


**SILVERBACK**  
EXPLORATION

## Project Completion Checklist – Silverback Form 001

### Volume Justification

This form is to be used to convey justification of spill volumes in the event of a release. Clearly indicate by calculations or description in the space provided below.

**Justification:**

| Soil Type          | Porosity    | Length    | Width     | Depth<br>(.083 per inch) | Cubic<br>Feet | Estimated<br>Barrels | Soil Type          |
|--------------------|-------------|-----------|-----------|--------------------------|---------------|----------------------|--------------------|
| Clay               | 0.15        | 10        | 10        | 0.083                    | 8.3           | 0.22                 | Clay               |
| Peat               | 0.40        | 10        | 10        | 0.083                    | 8.3           | 0.59                 | Peat               |
| Glacial Sediments  | 0.13        | 10        | 10        | 0.083                    | 8.3           | 0.19                 | Glacial Sediments  |
| Sandy Clay         | 0.12        | 10        | 10        | 0.083                    | 8.3           | 0.18                 | Sandy Clay         |
| Silt               | 0.16        | 10        | 10        | 0.083                    | 8.3           | 0.24                 | Silt               |
| Loess              | 0.25        | 10        | 10        | 0.083                    | 8.3           | 0.37                 | Loess              |
| Fine Sand          | 0.16        | 10        | 10        | 0.083                    | 8.3           | 0.24                 | Fine Sand          |
| <b>Medium Sand</b> | <b>0.25</b> | <b>90</b> | <b>90</b> | <b>0.0417</b>            | <b>337.77</b> | <b>15.05</b>         | <b>Medium Sand</b> |
| Coarse Sand        | 0.26        | 10        | 10        | 0.083                    | 8.3           | 0.38                 | Coarse Sand        |
| Gravelly Sand      | 0.26        | 10        | 10        | 0.083                    | 8.3           | 0.38                 | Gravelly Sand      |
| Fine Gravel        | 0.26        | 10        | 10        | 0.083                    | 8.3           | 0.38                 | Fine Gravel        |
| Medium Gravel      | 0.20        | 10        | 10        | 0.083                    | 8.3           | 0.30                 | Medium Gravel      |
| Coarse Gravel      | 0.18        | 10        | 10        | 0.083                    | 8.3           | 0.27                 | Coarse Gravel      |
| Sandstone          | 0.25        | 10        | 10        | 0.083                    | 8.3           | 0.37                 | Sandstone          |
| Siltstone          | 0.18        | 10        | 10        | 0.083                    | 8.3           | 0.27                 | Siltstone          |
| Shale              | 0.05        | 10        | 10        | 0.083                    | 8.3           | 0.07                 | Shale              |
| Limestone          | 0.13        | 10        | 10        | 0.083                    | 8.3           | 0.19                 | Limestone          |
| Basalt             | 0.19        | 10        | 10        | 0.083                    | 8.3           | 0.28                 | Basalt             |
| Volcanic Tuff      | 0.20        | 10        | 10        | 0.083                    | 8.3           | 0.30                 | Volcanic Tuff      |
| Standing Liquids   | X           | 10        | 10        | 0.083                    | 8.3           | 1.48                 | Standing Liquids   |

|       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|
| 1     | 2     | 3     | 4     | 5     | 6     |
| 0.083 | 0.166 | 0.250 | 0.332 | 0.415 | 0.500 |
| 7     | 8     | 9     | 10    | 11    | 12    |
| 0.581 | 0.664 | 0.750 | 0.830 | 0.913 | 1.000 |

**NOTE:** This is an **estimate** tool designed for quick field estimates of whether a C-141 should be required (i.e. a release is estimated to be greater than or less than 5 barrel volumes)

Choose the one prevailing ground type for estimating spill volumes at a single location.

Note that the depth should be measured in feet and tenths of feet (1 inch = .083)

Cubic Feet = L x W x D  
Estimated Barrels = ((Cubic Feet x Porosity) / 5.61)

**(337.77cuft X 0.25porosity) / 5.61 = 15.05 Barrels**

**Approved by:** Fernando Rodriguez

**Date:** 7/10/2024

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
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**District II**  
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**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
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**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico  
Energy, Minerals and Natural Resources  
Oil Conservation Division  
1220 S. St Francis Dr.  
Santa Fe, NM 87505

QUESTIONS  
  
Action 363212

QUESTIONS

|                                                                                                  |                                                         |
|--------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| Operator:<br>Silverback Operating II, LLC<br>19707 IH10 West, Suite 201<br>San Antonio, TX 78256 | OGRID:<br>330968                                        |
|                                                                                                  | Action Number:<br>363212                                |
|                                                                                                  | Action Type:<br>[C-141] Initial C-141 (C-141-v-Initial) |

QUESTIONS

|                  |                                           |
|------------------|-------------------------------------------|
| Prerequisites    |                                           |
| Incident ID (n#) | nAPP2417953983                            |
| Incident Name    | NAPP2417953983 SCRIPPS WATER TRANSFER @ 0 |
| Incident Type    | Produced Water Release                    |
| Incident Status  | Initial C-141 Received                    |

Location of Release Source

Please answer all the questions in this group.

|                         |                        |
|-------------------------|------------------------|
| Site Name               | Scripps Water Transfer |
| Date Release Discovered | 06/25/2024             |
| Surface Owner           | Private                |

Incident Details

Please answer all the questions in this group.

|                                                                                                      |                        |
|------------------------------------------------------------------------------------------------------|------------------------|
| Incident Type                                                                                        | Produced Water Release |
| Did this release result in a fire or is the result of a fire                                         | No                     |
| Did this release result in any injuries                                                              | No                     |
| Has this release reached or does it have a reasonable probability of reaching a watercourse          | No                     |
| Has this release endangered or does it have a reasonable probability of endangering public health    | No                     |
| Has this release substantially damaged or will it substantially damage property or the environment   | No                     |
| Is this release of a volume that is or may with reasonable probability be detrimental to fresh water | No                     |

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

|                                                                                                                                                      |                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| Crude Oil Released (bbls) Details                                                                                                                    | Not answered.                                                                                                    |
| Produced Water Released (bbls) Details                                                                                                               | Cause: Equipment Failure   Pipeline (Any)   Produced Water   Released: 15 BBL   Recovered: 0 BBL   Lost: 15 BBL. |
| Is the concentration of chloride in the produced water >10,000 mg/l                                                                                  | No                                                                                                               |
| Condensate Released (bbls) Details                                                                                                                   | Not answered.                                                                                                    |
| Natural Gas Vented (Mcf) Details                                                                                                                     | Not answered.                                                                                                    |
| Natural Gas Flared (Mcf) Details                                                                                                                     | Not answered.                                                                                                    |
| Other Released Details                                                                                                                               | Not answered.                                                                                                    |
| Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts) | none                                                                                                             |

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QUESTIONS, Page 2

Action 363212

**QUESTIONS (continued)**

|                                                                                                  |                                                         |
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|                                                                                                  | Action Number:<br>363212                                |
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**QUESTIONS**

| <b>Nature and Volume of Release (continued)</b>                                                                                                         |                                                                                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Is this a gas only submission (i.e. only significant Mcf values reported)                                                                               | No, according to supplied volumes this does not appear to be a "gas only" report. |
| Was this a major release as defined by Subsection A of 19.15.29.7 NMAC                                                                                  | No                                                                                |
| Reasons why this would be considered a submission for a notification of a major release                                                                 | Unavailable.                                                                      |
| With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form. |                                                                                   |

**Initial Response**

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

|                                                                                                                    |      |
|--------------------------------------------------------------------------------------------------------------------|------|
| The source of the release has been stopped                                                                         | True |
| The impacted area has been secured to protect human health and the environment                                     | True |
| Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices | True |
| All free liquids and recoverable materials have been removed and managed appropriately                             | True |
| If all the actions described above have not been undertaken, explain why                                           | N/A  |

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

|                                                    |                                                                                                                    |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| I hereby agree and sign off to the above statement | Name: Heather Treffert<br>Title: Field Operations Analyst<br>Email: htrefert@silverbackexp.com<br>Date: 07/11/2024 |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|

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QUESTIONS, Page 3

Action 363212

**QUESTIONS (continued)**

|                                                                                                  |                                                         |
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**QUESTIONS****Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

|                                                                                                                            |                                |
|----------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs) | Between 51 and 75 (ft.)        |
| What method was used to determine the depth to ground water                                                                | NM OSE iWaters Database Search |
| Did this release impact groundwater or surface water                                                                       | No                             |
| <b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>   |                                |
| A continuously flowing watercourse or any other significant watercourse                                                    | Between 1000 (ft.) and ½ (mi.) |
| Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)                                          | Between ½ and 1 (mi.)          |
| An occupied permanent residence, school, hospital, institution, or church                                                  | Between 1000 (ft.) and ½ (mi.) |
| A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes  | Between 1000 (ft.) and ½ (mi.) |
| Any other fresh water well or spring                                                                                       | Between 1000 (ft.) and ½ (mi.) |
| Incorporated municipal boundaries or a defined municipal fresh water well field                                            | Between 1 and 5 (mi.)          |
| A wetland                                                                                                                  | Between ½ and 1 (mi.)          |
| A subsurface mine                                                                                                          | Greater than 5 (mi.)           |
| An (non-karst) unstable area                                                                                               | Between 1 and 5 (mi.)          |
| Categorize the risk of this well / site being in a karst geology                                                           | Medium                         |
| A 100-year floodplain                                                                                                      | Between 500 and 1000 (ft.)     |
| Did the release impact areas not on an exploration, development, production, or storage site                               | Yes                            |

**Remediation Plan**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

|                                                                                                                                                                                                                                                                                                                                                                                |    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| Requesting a remediation plan approval with this submission                                                                                                                                                                                                                                                                                                                    | No |
| The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required. |    |

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CONDITIONS

Action 363212

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CONDITIONS

|               |           |                |
|---------------|-----------|----------------|
| Created By    | Condition | Condition Date |
| scott.rodgers | None      | 7/11/2024      |