A-1 P&A Scenario:
Pull Completion (Quantum packer is retrieval or drillable see as built schematic. Leave everything below EZSV. Everything below EZSV appears to be proper barrier). Cut and pull 7" and 10-3/4" (cut within casing)
Assumptions: See embedded Notes

<table>
<thead>
<tr>
<th>MD</th>
<th>TVD</th>
</tr>
</thead>
<tbody>
<tr>
<td>WD</td>
<td>470</td>
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<tr>
<td>RKB</td>
<td>69.5</td>
</tr>
<tr>
<td>RKB to ML</td>
<td>548.5</td>
</tr>
</tbody>
</table>

**Cut point 30" x 16" x 10-3/4" x 7"
563.5**

**16" shoe**
375
Top of Plug 689.5
Bottom of Plug 688.5
Bridge Plug 689.5
10-3/4" cut point 948.5

**TOC (annulus)** 548.5
16" shoe 1520

**Plug 2**

**TOC (annulus)** 3595
TOC (wellbore) 3950
Bridge Plug 3950
7" cut point 4000
10-3/4" shoe 4095

**TOC (annulus)** 8470
TOC (wellbore) 8370
Bridge Plug 9130
L Top Perf 8790 8499
L Base Perf 8127 8538

**EZSV** 9318
L-1 Top Perf 9126 8843
L-1 Base Perf 9146 8862

**CSP** 9235
Tubing cut 9240
M Sand Top Perf 9513
M Sand Base Perf 9885
TD/7" shoe 9176

**Plug 3**

**TOC (annulus)** 548.5
16" shoe 1520

**Plug 3 is a combination barrier for:**
250.1715.a (8) A well with casing:
AND
250.1715.a (4) A casing stub where the stub end is within the casing

**Plug 3 is a combination barrier for:**
250.1715.a (8) A well with casing:
AND
250.1715.a (4) A casing stub where the stub end is within the casing

**Plug (1)**
BSEE: 250.1715.a (3) A perforated zone that is currently open and not previously squeezed or isolated

- Isolation of perforations
- Isolation of perforations

**Testing/Verification Requirements**

<table>
<thead>
<tr>
<th>Requirement: BSSE</th>
<th>Leak Path Addressed</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**Plug (2)**
BSEE: 250.1715.a (10) A well with casing:

- A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.

**Plug (3)**
BSEE: 250.1715.a (11) Two independent barriers, one must be mechanical barrier, in the center of the wellbore as described in 250.420.c.(1)

- A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.
- A cement retainer or bridge plug set at least 50 to 100 feet above the stub end with at least 50 feet of cement on top of the retainer or bridge plug; or

- A bridge plug set 50 to 100 ft above the top of the perforated interval and at least 50 feet of cement on top of the bridge plug.
A-1 P&A Scenario option 2:
M and L-1 Sands previously abandoned with bridge plugs and cement.
Squeeze L-Sand perforations with 2-3/8" tubing.
Install tubing plug in XN landing nipple @ 8794 ft MD.
Cut 2-7/8" tubing @ ~8694 ft MD (~ 100 ft above tubing plug).

Assumptions:

- See embedded Notes.
- 7" shoe/TD @ 9976 ft MD.
- 9424 ft TVD.
- XN Nipple.
- Tubing Plug.

Requirements:
- BSSE: 250.1715(a)(6) An annular space that communicates with open hole and extends to the mudline:
  A cement plug at least 200 ft long set in the annular space.
  Perforate 7" casing, squeeze cement to B annulus 7" x 10-3/4" annulus (B annulus) Allow for sufficient WOC.
  Pressure test.

- BSSE: 250.1715(a)(8) A well with casing:
  A cement surface plug at least 150 feet long set in the smallest casing that extends to the mudline with the top of the plug no more than 150 feet below the mudline.
  7" Wellbore
  Allow for sufficient WOC, tag up with agreed upon weight.
  Pressure test.
  All cement jobs must be designed to API Spec 11D1 Pressure test.
  Regulation 250.420.c.(1) and (2)

- BSSE: 250.1715(a)(11) Two independent barriers, one must be mechanical barrier, in the center of the wellbore as described in 250.420(b)(3)
  Center wellbore
  Packer must be designed to API Spec 11D1 Pressure test.
  Regulation 250.420.d.

- 250.1716.(a)
  To what depth must I remove wellheads and casings?
  Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mudline.
**MC 20 Well A 001 Option 3**

**TVD Requirement:** BSSE Leak Path Addressed

**Testing/Verification Requirements**

- WD 479
- RKB 70
- RKB to ML 549
- Cut point 30"x16"x10-3/4"x7"
- 30" shoe 889
- Plug 3
- Top of Plug 699
- Bottom of Plug 849
- Bridge plug 849
- 7" x 10-3/4" cut 899
- TOC (annulus) 549
- 16" shoe 1529
- Plug 2
- Perforate 7" casing, squeeze cement to B annulus
- TOC (annulus) 3595
- 10-3/4" shoe 4095
- TOC (annulus) 8470
- 2-7/8" tubing cut point 8694
- Plug 1
- Tubing Plug 8794
- XN Nipple 8794
- Quantum packer 8841
- Top of screen 8956
- L Sand Top Perf 8970
- Squeeze cement through L-Sand Perforations
- Isolation of L sands
- L Sand Base Perf 9012
- TOC 8930
- EZSV 9018
- Quantum Packer 9023
- Top of screen 9118
- L-1 Sand Top Perf 9126 8643
- L-1 Sand Base Perf 9146 8662
- Sump packer 9150
- CIBP 9235
- Tubing cut 9240
- SC-1 Perf 9295
- M Sand Top Perf 9553
- M Sand Base Perf 9885
- Baker F-1 packer 9898
- 7" shoe/TD 9976 9424

---

(3)

**30"x16"x10-3/4"x7" Sever**

**To what depth must I remove wellheads and casings?**

Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.

**Plug (1)**

- BSEE: 250.1715(a)(6) An annular space that communicates with open hole and extends to the mudline:
  - A cement plug at least 200 ft long set in the annular space.
  - 7" x 10-3/4" annulus (B annulus)
  - Allow for sufficient WOC
  - Pressure test.

**Plug (2)**

- Land tubing plug in X landing nipple @ 8794 ft MD
- L-sand perfs through 2-3/8" tubing
- Allow for sufficient WOC
- Pressure test.

**Plug (3)**

- Bridge Packer installed below cement plug
- BSEE: 250.1715(a)(11)
  - Two independent barriers, one must be mechanical
  - Packer must be designed to API Spec 11D1
  - Pressure test.

**Plug (4)**

- BSEE: 250.1715(a)(8) A well with casing:
  - A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mud line.
  - 7" Wellbore
  - Allow for sufficient WOC, tag up with agreed upon weight.
  - Pressure test.
  - All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)

**Plug (5)**

- BSEE: 250.1715(a)(4) A casing stub where the stub end is within the casing
  - A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.
  - 10-3/4" x 16" annulus (C annulus) and 7" x 10-3/4" annulus (B annulus)
  - Allow for sufficient WOC, tag up with agreed upon weight.
  - Pressure test.
  - All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)

**Assumptions:** See embedded notes
Tubing: 2-7/8" 6.5# L80 AB Mod. TK33 to 9279'.

Gas lift mandrels:
1) 2012' MD (dummy)
2) 3728' MD (dummy)
3) 5093' MD (dummy)
4) 6174' MD (dummy)
5) 6940' MD (dummy)
6) 7488' MD (dummy)
7) 8067' MD (dummy)

802' = Baker TE-5 SCSSV
- 64.46° 28.19° 49.9° 71.1° 81.1° PK 0.1"
890' = 30° 310#

1589' = 16"
3000' = "SWS" LN
4092' = 10-3/4" 45.5#

9241' = "SWS" LN
9279' = Baker "SC-1" Packer

9534-9693' = 4" 8 gauge screen
"L-3" Sd. Perfs:
9550-56, 9580-9691'

9712' = Baker "SC-1" Packer
9740' = Magna Range Bridge Plug
9755' = "XN" LN
9795' = Baker "SC-1" Pkr.

9945-10036' = 3-1/2" 8 gauge screen
"M" Sd. Perfs:
9960-10028'
10046' = Baker "F-1" Pkr.

10212' = 7" 29# N80

Present Condition
T. Albert - 06/28/96
Pull Completion: Uniting tubing from Baker SC-1 packer @ 9279 ft & 9712 ft with straight pull. SC-1 packers are retrievable. Mill out Magna packer in tubing @ 9740 ft. Straight pull from deepest SC-1 packer @ 9795 ft. Retrieve SC-1 packer. Drill out F-1 packer @ 10046 ft. Cut and pull 7" and 10-3/4" (not within casing).

Assumptions: See embedded Notes.

---

**Plug 4**

- **Plug (4)**
  - Cut and pull of 7"
  - BSEE: 250.1715(a)(4) A casing stub where the stub end is within the casing:
    - (ii) A cement retainer or bridge plug set at least 50 to 100 feet above the stub end with at least 50 feet of cement on top of the retainer or bridge plug; or
  - Bridge Plug installed below cement plug
  - BSEE: 250.1715(a)(11)
  - Two independent barriers, one must be mechanical barrier, in the center of the wellbore as described in 250.420(b)(3)

---

**Plug 3**

- **Plug (3)**
  - Cut and pull of 7"
  - BSEE: 250.1715(a)(4) A casing stub where the stub end is within the casing:
    - (ii) A cement retainer or bridge plug set at least 50 to 100 feet above the stub end with at least 50 feet of cement on top of the retainer or bridge plug; or
  - Bridge Plug installed below cement plug
  - BSEE: 250.1715(a)(11)
  - Two independent barriers, one must be mechanical barrier, in the center of the wellbore as described in 250.420(b)(3)

---

**Plug 2**

- **Plug (4)**
  - Cut and pull of 7"
  - BSEE: 250.1715(a)(4) A casing stub where the stub end is within the casing:
    - (iii) A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.

---

**Plug 1**

- **Plug (4)**
  - Cut and pull of 10-3/4"
  - BSEE: 250.1715(a)(8) A well with casing:
    - A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.
  - Bridge Plug Installed below cement plug
  - BSEE: 250.1715(a)(11)
  - Two independent barriers, one must be mechanical barrier, in the center of the wellbore as described in 250.420(b)(3)

---

**Plug 0**

- **Plug (4)**
  - Cut and pull of 10-3/4"
  - BSEE: 250.1715(a)(8) A well with casing:
    - A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.
  - Bridge Plug Installed below cement plug
  - BSEE: 250.1715(a)(11)
  - Two independent barriers, one must be mechanical barrier, in the center of the wellbore as described in 250.420(b)(3)

---

**Plug (4)**

- **Plug (4)**
  - Cut and pull of 10-3/4"
  - BSEE: 250.1715(a)(8) A well with casing:
    - A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.
  - Bridge Plug Installed below cement plug
  - BSEE: 250.1715(a)(11)
  - Two independent barriers, one must be mechanical barrier, in the center of the wellbore as described in 250.420(b)(3)

---

**Plug (4)**

- **Plug (4)**
  - Cut and pull of 10-3/4"
  - BSEE: 250.1715(a)(8) A well with casing:
    - A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.
  - Bridge Plug Installed below cement plug
  - BSEE: 250.1715(a)(11)
  - Two independent barriers, one must be mechanical barrier, in the center of the wellbore as described in 250.420(b)(3)

---

**Plug (4)**

- **Plug (4)**
  - Cut and pull of 10-3/4"
  - BSEE: 250.1715(a)(8) A well with casing:
    - A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.
  - Bridge Plug Installed below cement plug
  - BSEE: 250.1715(a)(11)
  - Two independent barriers, one must be mechanical barrier, in the center of the wellbore as described in 250.420(b)(3)
**A-2 P&A Scenario option 2:**

M Sands previously abandoned with bridge plug.

- Squeeze L-3 Sand perforations.
- Install tubing plug in SWS nipple @ 9241 ft MD (~100 ft above tubing plug)

**Assumptions:** See embedded Notes

---

**Regulation 250.1715(a)(4):** To what depth must I remove wellheads and casings?

Unless the District Manager approves an alternative, you must remove all wellheads and casings at least 15 feet below the mud line.

**Regulation 250.1715(a)(6):** An annular space that communicates with open hole and extends to the mudline:

- A cement plug at least 200 feet long set in the annular space.

**Regulation 250.1715(a)(8):** A well with casing:

- A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.

**Regulation 250.1715(a)(11):** Two independent barriers, one must be a mechanical barrier, in the center of the wellbore as described in 250.420(b)(3).

---

**Plug (1):**

- Tubing plug set in SWS nipple.
- L-3 Sand perforations through 2-3/8" tubing

**Plug (2):**

- Perforate 7" casing, squeeze cement to B annulus

**Plug (3):**

- Bridge Plug installed below cement plug

---

See embedded Notes.

---

**Notes:**

- Allow for sufficient WOC, tag up with agreed upon weight.
- Pressure test.
- All cement jobs must be designed to abide by regulations 250.420.c.(1) and (2).
**A-2 P&A Scenario option 2:**

- M Sands previously abandoned with bridge plug.
- Squeeze L-3 Sand perforations.
- Install tubing plug in SWS nipple at 9241 ft MD.
- Cut 2-7/8" tubing at ~9141 ft MD (~100 ft above tubing plug).

**Assumptions:** See embedded Notes.

---

**Requirement:** BSEE

**Leak Path Addressed:** Testing/Verification Requirements

---

**Plug (1)***

- BSEE: 250.1715(a)(5) A well with casing
- Perforate 7" casing, squeeze cement to B annulus
- BSEE: 250.1715(a)(6) An annular space that communicates with open hole and extends to the mudline:
- A cement plug at least 200 ft long set in the annular space.
- 7" x 10-3/4" annulus (B annulus)
- Allow for sufficient WOC.
- Pressure test.
- All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)

**Plug (2)***

- BSEE: 250.1715(a)(8) A well with casing:
- A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.
- 7" wellbore
- Allow for sufficient WOC.
- Pressure test.
- All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)

---

**Notes:**

- L-3 Sand Top Perf
- Isoaltion of L-3 sands

---

**Plug (3)***

- BSEE: 250.1715(a)(11) Two independent barriers, one must be a mechanical barrier, in the center of the wellbore as described in 250.420(b)(3)
- Bridge Plug installed below cement plug
- BSEE: 250.1715(a)(12) A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.
- 7" wellbore
- Pressure test.
- All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)

---

**Plug (4)***

- BSEE: 250.1715(a)(14) A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.
- 10-3/4" x 16" annulus (C annulus)
- and
- 7" x 10-3/4" annulus (B annulus)
- Allow for sufficient WOC, tag up with agreed upon weight.
- Pressure test.
- All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)

---

**Plug (5)***

- BSEE: 250.1715(a)(15) Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mudline.
  
---

**Table:**

- **SWS NIPPLE**
- **Tubing**
- **Plug**
- **XN NIPPLE**

---

**Diagram:**

1. **Line**
   - **Tubing Plug**
   - **Bridge Plug**
   - **Baker SC-1 Packer**

---

**Legend:**

- **XN NIPPLE**
- **Tubing**
- **Plug**
- **Baker SC-1 Packer**

---

**Assumptions:**

- See embedded Notes.
M° MISSISSIPPI CANYON 20 A-

OCS-G-4935

PRESENT COMPLETION

DATE COMPLETED
MARCH 4, 1996

Schematic revised after reexamination from the K Sand to the J/B Sand in March 1996.

38° Csg at 815′

16° Csg at 1395′

18 3/4″, 45.58 Csg at 3950′

Live GL valves 5197
1- 2062. MD 8164 Plat
2- 3241. MD 8164 Plat

Perf Pup, 2.375″ 00, 6′
Perf Pup, 2.375″ 00, 2′

18 Sand Ports 8349′-8375′
(2) – 7880 TVD MPF
1834′H – 4844 psi

Perf Pup, 3.25′ ID at 8368′

4 bbls Class K cement spotted on EZSV (189)
EZSV at 18,688′
15 bbls Class H cement squeezed below EZSV.

M° Sand Ports 18,264′-18,327′

Baker T-1′ PIR at 18,248′

7° 29′, 8-90 BTC Csg at 12,848′

Per Fluid
Inhib: 18.2 ppg CuCl2
BHGT: 185°F

X Nipple, 2.313′ ID at 4211′

QL MD 12042 223242 364869′ 414757′
552498 657553 782666′

X Nipple, 2.313′ ID at 9284′
Locator +16′ Seals, 2,400′ ID

Perf Pup, 2.375′ 00, 6′
X Nipple, 1.875′ ID at 8254′
Perf Pup, 2.375′ 00, 2′
EOT at 8256′

1.4° Sand Ports 8349′-8375′
(2) – 7880 TVD MPF
1834′H – 4844 psi

Perf Pup, 3.25′ ID at 8247′
Perf Extension 11.1
Seal Bore, 3.25′ ID at 8256′

Flapper at 8223′
Sheer Out Safety Jt. (43′) Sheer at 8275′
Blank, 35′ ID, 292″ ID, 8277′-8341′ 514′
35′ Stao-Pak Screen, 8 GA, 4.13″ 00, 32″ ID
8341′-8368′
O-Ring Sub 292″ ID at 8368′
Tall Tala at 8360′-8360′
Locator + 2 Seals, 2,400′ ID

Perf Pup, 2.375′ 00, 2′
Placed MS
EOT at 8417′

Baker “SC-1′ PIR at 18,184′
Seal Bore at 18,112′
Blank, 35′ 00 at 18,125′-18,253′ (127)
Screen, 35″, 8 ga, 18,253′-18,332′
Seal Bore, 1.66′ ID with
Expandable Bore, 2.347′ ID at 18,302′
Tall Tala at 18,333′-18,338′
A-3 P&A Scenario:
Pull Completion. EZSV previously set as barrier above M-Sands. Setting depth does not abide by 250.1715.a(3). EZSV is set 184 ft above upper perf. Regulatory depth for bridge plug is no more than 100 ft above upper perf. 15 bbls of cement squeezed below EZSV. Does EZSV need to be reset? Assbuilt schematic shows permanent packer @ 8388 ft and production packer @ 8247 ft. No indication of manufacturer. These will likely have to be milled.
Assumptions: See embedded Notes

250.1716(a) To what depth must I remove wellheads and casings?
Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.

Plug (3)
BSEE: 250.1715(x)(6) A well with casing:
A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.

Plug (4) Bridge Plug
Bridge Plug installed below cement plug
BSEE: 250.1715(x)(4) A casing stub where the stub end is within the casing:
(ii) A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.

Plug (5) Bridge Plug
Bridge Plug installed below cement plug
BSEE: 250.1715(x)(11) Two independent barriers, one must be mechanical barrier, in the center of the wellbore as described in 250.420.b(3)

Plug (3) Cut and pull 10-3/4"
BSEE: 250.1715(x)(6) A casing stub where the stub end is within the casing:
(iii) A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.

Plug (3) Cut and pull 7"
BSEE: 250.1715(x)(4) A casing stub where the stub end is within the casing:
(iii) A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.

NEW WELL NO. 5

---

**A-3 P&A Scenario:**
Pull Completion. EZSV previously set as barrier above M-Sands. Setting depth does not abide by 250.1715.a(3). EZSV is set 184 ft above upper perf. Regulatory depth for bridge plug is no more than 100 ft above upper perf. 15 bbls of cement squeezed below EZSV. Does EZSV need to be reset? Assbuilt schematic shows permanent packer @ 8388 ft and production packer @ 8247 ft. No indication of manufacturer. These will likely have to be milled.

**Assumptions:** See embedded Notes

<table>
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<tr>
<th>Requirement: BSSE</th>
<th>Leak Path Addressed</th>
<th>Testing/Verification Requirements</th>
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<tbody>
<tr>
<td>250.1716(a) To what depth must I remove wellheads and casings?</td>
<td>N/A</td>
<td>N/A</td>
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<td>Plug (3) BSEE: 250.1715(x)(6) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.</td>
<td>wellbore to seafloor</td>
<td>Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)</td>
</tr>
<tr>
<td>Plug (4) Bridge Plug Bridge Plug installed below cement plug BSEE: 250.1715(x)(4) A casing stub where the stub end is within the casing: (i) A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.</td>
<td>center wellbore</td>
<td>Packer must be designed to API Spec 11D1 Pressure test</td>
</tr>
<tr>
<td>Plug (5) Bridge Plug Bridge Plug installed below cement plug BSEE: 250.1715(x)(4) A casing stub where the stub end is within the casing: (iii) A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.</td>
<td>7&quot; x 10-3/4&quot; annulus</td>
<td>Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)</td>
</tr>
<tr>
<td>Plug (6) BSEE: 250.1715(x)(5) A perforated zone that is currently open and not previously squeezed or isolated</td>
<td>Isolation of perforations</td>
<td>Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)</td>
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### Requirement: BSEE

**Leak Path Addressed**

**Testing/Verification Requirements**

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<td>10253</td>
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---

**Plug (1)**

- Tubing plug set in XN landing nipple.

**Plug (2)**

- Perforate 7" casing, squeeze cement to B annulus.

**Plug (3)**

- Bridge Plug installed below cement plug.

---

**Plug (1)**

- Tubing plug set in XN landing nipple.

**Plug (2)**

- Perforate 7" casing, squeeze cement to B annulus.

---

**Flag 3**

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**Flag 2**

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<tr>
<td>2500</td>
<td>10253</td>
</tr>
</tbody>
</table>

---

**Flag 1**

<table>
<thead>
<tr>
<th>Depth</th>
<th>MD</th>
</tr>
</thead>
<tbody>
<tr>
<td>7808</td>
<td>10253</td>
</tr>
<tr>
<td>2-7/8&quot;</td>
<td>10253</td>
</tr>
</tbody>
</table>

---

### Notes

- M Sands previously abandoned with EZSV and cement.
- Squeeze J sand perforations.
- Cut 2-7/8" tubing @ ~8104 ft MD (~100 ft above plug).

---

**Assumptions:**

- See embedded notes.

---

**250.1715(a)(8)**

If a well is in the smallest casing that extends to the mudline with the top of the plug no more than 150 feet below the mudline.

---

**250.1715(a)(11)**

Two independent barriers, one must be mechanical barrier, in the center of the wellbore as described in 250.420(b)(3).

---

**XN Nipple**

- Tubing plug set in XN landing nipple.

**Production Packer**

- BSEE: 250.1715(a)(6) An annular space that communicates with open hole and extends to the mudline:

  - A cement plug at least 200 ft long set in the annular space.

---

**EZSV**

- BSEE: 250.1715(a)(6) An annular space that communicates with open hole and extends to the mudline:

  - A cement plug at least 200 ft long set in the annular space.

---

**Plug (3) Bridge Plug**

- Bridge Plug installed below cement plug.

**Pressure test**

- All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2).
A-3 P&A Scenario option 3:
M Sands previously abandoned with EZSV and cement.
Squeeze J Sand perf.
Install tubing plug in XN landing nipple @ 8204 ft MD
Cut 2 7/8" tubing @ ~8104 ft MD (100 ft above tubing plug)
Pull tubing.

Assumptions: See embedded Notes.
MISSISSIPPI CANYON 20
A-4 OCS-G-4935
PRESENT COMPLETION

13 3/8" Casing at 3580'
GLH MD: 1) 2822 2) 2912 3) 3392'
   4) 3980 5) 4365 6) 4933
   7) 5383'

NOTE: Live valves were installed on 7/19/85
in all 7 mandrels

Below SC-1 Pier of 9505'
Perf Extension (61)
Seal Casing, 4 1/2" ID at 9576'
Extension (L2)
S.O.S.J., 4 1/4" ID at 9588' (no shear)
Blank, 5 3/4" OD, 4 1/2" ID at 9591' (1360')
Screen, 5 3/4" OD, 0 gauge, 40/60 Mesh
   0.11" OD, 4 1/2" ID at 9717' (980')
Seal Casing, 4 1/2" OD at 9969'
Blank, 5 3/4" OD, 4 1/2" ID at 9919'-9921' (111)
Screen, 5 3/4" OD, 0 gauge, 10/48 Mesh
   0.11" OD, 4 1/2" ID at 9921'-9988'
Seal Casing, 4 1/2" ID at 9950'
Tail Ties: 5 3/4", 0 gauge at 9971'-9992'
Locators: 13 Seam at 9999'
Below "C" Pier of 9999'
   9 5/8", 5371, Casing at 11,504'

WTF
GJG
5/23/02 Rev.

'X' Nipple, 2 3/4" ID at 3380'
Locater '13' Seam, 2 1/8" ID at 9364'
Perf Pup, 2 3/4" OD, 0" at 9384'
'X' Nipple, 1 7/8" ID at 9567'
Rule Shoe with 10 Lug
EOT of 9591'

'14" Send Perfor 97298-99564' (1801')
SUM - 1230 psi 9880' TVD MP
9 3/8" 1 1/4" TRD

MD at 11,405'
TD at 14,232'

MEASURING DATUM
0-5203' Above
Tubing Hanger

Macco 'P8X' SCSV placed
in 'X' Nipple, 2 3/4" ID at 794'
on 1-11-86
Camco TRDP SCSV placed
Permanently locked out
on 1-11-86

Tubing 2 7/8" 5.34 N-80
ELE 13-AM Mod. 21111' ID
Plastic Coated (TX-20)
**MC 20 Well A 004 Option 1**

**Leak Path Addressed**

**Testing/Verification Requirements**

- **Requirement:** BSSE
- **Leak Path Addressed:** N/A
- **Testing/Verification Requirements:** N/A

**A-4 P&A Scenario:**

1. Unstring tubing from Baker SC-1 packer @ 9585 ft.
2. Retrieve SC-1 packer.
3. Cut tubing above deep-set perm packer.
4. Pull 2-7/8" tubing.
5. Retrieve/drill out packer.
6. Cut and pull 9-5/8" and 13-3/8" (cut within casing)

**Assumptions:** See embedded Notes

---

**Plug 1**

- **RTD/Top of Float:** 5220
- **M Sand Top Perf:** 8128
- **M Sand Base Perf:** 9481
- **TOC (wellbore):** 11355
- **Bridge Plug:** 11405

**Plug 2**

- **TOC (wellbore):** 9248
- **TOC (shoe):** 9068
- **Bridge Plug:** 9748

**Plug 3**

- **TOC (wellbore):** 3000
- **TOC (shoe):** 3400
- **9-5/8" cut point:** 3400
- **13-3/8" shoe:** 3400

**Plug 4**

- **TOC (wellbore):** 551
- **TOC (shoe):** 1138

---

**Plug 4 is a combination barrier for:**

- **250.1715(a)(8) A well with casing:**
- **250.1715(a)(4) A casing stub where the stub end is within the casing**

---

**Plug 1 is a combination barrier for:**

- **250.1715(a)(2) Open hole below casing:**
- **250.420.b.(3) Final casing string with mechanical and cement**

---

**Plug 4 Testing/Verification Requirements:**

- **9-5/8" x 13-3/8" annulus**
- **Allow for sufficient WOC, tag up with agreed upon weight. Pressure test.**
- **All cement jobs must be designed to abide by regulation 250.420.(c)(1) and (2)**

---

**Plug 1 Testing/Verification Requirements:**

- **Possible failure of wellbore cement below float collar**
- **Allow for sufficient WOC, tag up with agreed upon weight. Pressure test.**
- **All cement jobs must be designed to abide by regulation 250.420.(c)(1) and (2)**

---

**PLUG 1 IS A COMBINATION BARRIER FOR:**

- **250.1715(a)(2) Open hole below casing:**
- **AND**
- **250.1715(a)(4) A casing stub where the stub end is within the casing**

---

**PLUG 3 IS A COMBINATION BARRIER FOR:**

- **250.1715(a)(8) A well with casing:**
- **AND**
- **250.1715(a)(4) A casing stub where the stub end is within the casing**

---

**PLUG 2 IS A COMBINATION BARRIER FOR:**

- **250.1715(a)(3) A perforated zone that is currently open and not previously squeezed or isolated:**
  - **If perforated zones are isolated from the hole below, you may set plugs specified:**
    - **A bridge plug set 50 to 100 ft above the top of the perforated interval and at least 50 ft of cement on top of the bridge plug.**

---

**PLUG 1 IS A COMBINATION BARRIER FOR:**

- **250.1715(a)(2) Open hole below casing:**
  - **If the final casing string (liner) if it is your final string, you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These barriers cannot be modified prior to or during completion or abandonment operations.**
  - **Possible failure of wellbore cement below float collar**
  - **Allow for sufficient WOC, tag up with agreed upon weight. Pressure test.**
  - **All cement jobs must be designed to abide by regulation 250.420.(c)(1) and (2)**

---

**A-4 P&A Scenario:**

- **Unstring tubing from Baker SC-1 packer @ 9585 ft.**
- **Retrieve SC-1 packer.**
- **Cut tubing above deep-set perm packer.**
- **Pull 2-7/8" tubing.**
- **Retrieve/kill out packer.**
- **Cut and pull 9-5/8" and 13-3/8" (cut within casing)**

**Assumptions:** See embedded Notes
A-4 P&A Scenario option 2:
Squeeze M-sand perfs.
Install tubing plug @ XN Nipple (9521 ft MD)
Cut tubing @ ~9421 ft MD (~100 ft above tubing plug)
Pull tubing.

Assumptions: See embedded Notes

<table>
<thead>
<tr>
<th>Requirement: BSSE</th>
<th>Leak Path Addressed</th>
<th>Testing/Verification Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>To what depth must I remove wellheads and casings?</td>
<td>N/A</td>
<td>Allow for sufficient WOC, tag-up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)</td>
</tr>
<tr>
<td>BSEE: 250.1715(a)(11) Two independent barriers, one must be mechanical barrier, in the center of the wellbore as described in 250.420(b)(3)</td>
<td>7&quot; Wellbore</td>
<td>Allow for sufficient WOC, tag-up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)</td>
</tr>
<tr>
<td>BSEE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.</td>
<td></td>
<td>7&quot; Wellbore</td>
</tr>
<tr>
<td>Plug (3) Bridge Plug Bridge Plug installed below cement plug BSEE: 250.1716.(a) To what depth must I remove wellheads and casings?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>To what depth must I remove wellheads and casings?</td>
<td></td>
<td>Allow for sufficient WOC, tag-up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)</td>
</tr>
<tr>
<td>BSEE: 250.1715(a)(11) Two independent barriers, one must be mechanical barrier, in the center of the wellbore as described in 250.420(b)(3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plug (2) Perforate 7&quot; casing, squeeze cement to B annulus BSEE: 250.1715(a)(6) An annular space that communicates with open hole and extends to the mudline: A cement plug at least 200 ft long set in the annular space.</td>
<td></td>
<td>Allow for sufficient WOC, tag-up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)</td>
</tr>
</tbody>
</table>

| Plug (5) | | Allow for sufficient WOC, tag-up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2) |
| M-sand perf through 2-7/8" tubing | | |
| Squeeze cement through M Sand Perforations | Isolation of M sands | |
### MC 20 Well A 004 Option 3

#### A-4 P&A Scenario option 3:

Squeeze M-sand perfs.
Install tubing plug at XN nipple (9521 ft MD)
Cut tubing @ ~9421 ft MD (~ 100 ft above tubing plug)
Pull tubing.

**Assumptions:** See embedded Notes

#### Squeeze cement through M sand perforations:

- Isolation of M sands

#### Testing/Verification Requirements

<table>
<thead>
<tr>
<th>Requirement: BSSE</th>
<th>Leak Path Addressed</th>
</tr>
</thead>
<tbody>
<tr>
<td>MD</td>
<td>TVD</td>
</tr>
</tbody>
</table>

#### Cut point

- 30"x16"x10-3/4"x7" Sever

#### Testing/Verification Requirements

<table>
<thead>
<tr>
<th>Requirement: BSSE</th>
<th>Leak Path Addressed</th>
</tr>
</thead>
<tbody>
<tr>
<td>MD</td>
<td>TVD</td>
</tr>
</tbody>
</table>

#### Plug (1)

- BSEE: 250.1715(a)(4): A casing stub where the stub end is within the casing
- A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.

#### Plug (2)

- Perforate 7" casing, squeeze cement to B annulus
- BSEE: 250.1715(a)(6): An annular space that communicates with open hole and extends to the mudline:
- A cement plug at least 200 ft long set in the annular space.

#### Plug (3)

- Bridge Plug
- BSEE: 250.1715(a)(11): Two independent barriers, one must be a mechanical barrier, in the center of the wellbore as described in 250.420(b)(3)

#### Plug (4)

- BSEE: 250.1715(a)(8): A well with casing:
- A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.

#### Plug (5)

- Cut and pull 7" & 10-3/8" annulus/C annulus

#### Plug (6)

- Packer must be designed to API Spec 11D1

---

**Assumptions:** See embedded Notes
Spotted a plug with 100 sacks
Class H cement from 691' MD to
calculated TOC @ 648' MD
(40' BML)

10-3/4" casing perforated
@ 996'-1000' MD
Retainer set @ 988' MD with
269' balanced cement plug
spotted on top
TOC @ 730' MD

Cemented 16" casing with 700 sacks Class H with spherelite + 500 sacks Class H.
350 bbls. cement returns 4/23/85

Cemented 10-3/4" casing with 1300 sacks
TLW + 900 sacks of Class H
Trace of cement returns 4/28/85

128' = RKS
479' = Water Depth

Cut 10-3/4" x 16" x 30'
casing/conductor at 69' BML
(668' MD) (52" window cut)
Casing could not be pulled

890' = 30.0'

1,566' = 16" 75# K-55

—— 3513' MD = Top of Cement
50 sacks Class H spotted on top
EZSV @ 3612' MD

3,687' = 10.76" 45.5# K-55
200 sacks Class H squeezed below retainer

—— 4017' MD = Calculated Bottom of Cement

10.7 ppg
Ligno Mud

TD = 8,813' MD 7,478' TVD
A-5 P&A:

The A-5 well was abandoned as per BSEE regulations, except in the failure to retrieve the wellhead and casing at least 15 ft BML (see below). The well was drilled to a TD of 8813 ft MD/7478 ft TVD, however 7" production casing was never set.

### Requirement: BSSE

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Addressed via</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>250.1715 How must I permanently plug a well? (a)(2) Open hole below casing: You must... (iii) A bridge plug set 50 feet to 100 feet above the shoe with 50 feet of cement on top of the bridge plug, for expected or known lost circulation conditions</td>
<td>EZSV set in 10-3/4&quot; casing @ 3612 ft MD “99ft of cement pumped on top of bridge plug</td>
<td></td>
</tr>
<tr>
<td>(a) (3) A perforated zone that is currently open and not previously squeezed or isolated: You must.... (B) A casing bridge plug set 50 to 100 feet above the top of the perforated interval and at least 50 feet of cement on top of the bridge plug;</td>
<td>Perforations in 10-3/4&quot; casing (996ft - 1000ft) Retainer set @ 989 ft, ~7 ft above upper-most perf, with 259 ft of cement pumped on top of retainer</td>
<td></td>
</tr>
<tr>
<td>(8) A well with casing: You must... A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mud line.</td>
<td>259 ft of cement pumped on top of retainer in 10-3/4&quot; casing (smallest casing string)</td>
<td></td>
</tr>
<tr>
<td>(11) Two independent barriers, one must be mechanical barrier, in the center of the wellbore as described in 250.420(b)(3)</td>
<td>Retainer (bridge plug) set @ 9989 ft MD with 259 ft cement plug set above</td>
<td></td>
</tr>
</tbody>
</table>
| 250.1716.a. (a) Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line. | 10-3/4” x 16” x 30” cut at 60 ft BML | *According to A-5 As Built schematic, casings could not be pulled after cut.*
### A-6 P&A Scenario:
Pull Completion.

Bridge plug previously set as barrier above wireline formation test perf and set within 50-100 ft of the perforation (250.1715.a(iii)). However, bridge plug will need to be removed in order to install a proper barrier to abide by 250.420.b(iii).

Bridge plug to be set at ~12,497 ft MD (PBTD). Assuming PBTD is top of float, there is ~83 ft of cement below the float.

Baker F-1 Sump Packer @ 10,854 ft MD. Drillable. Unsting from Baker SC-1 packer @ 10,554 ft MD. SC-1 packer is retrievable.

### Assumptions:
See embedded Notes

### 250.1715.a(i) What to depth must I remove wellheads and casings?

- Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mudline.

### 250.1715.a(4) A casing stub where the stub end is within the casing:

- A cement retainer or bridge plug set at least 50 to 100 feet above the stub end with at least 50 feet of cement on top of the retainer or bridge plug;

### 250.1715.a(8) A well with casing:

- A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.

### A-6 P&A Scenario:
Pull Completion.

Bridge plug previously set as barrier above wireline formation test perf and set within 50-100 ft of the perforation (250.1715.a(iii)). However, bridge plug will need to be removed in order to install a proper barrier to abide by 250.420.b(iii).

Bridge plug to be set at ~12,497 ft MD (PBTD). Assuming PBTD is top of float, there is ~83 ft of cement below the float.

Baker F-1 Sump Packer @ 10,854 ft MD. Drillable. Unsting from Baker SC-1 packer @ 10,554 ft MD. SC-1 packer is retrievable.

### Assumptions:
See embedded Notes

### 250.1715.a(i) What to depth must I remove wellheads and casings?

- Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mudline.

### 250.1715.a(4) A casing stub where the stub end is within the casing:

- A cement retainer or bridge plug set at least 50 to 100 feet above the stub end with at least 50 feet of cement on top of the retainer or bridge plug;

### 250.1715.a(8) A well with casing:

- A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.
A-6 P&A Scenario option 2:

- Squeeze N-sand perfs.
- Install tubing plug in XN landing nipple @ 10542 ft MD
- Cut and pull 2-7/8" tubing 100 ft above tubing plug.

Assumptions: See embedded Notes

### Testing/Verification Requirements

**Plug (1)**

**250.1716(a)** To what depth must I remove wellheads and casings?

- Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mudline.

**Plug (2)**

**250.1716(a)(6) Well with casing:**

- A cement plug at least 200 ft long set in the annular space that communicates with open hole and extends to the mudline:
  - 7" Wellbore
  - Allow for sufficient WOC, tag up with agreed upon weight. Pressure test.
  - All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)

**Plug (3)**

- **250.1715(a)(8) Well with casing:**
  - A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline:
  - 7" x 10-3/4" x 16" annulus (B annulus)
  - Allow for sufficient WOC, tag up with agreed upon weight. Pressure test.
  - All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)

**Plug (3) Bridge Plug**

- Bridge Plug installed below cement plug.
  - Allow for sufficient WOC, tag up with agreed upon weight. Pressure test.
  - Packer must be designed to API Spec 11D1 Pressure test

**Plug (4)**

- **250.1715(a)(11) Well with casing:**
  - Two independent barriers, one must be mechanical barrier, in the center of the wellbore as described in 250.420(b)(3)

**Assumptions:** See embedded Notes
A-6 P&A Scenario option 3:

Squeeze N-sand perf.

Insert tubing plug in XN landing nipple @ 10542 ft MD

Cut and pull 2-7/8" tubing 100 ft above tubing plug.

Assumptions: See embedded Notes

---

**Plug 1**

Land tubing plug in X landing nipple @ 10542 ft above packer

---

**Plug 2**

Perforate 7" casing, squeeze cement to B annulus

BSEE: 250.1715(a)(6) An annular space that communicates with open hole and extends to the mudline: A cement plug at least 200 ft long set in the annular space

---

**Plug 3**

Bridge Plug installed below cement plug

BSEE: 250.1715(a)(11) Two independent barriers, one must be mechanical barrier, in the center of the wellbore as described in 250.420(b)(3)

---

**Testing/Verification Requirements**

- **Plug (1)**
  - Land tubing plug in X landing nipple, 12 ft above packer
  - N-sand perf through 2-7/8" tubing
  - Allow for sufficient WOC time. Pressure Test

- **Plug (2)**
  - Perforate 7" casing, squeeze cement to B annulus
  - BSEE: 250.1715(a)(6) An annular space that communicates with open hole and extends to the mudline: A cement plug at least 200 ft long set in the annular space
  - Allow for sufficient WOC, tag up with agreed upon weight. Pressure test
  - All cement jobs must be designed to abide by regulation 250.420(c)(1) and (2)

- **Plug (3)**
  - Bridge Plug installed below cement plug
  - BSEE: 250.1715(a)(11) Two independent barriers, one must be mechanical barrier, in the center of the wellbore as described in 250.420(b)(3)
  - Packer must be designed to API Spec 11D1
  - Pressure test
  - Center wellbore

---

**Notes**

- Cut point 30"x16"x10-3/4"x7" 547
- 30" shoe 875
- Plug 3
  - Top of Plug 682
  - Bottom of Plug 832
  - Bridge Plug 832
  - 7" x 10-3/4" cut 882
- TDC (annulus) 532
- 16" shoe 1169
- Plug 2
  - TDC (annulus) 532
  - Top of tubing 10642
  - Plug 1
    - Tubing Plug 10542
    - XN nipple 10542
    - Baker SC-1 packer 10554
    - Bridge plug 11020
    - PRST/TOF 12497
    - 5" shoe/TOF 12366
- 30# shoe A 006 Option 3
- Requirement: BSSE
- Leak Path Addressed
- TVD
- MD

---

**Regulations**

- 250.1715(a)(6)
- 250.1715(a)(11)
- 250.1716(a)
- 250.420(c)(1) and (2)
- 250.1715(a)(8)
- 250.1715(a)(11)
- 250.420(b)(3)
- API Spec 11D1
- To what depth must I remove wellheads and casings?

Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 10 feet below the mud line.

---

**Assumptions**

- See embedded Notes
Taylor Energy Company
Mississippi Canyon Block 20
OCS-G 4935, Well A-7

Present Condition
T. Albert - 01/29/87

Tubing:
2-7/8" 8.5# L-80 8rd
 to 6245'

Gas lift mandrels:
1) 1796' MD (Live valve installed 1/23/87)
2) 3188' MD (Live valve installed 1/23/87)
3) 4485' MD (dummy)
4) 5490' MD (dummy)

809' = Baker TE-5 SCSSV
890' = 30" 310#
1593' = 16" 75# K-55
2933' = "SW6" LN
3600' = 10-3/4" 55.5# MP-110

8163' = "SW" LN
8200' = Baker Model "DB" Pkr.
8234' = "SW" LN

"L-1" Sd. Perfs 9008-22

9150' = Top of cement
9200' = CIBP w/50' cmt. on top
9238' = Baker "SC-1" Packer
9387-480' = 3-1/2" 8 gauge screen
"M" Sd. Perfs 9396-476

9491' = Baker Sump Pkr.
11290' = 7" 29# N-80

+53' = Elevation
479' = Water Depth
**Taylor Energy Company**
**Mississippi Canyon Block 20**
**OCS-G 4935, Well A-7**

**Proposed PHA**

- **Tubing:**
  - 2-7/8" 8.5# L-80 8rd to 8245'

- **CIBP cut @ 900' (3000 BML)**

- **Cement Plug from 1500' - 1300'**

- **Gas lift mandrels:**
  1. 1798' MD (Live valve installed 1/23/97)
  2. 3198' MD (Live valve installed 1/23/97)
  3. 4485' MD (dummy)
  4. 5490' MD (dummy)

- **Proposed Condition 3/22/01**

- **860' = 30" 310#**
- **1583' = 16" 75# K-55**
- **2993' = "SWS" LN**
- **3600' = 10-3/4" 55.5# MP-110**

- **Toc e 7900'**
  - **8153' = "SW" LN**
  - **8200' = Baker Model "DB" Pkr.**
  - **8234' = "SW" LN**

- **"L-1" Sd. Perfs 9000-22'**
  - **Sgr @ 59 bbls cement**
  - **9150' = Top of cement**
  - **9200' = CIBP w/50' cmt. on top**
  - **9238' = Baker "SC-1" Packer**
  - **9387.460' = 3-1/2" 8 gauge screen**
  - **"M" Sd. Perfs: 9396-478'**
  - **9491' = Baker Sump Pkr.**
  - **11200' = 7" 20# N-80**
Cut and pull 2-7/8” tubing from above Baker DB packer @ 8200.
Retrieve/drill out packer.
Drill out cement and CIBP @ ~9200 ft MD.
Cut tubing above sump packer set @ 9491 ft MD.
Unseat from Baker SC-1 packer @ 9238 ft MD and pull completion.

Assumptions: See embedded Notes

PLUG 5 IS A COMBINATION BARRIER FOR:

250.1715.a.(8) A well with casing:
AND
250.1715.a (4) A casing stub where the stub end is within the casing
A-7 P&A Scenario option 2:

M Sands previously abandoned with CIBP and cement. Cut and pull 2-7/8” tubing above Baker DB packer @ 8200 ft MD.
Retrieve 2-7/8” out Baker DB packer.
Set bridge plug with 50 ft of cement above L-1 Sand perforations.

Assumptions: See embedded Notes

![Well schematic diagram]

<table>
<thead>
<tr>
<th>Requirement: BSSE</th>
<th>Leak Path Addressed</th>
<th>Testing/Verification Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>256.1716(a) To what depth must I remove wellheads and casings?</td>
<td>N/A</td>
<td>7” Wellbore, Pressure test.</td>
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<td><em>BSEE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.</em></td>
<td></td>
<td>All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)</td>
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<tr>
<td>256.1716(b)</td>
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<tr>
<td>256.1716(c)</td>
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<tr>
<td><strong>Plug (3)</strong> Bridge Plug</td>
<td></td>
<td>7” x 10-3/4” annulus (B annulus), Pressure test.</td>
</tr>
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<td><em>BSEE: 250.1715(a)(11) Two independent barriers, one must be mechanical barrier, in the center of the wellbore as described in 250.420(b)(3) (1)</em></td>
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<tr>
<td><strong>Plug (1)</strong></td>
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<td><em>BSEE: 250.1715(a)(3) A perforated zone that is currently open and not previously squeezed or isolated (iii) If perforated zones are isolated from the hole below, you may use plugs specified (B) A bridge plug set 50 to 100 ft above the top of the perforated interval and at least 50 feet of cement on top of the bridge plug</em></td>
<td></td>
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<tr>
<td><strong>Isolation of M Sands</strong></td>
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<tr>
<td>Packer must be designed to API Spec 11D1</td>
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<td></td>
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<tr>
<td>Allow for sufficient WOC</td>
<td></td>
<td></td>
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<tr>
<td>Center wellbore</td>
<td></td>
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</tr>
<tr>
<td><strong>Plug (2)</strong> Perforate 7” casing, squeeze cement to B annulus</td>
<td></td>
<td>7” x 10-3/4” annulus (B annulus), Allow for sufficient WOC</td>
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<tr>
<td><strong>Plug (3)</strong> Bridge Plug</td>
<td></td>
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</tr>
<tr>
<td><em>BSEE: 250.1715(a)(5) An annular space that communicates with open hole and extends to the mudline: A cement plug at least 200 ft long set in the annular space.</em></td>
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<td><strong>Plug (2)</strong></td>
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A-7 P&A Scenario option 3:
M Sands previously abandoned with CBP and cement.
Cut and pull 2-7/8" tubing above Baker DB packer @ 8200 ft MD.
Set bridge plug with 50 ft of cement above L-1 Sand perfs.
Assumptions: See embedded Notes

**Requirement: BSSE**
Leak Path Addressed: Testing/Verification Requirements

**Plug 3**
- BSEE: 250.1715(a)(8) A well with casing:
  - Cement surface plug at least 150 feet long set in the smallest casing that extends to the mudline with the top of the plug no more than 150 feet below the mudline.
- Cut point: 30"x16"x10-3/4"x7" 547
- 28" shoe 882
- TOC (annulus) 532
- 28" shoe 1501

**Plug 2**
- Perforate 7" casing, squeeze cement to B annulus
- TOC (annulus) 3107
- 28-3/4" shoe 5889
- TOC (annulus) 8569

**Plug 1**
- TOC (wellbore) 8938
- CBP 8958
- L1 Sand Top Perf 9900
- L1 Sand Base Perf 9922
- TOC 8912
- CBP 9202
- Baker SC-1 Packer 9238
- Top of screen 9181
- M Sand Top 9396
- M Sand Base 9476
- Sump Packer 9491
- 7" shoe/TD 11290

**10" x 10-3/4" x 7" Sever**
250.1715(a) To what depth must I remove wellheads and casings?
Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mudline.

**Plug 1**
- BSEE: 250.1715(a)(3) A perforated zone that is currently open and not previously squeezed or isolated:
  - Iso 250.1715(a)(3)(iii) If perforated zones are isolated from the hole below, you may use plugs specified
  - (B) Bridge plug installed below cement plug
- TOC 532
- Isolation of perforations

**Plug 2**
- BSEE: 250.1715(a)(6) An annular space that communicates with open hole and extends to the mudline:
  - A cement plug at least 200 ft long set in the annular space.
- TOC (annulus) 8569

**Plug 3**
- BSEE: 250.1715(a)(11) Two independent barriers, one must be mechanical barrier, in the center of the wellbore as described in 250.420(b)(3)
- Bridge Plug installed below cement plug

**250.420.c.(1) and (2)**
- All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
- Packer must be designed to API Spec 11D1

Isolation of M Sands
- 50 ft of cement pumped above CBP
- A-7 As built well schematic indicates
Taylor Energy Company  
Mississippi Canyon Block 20  
OCS-G 4935, Well A-8

Tag cut @ 1000’  
1500’-1300’

2.313” I.D. “X” Nipple @ 3,347’

2.205” I.D. “XN” Nipple @ 8,075’

Baker “SC-1” Packer @ 8,086’

Shearout Safety Joint @ 8,108’

3 1/2”, 8 gauge Screen @ 8,203’-9,265’

Cement Plug 8,330’-9,069’

V @ 9,085’ W/31 sks Cl. “H” Sqz. Below

3 1/2”, 8 gauge Screen @ 9,257’-9,295’

1,660” I.D. Seal Bore w/2.347” I.D.  
Expansible Bore @ 9,295’  
Tefl Tape Screen @ 9,296’-9,304’

Locator w/ 2' of Seals @ 9,304’

Baker “F-1” Packer @ 9,305’

PBTD @ 10,795’

Proposed Condition 2-22-01

Cut 7”11 3/4” x 16” x 30” @ 80’ BML

CIBP int @ 900’ (300’ BM)

GIMs:  
1) 2.03’’ MD  
2) 2.812’’ MD  
3) 3.530’’ MD  
4) 4.21’’ MD  
5) 4.738’’ MD

Tubing:  
2-7/8 5.5# DSS-HTC

Seal Bore @ 8,095’

“L” Sand Perfs 8,220-8,260’

SQZ Perfs w/115,665-cement

Locator W/2’ Seals @ 8,274’

Baker “F-1” Packer @ 8,275’

Baker “SC-1” Packer @ 9,109’

Seal Bore @ 9,118’

“L” Sand Perfs 9,264-9,290’ (Watered Out)

EZSV @ 9,470’

“L-1” Sand Test Perfs 9,530’-9,602’ (WET)

Baker “F-1” Packer @ 9,617’

7”, 32# P-110 @ 10,875’

TD @ 10,885’
Pull entire completion above L-1 Test perfor.
Pull 2-7/8" tubing from Baker SC-1 packer @ 8086 ft MD.
Retrieve Baker SC-1 packer.
Pull 8" gauge screen.
Retrieval Baker F-1 packer @ 8275 ft MD.
Drill out cement plug @ 8330 ft TVD.
Retrieve Baker SC-1 packer @ 8310 ft MD.
Pull 8" gauge screen.
Retrieval Baker F-1 packer @ 8320 ft MD.
Drill out cement plug below 8275 ft MD.
Retrieve Baker F-1 packer @ 8317 ft MD.
Assumptions: See embedded Notes.
250.1715(a) (1) To what depth must I remove wellheads and casings? Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.

250.1715(a)(8) A well with casing:
- A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.

7" Wellbore
- Allow for sufficient WOC, tag up with agreed upon weight. Pressure test.
- All cement jobs must be designed to abide by regulation 250.420(c)(1) and (2)

A-8 As Built Schematic indicates L-1 sand was watered out. It also indicates that 31 sacks of class H cement were squeezed below the bridge plug set @ 9089 ft MD.

Packer must be designed to API Spec 11D1 Pressure test

2-7/8" tubing cut point
- Pressure test center wellbore

Plug (3) Bridge Plug
- Bridge Plug installed in the center wellbore as described in 250.420(b)(3)

BSEE: 250.1715(a)(11) Two independent barriers, one must be mechanical barrier, in the center of the wellbore as described in 250.420(b)(3)

L sand perfs through 2-7/8" tubing Pressure test

Plug (1) Land tubing plug in XN landing nipple, 11 ft above packer Pressure test.
- Allow for sufficient WOC.

Plug (2) Perforate 7" casing, squeeze cement to B annulus Pressure test.

BSEE: 250.1715(a)(6) An annular space that communicates with open hole and extends to the mudline:
- A cement plug at least 200 ft long set in the annular space.

7" x 10-3/4" annulus (B annulus) Pressure test
- Allow for sufficient WOC.
A-8 As Built Schematic indicates L-1 sand was watered out. It also indicates that 31 sacks of class H cement were squeezed below the bridge plug set @ 9089 ft MD L sand perfs through 2-7/8" tubing

- **Assumptions:** See embedded Notes

### Drilling Sequence

1. **Land XN Plug in X landing nipple@ 8075 ft MD**
   - Cut 2-7/8" tubing @ ~7975 ft MD (~100 ft above tubing plug)
   - Pull tubing.

2. **Assumptions:** See embedded Notes

### Testing/Verification Requirements

- **Plug (1):** Land tubing plug in XN landing nipple, 11 ft above packer
  - J-sand perfs through 2-3/8" tubing

- **Plug (2):** Pressure test through 3-5/8" landing
  - Allow for sufficient WOC

- **Plug (3):** Bridge Plug
  - Pressure test through 3-5/8" landing
  - Allow for sufficient WOC

### Remarks

- **Plug (1):** A cement surface plug at least 200 ft long set in the annular space above the top of the plug at no more than 100 ft below the tool face.

### Notes

- **Plug (2):** A cement surface plug at least 200 ft long set in the annular space above the top of the plug at no more than 100 ft below the tool face.

### Let Us Know

- **Plug (3):** A cement surface plug at least 200 ft long set in the annular space above the top of the plug at no more than 100 ft below the tool face.

### Additional Information

- **Pressure test through 3-5/8" landing**
  - Allow for sufficient WOC.
Taylor Energy Company
Mississippi Canyon Block 20
OCS-G 4935, Well A-9

2.313" I.D. "X" Nipple @ 778'
2.312" I.D. TROP-1A
Safety Valve @ 861'

2.313" I.D. "X" Nipple @ 3,500'

All nipples have flow coupling above and below

2.205" I.D. "XN" Nipple @ 7,792'

Shearout Safety joint @ 7,825'
3 1/2" Blank Pipe @ 7,825'-7,921'
3 1/2", 8 gauge Screen @ 7,921'-7,974'
1.650" I.D. Seal Bore w/2.347" I.D.
Expendable Bore @ 7,974'
Tell Tale Screen @ 7,975'-7,985'

Cement Retainer @ 8,015'
Perfs Squeezed w/40 sx Class "H"
PBTD @ 8,560'

Present Condition
11/22/85 Revised 4/16/02

BEST AVAILABLE COPY

890' = 30'
1,590' = 16'
3,620' = 10-3/4" 45.5#

GLM's
1) 2,259' MD Live
2) 3,093' MD
3) 3,732' MD Live
4) 4,433' MD Live
5) 5,111' MD Live

Tubing:
2-7/8" 6.5# DSS-HTC @

Locator W Seals @ 7,802'
Baker "SC-1" Packer @ 7,803'
Seal Bore @ 7,812'

"J" Sand
Perfs 7,930'-7,969'
Locator w/2' of Seals @ 7,965'
Baker "F-1" Packer @ 7,986'

"J" Sand Test
Perfs 8,040'-8,084' (WET)

7" 29# N-80 Casing @ 8,640'
TD @ 8,647
A-9 P&A Scenario:
Pull Completion:
Unstrike tubing from Baker SC-1 packer @ 7803 ft. Retrieve SC-1 packer.
Pull tubing from Baker F-1 packer @ 8018. F-1 packer is drillable.
250/4-20a was not originally abided by. In order to satisfy the requirement drill through cement container @ 8015 ft MD and cement supposedly placed across J Sand Test Perfs. Install bridge plug above PBTD with 50 ft of cement above bridge plug. 7” and 10-3/4” (cut within casing)
Assumptions: See embedded Notes

---

**Plug 5**

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<thead>
<tr>
<th>MD</th>
<th>TVD</th>
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<tbody>
<tr>
<td>547</td>
<td>532</td>
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</table>

**Plug 5** is a combination barrier for:

250.1715-8: A well with casing;
AND
250.1715-4: A casing stub where the stub end is within the casing

---

**Plug 4**

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**Plug 3**

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**Plug 2**

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**Plug 1**

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<tbody>
<tr>
<td>810</td>
<td>820</td>
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</tbody>
</table>

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**Plug 5** - A well with casing:
A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mud line.

---

**Plug 4** - A casing stub where the stub end is within the casing:
A cement retainer or bridge plug set at least 50 to 100 feet above the stub end with at least 50 feet of cement on top of the retainer or bridge plug.

---

**Plug 3** - A perforated zone that is currently open and not previously squeezed or isolated:
If perforated zones are isolated from the hole below, you may use plugs specified.

---

**Plug 2** - A perforated zone that is currently open and not previously squeezed or isolated:
If perforated zones are isolated from the hole below, you may use plugs specified.

---

**Plug 1** - A perforated zone that is currently open and not previously squeezed or isolated:
If perforated zones are isolated from the hole below, you may use plugs specified.

---

**Plug 5** - Cut and pull of 13-3/8”:
Section 250.1715(b)(11) Two independent barriers, one must be mechanical barrier, in the center of the wellbore as described in 250.420(c)(5)

---

**Plug 4** - Cut and pull of 7”:
Section 250.1715(b)(10) A perforated zone that is currently open and not previously squeezed or isolated

---

**Plug 3** - Cut and pull of 7”:
Section 250.1715(b)(9) A perforated zone that is currently open and not previously squeezed or isolated

---

**Plug 2** - Cut and pull of 7”:
Section 250.1715(b)(8) A perforated zone that is currently open and not previously squeezed or isolated

---

**Plug 1** - Cut and pull of 7”:
Section 250.1715(b)(7) A perforated zone that is currently open and not previously squeezed or isolated

---

**Plug 5** - Cut and pull of 13-3/8”:
Section 250.1715(b)(6) A perforated zone that is currently open and not previously squeezed or isolated

---

**Plug 4** - Cut and pull of 7”:
Section 250.1715(b)(5) A perforated zone that is currently open and not previously squeezed or isolated

---

**Plug 3** - Cut and pull of 7”:
Section 250.1715(b)(4) A perforated zone that is currently open and not previously squeezed or isolated

---

**Plug 2** - Cut and pull of 7”:
Section 250.1715(b)(3) A perforated zone that is currently open and not previously squeezed or isolated

---

**Plug 1** - Cut and pull of 7”:
Section 250.1715(b)(2) A perforated zone that is currently open and not previously squeezed or isolated

---

**Plug 5** - Cut and pull of 13-3/8”:
Section 250.1715(b)(1) A well with casing:

---

**Plug 4** - Cut and pull of 7”:
Section 250.1715(b)(1) A well with casing:

---

**Plug 3** - Cut and pull of 7”:
Section 250.1715(b)(1) A well with casing:

---

**Plug 2** - Cut and pull of 7”:
Section 250.1715(b)(1) A well with casing:

---

**Plug 1** - Cut and pull of 7”:
Section 250.1715(b)(1) A well with casing:
Squeeze J Sand perf.
Install tubing plug in XN landing nipple @ 7792
Cut tubing @ 7692 MD (~100 ft above tubing plug)
Pull tubing.

Assumptions: See embedded Notes

<table>
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<th>Leak Path Addressed</th>
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<td>BSEE: 250.1715(a)(11)</td>
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<td>BSEE: 250.1715(a)(6)</td>
<td>N/A</td>
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<td>250.1716.(a)</td>
<td>To what depth must I remove wellheads and casings?</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mudline.</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Allow for sufficient WOC time. Pressure test.</td>
<td>Pressure test.</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td></td>
<td>All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)</td>
<td>Pressure test.</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td></td>
<td>250.1715(a)(3) An annular space that communicates with open hole and extends to the mudline:</td>
<td>BSEE: 250.1715(a)(3)</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td></td>
<td>A cement plug at least 200 ft long set in the annular space.</td>
<td>BSEE: 250.1715(a)(3)</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td></td>
<td>250.1715(a)(2) An annular space that communicates with open hole and extends to the mudline: A cement plug at least 200 ft long set in the annular space.</td>
<td>BSEE: 250.1715(a)(2)</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td></td>
<td>250.1715(a)(5)</td>
<td>B-annulus cementing:</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td></td>
<td>A cement plug at least 200 ft long set in the B-annulus.</td>
<td>B-annulus cementing:</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Allow for sufficient WOC time. Pressure test.</td>
<td>Pressure test.</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td></td>
<td>250.1715(a)(1)</td>
<td>B-annulus cementing:</td>
<td>N/A</td>
</tr>
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<td></td>
<td></td>
<td>A cement plug at least 200 ft long set in the B-annulus.</td>
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<td></td>
<td>Allow for sufficient WOC time. Pressure test.</td>
<td>Pressure test.</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>250.1715(a)(4)</td>
<td>B-annulus cementing:</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td></td>
<td>A cement plug at least 200 ft long set in the B-annulus.</td>
<td>B-annulus cementing:</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Allow for sufficient WOC time. Pressure test.</td>
<td>Pressure test.</td>
<td>N/A</td>
</tr>
</tbody>
</table>
30"x16"x10-3/4"x7" Sever

250.1716.(a) To what depth must I remove wellheads and casings?

Unless the District Manager approves an alternate depth (under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.

Plug (1)

Note: 250.1715(a)(2) A well with casing:

- A cemented plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.
- Pressure test

Plug (2)

Note: 250.1715(a)(5) An annular space that communicates with open hole and extends to the mudline:

- A cement plug at least 200 feet long set in the annular space.
- Pressure test

Plug (3)

BSEE: 250.1715(a)(8) A well with casing:

- A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.
- Pressure test

Assumptions: See embedded Notes
Taylor Energy Company
Mississippi Canyon Block 20
OCS-G 4935, Well A-10

Tubing:
2-7/8" 6.5# L80 8rd AB Mad. to 9757'.

780' = "SWS" LN
854' = Baker TE-5 SCSSV
875' = 30" 310#
1589' = 16"

4006' = "SWS" LN
4092' = 10-3/4" 45.5#

Gas lift mandrels:
1) 2080' MD (live)
2) 2866' MD (live)
3) 3589' MD (dummy)
4) 4261' MD (dummy)
5) 4959' MD (dummy)
6) 5219' MD (dummy)
7) 6222' MD (dummy)

9708' = "SWS" LN
9712' = Baker "SC-1" Packer

9891' = 3-1/2" 8 gauge screen
"L-3" Sd. Perfs:
9900-80'
9999' = Baker Sump Pkr.

12160' = 7" 29# & 32# N80

Present Condition
T. Albert - 07/02/96
**A-10 P&A Scenario:**

Pull Completion (Unsting tubing from Baker SC-1 packer @ 9741 ft with straight pull) * Cut and pull 7” and 10-3/4” (cut within casing)

Assumptions: See embedded Notes

*Can SC-1 packer be retrieved? Drillable? Cut and pull tubing below packer with 8” gauge screen

---

**Requirement: BSSE**

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</table>

**Plug (6)**

*BSSE: 250.1715(a)(4)* A well with casing:

- A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.

- Isolation of perforations
- Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)

**Plug (8)**

*BSSE: 250.1715(a)(8)* A well with casing:

- A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.

- Isolation of perforations
- Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)

---

**Assumptions:** See embedded Notes

---

**250.1716.(a) To what depth must I remove wellheads and casings?**

Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.

---

**A-10 P&A Scenario:**

Pull Completion (Unsting tubing from Baker SC-1 packer @ 9741 ft with straight pull) * Cut and pull 7” and 10-3/4” (cut within casing)

Assumptions: See embedded Notes

*Can SC-1 packer be retrieved? Drillable? Cut and pull tubing below packer with 8” gauge screen

---

**Requirement: BSSE**

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**Plug (6)**

*BSSE: 250.1715(a)(4)* A well with casing:

- A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.

- Isolation of perforations
- Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)

**Plug (8)**

*BSSE: 250.1715(a)(8)* A well with casing:

- A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.

- Isolation of perforations
- Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)

---

**Assumptions:** See embedded Notes

---

**250.1716.(a) To what depth must I remove wellheads and casings?**

Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.
A-10 P&A Scenario option 2:
Squeeze L-3 sand perfs.
Install tubing plug @ X Nipple (9708 ft MD)
Cut tubing @ ~9628 ft MD (~100 ft above tubing plug)
Pull tubing.
Assumptions: See embedded Notes

<table>
<thead>
<tr>
<th>Plug 3</th>
<th>Plug 2</th>
<th>Plug 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>TDC (annulus)</td>
<td>551</td>
<td>16&quot; shoe</td>
</tr>
<tr>
<td>30&quot; shoe</td>
<td>871</td>
<td>Top of Plug</td>
</tr>
<tr>
<td>Bottom of Plug</td>
<td>851</td>
<td>Bridge Plug</td>
</tr>
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<td>NA</td>
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<td>Plug (4)</td>
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<td>7&quot; Wellbore</td>
<td>Allow for sufficient WOC, tag up with agreed upon weight. Pressure test.</td>
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<tr>
<td>Plug (5) Bridge Plug</td>
<td>Bridge Plug installed below cement plug</td>
<td></td>
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<td>BSEE: 250.1711(a)(11) Two independent barriers, one must be mechanical barrier, in the center of the wellbore as described in 250.420(b)(3)</td>
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<td>Packer must be designed to API Spec 11D1 Pressure test.</td>
</tr>
<tr>
<td>TDC (annulus)</td>
<td>1381</td>
<td></td>
</tr>
<tr>
<td>2-7/8&quot; Tubing</td>
<td>9606</td>
<td></td>
</tr>
<tr>
<td>Tubing</td>
<td>9706</td>
<td></td>
</tr>
<tr>
<td>X Nipple</td>
<td>9706</td>
<td></td>
</tr>
<tr>
<td>Baker SC-1 packer</td>
<td>9741</td>
<td></td>
</tr>
<tr>
<td>Plug (5)</td>
<td>Plug (5)</td>
<td></td>
</tr>
<tr>
<td>BSEE: 250.1711(b)(4); An annular space that communicates with open hole and extends to the mudline: A cement plug at least 100 ft long set in the annular space.</td>
<td>7&quot; x 10-3/4&quot; annulus (B annulus)</td>
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<tr>
<td>Plug (6)</td>
<td>Plug (6)</td>
<td></td>
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<tr>
<td>BSEE: 250.1711(c)(3) An annular space that communicates with open hole and extends to the mudline: A cement plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.</td>
<td>7&quot; Wellbore</td>
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<td></td>
</tr>
<tr>
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</tr>
<tr>
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<td></td>
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<tr>
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<td>9741</td>
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<td>7&quot; Wellbore</td>
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<td>9741</td>
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<td>Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.</td>
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<td>Plug (1)</td>
<td>BSEE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mud line.</td>
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<tr>
<td>Plug (2)</td>
<td>Bridge Plug</td>
<td>BSEE: 250.1715(a)(11) Two independent barriers, one must be mechanical barrier, in the center of the wellbore as described in 250.420(b)(3).</td>
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<td>Plug (3)</td>
</tr>
</tbody>
</table>

Assumptions: See embedded Notes

A-10 P&A Scenario option 3:
Squeeze L-3-sand perf.
Install tubing plug @ X Nipple (9708 ft MD)
Cut tubing @ 9608 ft MD (~ 100 ft above tubing plug)
Pull tubing.
A-11 P&A Scenario:
Pull Completion (Unsting tubing from Comp Set II HP packers @ 7860 ft, 8394 ft, and 8583 ft MD and retrieve packers).

Drill out cement above and below EZSV set @ 8800 ft. Unseat Baker SC-1 packer @ 9226 ft MD. Pull tubing and 8 gauge 3-1/2" OD screen (8507 ft - 8582 ft) and drill out Baker F-1 packer set @ 9479 ft MD.

Cut and pull 7" and 10-3/4" (cut within casing)

Assumptions: See embedded Notes
A-11 As Built well schematic (2001) indicates that M perfs were squeezed previously.

A-11 As Built well schematic indicates:
50 ft of cement pumped above EZSV
50 ft of cement pumped below EZSV
M sand perfs through 2-7/8" tubing

Plug (1)
Tubing plug set in X landing nipple.  
K-sand perfs thru 2-7/8" tubing  Allow for sufficient WOC.  Pressure test.

Plug (2)
Perforate 7" casing, squeeze cement to B annulus
7" x 10-3/4" annulus (B annulus)  Allow for sufficient WOC

Plug (3)
BSEE: 250.1715(a)(11) Two independent barriers, one must be mechanical barrier, in the center of the wellbore as described in 250.420(b)(3)

All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
Packer must be designed to API Spec 11D1

PBTD/TOF 10217  
7" shoe
10317  
TD
10322
9912

Assumptions: See embedded Notes
### A-11 As Built well schematic indicates:

- 50 ft of cement pumped above EZSV
- 50 ft of cement pumped below EZSV
- M sand perfs through 2-7/8" tubing

### A-11 P&A Scenario option 3:

1. M sands previously abandoned with EZSV and cement.
2. Squeeze 1 sand perforations
3. Cut 2-7/8" tubing @ ~8104 ft MD (~100 ft above tubing plug)

### Assumptions:

- See embedded Notes

### Testing/Verification Requirements:

<table>
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<tr>
<td>TOC (annulus)</td>
<td>549</td>
<td>16&quot; shoe</td>
<td>Allow for sufficient WOC, tag up with agreed upon weight. Pressure test.</td>
</tr>
<tr>
<td>X Nipple</td>
<td>8387</td>
<td>Comp-set II HP Packer</td>
<td>Allow for sufficient WOC, tag up with agreed upon weight. Pressure test.</td>
</tr>
<tr>
<td>K sand Top Perf</td>
<td>8510</td>
<td>Squeeze cement through K sand perforations</td>
<td>Allow for sufficient WOC, tag up with agreed upon weight. Pressure test.</td>
</tr>
<tr>
<td>K Sand Base Perf</td>
<td>8574</td>
<td>Comp Perm II packer</td>
<td>Allow for sufficient WOC, tag up with agreed upon weight. Pressure test.</td>
</tr>
<tr>
<td>EZSV</td>
<td>8800</td>
<td>Cement below EZSV</td>
<td>Allow for sufficient WOC, tag up with agreed upon weight. Pressure test.</td>
</tr>
<tr>
<td>2-7/8&quot; tubing cut</td>
<td>9000</td>
<td>Baker SC-1 packer</td>
<td>Allow for sufficient WOC, tag up with agreed upon weight. Pressure test.</td>
</tr>
</tbody>
</table>

### Additional Information:

- **Depth to Remove Wellheads and Casings:** Unless the District Manager approves an alternate depth, a depth of 15 feet below the mudline must be removed. 30" x 16" x 10-3/4" x 7" cut point.

### Note:

- The above information is intended to guide the removal of casing and cement from the wellbore. Additional tests and verifications may be required to ensure compliance with applicable regulations.
**A-12 P&A Scenario:**

Pull Completion. Retrievable A-5 Dual packer @ 9204 ft. Unsting from SC-1 packer @ 9415 ft. Drill out sump packer. Unsting from SC-1 packer @ 10480 ft with straight pull. Retrieve SC-1 packer. Cut and pull tubing. Drill out sump packer @ 10722 ft. Assuming 100 ft shoe track.

**Assumptions:** See embedded Notes.
A-12 P&A Scenario option 2:
No sand package has been previously squeezed.
Squeeze N sand perfs.
Squeeze L sand perfs.
Set tubing plugs in both 2-3/8” tubing strings (well has dual strings up to 9222 ft MD).
Cut both 2-3/8” tubing strings above tubing plugs.
Pull tubing.
Assumptions: See embedded notes

<table>
<thead>
<tr>
<th>Test Description</th>
<th>Pressure Test</th>
</tr>
</thead>
<tbody>
<tr>
<td>L Sand Base Perfs</td>
<td>Pressure test</td>
</tr>
<tr>
<td>N Sand Base Perfs</td>
<td>Pressure test</td>
</tr>
<tr>
<td>PBTD/TOF 7-5/8” shoe</td>
<td>Pressure test</td>
</tr>
</tbody>
</table>

BSEE: 250.1715(a)(11) Two independent barriers, one must be mechanical barrier, in the center of the wellbore as described in 250.420(b)(3) center wellbore

BSEE: 250.1715(a)(8) A well with casing:
A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.

PBTD/TOF 7-5/8” shoe/TD Pressure test

Packer must be designed to API Spec 11D1

Pressure test

All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)

250.1716.(a) To what depth must I remove wellheads and casings?
Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.

PBTD/TOF 7-5/8” shoe/TD Pressure test

Allow for sufficient WOC, tag up with agreed upon weight. Pressure test.

All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)

<table>
<thead>
<tr>
<th>Test Description</th>
<th>Pressure Test</th>
</tr>
</thead>
<tbody>
<tr>
<td>XN Nipple (A-12)</td>
<td>Pressure test</td>
</tr>
<tr>
<td>XN Nipple (A-12D)</td>
<td>Pressure test</td>
</tr>
</tbody>
</table>

PBTD/TOF 7-5/8” shoe/TD Pressure test

Packer must be designed to API Spec 11D1

Pressure test

Allow for sufficient WOC

XN Nipple (A-12) Pressure test

Pressure test

Pressure test

Pressure test

Pressure test
MC 20 Well A 012 Option 3

No sand package has been previously squeezed.

A-12 P&A Scenario option 3:

- No sand package has been previously squeezed.
- Squeeze N sand perfs.
- Squeeze L sand perfs.
- Set tubing plugs in both 2-3/8" tubing strings (well has dual strings up to 9222 ft MD).
- Cut both 2-3/8" tubing strings above tubing plugs.
- Pull tubing.

Assumptions: See embedded Notes.
Taylor Energy M.C. 20 A Platform
A - 13 Well

X-Nipple w/ "DX" plug in SCSSSV @ 854
(SCSSSV Baker T8-S)
2-3/8" 5.5 A N-89 DD/HT Tgt.
2,441 ID Plastic Coated

Annulus Fluid Upper: Surface up to 1911' MD
Either 8.5 ppg Sea Water or Injection Gas
(Gas Lift System)

Annulus Fluid Lower: 1011' to 5880' MD
10.1 ppg CaCl

Baker "D" @ 6560 MD
3/4" Blank pipe from 6545' to 6713'
10' Low Profile prepack Screen 6713' to 6723'
Installed May 1997

"N" Sand Perfs
6744' - 6760' (17') MD
8501' - 8600' (9') TVD
6 SPF

"N" Sand Perfs
9922' - 10049' (68') MD
9378' - 9411' (62') TVD
6 SPF

Baker Bump Pkr @ 16056
7" 23 V @ 10169 MD

GLM3 @ 1011' MD 1007' TVD Live
GLM2 @ 3359' MD 3364' TVD Dummy
GLM1 @ 4558' MD 4564' TVD Dummy

Note from Top of Sand to Pkr 102'
Open csg below Pkr 3042'
Total Volume 116 bbl
From Pkr to perf. 64' Volume 2.4 bbl
3.8 bbls per 100'

Top Cut @ 9972' MD
PXM Plug in Lnk @ 9661' w/ 10' Cmt

Baker "SC-1" Pkr @ 9720' MD
Assuming 100 ft shoe track.

Assumptions: See embedded Notes

### Requirement: BSSE

#### Leak Path Addressed

#### Testing/Verification Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Leak Path Addressed</th>
<th>Testing/Verification Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>250.1715(a)(i)</td>
<td>To what depth must I remove wellheads and casings?</td>
<td>N/A</td>
</tr>
<tr>
<td>Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Plug (4)</th>
<th>Bridge Plug</th>
<th>Bridge Plug installed below cement plug</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cut and pull 10-3/4”</td>
<td>7” x 10-3/4” annulus</td>
<td>Allow for sufficient WOC, top up with agreed upon weight. Pressure test.</td>
</tr>
<tr>
<td>BSEE: 250.1715(a)(4)</td>
<td>A casing stub where the stub end is within the casing.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Plug (4)</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Cut and pull 7”</td>
<td>3” x 10-3/4” annulus</td>
<td>Allow for sufficient WOC, top up with agreed upon weight. Pressure test.</td>
</tr>
<tr>
<td>BSEE: 250.1715(a)(11)</td>
<td>Two independent barriers, one must be mechanical barrier, in the center of the wellbore as described in 250.430(b)(1).</td>
<td></td>
</tr>
</tbody>
</table>

### Plug 4 is a combination barrier for:

250.1715(a)(8) A well with casing:

A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mud line.

250.1715(a)(4) A casing stub where the stub end is within the casing:

A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.
**A-13 P&A Scenario option 2:**

Cut tubing above Baker D Model packer @ 6680 ft MD
Pull tubing
Retrievet Baker D Model packer, pull tubing.
Install bridge plug with cement above upper most H perf.

Assumptions: See embedded Notes

---

**MD** | **TVD** | **Requirement: BSEE** | **Leak Path Addressed** | **Testing/Verification Requirements**
---|---|---|---|---

**Plug 3**

<table>
<thead>
<tr>
<th>MD</th>
<th>TVD</th>
</tr>
</thead>
<tbody>
<tr>
<td>479</td>
<td>19</td>
</tr>
</tbody>
</table>

**Plug 2**

<table>
<thead>
<tr>
<th>MD</th>
<th>TVD</th>
</tr>
</thead>
<tbody>
<tr>
<td>532</td>
<td>32</td>
</tr>
</tbody>
</table>

**Plug 1**

<table>
<thead>
<tr>
<th>MD</th>
<th>TVD</th>
</tr>
</thead>
<tbody>
<tr>
<td>534</td>
<td>43</td>
</tr>
</tbody>
</table>

---

**10-3/4" shoe**

- **Plug 3**
  - Top of Plug: 562
  - Bottom of Plug: 563
  - Bridge Plug: 563

- **Plug 2**
  - Top of Plug: 850
  - Bottom of Plug: 852
  - Bridge Plug: 852

- **Plug 1**
  - Top of Plug: 850
  - Bottom of Plug: 852

---

**BSEE: 250.1715(a)(11)**

- A well with casing:
  - A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.

**Plug (3)**

- A well with casing:
  - A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.

---

**Plug (3) Bridge Plug**

- **Plug (2)**
  - Perforate 7" casing, squeeze cement to B annulus

- **Plug (1)**
  - Perforate 7" casing, squeeze cement to B annulus

---

**2-7/8" Tubing Cut point**

- 9876
- Cement: 9877
- Tubing Plug: 9887
- 89 Top: 9887
- Baker SC-1 packer: 9720

---

**Tubing**

- 9720

---

**Tubing**

- 10556

---

**Plug (3)**

- **Plug (2)**
  - Perforate 7" casing, squeeze cement to B annulus

- **Plug (1)**
  - Perforate 7" casing, squeeze cement to B annulus

---

**BSEE: 250.1715(a)(8)**

- A well with casing:
  - A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.

---

**Plug (2)**

- **Plug (1)**
  - Perforate 7" casing, squeeze cement to B annulus

---

**PBTD/TOF**

- 10569
- 7" shoe/TO: 10569
---

**Notes:**

1. **Plug (3)**
   - Perforate 7" casing, squeeze cement to B annulus
   - **Plug (2)**
     - Perforate 7" casing, squeeze cement to B annulus
   - **Plug (1)**
     - Perforate 7" casing, squeeze cement to B annulus

2. **Plug (3)**
   - Perforate 7" casing, squeeze cement to B annulus
   - **Plug (2)**
     - Perforate 7" casing, squeeze cement to B annulus
   - **Plug (1)**
     - Perforate 7" casing, squeeze cement to B annulus

---
A-13 P&A Scenario option 3:
Cut tubing above Baker D Model packer @ 6680ft MD
Pull tubing
Retrieve Baker D Model packer, pull tubing
Install bridge plug with cement above upper most H perf.
Assumptions: See embedded Notes.

**Plug (2)**
- Perforate 7" casing, squeeze cement to B annulus
- BSEE: 250.1715(a)(6) An annular space that communicates with open hole and extends to the mudline:
  - 7" x 10-3/4" annulus (B annulus)
  - Allow for sufficient WOC, tag up with agreed upon weight. Pressure test.
  - All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
- Plug (1)
- Perforate 7" casing, squeeze cement to B annulus
- BSEE: 250.1715(a)(6) An annular space that communicates with open hole and extends to the mudline:
  - 7" x 10-3/4" annulus (B annulus)
  - Allow for sufficient WOC, tag up with agreed upon weight. Pressure test.
  - All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)

---

**Requirements: BSSE**

<table>
<thead>
<tr>
<th>MD</th>
<th>TVD</th>
<th>Leak Path Addressed</th>
<th>Testing/Verification Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>6744</td>
<td>10169</td>
<td>10-3/4&quot; x 16&quot; annulus (C annulus) and 7-5/8&quot; x 10-3/4&quot; (B annulus)</td>
<td>Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)</td>
</tr>
<tr>
<td>3092</td>
<td>3592</td>
<td>7&quot; shoe/TD</td>
<td>Isolation of perforations</td>
</tr>
<tr>
<td>6948</td>
<td>6959</td>
<td>Bridge Plug</td>
<td></td>
</tr>
</tbody>
</table>
MISSISSIPPI CANYON 20
OCS-G-4935
PRESENT COMPLETION

2 7/8" x 2 7/8" DOUBLE PIN SUB @ 566' (2 1/2" BELOW TUBING HANGER)
30' CASING @ 890'
16' CASING @ 1590'
FMP-1.0 GAS LIFT HANGER @
1) 2,248' MD 3) 4,078' MD
2) 3,124' MD 4) 5,007' MD
10 3/4", 45.5# CASING @ 3,580'
MEASURING DATUM: 0' ORIG. KOB; 53.58' ABOVE TUBING HANGER

Baker "SC-1" PACKER @ 8,311'
SEAL BORE @ 8,320'
END OF TUBING @ 8,327'
3/4" BLANK PIPE @ 8,333 - 8,535'
3/4", 18 GA. SCREEN @ 8,535 - 8,660'
1 1/2" I.D. SEAL BORE W/ 2.347" I.D. EXPANDABLE BORE @ 8,660'
TELL TALE SCREEN @ 8,660 - 8,691'
1 7/8", 33.7# CSG. @ 9,259'
TP @ 9,280'

BY: GWE 9-10-86
A-14 P&A Scenario:
Pull Completion.
Unplug tubing from SC-1 packer @ 8311 ft with straight pull. SC-1 packer is retrievable. Unseat from sump packer @ 8670 ft. Pull tubing. Drill out sump packer.
Assumptions: See embedded Notes.
A-14 P&A Scenario option 2:
Squeeze L-sand perfs.
Install tubing plug @ XN Nipple (8272 ft MD)
Cut tubing @ ~8,172 ft MD (~100 ft above tubing plug)
Pull tubing.
Assumptions: See embedded Notes

<table>
<thead>
<tr>
<th>Wellbore Cut Points</th>
<th>MD</th>
<th>TVD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plug 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>XN Nipple</td>
<td>8272</td>
<td>8272</td>
</tr>
<tr>
<td>Tubing Plug</td>
<td>8272</td>
<td>8272</td>
</tr>
<tr>
<td>L Sand Top Perf</td>
<td>8546</td>
<td>8546</td>
</tr>
<tr>
<td>L Sand Base Perf</td>
<td>8556</td>
<td>8556</td>
</tr>
<tr>
<td>Sump Packer</td>
<td>8670</td>
<td>8670</td>
</tr>
<tr>
<td>Plug 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2-3/8” Tubing Cut point</td>
<td>8172</td>
<td></td>
</tr>
<tr>
<td>Tubing Plug</td>
<td>8272</td>
<td></td>
</tr>
<tr>
<td>XN Nipple</td>
<td>8272</td>
<td></td>
</tr>
<tr>
<td>Plug 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>30” shoe</td>
<td>890</td>
<td>890</td>
</tr>
<tr>
<td>Top of Plug</td>
<td>882</td>
<td>882</td>
</tr>
<tr>
<td>Bottom of Plug</td>
<td>832</td>
<td>832</td>
</tr>
<tr>
<td>Bridge Plug</td>
<td>832</td>
<td>832</td>
</tr>
<tr>
<td>TOC (annulus)</td>
<td>533</td>
<td>533</td>
</tr>
<tr>
<td>10-3/4” shoe</td>
<td>1590</td>
<td>1590</td>
</tr>
</tbody>
</table>

250.312(a) To what depth must I remove wellheads and casings?
Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.

Plug (1) BSEE: 250.315(b)(2) A well with casing:
A cement surface plug at least 100 feet long set in the smallest casing that extends to the mudline with the top of the plug no more than 100 feet below the mudline.

To MD 9280
250.1716.(a) To what depth must I remove wellheads and casings?
Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.

Plug (3) Bridge Plug:
Bridge Plug installed below cement plug
BSEE: 250.315(b)(1) Two independent barriers, one must be mechanical barrier, in the center of the wellbore as described in 250.420(b)(3)

Plug (1) BSEE: 250.315(b)(2) A well with casing:
A cement surface plug at least 100 feet long set in the smallest casing that extends to the mudline with the top of the plug no more than 100 feet below the mudline.

Plug (2) BSEE: 250.315(b)(3) An annular space that communicates with open hole and extends to the mudline:
A cement plug at least 200 ft long set in the annular space.

Plug (3) Tubing Plug:
Tubing plug in XN Nipple @ 8272 ft MD.
L-sand perfs through 2-3/8” tubing

Plug (3) Squeeze cement through L Sand perforations
Isolation of L-sand perfs
Allow for sufficient WOC, Pressure test
**A-14 P&A Scenario option 3:**

*Squeeze L-sand perfs.*

**Assumptions:** See embedded Notes

### Wellhead and Casing Removal

<table>
<thead>
<tr>
<th>Requirement: BSEE</th>
<th>Leak Path Addressed</th>
<th>Testing/Verification Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>250.1714(a)(3) To what depth must I remove wellheads and casings?</td>
<td>Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.</td>
<td></td>
</tr>
</tbody>
</table>

### Plug (1)

**Plug (1) Bridge Plug**

- **2.5" casing, squeeze cement to B annulus**
- **250.1713(x)(6)** Two independent barriers, one must be a mechanical barrier, in the center of the wellbore as described in 250.420(c)(3)

### Plug (2)

- **10-3/4" tubing cut at ~8,172 ft MD (~100 ft above tubing plug)**
- **250.1715(a)(8)** A well with casing:
  - A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.

### Plug (3)

- **Bridge Plug installed below cement plug**
- **250.1715(a)(6)** An annular space that communicates with open hole and extends to the mudline:
  - A cement plug at least 200 ft long set in the annular space.

### Wellbore Integrity

- **XN Nipple @ 8272 ft MD**
- **L-sand perfs thru 2.5/8" tubing**

- **Plug (1) Tubing Plug in XN Nipple @ 8272 ft MD**
- **2.5/8" tubing cut at ~8,172 ft MD**

**Notes:**

- Squeeze cement through L-sand perforations.
- Isolate set of L-sand perforations.
- Allow for sufficient WOC. Pressure test.

---

### Diagram

[Diagram of wellbore and plugs]
Cemented 10" casing with 1020 sacks Trinity Lite. Lost returns after 218 of 339 bbls displaced. Grouted 30" x 15" annulus with 700 sacks Class H.

Cemented 10-3/4" casing with 1200 sacks Trinity Lite plus 500 sacks H Neat. Full returns and 187 bbls of cement to surface. Washed out 10" x 10-3/4" annulus with grout string.

30" 310 #/ft drive pipe @ 890' MD
16" 84 & 75 #/ft conductor @ 1620' MD / 1619' TVD, 20° hole
10-3/4" 55.5 #/ft surface casing @ 3725' MD / 3655' TVD, 14-3/4° hole

After Casing was cemented, Casing was tested to 2400 psig for 30 minutes - Good test.

Cemented 7-5/8" casing with 3800 sacks Class H. Displaced with 514 bbls 11.9 ppg drilling mud. Full returns and 115 bbls of cement to surface. Washed out 10-3/4" x 7-5/8" annulus with grout string.

11.9 PPG Drilling Mud

PB TD @ 11924'
12011' MD / 10539' TVD = 7-5/8"
33.7 & 39 #/ft casing, 9-1/2" hole

TD = 12080' MD / 10599' TVD

AS SUSPENDED
September 29, 1986

Prepared By: L. North
Date: 01/22/2008
Revised 3/12/2008
A-15 P&A Scenario:

- No completion ever run. Well was drilled and cased with 7” production casing.
- Casing tested 30 mins to 2400 psi – good test.
- Cement returns to surface for 7” and 10-3/4” cement jobs.
- Lost returns on 16” cement job, top down job with 700 sacks Class H cement.
- Unable to determine if this cement was placed as per plan.

Assumptions: See embedded Notes

### Table: Testing/Verification Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Leak Path Addressed</th>
<th>Testing/Verification Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSEE</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Diagram:

- **MD**: 479
- **RKB**: 53
- **Top of Plug**: 682
- **Bridge Plug**: 882
- **7” x 10-3/4” cut point**: 932
- **10” shoe**: 890
- **Bottom of plug**: 882
- **Cut and Pull**: 7” & 10-3/4”

### Notes:

- **API x s x 10-3/4” x 7”**
- **API**: 113.1746 (p) In what depth must I remove wellheads and casings?
- **BSEE**: 250.1715(a)(11) Two independent barriers, one must be mechanical barrier, in the center of the wellbore as described in 250.420(b)(3)
- **BSEE**: 250.1715(a)(8) A well with casing:
  - A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.
- **250.420.c.(1) and (2)**
- **7” wellbore**
- **10-3/4” x 16” annulus**
- **Allow for sufficient WOC, tag up with agreed upon weight.**
- **All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)**
- **Pressure test**
- **Frac must be designed to API Spec 1101**
Tubing:
A-16 = 2-3/8" 4.7# L-80 ABC 8rd
A-16D = 2-3/8" 4.7# L-80 ABC 8rd

Note: Due to corrosion in SS, the SS was abandoned 5/95 and production commenced through the LS, now called 16D.

1.875" ID "X" LN @ 628'
1.875" ID "X" LN @ 4058'
1.875" ID "X" LN @ 9523'
CIBP w/10' cement on top @ 9550'

Otis "RDH" Pkr. = 6872'

4" 8 gauge screen @ 9803-9910'
End of seal assembly @ 9933'
Live GLVs (4/65):
2104' MD, 2099' TVD
3049' MD, 2999' TVD
3980' MD, 3780' TVD
4837' MD, 4504' TVD
5486' MD, 5015' TVD
6159' MD, 5718' TVD

End of seal assembly @ 11012'
4" 8 gauge screen @ 11211-11378'

API = 60817402670000D02

Present Condition
T. Albert - 04/27/95
A-16 P&A Scenario: Pull Completion

Retrievable A-5 Dual packer @ 9119 ft. Stunising from SC-1 packer @ 9001 ft. SC-1 packer is retrievable. Unseat from SC-1 packer @ 9529 ft. Remove SC-1 packer.

11" tubing above sump packer @ 10996 ft MD. Did not pull packer. Pull tubing below packer.

<table>
<thead>
<tr>
<th>MD</th>
<th>TVD</th>
<th>Requirement: BSSE</th>
<th>Leak Path Addressed</th>
<th>Testing/Verification Requirements</th>
</tr>
</thead>
</table>
| 419 | 419 | N/A | N/A | Allow for sufficient WOC, tag-up with agreed upon weight. Pressure test. 
| N/A | N/A | All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2) |

**Plug 5** is a combination barrier for:

- BSSE: 250.1715.a (8) A well with casing:
  - A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mud line.

- BSSE: 250.1715.a (4) A casing stub where the stub end is within the casing: (ii) A cement plug or bridge plug set at least 50 to 100 feet above the stub end with at least 50 feet of cement on top of the cement retainer or bridge plug.

**Plug 4**

- Cut and pull 7”.

**Plug 3**

- Cut and pull 10-3/4”.

**Plug 2**

- Cut and pull 10-3/4”.

**Plug 1**

- Cut and pull 10-3/4”.

<table>
<thead>
<tr>
<th>MD</th>
<th>TVD</th>
<th>Requirement: BSSE</th>
<th>Leak Path Addressed</th>
<th>Testing/Verification Requirements</th>
</tr>
</thead>
</table>
| 536 | 536 | N/A | N/A | Allow for sufficient WOC, tag-up with agreed upon weight. Pressure test. 
| N/A | N/A | All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2) |

**Plug 5** is a combination barrier for:

- BSSE: 250.1715.a (8) A well with casing:
  - A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mud line.

- BSSE: 250.1715.a (4) A casing stub where the stub end is within the casing: (ii) A cement plug or bridge plug set at least 50 to 100 feet above the stub end with at least 50 feet of cement on top of the cement retainer or bridge plug.

**Plug 4**

- Cut and pull 7”.

**Plug 3**

- Cut and pull 10-3/4”.

**Plug 2**

- Cut and pull 10-3/4”.

**Plug 1**

- Cut and pull 10-3/4”.

<table>
<thead>
<tr>
<th>MD</th>
<th>TVD</th>
<th>Requirement: BSSE</th>
<th>Leak Path Addressed</th>
<th>Testing/Verification Requirements</th>
</tr>
</thead>
</table>
| 536 | 536 | N/A | N/A | Allow for sufficient WOC, tag-up with agreed upon weight. Pressure test. 
| N/A | N/A | All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2) |

**Plug 5** is a combination barrier for:

- BSSE: 250.1715.a (8) A well with casing:
  - A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mud line.

- BSSE: 250.1715.a (4) A casing stub where the stub end is within the casing: (ii) A cement plug or bridge plug set at least 50 to 100 feet above the stub end with at least 50 feet of cement on top of the cement retainer or bridge plug.

**Plug 4**

- Cut and pull 7”.

**Plug 3**

- Cut and pull 10-3/4”.

**Plug 2**

- Cut and pull 10-3/4”.

**Plug 1**

- Cut and pull 10-3/4”.

<table>
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<tr>
<th>MD</th>
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<th>Requirement: BSSE</th>
<th>Leak Path Addressed</th>
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</tr>
</thead>
</table>
| 536 | 536 | N/A | N/A | Allow for sufficient WOC, tag-up with agreed upon weight. Pressure test. 
| N/A | N/A | All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2) |

**Plug 5** is a combination barrier for:

- BSSE: 250.1715.a (8) A well with casing:
  - A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mud line.

- BSSE: 250.1715.a (4) A casing stub where the stub end is within the casing: (ii) A cement plug or bridge plug set at least 50 to 100 feet above the stub end with at least 50 feet of cement on top of the cement retainer or bridge plug.

**Plug 4**

- Cut and pull 7”.

**Plug 3**

- Cut and pull 10-3/4”.

**Plug 2**

- Cut and pull 10-3/4”.

**Plug 1**

- Cut and pull 10-3/4”.

<table>
<thead>
<tr>
<th>MD</th>
<th>TVD</th>
<th>Requirement: BSSE</th>
<th>Leak Path Addressed</th>
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</tr>
</thead>
</table>
| 536 | 536 | N/A | N/A | Allow for sufficient WOC, tag-up with agreed upon weight. Pressure test. 
| N/A | N/A | All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2) |
A-16 As Built and P&A Schematic indicate that the P sands have been previously abandoned. Only P&A schematic shows a plug within the tubing. A-16 tubing previously abandoned with installed CIBP and cement.

Set tubing plug in A-16 2-3/8” tubing string @9521 ft MD.

Cut both 2-3/8” tubing strings above plugs.

Pull tubing.

As of May 15, 2014, Section 250.1716(a) describes how to remove wellheads and casings.

Pressure test

250.1715(a)(6) (to where depth water immersed will reach and mangle) requires the division manager to approve an all-around depth with a cement plug below it. If cement is not to be used, a plug of an equivalent material must be used to the zone.

Section 250.1715(a)(8) requires a cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mud line.

7-5/8” x 10-3/4” annulus (B annulus)

Plug (2)

Bridge Plug installed below cement plug

BSEE: 250.1715(a)(11) requires two independent barriers, one of which must be a mechanical barrier.

2-3/8” Tubing Cut Point (A-16)

A-5 Dual packer

10 ft of cement

CIBP w/in tubing

Baker SC-1 packer

M Sand Top Perf

Squeeze cement through M Sand perforations

M Sand Perfs through 2-3/8” tubing

Allow for sufficient WOC

Pressure test.

M Sand Base Perf

SC-1 Packer

10 ft of cement

CIBP

O Sand Top Perf

O Sand Base Perf

SC-1 Packer

P Sand Top Perf

P Sand Base

Sump Packer

PBTD/TOF

7-5/8” shoe/TD

Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.

Pressure test

Assumptions: See embedded Notes.
**P and O Sand Package have been previously squeezed.**

A-16 tubing has been previously abandoned with a CIBP and cement. Set tubing plug in A-16 2-3/8” string @9521 ft MD. Cut both 2-3/8” tubing strings above plugs. Pull casing.

**Plug (3)**

Set cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mud line. 

**Plug (2)**

Perforate 7” casing, squeeze cement to B annulus

**Plug (1)**

Tubing plug set in X landing nipple in A-16 2-3/8” tubing string

A-16 As Built and P&A Schematic indicate that the P sands have been previously abandoned. Only P&A schematic shows a plug within the tubing.

P and O Sand Perfs through 2-3/8” tubing. Pressure test

**Plug (3)** Bridge Plug

Bridge Plug installed in bottom casing string.

**Plug (2)**

Cement annular space that communicates with open hole and extends to the mud line:

A cement plug at least 200 ft long set in the annular space.

**Plug (1)**

Tubing plug set in X landing nipple in A-16 2-3/8” tubing string

A-16 As Built and P&A Schematic indicate that the P sands have been previously abandoned. Only P&A schematic shows a plug within the tubing.

M Sand Perfs through 2-3/8” tubing. Pressure test

**Plug (3)**

Cut and pull 7” & 10-3/4”

A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.

10-3/4” x 16” annulus (C annulus) and

7-5/8” x 10-3/4” annulus (B annulus)

**Plug (2)**

Set cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mud line.

7-5/8” x 10-3/4” annulus (B annulus) and

7-5/8” x 10-3/4” annulus (C annulus)

**Plug (1)**

Tubing plug in A-16 2-3/8” string @9521 ft MD.

**Plug (3)**

Set cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mud line.

**Plug (2)**

Perforate 7” casing, squeeze cement to B annulus

**Plug (1)**

Tubing plug set in X landing nipple in A-16 2-3/8” tubing string

M Sand Perfs through 2-3/8” tubing. Pressure test

**Plug (3)** Bridge Plug

Bridge Plug installed in bottom casing string.

**Plug (2)**

Cement annular space that communicates with open hole and extends to the mud line:

A cement plug at least 200 ft long set in the annular space.

**Plug (1)**

Tubing plug set in X landing nipple in A-16 2-3/8” tubing string

M Sand Perfs through 2-3/8” tubing. Pressure test

**Plug (3)**

Set cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mud line.

7-5/8” x 10-3/4” annulus (B annulus) and

7-5/8” x 10-3/4” annulus (C annulus)

7-5/8” x 10-3/4” annulus (B annulus)

**Plug (2)**

Set cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mud line.

7-5/8” x 10-3/4” annulus (B annulus) and

7-5/8” x 10-3/4” annulus (C annulus)

**Plug (1)**

Tubing plug set in X landing nipple in A-16 2-3/8” tubing string

M Sand Perfs through 2-3/8” tubing. Pressure test

**Plug (3)** Bridge Plug

Bridge Plug installed in bottom casing string.
Tubing:
2-3/8" 4.7# N-80 AB-Mod.
8rd (TK-33) to 7148’

GLM’s:
1) 2387’
2) 3954’

799’ = Baker "TE-5" SCSSV
891’ = 30” 310#
1603’ = 16” 84# K-55
3000’ = "SW" LN
3283’ = 10-3/4” 55.5# MP-110

6580’ = Baker "FH" Packer

7094’ = "SW" LN
7132’ = Locator w/16’ of seals
7139’ = Baker "SC-1” Packer

7250-7277’ = 4” 8 gauge screen
"F" Sand:
7259-7366’ MD, 5794-67’ TVD

7274’ = Baker Sump Packer

8845’ = Top of cement
8966’ = 7-5/8” 33.7# MP-110
8967’ = TD

Present Condition
T. Albert - 07/03/96

+53’ = Elevation
479’ = Water Depth
Taylor Energy MC20 Platform Subsurface P&A Project:
A-17ST Well Construction Schematic -

13 July 2009

Well A-17ST

Original Water Depth = 479'  
Current Water Depth = -440'

SCSSSV:  
Set @ 799' MD  
Baker Model "TE-5"  
Closed on 12Sep04

"SWS" Nipple @ 3002' MD

Annulus Fluid Upper:  
Surface to 3854' MD  
Either 8.5 ppg Seawater or Injection Gas (gas lift system)

Annulus Fluid Interface:  
GLM #1 @ 3994' MD/3946' TVD

Hole Size: 9-7/8"

Annulus Fluid Lower:  
3954' to 7139' MD  
9.8 ppg Filtered Seawater

Top of Cement:  
5639' MD

Upper Packer:  
7-5/8" Baker "FW" Packer set @ 8968' MD

Five 8" Nipple @ 7056' MD

Top of frac sand at ~7152'  
= 98% of 40/70 sand above screen  
(based on daily report)

Gauge Screen:  
27269.7 7272 MD

4 1" Holes:

Classification: Sump Packer in Place

Assume some sand in sump  
(tailpipe may be plugged ??)

PRTD:  
8145' MD Top of FC in casing tally

Not to Scale

Drawn by: James F. Woodward, PE, PMP
**A-17 P&A Scenario Option 1:**
Pull existing completion.
Cut and pull 2-3/8" tubing @ ~6480 ft (above Baker FH packer). Retrieve packer.
Unlock 2-3/8" tubing from Baker SC-1 packer @ 7139 ft with straight pull. Retrieve packer.
Cut and pull 2-3/8" tubing and screen from ~7200 ft MD (above Baker sump packer). Drill out sump packer.

Assumptions: See embedded Notes

<table>
<thead>
<tr>
<th>Requirement: BSSE</th>
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<th>Testing/Verification Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSEE: 250.1715(a) (8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>BSEE: 250.1715(a)(4) A casing stub where the stub end is within the casing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BSEE: 250.1715(a)(9) A casing stub where the stub end is within the casing</td>
<td>Allow for sufficient WOC, tag-up with agreed upon weight.</td>
<td>All cement jobs must be designed to abide by regulation 250-D.2(c)(1) and (2)</td>
</tr>
<tr>
<td>BSEE: 250.1715(a)(11) Two independent barriers, one must be mechanical barrier, in the center of the wellbore as described in 250-420(b)(3).</td>
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</tr>
</tbody>
</table>

**PBTD/TOF** 8845
7-5/8" shoe/TD 8966 6948

**F Sand Top** 7216 5795
F Sand Base 7366 5802

**PLUG 1** IS A COMBINATION BARRIER FOR:
BSEE: 250.1715(a)(9) A casing stub where the stub end is within the casing
AND
BSEE: 250.1715(a)(4) A casing stub where the stub end is within the casing

**PBTD/TOF** 8845
7-5/8" shoe/TD 8966 6946

**Assumptions:** See embedded Notes
A-17 P&A Scenario option 2:

Squeeze F-sand perfs.
Install tubing plug ~100 ft below pulled FH packer @ 6580
Cut tubing @ ~6480 R MD (~100 ft above FH packer)
Pull tubing.

Assumptions: See embedded Notes

**Requirement: BSEE**

<table>
<thead>
<tr>
<th>Stage</th>
<th>Wellhead</th>
<th>Cement Plug</th>
<th>TD (annulus)</th>
<th>2-3/8&quot; shoe</th>
<th>16&quot; shoe</th>
<th>1603</th>
<th>286x361</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plug 1</td>
<td>F Sand Top</td>
<td>7256</td>
<td>5795</td>
<td>7-5/8&quot; x 10-3/4&quot; Annulus</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| | F Sand Base | 7366 | 5869
| Plug 2 | F Sand Top Perf | 7239 | 5795
| | F Sand Base Perf | 7289 | 5802
| | SW Nipple | 7034
| | Production packer | 7139
| | Tip Plug | 6690
| | Baker FH packer | 6340
| | 2-3/8" Tubing cut point | 6480
| Plug 3 | Sump Packer | 7274
| | PBTD/TOF | 8845
| | 7-5/8" shoe/TD | 8956 | 6948

**Leak Path Addressed**

- F Sand Top Perfs
- Isolation of F Sand Perfs
- Allow for sufficient WOC time. Pressure test.

**Testing/Verification Requirements**

- (250.1714(c)) To what depth must I remove wellheads and casings?
  - Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.
  - N/A

- Plug (1)
  - BSEE: 250.1714(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mud line.
  - 7-5/8" + 7-5/8" Annulus (B Annulus)
  - Allow for sufficient WOC time. Pressure test.
  - Packer must be designed to API Spec 11D1 Pressure test

- Plug (2)
  - BSEE: 250.1714(a)(11) Two independent barriers, one must be mechanical barrier, in the center of the wellbore as described in 250.420(b)(3)
  - 7-5/8" x 10-3/4" Annulus (B Annulus)
  - Allow for sufficient WOC.

- Plug (3)
  - BSEE: 250.1715(a)(6) An annular space that communicates with open hole and extends to the mudline: A cement plug at least 200 ft long set in the annular space.
  - 7-5/8" x 10-3/4" Annulus (B Annulus)
  - Allow for sufficient WOC time. Pressure test.
### A-17 P&A Scenario option 3:

Squeeze F-sand perfs.

Install tubing plug ~100 ft below pulled FH packer (API 6580)

Cut tubing @ ~6480 ft MD (~ 100 ft above FH packer)

Pull tubing.

Assumptions: See embedded Notes.

### Testing/Verification Requirements

<table>
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<th>TVD</th>
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<tr>
<td>BSEE: 250.1715(a)(6) An annular space that communicates with open hole and extends to the mudline:</td>
<td></td>
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<tr>
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<tr>
<td>BSEE: 250.1715(a)(11) Two independent barriers, one must be mechanical barrier, in the center of the wellbore as described in 250.420(b)(3)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BSEE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mudline with the top of the plug set no more than 150 feet below the mudline.</td>
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<tr>
<td>BSEE: 250.1715(a)(4) A casing stub where the stub end is within the casing (iii) A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.</td>
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<tr>
<td>BSEE: 250.1715(a)(3) A cement surface plug at least 200 ft long set in the annular space to at least 15 ft below the mudline.</td>
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<tr>
<td>BSEE: 250.1715(a)(2) A casing stub with casing</td>
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<tr>
<td>BSEE: 250.1715(a)(1) A casing stub</td>
<td></td>
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</tr>
</tbody>
</table>

### Diagram

- **Plug 1**: Tubing plug ~100 ft below retrieved FH packer
  - F-sand perfs through 2-3/8" tubing
  - Allow for sufficient WOC time. Pressure test.

- **Plug 2**: BM: 250.1715(a)(2) A well with casing:
  - A cement surface plug at least 150 feet long set in the smallest casing that extends to the mudline
  - A cement plug at least 200 feet long set in the annular space to at least 15 ft below the mudline.
  - Allow for sufficient WOC time.

- **Plug 3**: BM: 250.1715(a)(3) A cement surface plug at least 200 ft long set in the annular space.
  - Allow for sufficient WOC time. Pressure test.

### Notes

- **30"x16"x10-3/4"x7" Carve**
  - BWI 111(1) To what depth must I remove wellheads and casings? Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mudline.

### Additional Information

- **MD**
  - 470
- **BHB**
  - 53
- **BHB to MLD**
  - 523
- **Cut point**
  - 580 150 15
- **30" shoe**
  - 547
- **50" shoe**
  - 801
- **Top of Plug 822**
- **Bottom of plug 822**
- **Tubing Plug 822**
- **7-3/4" shoe cut 889**
- **Tubing Plug 669**
- **SW Nipple 7094**
- **Production packer 7106**
- **F Sand Top 7256. 5795**
- **F Sand Base 7386. 5809**
- **F Sand Top Perf 7210. 5789**
- **F Sand Base Perf 7209. 5807**
- **Plug (3)**
  - Cut and pull 7" & 10-3/4" casing
  - BM: 250.1715(a)(2) A casing stub where the stub end is within the casing
  - BM: 250.1715(a)(3) A cement surface plug at least 150 feet long set in the smallest casing that extends to the mudline
  - 10-3/4" x 10-3/4" annulus (B annulus)
  - 7-3/4" x 10-3/4" annulus (A annulus)
- **Plug (1)**
  - BM: 250.1715(a)(1) A casing stub
  - BM: 250.1715(a)(2) A casing stub with casing
  - BM: 250.1715(a)(3) A cement surface plug at least 200 ft long set in the annular space to at least 15 ft below the mudline.
- **Plug (2)**
  - BM: 250.1715(a)(4) A casing stub where the stub end is within the casing (iii) A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.
  - 10-3/4" x 10-3/4" annulus (C annulus)
  - 10-3/4" x 10-3/4" annulus (B annulus)
- **Plug (3)**
  - BM: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mudline with the top of the plug no more than 150 feet below the mudline.
  - 7-3/4" x 10-3/4" annulus (B annulus)
  - BM: 250.1715(a)(6) An annular space that communicates with open hole and extends to the mudline: 7-3/4"x10-3/4"x7" Carve
  - Allow for sufficient WOC time. Pressure test.

---

**F Sand Top**

MD: 470
BHB: 53
BHB to MLD: 523
Cut point: 580 150 15
30" shoe: 547
50" shoe: 801
Top of Plug: 822
Bottom of plug: 822
Tubing Plug: 822
7-3/4" shoe cut: 889
Tubing Plug: 669
SW Nipple: 7094
Production packer: 7106
F Sand Top: 7256. 5795
F Sand Base: 7386. 5809
F Sand Top Perf: 7210. 5789
F Sand Base Perf: 7209. 5807
Plug (3): Cut and pull 7" & 10-3/4" casing
BM: 250.1715(a)(2) A casing stub where the stub end is within the casing
BM: 250.1715(a)(3) A cement surface plug at least 150 feet long set in the smallest casing that extends to the mudline
10-3/4" x 10-3/4" annulus (C annulus)
7-3/4" x 10-3/4" annulus (B annulus)
Plug (1): BM: 250.1715(a)(1) A casing stub
BM: 250.1715(a)(2) A casing stub with casing
BM: 250.1715(a)(3) A cement surface plug at least 200 ft long set in the annular space to at least 15 ft below the mudline.
10-3/4" x 10-3/4" annulus (C annulus)
10-3/4" x 10-3/4" annulus (B annulus)
Plug (2): BM: 250.1715(a)(4) A casing stub where the stub end is within the casing (iii) A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.
10-3/4" x 10-3/4" annulus (C annulus)
7-3/4" x 10-3/4" annulus (B annulus)
Plug (3): BM: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mudline with the top of the plug no more than 150 feet below the mudline.
7-3/4" x 10-3/4" annulus (B annulus)
BM: 250.1715(a)(6) An annular space that communicates with open hole and extends to the mudline: 7-3/4"x10-3/4"x7" Carve
Allow for sufficient WOC time.
Tubing:
2-7/8" 6.5# DSS-HTC to 9663'.

Gas lift mandrels:
1) 2050' MD, 2054' TVD (Live-0/95)
2) 2088' MD, 2097' TVD (Live-0/95)
3) 3613' MD, 3483' TVD (dummy)
4) 4239' MD, 4367' TVD (dummy)
5) 4542' MD, 4546' TVD (dummy)
6) 5581' MD, 5946' TVD (dummy)
7) 6215' MD, 5547' TVD (dummy)

T. Albert - 06/07/95

Present Condition

776' = 2.313" ID "X" LN

890' = 30' 310#
885' = 2.312" ID TRDP-1A Safety Valve
1007' = 15' 75# K-55 BTC
3260' = 10-3/4" 55.5# MP-110 BTC
3690' = 2.313" ID "X" LN

BEST AVAILABLE COPY

9872' = 2.205" ID "XN" LN

9883' = Baker "SC-1" Packer

10001' = 1.660" Seal bore w/2.347" ID expandable bore.

9906-10061' = 4" 8 gauge screen

"L-3" Sand:
10010-55' MD, 8750-94' TVD

10056' = Baker "F1" Packer

10034' = EZSV
"L-3" Test perf (well):
10066-100' MD

11040' = EZSV w/25 sacks cement above and 100 sacks below.

"N-3" Sand:
11080-126' MD

11219' = 7-5/8" 29.7, 33.7 & 39#
P-110, MP-110 & Q-125

TOC = 10903'
PBTD = 10084' MD, 8817 TVD
TD = 11219' MD, 9050' TVD
### Testing/Verification Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>BSSE</th>
<th>Leak Path Addressed</th>
</tr>
</thead>
<tbody>
<tr>
<td>250.1716(a)</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

#### A-18 P&A Scenario option 1:

Pull entire completion above L-3 Test perforations.
Pull 2-7/8" tubing from Baker SC-1 packer @ 9883.
Retrieve SC-1 packer.
Pull 8" gauge screen.
Drill out Baker F1 packer.

**Assumptions:** See embedded Notes

---

### A blank page with diagram and some text:

#### Diagram:

- **Plug 1**
  - TOC (annulus): 9510
  - 10-3/4" shoe: 11219

- **Plug 2**
  - TOC (annulus): 352
  - 10-3/4" shoe: 9115

#### Text:

- **250.1715(a)(8)**: A well with casing:
  - A cement surface plug at least 150 feet long set in the smallest casing that extends to the mudline with the top of the plug no more than 150 feet below the mudline.

- **250.1715(a)(4)**: A casing stub where the stub end is within the casing:
  - A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.

---

### Notes:

- **250.1715(a)(11)**: Two independent barriers, one must be a mechanical barrier, in the center of the wellbore as described in 250.420(c).
- **5" x 10-3/4" x 7-5/8" x 3/4" x 7"**
- **250.1716(a)**: To what depth must I remove wellheads and casings?

- Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mudline.

---

### Additional Information:

- **Pressure test center wellbore**
- **Bridge Plug installed below cement plug**
- **Isolation of perforations**

---

### Calculations:

- **PLUG 2 IS A COMBINATION BARRIER FOR:**
  - **250.1715(a)(8)**: A well with casing.
  - **250.1715(a)(4)**: A casing stub where the stub end is within the casing.

---

### Assumptions:

- See embedded Notes

---

### Conclusion:

- A-18 As Built well schematic indicates that L-3 Test sand is not.
### A-18 P&A Scenario option 2

**Objective:**
- Squeeze L-3 Sand perforations
- Install tubing plug in XN landing nipple
- Cut tubing above tubing plug
- Pull tubing

**Assumptions:** See embedded Notes

#### Testing/Verification Requirements

<table>
<thead>
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<th>BSSE</th>
<th>Leak Path Addressed</th>
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<tbody>
<tr>
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#### Notes:

- **Regulation 250.1716.(a)** To what depth must I remove wellheads and casings? Unless the District Manager approves an alternate departure under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mudline.

####cut point

- 30” x 16” x 10-3/4” x 7”
- 30” shoe
  - 891
- 832
- 9872
- 9772
- XN Nipple
  - 9872
- BH SC-1 packer
  - 7139

#### L-3 Sand Top Perf

- 10010  8750
- Squeeze cement through L Sand perforations

#### L-3 Sand Base Perf

- 10056  8794

#### PBTD/TOF

- 10084  8817
- 7-5/8” shoe/TD

#### casing above calculation

- 10935
- EZSV
- 11040
- 11462

#### casing below calculation

- 11080
- N-3 Sand Top
- 11126
- N-3 Sand Bottom

#### P&A Scenario option 2:

- Squeeze L-3 Sand perforations
- Install tubing plug in XN landing nipple
- Cut tubing above tubing plug
- Pull tubing

**Assumptions:**

- See embedded notes
A-18 P&A Scenario option 3:

Squeeze F-sand perforations.
Install tubing plug ~100 ft below pulled FH packer @ 6580 FT MD.
Cut tubing @ ~6380 FT MD (~100 ft above FH packer)
Pull tubing.
Assumptions: See embedded Notes

---

**Table:**

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<tr>
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<th>Testing/Verification Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

**Diagram:**

- **Plug 1:**
  - Tubing plug set in XN landing nipple.

- **Plug 2:**
  - Perforate 7" casing, squeeze cement to B annulus

- **Plug 3:**
  - Cut and pull 7" & 10-3/4" casing stub where the stub end is within the casing (iii) A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.

---

**Notes:**

- **XN NIPPLE:**
  - Tubing Plug
  - (1)

---

**Assumptions:**

- Class H cement (1.05 ft^3/sk), 7-5/8" casing with avg .435" WT = .249 ft^3/ft capacity.
- Depths associated with calculations.

---

**Results:**

- **TOC (annulus) 532:**
  - 16" shoe

- **TOC (annulus) 2760:**
  - 10-3/4" shoe

- **TOC (annulus) 9510:**
  - 2-3/8" tubing cut point

- **Plug 1:**
  - XN Packer

- **Plug 2:**
  - BH F-1 Sump Packer

- **Plug 3:**
  - BH SC-1 packer

---

**Regulations:**

- **BSEE: 250.1715(a)(8):** A well with casing:
  - A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.

- **BSEE: 250.1715(a)(6):** An annular space that communicates with open hole and extends to the mudline:
  - A cement plug at least 200 ft long set in the annular space.

- **BSEE: 250.1715(a)(11):** Two independent barriers, one must be mechanical barrier, in the center of the wellbore as described in 250.420(b)(3)

---

**To what depth must I remove wellheads and casings?**

Unless the District Manager approves an alternate depth, under paragraph (b) of this section, you must remove all wellheads and casings to a depth of 15 feet below the seal line.

---

**Additional Notes:**

- Pressure test before beginning intervention operations.
### MC 20 Well A 019 Option 1

**Pull entire Completion:**
- Cut and pull 2-3/8" tubing @ ~6480 ft (above Baker FH packer). Retrieve packer.
- Unsting 2-3/8" tubing from Baker SC packer @ 7139 ft with straight pull. Retrieve packer.
- Cut and pull 2-3/8" tubing and screen from ~7200 ft MD (above Baker sump packer). Drill out sump packer.

**Assumptions:** See embedded Notes

### Testing/Verification Requirements

**Requirement:** BSSE

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### Plug 1

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<tr>
<td>Bridge Plug</td>
<td>882</td>
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<tr>
<td>10-3/4&quot; cut point</td>
<td>857</td>
</tr>
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</table>

| TDC (annulus) | 532 |
| 16" shoe | 1626 |

### Plug 2

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<tbody>
<tr>
<td>Bottom of plug</td>
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<tr>
<td>Bridge Plug</td>
<td>882</td>
</tr>
<tr>
<td>10-3/4&quot; cut point</td>
<td>857</td>
</tr>
</tbody>
</table>

| TDC (annulus) | 532 |
| 10-3/4" shoe | 4370 |

| TDC (wellbore) | 8710 |
| Bridge Plug | 10431 |
| Sand Top Perf | 10483 |
| Sand Base Perf | 10534 |

| PBTD/TOF | 10595 |
| 7" shoe/TOF | 10680 |

### 250.1716 (a) To what depth must I remove wellheads and casings?

- Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings up to at least 15 feet below the mudline.

### 250.1715 (a)(8) A well with casing:

- A cement surface plug at least 150 feet long set in the smallest casing that extends to the mudline with the top of the plug no more than 150 feet below the mudline.

### 250.1715 (a)(4) A casing stub where the stub end is within the casing:

- A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.

### 250.1715 (a)(3) A perforated zone that is currently open and not previously squeezed or isolated:

- A bridge plug set 50 to 100 ft above the top of the perforated interval and at least 50 feet of cement on top of the bridge plug.
A-19 P&A Scenario option 2:
Squeeze I-sand perfs.
Install tubing plug ~100 ft below production packer @ 10322
Pull tubing @ ~10322 ft MD (utilize upward force)
Pull tubing.
Assumptions: See embedded Notes

**Plug 1**
Land tubing plug in X-landing nipple, 100 ft below production packer @ 49' ft above 8" gauge screen
I-sand perfs through 2-7/8" tubing
Allow for sufficient WOC time. Pressure test.

**Plug 2**
SBP/TOF 10519
7" shoe/TOF

**Plug 3**
Top of tubing 10322
Production packer 10322
Tubing Plug 10427
Top of screen 10477

**TOC (annulus)**
10-3/4" shoe 832
Bridge Plug 832

**TOC (annulus)**
30" shoe 682
Bottom of Plug 832

**TOC (annulus)**
10-3/4" shoe 4305

**TOC (annulus)**
30" shoe 908
Top of Plug 682

**TOC (annulus)**
16" shoe 1626
Plug 2
TOC (annulus) 532

**TOC (annulus)**
16" shoe 1030

**TOC (annulus)**
532
30" shoe 532

**TOC (annulus)**
832
30" shoe 832

**TOC (annulus)**
532
10-3/4" shoe 4305

**Requirement: BSSE**  
Leak Path Addressed  
Testing/Verification Requirements

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<th>Requirement</th>
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<tr>
<td>BSSE: 250.1715(a)(6)</td>
<td>A well with casing:</td>
<td>Allow for sufficient WOC, tag up with agreed upon weight. Pressure test.</td>
</tr>
<tr>
<td>A cement surface plug at least 200 ft long set in the annular space that extends to the mudline with the top of the plug no more than 100 ft below the mudline.</td>
<td>7&quot; Wellbore</td>
<td>All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)</td>
</tr>
<tr>
<td>BSSE: 250.1715(a)(7)</td>
<td>An annular space that communicates with open hole and extends to the mudline:</td>
<td>A cement plug at least 200 ft long set in the annular space.</td>
</tr>
<tr>
<td>A cement plug at least 150 feet long set in the smallest casing that extends to the mudline with the top of the plug no more than 150 feet below the mudline.</td>
<td>Center wellbore</td>
<td>Packer must be designed to API Spec 11D1. Pressure test.</td>
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<tr>
<td>BSSE: 250.1715(a)(11)</td>
<td>Two independent barriers, one must be a mechanical barrier, in the center of the wellbore as described in 250.420(b)(3)</td>
<td></td>
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</table>

**Regulations**
250.1715(a)(6)
To what depth must I remove wellheads and casings?
Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.

N/A

250.1716(a)
To what depth must I remove wellheads and casings?
Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.

250.1715(a)(7)
A well with casing:
A cement plug at least 200 ft long set in the annular space that extends to the mudline with the top of the plug no more than 100 ft below the mudline.

250.420.c.(1) and (2)
All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2).

N/A
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</thead>
</table>

**Cut point:**
- 30"x16"x10-3/4"x7" Sever

**Plug (3):**
- **BSSE:** 250.1715(b)(6) A well with casing:
  - A cement surface plug at least 200 feet long set in the smallest casing that extends to the mudline with the top of the plug no more than 100 feet above the mudline.

**Plug (2):**
- **BSSE:** 250.1715(b)(6) An annular space that communicates with open hole and extends to the mudline:
  - A cement plug at least 200 ft long set in the annular space.

**Plug (1):**
- Land tubing plug is at landing nipple, 100 ft below production packer @ 7514 ft MD
- Land perf through 2-7/8" tubing
- A cement plug at least 200 ft long set in the annular space

**Assumptions:**
See embedded Notes.
Taylor Energy Company  
Mississippi Canyon Block 21  
OCS-G 15459, Well A-20

Completion  
As Performed  
11/25/00

Casing:  
30", .625" x 1.5" wall @ 904
13", 75#, K-55 @ 1632
10-3/4", 45.5# K-55 @ 5,065'
7-5/8", 29.7# HCP-110 @ 14,370'

Tubing:  
2-7/8", 5.5#, L-80 @ 14,091'
Internally coated tubing and accessories
10.1 ppg CaCl2 Completion Fluid

126' = Elevation  
479' = Water Depth

GLM's:  
9 = 13,460' MD, 7,216' TVD Live  
8 = 12,311' MD, 6,713' TVD Live  
7 = 11,193' MD, 6,208' TVD Dummy  
6 = 10,046' MD, 6,700' TVD Dummy  
5 = 9,031' MD, 6,204' TVD Dummy  
4 = 7,817' MD, 4,765' TVD Dummy  
3 = 6,580' MD, 4,155' TVD Dummy  
2 = 4,888' MD, 3,426' TVD Dummy  
1 = 2,330' MD, 2,212' TVD Dummy

14,045' = 'K' Nipple (ID=2.313")

14,109' = 'X' Nipple (ID=2.313")

"K" Sand  
Perfs:  
14,156' - 14,209' MD (7,570'-7,593' TVD)  
12 SPF

14,214' = Sump Packer

8 Gauge Screen (14,150' - 14,214')

14,091' = Quantum Packer

14,111' = Large bore Flapper Valve

14,214' = Sump Packer

Present Condition  
W.T. Folsom - 12/25/00

TD = 14,370 MD / 7,689' TVD

14,272' = PBTD  
14,370' = 7-5/8", 29.7#, HCP-110
**A-20 P&A Scenario Option 1:**
Pull entire Completion:
Pull 2-3/8" tubing @ ~14091 ft (SLB Quantum packer), Retrieve packer.
Cut tubing above sump packer @ 14,214 ft.
Did not sump packer.

Assumptions: See embedded Notes
A-20 P&A Scenario option 2:

Squeeze K-sand perf.
Install tubing plug at X Nipple @ 14,106 ft. ~15 ft below production packer @ 14,091 ft.
Pull tubing @ ~14,091 ft. MO (utilizes upward force).

Assumptions: See embedded Notes.
A-20 P&A Scenario option 3:
Squeeze K-sand perfs.
Install tubing plug in X Nipple @ 14,106 ft, ~15 ft below production packer @ 14091 ft
Assumptions: See embedded Notes

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<td>30&quot; shoe</td>
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<td>507</td>
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<td>Bridge Plug</td>
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<tr>
<td>957</td>
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<td>7-5/8&quot; x 10-3/4&quot; cut</td>
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<td>Tubing Plug</td>
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<td>Land base perf</td>
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<tr>
<td>14214</td>
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<td>Jump packer</td>
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**Plug (1)**
Use cement plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug set no more than 150 feet below the mudline.

**Plug (2)**
Cut and pull 7-5/8" and 10-3/4"
Use cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.

**Bridge Plug**
Bridge plug in annular space that communicates with open hole and extends to the mudline.

**Plug (3)**
Land tubing plug in X landing nipple, 15 ft below production packer ~15 ft above 8" gauge screen.

**Notes**
- All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
- Pressure test
- All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
- Allow for sufficient WOC time
- Pressure test
Taylor Energy Company
Mississippi Canyon Block 21
OCS-G 15459 Well A-21
AS COMPLETED

Present Condition

Casing:
30', 625" x 1.5' wall @ 902'
16', 75#, J-55 @ 1615'
10-3/4", 45.5# K-55 @ 3,825'
7", 23.0# L80/N80/P110 @ 8,845'

Tubing:
2-7/8", 6.5#, L-80 @ 7,786'
Internally coated tubing and accessories

790" = SCSSV
902" = 30', 625" X 1.5' Wall
1615" = 16", 75#, J-55

3,005' = 'x' Nipple (ID=2.313")
3,825" = 10-3/4" 45.5# K-55

GLM's:
8= 2,243'MD 2,232'TVD - Live
7= 3,610'MD 3,385'TVD - Live
6= 4,716'MD 4,150'TVD - Live
5= 5,408'MD 4,937'TVD - Live
4= 6,046'MD 5,103'TVD - Live
3= 6,625'MD 5,541'TVD - Live
2= 7,234'MD 6,004'TVD - Live
1= 7,751'MD 6,403'TVD - Live

7,771" = 'x' Nipple (ID=2.313")

Future Completion
H Sand
7,936'MD 6,547'TVD

8,435" = 'x' Nipple (ID=2.313")

I Sand
Perfs:
8,582" - 8,624'MD (7,030" - 7,062'TVD)
21 SPF

8,736' PBTD
8,845" = 7.0" 23.0#, L80/N80/P110

Present Condition
W.T. Folsom - 10/2/00

TD = 8,845'MD, 7,220'TVD
A-21 P&A Scenario Option 1:
Pull Entire Completion.
Pull 2-3/8" tubing @ ~7786 ft MD (Hydrow packer). Tubing can be unstung with ~35k upward force
Retrieve Hydrow packer.
Retrieve 7" SLB Quantum packer @ 8420 ft MD.
Cut and pull tubing and screen above sump packer @ 8630 ft.
Drill out sump packer.

Assumptions: See embedded Notes

**PLUG 2 IS A COMBINATION BARRIER FOR:**

- **250.1715.a (8)** A well with casing:
  - A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline

- **250.1715.a (4)** A casing stub where the stub end is within the casing:
  - A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.

- **250.1715.a (3)** A perforated zone that is currently open and not previously squeezed or isolated:
  - If perforated zones are isolated from the hole below, you may use plugs specified

**Testing/Verification Requirements**

- Allow for sufficient WOC, tag up with agreed upon weight.
- All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2).

- **250.1716.(a) To what depth must I remove wellheads and casings?**
  - Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mudline.

- **Plug (1)**
  - **250.1715.a (8)** A well with casing:
    - A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline

  - **250.1715.a (4)** A casing stub where the stub end is within the casing:
    - A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.

  - **250.1715.a (3)** A perforated zone that is currently open and not previously squeezed or isolated:
    - If perforated zones are isolated from the hole below, you may use plugs specified

**Verification**

- Isolation of perforations
- Pressure test
- Allow for sufficient WOC, tag up with agreed upon weight.

**Plug (2)**

- **250.1715.a (8)** A well with casing:
  - A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline

- **250.1715.a (4)** A casing stub where the stub end is within the casing:
  - A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.

- **250.1715.a (3)** A perforated zone that is currently open and not previously squeezed or isolated:
  - If perforated zones are isolated from the hole below, you may use plugs specified

**Verification**

- Isolation of perforations
- Pressure test
- Allow for sufficient WOC, tag up with agreed upon weight.
**Requirement: BSSE**

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<td>TVD</td>
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<td>A-21 P&amp;A Scenario option 2:</td>
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<tr>
<td>Squeeze I-sand perf.</td>
<td></td>
</tr>
<tr>
<td>Install tubing plug ~15 ft below production packer in X landing nipple @ 8435 ft MD</td>
<td></td>
</tr>
<tr>
<td>Pull tubing from 7&quot; (WFD) Hydrow packer @ ~7786 ft MD (utilize upward force of Retrieve 7&quot; Hydrow packer)</td>
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Assumptions: See embedded Notes

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<td>128</td>
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<tr>
<td>128</td>
<td>602</td>
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<tr>
<td>Cut prent 30&quot; x 10&quot; x 10&quot; (7/8&quot;)</td>
<td>822</td>
</tr>
<tr>
<td>30&quot; shoe</td>
<td>902</td>
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<tr>
<td>Top of plug</td>
<td>757</td>
</tr>
<tr>
<td>Bottom of plug</td>
<td>907</td>
</tr>
<tr>
<td>Bridge Plug</td>
<td>907</td>
</tr>
<tr>
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<td>607</td>
</tr>
<tr>
<td>38&quot; shoe</td>
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</tr>
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<td>7&quot; shoe/10</td>
<td>8845</td>
</tr>
</tbody>
</table>

250.1715(b) To what depth must I remove wellheads and casings?

Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.

<table>
<thead>
<tr>
<th>Plug (3)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>BSEE: 250.1715(b)</td>
<td>A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mud line.</td>
</tr>
<tr>
<td>Center wellbore</td>
<td>Allow for sufficient WOC time. Tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.430.c (1) and (2).</td>
</tr>
</tbody>
</table>

250.1715(a)(8) A well with casing:

A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mud line.

<table>
<thead>
<tr>
<th>Plug (2)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>BSEE: 250.1715(a)(6)</td>
<td>An annular space that communicates with open hole and extends to the mudline: A cement plug at least 200 ft long set in the annular space.</td>
</tr>
<tr>
<td>7&quot; x 10-3/4&quot; annulus (B annulus)</td>
<td>Allow for sufficient WOC time.</td>
</tr>
</tbody>
</table>

250.1715(a)(11) Two independent barriers, one must be mechanical barrier, in the center of the wellbore as described in 250.420(b)(3).

<table>
<thead>
<tr>
<th>Plug (1)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>BSEE: 250.1715(a)(3)</td>
<td>Wellbore:</td>
</tr>
<tr>
<td>Pressure test</td>
<td></td>
</tr>
</tbody>
</table>

Perforate 7" casing, squeeze cement to B annulus.

<table>
<thead>
<tr>
<th>Plug (4)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>BSEE: 250.1715(a)(6)</td>
<td>An annular space that communicates with open hole and extends to the mudline: A cement plug at least 100 ft long set in the annular space.</td>
</tr>
<tr>
<td>7&quot; x 10-3/4&quot; annulus (B annulus)</td>
<td>Allow for sufficient WOC time.</td>
</tr>
</tbody>
</table>


**MC 20 Well A 021 Option 3**

**Requirement: BSSE**

**Leak Path Addressed**

**Testing/Verification Requirements**

---

**Cut point**
- `30"x16"x10-3/4" Sever`
- `250.1716(a)` To what depth must I remove wellheads and casings?
- Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.

**Plug (3)**
- `30" shoe`
- `757`
- `Top of Plug`
- `757`
- `Bottom of plug 772`
- `Bridge Plug`
- `772`
- `7" x 10-3/4" cut point 822`  
- BSEE: 250.1715(a)(4) A casing stub where the stub end is within the casing:
  - A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.
  - `10-3/4" x 16" annulus (C annulus)` and `7" x 10-3/4" annulus (B annulus)`
- Allow for sufficient WOC, tag up with agreed upon weight. Pressure test.
- All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)

**Plug (2)**
- `TOC (annulus) 607`
- `16" shoe`
- `1615`  
- Plug (2) Perforate 7" casing, squeeze cement to B annulus
- BSEE: 250.1715(a)(6) An annular space that communicates with open hole and extends to the mud line:
  - A cement plug at least 200 ft long set in the annular space.
  - `7" x 10-3/4" annulus (B annulus)`
- Allow for sufficient WOC time. Pressure test.
  - All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)

**Plug (3)**
- `TOC (annulus) 607`
- `16-2-7/8" shoe 1825`  
- Plug (3) Bridge Plug
- Bridge Plug installed below cement plug
- BSEE: 250.1715(a)(11) Two independent barriers, one must be mechanical barrier, in the center of the wellbore as described in 250.420(b)(3)
- `10-3-1/2" x 16-2-7/8" annulus (C annulus)`
- Allow for sufficient WOC, tag up with agreed upon weight. Pressure test.
  - All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)

**Plug (3)**
- `TOC (annulus) 7710`  
- Plug (3) Bridge Plug
- Bridge Plug installed below cement plug
- BSEE: 250.1715(a)(11) Two independent barriers, one must be mechanical barrier, in the center of the wellbore as described in 250.420(b)(3)
- `7" x 10-3/4" annulus (B annulus)`
- Allow for sufficient WOC time.

---

**Assumptions:** See embedded Notes.
### Well Completion Scenarios

#### A-22 P&A Scenario Option 1: Pull Entire Completion
- Pull 2-3/8” tubing @ ~9495 ft MD (Quantum packer)
- Pull 7” SLB Quantum packer @ 9495 ft MD
- Cut and pull tubing and screen above sump packer @ 9644 ft
- Drill out sump packer

#### Assumptions:
- See embedded Notes

#### Testing/Verification Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Leak Path Addressed</th>
<th>Testing/Verification Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSSE</td>
<td>N/A</td>
<td></td>
</tr>
</tbody>
</table>

#### Well Completion Diagram

**Plug 1**
- TDC (annulus): 512 ft
- TD: 9718 ft
- 7” shoe/TD: 9790 ft

**Plug 2**
- Cut point: 564 ft
- Top plug: 30” x 16” x 10-3/4” x 7”
- Bottom plug: 899 ft
- Bridge plug: 899 ft
- 10-3/4” cut point: 949 ft

**TOC (wellbore)**
- 9522 ft
- Bridge Plug: 9522 ft
- Sand Base Perf: 9638 ft
- Sand Top Perf: 9622 ft

**TOC (annulus)**
- 549 ft
- Plug: 899 ft
- Bridge Plug: 899 ft
- 10-3/4” cut point: 949 ft

**TOC (annulus below cement plug)**
- 372 ft
- 10-3/4” shoe: 1872 ft

**TOC (wellbore below cement plug)**
- 9522 ft

**TOC (wellbore)**
- 9522 ft

**TOC (annulus)**
- 549 ft

**PLUG 2 IS A COMBINATION BARRIER FOR:**
- 250.1715.a(8) A well with casing:
  - A cement surface plug at least 150 feet long set in the smallest casing that extends to the mudline with the top of the plug no more than 150 feet below the mudline.
- 250.1715.a(4) A casing stub where the stub end is within the casing:
  - A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.

**PLUG 2 IS A COMBINATION BARRIER FOR:**
- 250.1715.a(8) A well with casing:
- 250.1715.a(4) A casing stub where the stub end is within the casing:

**PBTD**
- 9790 ft

**P&A Scenario Option 1:** Pull entire Completion
- Pull 2-3/8” tubing @ ~9495 ft MD (Quantum packer)
- Pull 7” SLB Quantum packer @ 9495 ft MD
- Cut and pull tubing and screen above sump packer @ 9644 ft
- Drill out sump packer

**Assumptions:**
- See embedded Notes
**A-22 P&A Scenario option 2:**
Squeeze I-Sand perfs.
Install tubing plug ~100 ft below production @ 9595 ft MD
Pull tubing from 7" SLB Quantum packer @ ~9495 ft MD (utilize upward force)

**Assumptions:** See embedded Notes

<table>
<thead>
<tr>
<th>MD</th>
<th>TVD</th>
<th>Requirement: BSSE</th>
<th>Leak Path Addressed</th>
<th>Testing/Verification Requirements</th>
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<tbody>
<tr>
<td>564</td>
<td>30&quot;x16&quot;x10-3/4&quot;x7&quot;</td>
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<td>744</td>
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</tbody>
</table>

**250.1714(a)(1) To what depth must I remove wellheads and casing?**
Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casing to at least 15 feet below the mudline.

---

**Packer must be designed to API Spec 11D1**

---

**250.1716(a)**
To what depth must I remove wellheads and casings?

---

**Plug (2):**
Land tubing plug in 8" landing nipple, 100 ft below production packer - All above 8" gauge screen

---

**Plug (1):**
Perforate 7" casing, squeeze cement to B annulus

---

**Plug (1):**
Squeeze cement through I Sand perforations

---

**Plug (3):**
Bridge Plug installed below cement plug

---

**Plug (2):**
Bridge Plug installed below cement plug

---

**Plug (3):**
A well with casing:
A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.
A-23 P&A Scenario option 3:

**Squeeze I-sand perf.**

Install tubing plug ~100 ft below production @ 9495 ft MD

Pull tubing from 7" SLB Quantum packer @ 9495 ft MD (utilize upward force)

Assumptions: See embedded Notes.
MC 20 Well A-23 Option 1

A-23 P&A Scenario option 1:
Pull entire completion above M-1 and N-1 perfs.
Cut and pull 2-7/8" tubing above gravel pack packer @ 10080 ft MD.
Retrieve gravel pack packer
Pull 8" gauge screen.
Drill out sump packer.
Retrieve Quantum packer @ 10375 ft MD.
Pull lower completion from sump packer @ 10615 ft MD.
Drill out sump packer if not able to retrieve.
Assumptions: See embedded Notes

Requirement: BSSE
Leak Path Addressed
Testing/Verification Requirements

50" x 10" x 10-3/4" x 3/8" Sever
BSEE: 250.1716(a) To what depth must I remove wellheads and casings?
Below the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.

Plug (3)
BSEE: 250.1715(a)(8) A well with casing:
A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.

Plug (1)
BSEE: 250.1715(a)(4) A casing stub where the stub end is within the casing:
A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.

Plug (3) Bridge Plug
Bridge Plug installed below cement plug
BSEE: 250.1715(a)(1) Two independent barriers, one must be mechanical barrier, in the center of the wellbore as described in 250.420(c).

Plug (2)
BSEE: 250.1715(a)(3) A perforated zone that is currently open and not previously squeezed or isolated
Isolation of perforations

Plug (2) Bridge Plug
Bridge Plug set 50 to 100 ft above the top of the perforated interval and at least 50 feet of cement on top of the bridge plug

Packer must be designed to API Spec 11D1
Pressure test
All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
Allow for sufficient WOC, tag up with agreed upon weight.

Plug 3 is a combination barrier for:
250.1715.a.(4) A casing stub where the stub end is within the casing
250.1715.a.(5) A perforated zone that is currently open and not previously squeezed or isolated
Isolation of perforations

Plug 2
BSEE: 250.1715(a)(4) A perforated zone that is currently open and not previously squeezed or isolated
(1) If perforated zones are isolated from the hole below, you may use plugs specified
(2) A bridge plug set 50 to 300 ft above the top of the perforated interval and at least 50 feet of cement on top of the bridge plug
Isolation of perforations
Allow for sufficient WOC, tag up with agreed upon weight. Pressure test.
All cement jobs must be designed to abide by regulation 250.420(c)(1) and (2)

Plug 1
BSEE: 250.1715(a)(4) A perforated zone that is currently open and not previously squeezed or isolated
(1) If perforated zones are isolated from the hole below, you may use plugs specified
(2) A bridge plug set 50 to 300 ft above the top of the perforated interval and at least 50 feet of cement on top of the bridge plug
Isolation of perforations
Allow for sufficient WOC, tag up with agreed upon weight. Pressure test.
All cement jobs must be designed to abide by regulation 250.420(c)(1) and (2)
A-23 P&A Scenario option 2:
N-1 Sands previously abandoned with tubing plug and cement.
Squeeze M-1 Sand perforations to 10503 ft MD
Cut 2-7/8" tubing @ ~9332 ft MD (~ 100 ft above tubing plug) P&A tubing

Assumptions: See embedded Notes
**A-24 P&A Scenario option 3:**

Squeeze I sand perf.

Install tubing plug in X landing nipple @ 8032 ft MD just above Comp-set II HP production packer.

Cut and pull tubing above Comp-set II HP packer @ ~7589 ft MD

Retreive Comp-set II HP packer and pull tubing attached

**Assumptions:** See embedded Notes

### MD TVD Requirement: BSEE Leak Path Addressed Testing/Verification Requirements

<table>
<thead>
<tr>
<th>MD</th>
<th>TVD</th>
<th>Requirement: BSEE</th>
<th>Leak Path Addressed</th>
<th>Testing/Verification Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>470</td>
<td>470</td>
<td>250.1730.G-17</td>
<td>7&quot; Wellbore</td>
<td>Allow for sufficient WOC, tag up with agreed upon weight. Pressure test.</td>
</tr>
<tr>
<td>920</td>
<td>920</td>
<td>250.1730.G-17</td>
<td>7&quot; Wellbore</td>
<td>All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)</td>
</tr>
<tr>
<td>549</td>
<td>549</td>
<td>250.1730.G-17</td>
<td>7&quot; Wellbore</td>
<td>Allow for sufficient WOC, tag up with agreed upon weight. Pressure test.</td>
</tr>
<tr>
<td>564</td>
<td>564</td>
<td>250.1730.G-17</td>
<td>7&quot; Wellbore</td>
<td>All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)</td>
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<tr>
<td>999</td>
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<td>Allow for sufficient WOC, tag up with agreed upon weight. Pressure test.</td>
</tr>
<tr>
<td>1022</td>
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<td>250.1730.G-17</td>
<td>7&quot; Wellbore</td>
<td>All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)</td>
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<tr>
<td>7930</td>
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<td>250.1730.G-17</td>
<td>7&quot; Wellbore</td>
<td>Allow for sufficient WOC, tag up with agreed upon weight. Pressure test.</td>
</tr>
<tr>
<td>8032</td>
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<td>7&quot; Wellbore</td>
<td>All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)</td>
</tr>
<tr>
<td>8145</td>
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<td>250.1730.G-17</td>
<td>7&quot; Wellbore</td>
<td>Allow for sufficient WOC, tag up with agreed upon weight. Pressure test.</td>
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<td>7&quot; Wellbore</td>
<td>All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)</td>
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<td>7&quot; Wellbore</td>
<td>Allow for sufficient WOC, tag up with agreed upon weight. Pressure test.</td>
</tr>
<tr>
<td>8240</td>
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<td>250.1730.G-17</td>
<td>7&quot; Wellbore</td>
<td>All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)</td>
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<tr>
<td>8275</td>
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<td>8364</td>
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<td>250.1730.G-17</td>
<td>7&quot; Wellbore</td>
<td>All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)</td>
</tr>
</tbody>
</table>

**Notes:**

- **Plug (1):**
  - Cut and pull 7" & 10-3/4" tubing plug at least 100 feet above the stub end. (IIH)
  - A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.

- **Plug (2):**
  - Perforate 7" casing, squeeze cement to B annulus (C annulus) and 10-3/4" annulus (B annulus) pressure test center wellbore. Packer must be designed to API Spec 11D1.

- **Plug (3):**
  - Cut and pull 7" & 10-3/4" tubings.
  - A cement plug at least 200 feet long set in the annular space.

- **Plug (4):**
  - Install composite packer @ 8032 ft MD just above Comp-set II HP production packer.

- **Plug (5):**
  - Land tubing plug in X landing nipple @ 8032 ft MD just above 113' ft above 8" gauge screen.

- **Plug (6):**
  - Land base packer @ 8212 ft MD.

- **Plug (7):**
  - Land base packer @ 8212 ft MD.

- **Plug (8):**
  - Land tubing plug in X landing nipple @ 8032 ft MD just above Comp-set II HP production packer.

- **Plug (9):**
  - Land base packer @ 8212 ft MD.

- **Plug (10):**
  - Land base packer @ 8212 ft MD.

- **Plug (11):**
  - Land tubing plug in X landing nipple @ 8032 ft MD just above Comp-set II HP production packer.

- **Plug (12):**
  - Land base packer @ 8212 ft MD.
Taylor Energy Company
Mississippi Canyon Block 20
OCS-G 4935  Well A-24

Present Condition

Casing:
30', .75" x 1.5" wall @ 508'
16', 75#, K-55 @ 1622
10-3/4', 45.5#, K-55 @ 4,183'
7', 23.0#, N80 @ 8,384

Tubing:
2-7/8', 5.5#, L-80 @ 7,588'
Internally coated tubing and accessories
10.7 CaCl2 Completion Fluid

+58.97' = Elevation
470' = Water Depth

792' = SCSSV
503' = 30' .75 x 1.5' Well
1622' = 16', 75#, K-55

2,996' = 7/8" Nipple (ID=2.313")
4,135' = 10-3/4" 45.5# K-55

GLM's:
7,529' = 7/8" Nipple (ID=2.313")

Future Completion
H2 Sand (Top of Sand 7763' MD)
6032' = 7/8" Nipple (ID=2.313")

I Sand
Perfs:
8,150' - 8,232' MD (6,278'-6,339' TVD)

8,240' = Comp-Perm II Packer

8277' = P80D
6394' = 7.0' 23.0#, N80
A-24 P&A Scenario option 1:
Cut and pull completion above Comp-Set II HP Packer @ 7580 ft MD.
Retrieve Comp-Set II HP Packer:
Cut tubing above lower-most packer.
Release from Comp-Set II HP Packer @ 8033 ft MD.
Pull packer and tubing.
Retrieve deepest Comp-Set II HP Packer @ 8240 ft MD.
Assumptions: See embedded Notes.

**Plug 2**

- 30" shoe: 308
- Top of Plug: 699
- Bottom of Plug: 849
- Bridge Plug: 849
- 7" x 10-3/4" cut point: 899

**TOC (annulus) 549**

- 30" shoe: 308

**Plug 1**

- Cement above: 8050
- Bridge Plug: 8100
- I Sand Top: 8150
- I Sand Base: 8232

**HBT/TOF 8277**

- 2" shoe: 8364
- TD: 8375 6445

**Testing/Verification Requirements**

**Plug 2**

- BSEE: 250.1715(a)(8) A well with casing:
  - A cement surface plug at least 150 feet long with the bottom of the plug set no more than 100 feet above the stub end.

**Plug 1**

- BSEE: 250.1715(a)(1) A well with casing:
  - A perforated zone that is currently open and not previously squeezed or isolated
  - (i) If perforated zones are isolated from the hole below you may use plugs specified
  - (ii) A bridge plug set 50 to 100 ft above the top of the perforated interval and at least 50 ft of cement on top of the bridge plug

**Wellbore to seafloor**

- Allow for sufficient WOC, tag-up with agreed upon weight.

- All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)

**Leak Path Addressed**

- 50" x 30-1/2" x 10-3/4" x 7-5/8" Sever

- Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 10 feet below the mud line.

- BSEE: 250.1715(a)(4) A casing stub where the stub end is within the casing:
  - A cement plug at least 200 feet long with the bottom of the plug set no more than 150 feet above the mud line.

**Leak Path Addressed**

- 30" x 16" x 10-3/4" x 7-5/8" Sever

- BSEE: 250.1715(a)(11) Two independent barriers, one must be mechanical barrier, in the center of the wellbore as described in 250.420(b)(3)

**Packer must be designed to API Spec 11D1**

- Pressure test.
A-24 Y&A Scenario option 2:

Squeeze I Sand perforations. Install tubing plug in X landing nipple @ 8032 ft MD just above Comp-set II HP production packer.

Cut and pull tubing above Comp-set II HP packer @ ~7589 ft MD

Retrieve Comp-set II HP packer and pull tubing attached.

Requirements:

- BSSE
- Leak Path Addressed
- Testing/Verification Requirements

Assumptions:
- See embedded Notes

**Testing/Verification Requirements**

<table>
<thead>
<tr>
<th>Test</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>N/A</td>
<td>To what depth must I remove wellheads and casings? Unless the District Manager approves an otherwise depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.</td>
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<tr>
<td>7&quot; Welfare</td>
<td>Plug (1) MC-250.1715(a) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.</td>
</tr>
<tr>
<td>7&quot; x 10-3/4&quot; annulus (B annulus)</td>
<td>Plug (2) MC-250.1715(a)(6) An annular space that communicates with open hole and extends to the mudline: A cement plug at least 200 ft long set in the annular space.</td>
</tr>
</tbody>
</table>

**Assumptions:**

- See embedded Notes

---

**MC 20 Well A 024 Option 2**

<table>
<thead>
<tr>
<th>Depth (MD)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>8130</td>
<td>Land tubing plug in X landing nipple just above production packer: 1-3/4&quot; tubing &amp; 8-1/2&quot; gauge screen.</td>
</tr>
<tr>
<td>8310</td>
<td>PBTD/TOF 8277</td>
</tr>
<tr>
<td>8132</td>
<td>Land perf through 2-7/8&quot; tubing: Allow for sufficient WOC time. Pressure test.</td>
</tr>
</tbody>
</table>
A-24 P&A Scenario option 3:

- Squeeze I-sand perforations
- Install tubing plug in X landing nipple @ 8032 ft MD just above Comp-set II HP production packer
- Cut and pull tubing above Comp-set II HP packer @ ~7589 ft MD
- Retrieve Comp-set II HP packer and pull tubing attached

Assumptions: See embedded Notes

This option does not address 250.420.b(3). For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These barriers cannot be modified prior to or during completion or workover.

<table>
<thead>
<tr>
<th>Requirement: BSSE</th>
<th>Leak Path Addressed</th>
<th>Testing/Verification Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>DTC</td>
<td>470</td>
<td>564</td>
</tr>
<tr>
<td>Top of Plug</td>
<td>699</td>
<td>689</td>
</tr>
<tr>
<td>B-annulus</td>
<td>760</td>
<td></td>
</tr>
<tr>
<td>TDC (annulus)</td>
<td>548</td>
<td></td>
</tr>
<tr>
<td>16” shoe</td>
<td>1623</td>
<td></td>
</tr>
<tr>
<td>TDC (annulus)</td>
<td>1683</td>
<td></td>
</tr>
<tr>
<td>10-3/4” shoe</td>
<td>4183</td>
<td></td>
</tr>
<tr>
<td>TDC (annulus)</td>
<td>760</td>
<td></td>
</tr>
<tr>
<td>Tubing Plug</td>
<td>8032</td>
<td></td>
</tr>
<tr>
<td>Production packer</td>
<td>8033</td>
<td></td>
</tr>
<tr>
<td>Top of screen</td>
<td>6349</td>
<td></td>
</tr>
<tr>
<td>Sand Top Perf</td>
<td>8150</td>
<td>6279</td>
</tr>
<tr>
<td>Sand Base Perf</td>
<td>8123</td>
<td>6339</td>
</tr>
<tr>
<td>Comp-Perm II packer</td>
<td>8240</td>
<td></td>
</tr>
<tr>
<td>PIB/TDF</td>
<td>8277</td>
<td></td>
</tr>
<tr>
<td>TD</td>
<td>8375</td>
<td>6940</td>
</tr>
</tbody>
</table>
Taylor Energy Company  
Mississippi Canyon Block 21  
OCS-G 15459, Well A-25  

As Completed  
12/27/00

Casing:
30.0", .75" x 1.5" wall @ 903'  
16", 75#, N-80 B/T&C @ 1,025'  
10.75", 45.5#, K-55 B/T&C @ 4,483'  
7.0", 26.0#, HCP-110 @ 11,649'

Tubing:
2-7/8", 6.5#, L-80 @ 11,468'  
Internally coated tubing and accessories  
10.3 ppg CaCl2 Completion Fluid

+68.94' = Elevation  
479' = Water Depth

GLM's:
9 = 10,924' MD, 7,201' TVD Live  
8 = 10,893' MD, 6,707' TVD Live  
7 = 9,171' MD, 8,120' TVD Live  
6 = 8,314' MD, 5,665' TVD Live  
5 = 7,017' MD, 4,813' TVD Live  
4 = 6,543' MD, 4,628' TVD Live  
3 = 5,992' MD, 4,071' TVD Live  
2 = 4,869' MD, 3,694' TVD Live  
1 = 2,287' MD, 2,190' TVD Live

11,468' = Quantum Packer  
11,505' = Large bore Flapper Valve

8 Gauge Screen (11,672' - 11,707')

11,708' = Sump Packer

"L" Sand  
Perfs:  
11,590' - 11,702' MD [7,599' - 7,676' TVD]  
12 SPF

11,713' = EOT  
11,755' = PBT'D  
11.845' = 7", 26#, HCP-110

Present Condition  
W.T. Fosom - 1/19/01

TD = 11,845' MD / 7,768' TVD
A-25 P&A Scenario option 1:
Cut and pull tubing Quantum Packer @ 11488 ft MD.
Retrieve Quantum Packer.
Cut tubing above sump packer @ 11708 ft MD.
Drill out sump packer if necessary.
Assumptions: See embedded Notes

### Requirement: BSSE

**Leak Path Addressed**

**Testing/Verification Requirements**

<table>
<thead>
<tr>
<th>MD</th>
<th>TVD</th>
</tr>
</thead>
<tbody>
<tr>
<td>479</td>
<td></td>
</tr>
<tr>
<td>70</td>
<td></td>
</tr>
<tr>
<td>549</td>
<td></td>
</tr>
<tr>
<td>564</td>
<td></td>
</tr>
<tr>
<td>50'' shoe</td>
<td>906</td>
</tr>
<tr>
<td>Top of Plug</td>
<td>899</td>
</tr>
<tr>
<td>Bottom of Plug</td>
<td>849</td>
</tr>
<tr>
<td>Bridge Plug</td>
<td>849</td>
</tr>
<tr>
<td>7'' x 10-3/4'' cut point</td>
<td>899</td>
</tr>
<tr>
<td>Top of annulus</td>
<td>549</td>
</tr>
<tr>
<td>16'' shoe</td>
<td>1625</td>
</tr>
<tr>
<td>Top of annulus</td>
<td>1981</td>
</tr>
<tr>
<td>10-3/4'' shoe</td>
<td>4481</td>
</tr>
<tr>
<td>Top of annulus</td>
<td>11080</td>
</tr>
</tbody>
</table>

- **Plug 1**
  - Cement above: 11480 ft MD
  - Bridge Plug: 11530 ft MD
  - L Sand Top: 11580 ft MD
  - L Sand Base: 11702 ft MD
  - PBTD/TOF: 11705 ft MD

- **Plug 2**
  - Top of Plug: 899 ft MD
  - Bottom of Plug: 849 ft MD
  - Bridge Plug: 849 ft MD
  - 7'' x 10-3/4'' cut point: 899 ft MD

**TOC (annulus)**

<table>
<thead>
<tr>
<th>MD</th>
<th>TVD</th>
</tr>
</thead>
<tbody>
<tr>
<td>549</td>
<td></td>
</tr>
<tr>
<td>1625</td>
<td></td>
</tr>
<tr>
<td>1981</td>
<td></td>
</tr>
<tr>
<td>4481</td>
<td></td>
</tr>
<tr>
<td>11080</td>
<td></td>
</tr>
</tbody>
</table>

### Plug 2 is a combination barrier for:

- **250.1715(a)(1)** A well with casing
- **250.1715(a)(4)** A casing stub where the stub end is within the casing

---

**Flag (2)**

- **BSSE: 250.1715(a)(8)** A well with casing:
  - A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.
  - Allows for sufficient WOC, tag up with agreed upon weight.
  - Pressure test.
  - All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)

**Flag (2)**

- **BSSE: 250.1715(a)(4)** A casing stub where the stub end is within the casing:
  - A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.
  - Allows for sufficient WOC, tag up with agreed upon weight.
  - Pressure test.
  - All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)

**Flag (2)**

- **Bridge Plug**
  - Bridge Plug installed below cement plug:
  - Must be mechanical barrier, in the center of the wellbore as described in 250.420(b)(3)
  - Allows for sufficient WOC, tag up with agreed upon weight.
  - Pressure test.

---

**Flag (3)**

- **BSSE: 250.1715(a)(11)** Two independent barriers, one must be mechanical barrier, in the center of the wellbore as described in 250.420(b)(3)

---

**Assumptions:** See embedded Notes.
A-25 P&A Scenario option 2:
Squeeze L-sand perfs.
Install tubing plug in X landing nipple @ 11444 ft MD, 40 ft above packer.
Cut and pull tubing @ 100 ft above tubing plug.
Assumptions: See embedded Notes.

<table>
<thead>
<tr>
<th>MD</th>
<th>TVD</th>
<th>Requirement: BSEE</th>
<th>Leak Path Addressed</th>
<th>Testing/Verification Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>470</td>
<td>470</td>
<td>25.1716(a) How much depth must I remove wellheads and casings?</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>70</td>
<td>70</td>
<td>Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mudline.</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>549</td>
<td>549</td>
<td>Cut point 16&quot;x10&quot;x10 3/4&quot;x7&quot;</td>
<td>564</td>
<td>N/A</td>
</tr>
<tr>
<td>30&quot; shoe</td>
<td>30&quot; shoe</td>
<td>560</td>
<td>699</td>
<td>7&quot; Wellbore</td>
</tr>
<tr>
<td>Top of Plug</td>
<td>Bottom of Plug</td>
<td>699</td>
<td>849</td>
<td>Center Wellbore</td>
</tr>
<tr>
<td>Bridge Plug</td>
<td>Bridge Plug installed below cement plug</td>
<td>849</td>
<td>1589</td>
<td>Packer must be designed to API Spec 11D1</td>
</tr>
<tr>
<td>TOC (annulus) 16&quot;x10&quot;</td>
<td>TOC (annulus) 10 3/4&quot;x7&quot;</td>
<td>549</td>
<td>483</td>
<td>Pressure test</td>
</tr>
<tr>
<td>13580</td>
<td>13580</td>
<td>7 1/8&quot; tubing cut point</td>
<td>11144</td>
<td>Allow for sufficient WOC</td>
</tr>
<tr>
<td>11444</td>
<td>11444</td>
<td>Tubing Plug</td>
<td>11444</td>
<td>Plug (1)</td>
</tr>
<tr>
<td>X Landing Nipple</td>
<td>X Landing Nipple</td>
<td>11444</td>
<td>11448</td>
<td>Land tubing plug in X landing nipple, just above production packer. 120 ft above 8&quot; gauge screen</td>
</tr>
<tr>
<td>Production packer</td>
<td>Production packer</td>
<td>11448</td>
<td>11572</td>
<td>L-sand perfs through 2 7/8&quot; tubing</td>
</tr>
<tr>
<td>Top of screen</td>
<td>Top of screen</td>
<td>11572</td>
<td>11580</td>
<td>Squeeze cement through L-sand perforations.</td>
</tr>
<tr>
<td>11580</td>
<td>7538</td>
<td>L Sand Top Perf</td>
<td>11702</td>
<td>Isolation of L Sand Perfs</td>
</tr>
<tr>
<td>7538</td>
<td>7675</td>
<td>L Sand Base Perf</td>
<td>11702</td>
<td>Allow for sufficient WOC time.</td>
</tr>
<tr>
<td>11708</td>
<td>11708</td>
<td>Lamp Packer</td>
<td>11708</td>
<td>Pressure test.</td>
</tr>
<tr>
<td>11753</td>
<td>11845</td>
<td>PBTD/TOF</td>
<td>11753</td>
<td>Allow for sufficient WOC time.</td>
</tr>
<tr>
<td>&quot;shear/TOF&quot;</td>
<td>P&amp;A</td>
<td>11845</td>
<td>11845</td>
<td></td>
</tr>
</tbody>
</table>
Assumptions: See embedded Notes.
**Taylor Energy Company**

Mississippi Canyon Block 21
OCS-G 15459, Well A-26

---

**Casing:**
- 30-3/16" x 1.5" wall @ 908'
- 10" 75#, N-80 BT&C @ 1,624'
- 10.75", 45.5#, K-55 BT&C @ 4,390'
- 7", 26.0#, HCP-110 @ 12,494'

**Tubing:**
- 2-7/8" 6.5#, L-80 @ 11,950'
- Internally coated tubing and accessories
- 10.3 ppg CaC2 Completion Fluid

---

+33.74' = Elevation
+479' = Water Depth

---

**Note:** Spotted a 200' cement plug in 16" x 30" annulus from 710 to 512' with 427 sacks Class H cement (wt = 14.8#, Yield = 1.42)

---

**GLM's:**
1. 11,654' MD, 7,282' TVD, Live
2. 10,792' MD, 7,439' TVD, Live
3. 10,043' MD, 5,917' TVD, Live
4. 9,372' MD, 6,406' TVD, Live
5. 8,499' MD, 5,905' TVD, Live
6. 7,651' MD, 5,396' TVD, Live
7. 6,750' MD, 4,890' TVD, Live
8. 5,721' MD, 4,276' TVD, Live
9. 4,324' MD, 3,503' TVD, Live
10. 2,284' MD, 2,108' TVD, Live

---

11,950' = Hydrow 1 Packer

---

**Note:** Re-completed to ‘M-1’ Sand 2/20/01

Bridge Plug set @ 12,180' MD with 20 Class H Cement dump bailed on top TCC @ 12,160' MD

---

**Present Condition**

W.T. Folsom - 3/5/01

---

12,363' = PBD
12,484' = 7", 26#, HCP-110

TD = 12,494' MD / 8,536' TVD
A-26 P&A Scenario option 1:

As built indicates there is no completion across M-1 sand perfs. EOT is @ ~ 11970 ft MD.

Pull tubing.

Retreive Hydrow 1 packer.

Drill out cement and bridge plug @ 12180 ft MD.

Assumptions: See embedded Notes

---

**Requirement:** BSSE

**Leak Path Addressed:**

**Testing/Verification Requirements**

---

**Plug (3)**

**GSE:** 250.1715(a)(8) A well with casing:

A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.

**N/A**

**Plug (3)**

Cut and pull 7-5/8" & 10-3/4"

**GSE:** 250.1715(a)(4) A casing stub where the stub end is within the casing

A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.

---

**Plug (2)**

**GSE:** 250.1715(a)(3) A perforated zone that is currently open and not previously squeezed or isolated

(iii) If perforated zones are isolated from the hole below, you may use plugs specified

(B) A bridge plug set 50 to 100 ft above the top of the perforated interval and at least 50 feet of cement on top of the bridge plug

---

**Plug (1)**

**GSE:** 250.1715(a)(3) A perforated zone that is currently open and not previously squeezed or isolated

(iii) If perforated zones are isolated from the hole below, you may use plugs specified

(B) A bridge plug set 50 to 100 ft above the top of the perforated interval and at least 50 feet of cement on top of the bridge plug

---

**Plug (2)**

**GSE:** 250.1715(a)(5) A perforated zone that is currently open and not previously squeezed or isolated

If perforated zones are isolated from the hole below, you may use plugs specified

(A) A bridge plug set 50 to 100 ft above the top of the perforated interval and at least 30 feet of cement on top of the bridge plug

---

**Plug (3)**

**GSE:** 250.1715(a)(5) A perforated zone that is currently open and not previously squeezed or isolated

If perforated zones are isolated from the hole below, you may use plugs specified

(A) A bridge plug set 50 to 100 ft above the top of the perforated interval and at least 30 feet of cement on top of the bridge plug
As built indicates there is no completion across M-1 sand perfs. EOT is @ 11970 ft MD.
Cut 2-7/8” tubing above Hydrow 1 Packer @ 11950 ft MD.
Pull tubing.
Retrieve Hydrow 1 Packer.
Assumptions: See embedded Notes

<table>
<thead>
<tr>
<th>MD</th>
<th>TVD</th>
<th>Requirement: BSSE</th>
<th>Leak Path Addressed</th>
<th>Testing/Verification Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>WDD</td>
<td>479</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RKB</td>
<td>80</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>RKB to ML</td>
<td>546</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cut point</td>
<td>30”x16”x10”</td>
<td>1/2”x3/4”</td>
<td>563</td>
<td></td>
</tr>
<tr>
<td>30” shoe</td>
<td>308</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Top of plug</td>
<td>688</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Bottom of plug</td>
<td>848</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Bridge Plug</td>
<td>848</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TOC (annulus)</td>
<td>548</td>
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<tr>
<td>16” shoe</td>
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<td></td>
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</tr>
<tr>
<td>TOC (annulus)</td>
<td>3840</td>
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<td></td>
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</tr>
<tr>
<td>10-3/4” shoe</td>
<td>4340</td>
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</tr>
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<td>TOC (annulus)</td>
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<tr>
<td>TDC (wellbore)</td>
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<tr>
<td>Bridge Plug</td>
<td>12022</td>
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<tr>
<td>M-1 Sand Top Perf</td>
<td>12072</td>
<td>8310</td>
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<tr>
<td>M-1 Sand Base Perf</td>
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<td>8317</td>
<td></td>
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<tr>
<td>Cement above</td>
<td>12160</td>
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<td></td>
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<tr>
<td>Bridge Plug</td>
<td>12180</td>
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<td></td>
</tr>
<tr>
<td>N Sand Top</td>
<td>12290</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>N Sand Base</td>
<td>12278</td>
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<tr>
<td>PBTD/TOF</td>
<td>12383</td>
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</tr>
<tr>
<td>7” shoe/TD</td>
<td>12494</td>
<td>8381</td>
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<td></td>
</tr>
</tbody>
</table>

250.1716(a) To what depth must I remove wellheads and casings?
Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.

Plug 1
250.1716(a)(6) An annular space that communicates with open hole and extends to the mudline:
A cement plug at least 200 ft long set in the annular space.

Plug 2
250.1716(a)(8) A well with casing:
A cement surface plug at least 150 feet long set in the smallest casing that extends to the mudline with the top of the plug no more than 150 feet below the mudline.

Plug 3
250.1716(a)(11) Two independent barriers, one must be mechanical barrier, in the center of the wellbore as described in 250.420(b)(3)

A-26 As Built well schematic indicates:
20ft of cement pumped on top of bridge plug.
A-26 P&A Scenario option 2:
As built indicates there is no completion across M-1 sand perfs. EOT is ~11970 ft MD. Cut 2-7/8" tubing above Hydrow 1 packer @ 11950 ft MD. Pull tubing. Retrieve Hydrow 1 packer.
Assumptions: See embedded Notes.

---

**Plug 1**
- **TOC (wellbore)**: 11972 ft
- **Bridge Plug**: 12022 ft
- **M-1 Sand Top Perf**: 12072 ft, B310 ft
- **M-1 Sand Base Perf**: 12084 ft, B327 ft
- **Cement above**: 12160 ft
- **Bridge Plug**: 12180 ft
- **% Sand Top**: 12194 ft
- **% Sand Base**: 12278 ft
- **PFO/TOF**: 12180 ft, B505 ft

**Plug 2**
- **TOC (annulus)**: 11572 ft
- **10-3/4" shoe**: 11240 ft
- **TOC (annulus)**: 3840 ft
- **10-3/4" shoe**: 11460 ft

**Plug 3**
- **30" shoe**: 108 ft
- **Top of plug**: 698 ft
- **Bottom of plug**: 848 ft
- **Bridge Plug**: 848 ft
- **7" x 10-3/4" cut point**: 898 ft

**Requirement: BSEE**

<table>
<thead>
<tr>
<th>Transformation</th>
<th>MD</th>
<th>TVD</th>
</tr>
</thead>
</table>
| 250.1716 .(a) | To what depth must I remove wellheads and casings?  
(1) To what depth must I remove wellheads and casings?  
(1) Unless the District Manager approves an alternate depth  
(1) under paragraph (b) of this section, you must remove all  
(1) wellheads and casings to at least 15 feet below the mud  
(1) line. | N/A | N/A |
| **Plug 1** |  |  |
| 250.1716 .(a)(3) | A perforated zone that is currently open and not previously squeezed or isolated  
(i) If perforated zones are isolated from the hole below,  
(i) you may use plugs specified  
(ii) A bridge plug set 50 to 100 ft above the top of the  
(ii) perforated interval and at least 50 ft of cement on top of the  
(ii) bridge plug  
Isolation of perforations | Allow for sufficient WOC, tag up with agreed upon weight. Pressure test.  
All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)  
Packer must be designed to API Spec 11D1 |  |
| 250.1716 .(a)(5)(A) | A casing zone that is currently open and not previously squeezed or isolated  
(i) If perforated zones are isolated from the hole below,  
(i) you may use plugs specified  
(ii) A bridge plug set 50 to 100 ft above the top of the  
(ii) perforated interval and at least 50 ft of cement on top of the  
(ii) bridge plug  
Isolation of perforations | Allow for sufficient WOC, tag up with agreed upon weight. Pressure test.  
All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)  
Packer must be designed to API Spec 11D1 |  |
| 250.1716 .(a)(6) | A casing zone that communicates with open hole and extends to the  
(i) The casing plug must be at least 300 ft long  
(i) and  
10-3/4" x 16" annulus (C) annulus  
7" x 10-3/4" annulus (B) annulus | Allow for sufficient WOC, tag up with agreed upon weight. Pressure test.  
All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)  
Packer must be designed to API Spec 11D1 |  |
| **Plug 1** |  |  |
| 250.1716 .(a)(8) | A well with casing:  
A cement surface plug at least 150 feet long set in the  
smallest casing that extends to the mudline with the top of  
the plug no more than 150 feet below the mudline.  
BSEE: 250.1715(a)(8) |  |  |
| **Plug 2** |  |  |
| 250.1716 .(a)(11) | Two independent barriers, one must  
be mechanical barrier, in the center of the wellbore as  
described in 250.420.c.(1)  
Isolation of perforations | Allow for sufficient WOC, tag up with agreed upon weight. Pressure test.  
All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)  
Packer must be designed to API Spec 11D1 |  |
| **Plug 3** |  |  |
| 250.1716 .(a)(12) | Two independent barriers, one must  
be mechanical barrier, in the center of the wellbore as  
described in 250.420.c.(1)  
Isolation of perforations | Allow for sufficient WOC, tag up with agreed upon weight. Pressure test.  
All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)  
Packer must be designed to API Spec 11D1 |  |

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**Testing/Verification Requirements**
Taylor Energy Company
Mississippi Canyon Block 21
OCS-G 15459, Well A-27 ST

Present Condition
P&A

153 ft Balanced plug set
875 - 725 ft MD (115 - 258 ft BML)
842" = 30" x 1.0" x 1.5" wall
1,883" = 16", 75#, K-55

4,224' = Calculated TOC
4,317' = Cement Retainer
w/ 20c sxc cement squeezed below
8.50 sxc cement above
4,392" = 10.75", 45.5#, K-55 B&C

4,695' = Calculated bottom of cement

TD = 13,170 MD, 5,021' TVD

Hydrocarbon bearing zone
@ 10,067 - 10,098'

Hydrocarbon bearing zones
@ 12,066 - 12,032'
& 11,978 - 11,984'

Hydrocarbon bearing zone
@ 12,953 - 12,783'
& 12,670 - 12,688'

Present Condition
W.T. Fossum - 010611

Note:
Top of cement in 30" x 16" annulus
@ 479' MD following top out job
Cement to surface in 16" x 10-3/4" annulus

Casing:
30.0", 1.0" x 1.5" wall X-56 @ 942'
18", 75#, K-55 B&C @ 1,853'
10.75", 45.5#, K-55 B&C @ 4,352'

+93.0' = Elevation
478' = Water Depth
128' = RKB
<table>
<thead>
<tr>
<th>Requirement</th>
<th>Addressed via</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>250.1715 How must I permanently plug a well?</td>
<td></td>
<td></td>
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<tr>
<td>(a)(2) Open hole below casing: You must...</td>
<td>Cement retainer set in 10-3/4&quot; casing @ 4317 ft MD</td>
<td></td>
</tr>
<tr>
<td>(iii) A bridge plug set 50 feet to 100 feet above the shoe with 50 feet of cement on top of the bridge plug, for expected or known lost circulation conditions</td>
<td>~93ft of cement pumped on top of bridge plug (see schematic for additional 4 balanced cement plugs set below the retainer)</td>
<td></td>
</tr>
<tr>
<td>(8) A well with casing: You must...</td>
<td>150 ft balanced cement plug pumped in 10-3/4&quot; casing (smallest casing string) @ ~118 ft to 268 ft BML</td>
<td></td>
</tr>
<tr>
<td>(11) Two independent barriers, one must be mechanical barrier, in the center of the wellbore as described in 250.420(b)(3)</td>
<td>Retainer (bridge plug) set @ 4317 ft MD with 50sks of cement pumped aboveabove</td>
<td></td>
</tr>
</tbody>
</table>
| 250.1716.a. [a] Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line. | This requirement has not been addressed | *According to A-27 As Built schematic, and operational steps, the casings were not removed.
Taylor Energy Company
South Pass Block 73
OCS-G 15371 Well A-28

As Completed
6/22/01

Casing:
33" x 50' x 18" Wall @ 911'
18" x 75' K-55 @ 1028'
13-3/4" x 45' K-55 @ 5,993'
7-5/8" x 33' #8 110 @ 14,320'

Tubing:
3-7/8" x 9,546', P-110 @ 12,900'
Internally coated tubing and accessories

-69' = Elevation
-47' = Water Depth
-128' = RKB

785' = SCSSSV
911' = 30' 525 X 1.0' Wall
1628' = 16' 75' K-55

3,006' = Y Nipple (ID=2.313')
5,993' = 10-3/4" 45.5 K-55

GLM's:
6= 2,300' MD 2,203' TVD - Live
5= 6,121' MD 3,498' TVD - Live
4= 8,208' MD 4,252' TVD - Live
3= 9,808' MD 4,753' TVD - Live
2= 11,344' MD 5,247' TVD - Live
1= 12,934' MD 5,749' TVD - Live

12,954' = Y Nipple (ID=2.313')

Future Completion
F Sand
13,059' MD 5,853' TVD

13,812' = Y Nipple (ID=2.313')

L-3 Sand
Proposed Perfs:
13,924' - 13,943' MD 6,397' - 6,412' TVD
21 SPF

14,229' PBTD

Present Condition
W.T. Folsom - 619713

TD = 14,320' MD 6,702' TVD
**A-28 P&A Scenario option 1:**
Cut 2-7/8” tubing above Quantum Packer @ 12900 ft MD.
Pull tubing.
Retrieve Quantum packer @ 12900 ft MD.
Retrieve Quantum packer @ 13797 ft MD.
Cut fishing above sump packer @ 13948 ft MD.
Drill out sump packer.

**Assumptions:** See embedded Notes

<table>
<thead>
<tr>
<th>MD</th>
<th>TVD</th>
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<tr>
<td>Requirement: BSSE</td>
<td>Leak Path Addressed</td>
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<td>Testing/Verification Requirements</td>
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<tr>
<th>WD</th>
<th>479</th>
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</thead>
<tbody>
<tr>
<td>TVD</td>
<td>1384</td>
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</table>

**Plug 2**

- **Plug 2 IS A COMBINATION BARRIER FOR:**
  - 250.1715.a.(8) A well with casing:
    - A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.
- **Plug 2**
  - **BSEE: 250.1715.a(3)** A perforated zone that is currently open and not previously squeezed or isolated (iii) If perforated zones are isolated from the hole below, you may use plugs specified
  - **Bridge Plug**
    - 7” x 10-3/4” cut point

**Plug 1**

- **Plug 1 IS A COMBINATION BARRIER FOR:**
  - 250.1715.a(8) A well with casing:
  - 250.1715.a(4) A casing stub where the stub end is within the casing
- **Cement above**
  - 1384 ft
- **Bridge Plug**
  - 13874 ft
- **L-3 Sand Top**
  - 13824 ft
- **L-3 Sand Base**
  - 13943 ft

**PBTD/TOF**

- 14129 ft
- 7-5/8” shoe
- TD 14125 ft
A-28 P&A Scenario option 2:

- Squeeze L-3 sand perfs.
- Install tubing plug in X landing nipple @ 13812 ft MD, 15 ft below packer.
- Cut and pull tubing above Quantum packer @ 12900 ft MD.
- Retrieve Quantum packer.

Assumptions: See embedded Notes

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**Testing/Verification Requirements**

<table>
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<tr>
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</thead>
<tbody>
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<td>BSSE</td>
<td></td>
</tr>
</tbody>
</table>

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**Cut point**

- 90° shoe: 511
- Top of Plug: 767
- Bottom of Plug: 607
- Bridge Plug: 607

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**Plug 1**

- Land tubing plug in X landing nipple, just above production packer, 106' ft above 8" gauge screen
- L-3 sand perfs through 2-7/8" tubing

---

**Plug 2**

- Perforate 7" casing, squeeze cement to B annulus

---

**Plug 3**

- A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.
## A-28 P&A Scenario option 3:
Squeeze L-3 sand perforations.
Install tubing plug in X-landing nipple @ 12900 ft MD, 15 ft below packer.
Cut and pull tubing above Quantum packer @ 12900 ft MD.
Retrieve Quantum packer.

### Assumptions: See embedded Notes

<table>
<thead>
<tr>
<th>MD</th>
<th>TVD</th>
<th>Requirement: BSSE</th>
<th>Leak Path Addressed</th>
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<tr>
<td>WD</td>
<td>479</td>
<td>30&quot;x16&quot;x10-3/4&quot;x7&quot;</td>
<td>Sever</td>
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<tr>
<td>XBD</td>
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<td>XBD to 10-3/4&quot;</td>
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<td>Cut point</td>
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<td>10-3/4&quot;x10-3/4&quot;</td>
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<td>10-3/4&quot; shoe</td>
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<tr>
<td>Bottom of plug</td>
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<tr>
<td>Bridge Plug</td>
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<tr>
<td>7&quot; x 10-3/4&quot; cut</td>
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<td>TDC (annulus)</td>
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<td>10-3/4&quot; shoe</td>
<td>1628</td>
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<tr>
<td>16&quot; shoe</td>
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<td>TDC (annulus)</td>
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<tr>
<td>13812</td>
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<tr>
<td>X-landing Nipple</td>
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<td>Production packer</td>
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<td>Top of screen</td>
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<td>L-3 Land Top Hft.</td>
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<tr>
<td>L-3 Land Base Hft.</td>
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<td>Jump packer</td>
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<tr>
<td>TD</td>
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</table>

**250.1715(a)(4)** A casing stub where the stub end is within the casing:
- A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.

**250.1715(a)(6)** An annular space that communicates with open hole and extends to the mudline:
- A cement plug at least 200 ft long set in the annular space.

**250.1715(a)(8)** A well with casing:
- A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.

**250.1715(a)(11)** Two independent barriers, one must be mechanical barrier, in the center of the wellbore as described in 250.420(b)(3):
- Two independent barriers, one must be mechanical barrier, in the center of the wellbore as described in 250.420(b)(3).