf 1-12 92H

| Casing String | TOC | % Excess |
|--------------------------------------|--|----------|
| 7-5/8" Intermediate | 0' | 30% |
| 7-5/8" Intermediate Two Stage Option | 1^{St} Stage = 4900' / 2^{nd} Stage = 0' | 30% |

Pressure Control Equipment

| BOP installed and tested before drilling which hole? | Size? | Min. Required WP | T | уре | - | Tested to: |
|---|---------|------------------------|------------|--------|---|-------------------------------|
| | | | Anı | nular | X | 50% of rated working pressure |
| 8-3/4" | 13-5/8" | 5M | Bline | d Ram | X | |
| 0-3/4 | 15-5/6 | 5111 | Pipe | Ram | X | 5M |
| | | | Double Ram | | X | 5101 |
| | | | Other* | | | |
| | | | | | | |
| | | | Pipe | Ram | X | |
| | | | Doub | le Ram | X | |
| | | | Other * | | | |
| | | | An | nular | | |
| | | | Bline | d Ram | | |
| | | | Pipe | Ram | | |
| | | | Double Ram | | | |
| | | | Other | | | |
| | | | * | | | |

*Specify if additional ram is utilized.

Mud Program

| Depth | | Туре | Weight (ppg) | Viscosity | Water Loss | |
|-------|---------|------------------|--------------|-----------|------------|--|
| From | To | | | | | |
| 1000' | 13,042' | OBM/Cut Brine | 8.6-10 | 34-65 | N/C - 6 | |

 Brine
 Brine

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

| What will be used to monitor the loss or gain | PVT/Pason/Visual Monitoring |
|---|-----------------------------|
| of fluid? | |

2 Drilling Plan

PECOS DISTRICT DRILLING OPERATIONS CONDITIONS OF APPROVAL

| OPER | ATOR'S NAME: | Devon Energy Production Co, LP |
|-----------|---------------|-----------------------------------|
| | LEASE NO.: | NMNM114988 |
| WEL | L NAME & NO.: | 92H-Seawolf 1 12 Fed |
| SURFACE H | OLE FOOTAGE: | 170'/N & 685'/W |
| BOTTOM H | IOLE FOOTAGE | 330'/S & 1736'/W |
| | LOCATION: | Section 1, T.26 S., R.33 E., NMPM |
| | COUNTY: | Lea County, New Mexico |

A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 393-3612

- 1. A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the Wolfcamp formation. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.
- Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval. If the drilling rig is removed without approval – an Incident of Non-Compliance will be written and will be a "Major" violation.
- 3. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works is located, this does not include the dog house or stairway area.
- 4. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper

copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

B. CASING

Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

Wait on cement (WOC) for Water Basin:

After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least <u>8 hours</u>. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. DURING THIS WOC TIME, NO DRILL PIPE, ETC. SHALL BE RUN IN THE HOLE.

Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

Risks:

Medium Cave/Karst Possibility of water flows in the Castile and in the Salado. Possibility of lost circulation in the Rustler, in the Red Beds and in the Delaware.

- A. The 13 3/8 inch surface casing shall be set at approximately 1000 feet (in a competent bed <u>below the Magenta Dolomite</u>, which is a <u>Member of the Rustler</u>, and if salt is encountered, set casing at least 25 feet above the salt) and cemented to the surface.
 - 1. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after

completing the cement job.

- 2. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.
- 3. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- 4. If cement falls back, remedial cementing will be done prior to drilling out that string.
- B. The minimum required fill of cement behind the 9 5/8 inch intermediate casing (in the basal anhydrite of the Castile Formation) is:

Cement to surface. If cement does not circulate see B.1.a, c-d above.

The intermediate casing shall be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing, which is calculated by BLM standards.

C. The minimum required fill of cement behind the 5 1/2 inch production casing is:

Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification.

Note: All perforations shall be a minimum of 0330 feet FEL.

4. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

C. PRESSURE CONTROL

- A. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API 53.
- B. Variance approved to use flex line from BOP to choke manifold. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the

company man's trailer and on the rig floor. If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).

- C. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. <u>Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the intermediate casing shoe shall be 10,000 (10M) psi. 10M system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.</u>
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Operator shall perform the intermediate casing integrity test to 70% of the casing burst. This will test the multi-bowl seals.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- D. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - 1. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - 2. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer**. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength,

whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

- 3. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- 4. The results of the test shall be reported to the appropriate BLM office.
- 5. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- 6. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

D. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

E. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

CLN 08242017

263301D APD17-183 Seawolf 1-12 Fed 92H 30015 NM114988 Devon 12-54 Sundry 384877 CLN 08242017

| 103/4 | surface | csg in a | 14 3/4 | inch hole. | , 154 6 AND & MO | Design I | Factors | SUF | RFACE |
|-----------------|------------------|------------------|--------------------|---------------------|------------------------|-------------------------|---------------------|-----------------------|--------------------|
| Segment | #/ft | Grade | Che We | Coupling | Joint | Collapse | Burst | Length | Weight |
| "A" | 40.50 | J | 55 | ST&C | 10.37 | 3.46 | 0.45 | 1,000 | 40,500 |
| "B" | | | | | | | | 0 | 0 |
| w/8.4#/g r | nud, 30min Sfo | Csg Test psig: | 1,500 | Tail Cmt | does | circ to sfc. | Totals: | 1,000 | 40,500 |
| comparison of | f Proposed t | o Minimum | Required Ce | ment Volume | S | | | | |
| Hole | Annular | 1 Stage | 1 Stage | Min | 1 Stage | Drilling | Calc | Req'd | Min Dist |
| Size | Volume | Cmt Sx | CuFt Cmt | Cu Ft | % Excess | Mud Wt | MASP | BOPE | Hole-Cpl |
| 14 3/4 | 0.5563 | 623 | 835 | 582 | 43 | 8.80 | 4043 | 5M | 1.50 |
| Burst Frac Grad | ient(s) for Se | gment(s) A, | B = 3.13, b | All > 0.70, | a mar a dara a ma | v u satu a satu si sacu | n anna a saine a si | n nan nan nan | |
| 7 5/8 | casing in | side the | 10 3/4 | 1 anar 2 ana a cate | a sever a sever a sev | Design I | Factors | INTERI | MEDIATE |
| Segment | #/ft | Grade | | Coupling | Body | Collapse | Burst | Length | Weight |
| "A" | 29.70 | Р | 110 | BUTT | | 1.68 | 1.35 | 9,200 | 273,240 |
| "B" | 29.70 | | 110 | BUTT | 5.44 | 1.22 | 1.08 | 3,485 | 103,50 |
| 7 | | c Csg Test psig: | | | | | Totals: | 12,685 | 376,74 |
| | | | | ieve a top of | 0 | ft from su | | 1000 | overlap. |
| Hole | Annular | 1 Stage | 1 Stage | Min | 1 Stage | Drilling | Calc | Req'd | Min Dist |
| Size | Volume | Cmt Sx | CuFt Cmt | Cu Ft | % Excess | Mud Wt | MASP | BOPE | Hole-Cpl |
| 8 3/4 | 0.1005 | 1057 | 3007 | 1419 | 112 | 10.00 | 5128 | 10M | 0.13 |
| D V Tool(s): | | | 4900 | | | | sum of sx | Σ CuFt | Σ%exces |
| by stage % : | | 65 | 63 | | | | 990 | 2330 | 64 |
| Assumed 1/3 Fl | uid Filled for | Collapse Calo | culation | | | | MASP is with | in 10% of 50 | 00psig, need |
| Tail cmt | a nan a naar a m | | 1999 a 1999 a 1999 | a maa e ama a maar | , and a state of state | | a ana a ana a a | 107 A AND A AND 1 | , and a loss of an |
| 51/2 | casing in | side the | 7 5/8 | 2 Mar 1 1997 1 1997 | 7 mm v mm v m | Design Fa | ctors | PROD | UCTION |
| Segment | #/ft | Grade | | Coupling | Joint | Collapse | Burst | Length | Weight |
| "A" | 20.00 | P | 110 | LT&C | 2.01 | 1.59 | 1.81 | 12,218 | 244,360 |
| "B" | 20.00 | P | 110 | LT&C | 6.44 | 1.42 | 1.81 | 10,540 | 210,800 |
| w/8.4#/g r | nud, 30min Sf | c Csg Test psig: | 2,688 | | | | Totals: | 22,758 | 455,160 |
| B | would be: | | | | 51.52 | 1.53 | if it were a | vertical we | ellbore. |
| No Dile | ot Hole Pla | anad | MTD | Max VTD | Csg VD | Curve KOP | Dogleg ^o | Severity ^o | MEOC |
| NO PIIC | n noie Pla | lined | 22758 | 12713 | 12713 | 12218 | 90 | 10 | 13118 |
| The ce | ement volum | ne(s) are inte | nded to ach | ieve a top of | 11818 | ft from su | irface or a | 867 | overlap. |
| Hole | Annular | 1 Stage | 1 Stage | Min | 1 Stage | Drilling | Calc | Req'd | Min Dis |
| - | Volume | Cmt Sx | CuFt Cmt | Cu Ft | % Excess | Mud Wt | MASP | BOPE | Hole-Cpl |
| Size | | | 1100 | 007 | 00 | 10.00 | | | 0.62 |
| Size 6 3/4 | 0.0835 | 852 | 1133 | 927 | 22 | 12.00 | | | 0.63 |

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