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# THOMAS ALEXANDER

IN THE MATTER OF PROPOSED AMENDMENTS TO 19.15.2, 19.15.5, 19.15.8, 19.15.9, AND 19.15.25 NMAC

**CASE NO. 24683** 

# SUMMARY OF DIRECT TESTIMONY

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**19.15.2.7.A(13)** "Approved temporary abandonment," "temporary abandonment," or "temporarily abandonment status" means the status of a well that is inactive, has been approved in accordance with 19.15.25.13 NMAC and complies with 19.15.25.12 NMAC through 19.15.25.14 NMAC.

19.15.2.7.T(3) "Temporary abandonment" or "temporarily abandoned status" means the status of a well that is inactive.

19.15.2.7.E(8) "Expired temporary abandonment" or "expired temporary abandonment status" means the status of a well that is inactive and has been approved for temporary abandoned status in accordance with 19.15.25.13 NMAC, but that no longer complies with 19.15.25.12 NMAC through 19.15.25.14 NMAC.

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19.15.2.7.B(7) "Beneficial purposes" or "beneficial use" means an oil or gas well that is being used in a productive or beneficial manner such as production, injection or monitoring, and does not include use of a well for speculative purposes.

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#### OCD INACTIVE WELL SEARCH LIST (15+ Months inactive) 3-Jul-25

Well Type	No. of Wells	% of total inactive wells	No. of Operators	%
Total well count (from Inactive Well search output – appears to represent wells other than Plugged & Released, Cancelled, and Never Drilled statuses)	74,582		Not Included in search	
Total inactive wells (15+ months)	3,765	100%	350	100%
Total approved TA wells* on Inactive Well Search list	419	11%	89	25%
Total expired TA wells*	155	4%	67	19%
Total wells under ACOI**	99	3%	3	1%
Wells listed with unusual status (Drilled, New, or Plugged) - excluded from total below	13	< 0.5%	11	3%
Total inactive wells apparently out of compliance ****** (Inactive wells without ACOI coverage or non-expired TA status)***	3,234	86%	346	99%

<sup>\*</sup> The approved and expired TA status wells listed on OCD Inactive Well Search is only a subset of all wells labeled by OCD as having TA status, per OCD's Well History datafiles, and per a July 3rd search of OCD's Well Permitting Search for all TA wells.

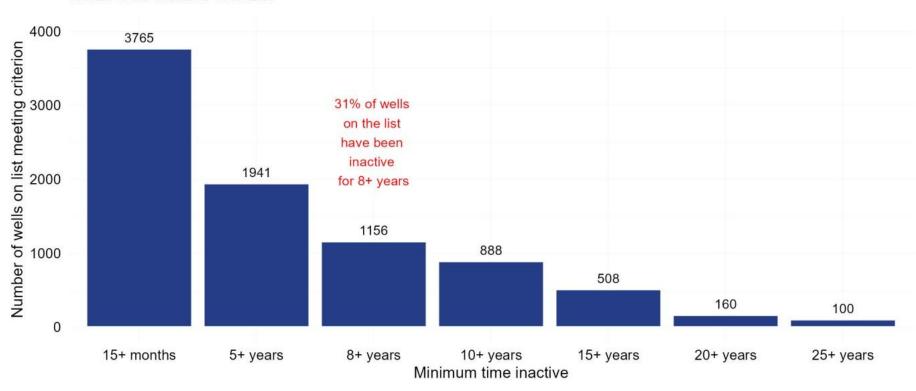
<sup>\*\*</sup> ACÓI (Inactive Well Agreed Compliance Order) coverage was determined by the difference between wells included on 2 back-to-back queries of OCD's Inactive Well Search for wells 15+ months inactive— one set to include ACOI wells and one set to exclude them. Wells absent from the "Exclude ACOI" version of the list are presumed to have a compliance order in place.

<sup>\*\*\*</sup> Some wells with an ACOI are also listed in expired TA status, so this total is slightly less than the sum of the preceding rows.

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# Number of inactive wells, by minimum time inactive

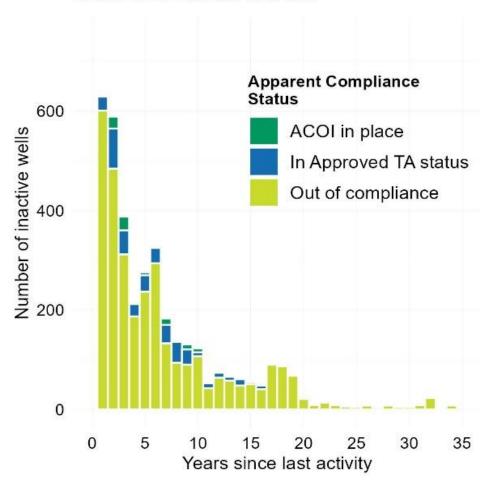




Data reflect wells included in search results from OCD Inactive Well Search tool as of July 3, 2025. Time categories to the left are inclusive of wells in categories to their right.

#### Inactive wells by length of time inactive



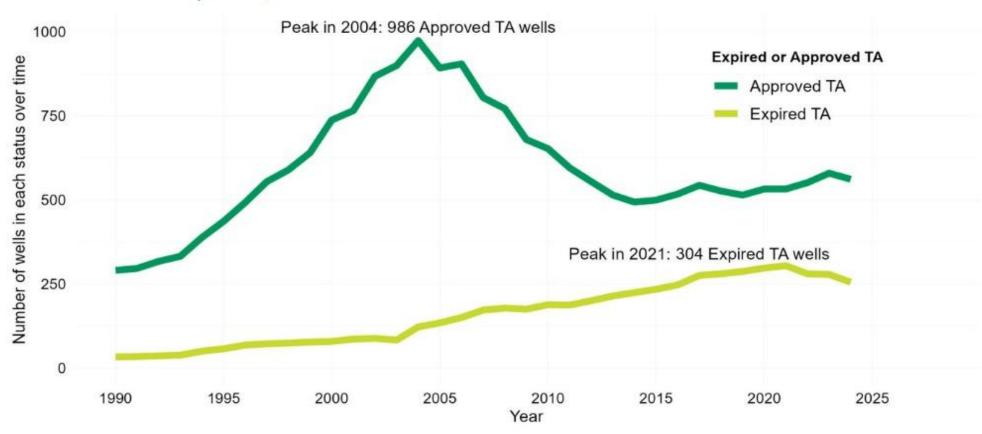


See full exhibit version for details of data development.

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#### Wells in Approved or Expired TA status

OCD Well History dataset, 1990 - 2024



Wells reported in Approved or Expired TA status by OCD Well History dataset, current as of 7/11/25.

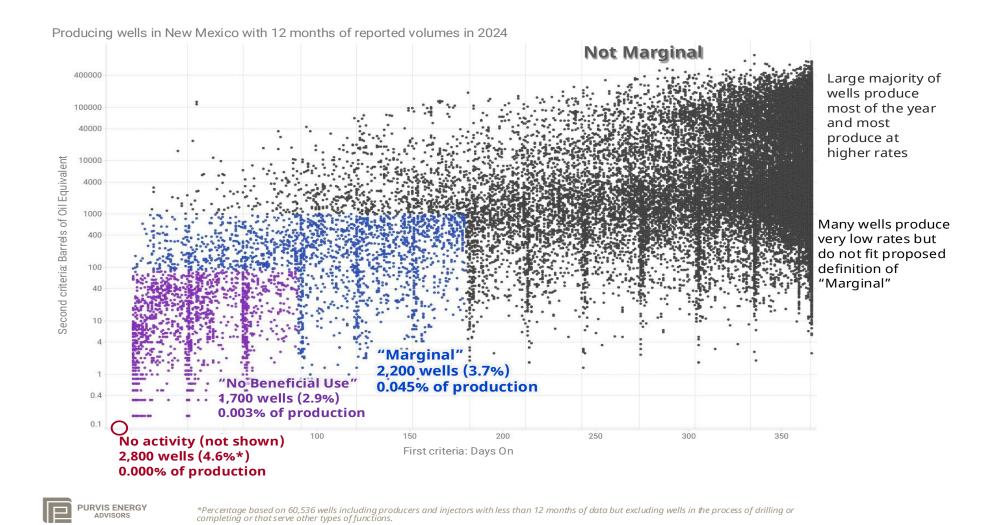
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## 19.15.28.8 WELLS TO BE PROPERLY ABANDONED:

- A. The operator of wells drilled for oil or gas or services wells including seismic, core, exploration or injection wells, whether cased or uncased, shall plug the wells as Subsection B of 19.15.25.8 NMAC requires.
- **B.** The operator shall either properly plug and abandon a well or <u>apply</u> to the division to place the well in approved temporary abandonment in accordance with 19.15.25 NMAC within 90 30 days after:
  - (1) a 60 day period following suspension of drilling operations;
- (2) a determination that a well is no longer usable for beneficial purposes; or
- (3) a period of one year in which a well has been continuously inactive.

- A. For oil and gas production wells, there is a rebuttable presumption that a well is not capable of beneficial use if, in a consecutive 12 month period, the well has not produced for at least 90 days and has not produced at least 90 barrels of oil equivalent.
- B. For injection or salt water disposal wells, there is a rebuttable presumption that a well is not capable of beneficial use if, in a consecutive 12 month period, the well has not injected at least 90 days and at least 100 barrels of fluid.
- C. The rebuttable presumptions in this Section do not apply to wells that have been drilled but not completed for less than 18 months and wells that have been completed but have not produced for less than 18 months.
- wells are not being used for beneficial purposes, a well operator may submit an application for administrative review of such determination through the division's electronic permitting portal. The division shall issue a final determination based on the application, and information available in division records, and any information requested by the division. The final determination may be appealed pursuant to 19.15.4 NMAC. Applications shall to demonstrate beneficial use of a well or wells and the operator shall provide any information requested by the division. Such documentation may shall include:
- (1) Documentation demonstrating that the well is reasonably projected to produce in paying quantities; and
- (2) Documentation demonstrating that the operator maintains adequate capitalization or reasonably projected revenue sufficient to meet all reasonably anticipated plugging and environmental liabilities of the well or wells and associated production facilities, not inclusive of any financial assurance associated with the well or wells; and
- Other relevant information requested by the division including a A plugging and abandonment plan as described in 19.15.9.9.B NMAC;; and
  - (4) Other relevant information requested by the division.

Applicants' Exhibit 40: Production vs days of activity of wells in New Mexico during 2024.



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# 19.15.25.<del>12</del>13 APPROVED TEMPORARY ABANDONMENT:

The division may place a well in approved temporary abandonment for a period of up to five years upon a demonstration from the operator that the well will be used for beneficial use within the approved period of temporary abandonment. The operator's demonstration shall include an explanation why the well should be placed in temporary abandonment, how the well will be put to beneficial use in the future including supporting technical and economic data, a plan that describes the ultimate disposition of the well, the time frame for that disposition, and any other information the division determines appropriate, including a current and complete well bore diagram; geological evidence; geophysical data; well casing information; waste removal and disposition; production engineering; geophysical logs, e.g., cement bond logs, caliper logs, and casing inspection logs; and health, safety, and environmental information. If the division denies a request, the operator shall return the well to beneficial use under a plan the division approves or permanently plug and abandon the well and restore and remediate the location.

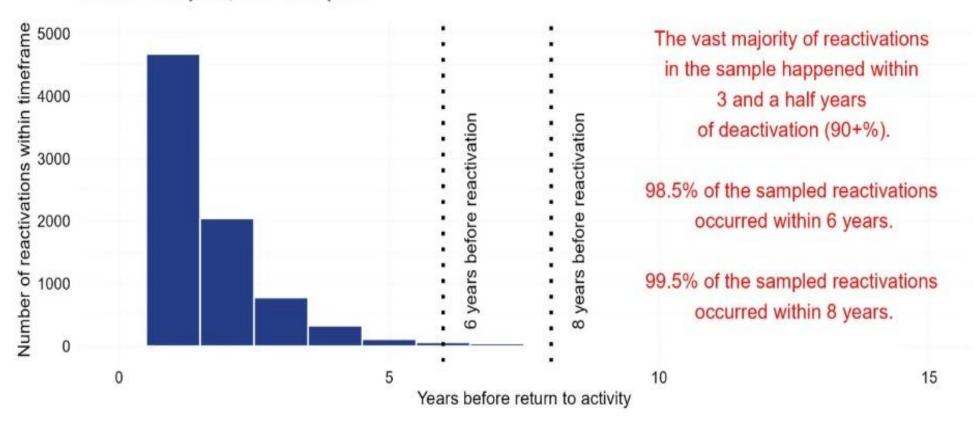
## 49:15:25:4213 APPROVED TEMPORARY ABANDONMENT:

Prior to the expiration of an approved temporary abandonment, the operator shall return the well to beneficial use under a plan the division approves, permanently plug and abandon the well and restore and remediate the location, or apply for a new approval to temporarily abandon the well to the division to extend temporary abandonment status pursuant to the procedures for adjudicatory proceedings in 19.15.4 NMAC, except that in any such adjudicatory proceeding any interested person may intervene under 19.15.4.11.A NMAC. To continue in temporary abandonment, the operator must demonstrate to the division that the well will be returned to beneficial use within the requested period of temporary abandonment. The request shall include documentation demonstrating why the well should remain in temporary abandonment; documentation demonstrating why the well was not brought back to beneficial use or plugged and abandoned during the period of temporary abandonment; documentation demonstrating how the well will be put to beneficial use in the future and supporting technical and economic data; a plan that describes the ultimate disposition of the well, the time frame for that disposition; and a health and safety plan demonstrating the well's casing and cementing meet the requirements of Subsections B and C of Section 19.15.25.13 NMAC and the operator has adequate monitoring procedures in place to ensure such requirements will be met. An extended term shall not exceed two additional years, upon which time the operator shall return the well to beneficial use under a plan the division approves or permanently plug and abandon the well and restore and remediate the location.

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# Length of time before deactivated wells return to activity

Median = 1.42 years; 90% = 3.42 years.



Histogram of length of time inactive prior to return to activity, across sample of wells that reactivated following 12+ months of no production.

Based on analysis of production data from 2010-2024, for wells spudded prior to 2017.

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# THOMAS ALEXANDER

IN THE MATTER OF PROPOSED AMENDMENTS TO 19.15.2, 19.15.5, 19.15.8, 19.15.9, AND 19.15.25 NMAC

**CASE NO. 24683** 

# SUMMARY OF REBUTTAL TESTIMONY

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19.15.2.7.B(7) "Beneficial purposes" or "beneficial use" means an oil or gas well that is being used in a productive or beneficial manner such as production, injection or monitoring, and does not include use of a well for speculative purposes.

- A. For oil and gas production wells, there is a rebuttable presumption that a well is not capable of beneficial use if, in a consecutive 12 month period, the well has not produced for at least 90 days and has not produced at least 90 barrels of oil equivalent.

  Province the production of sold wells, there is a rebuttable presumption that a well is not capable of the sold wells and the produced for at least 90 days and has not produced at least 90 barrels of oil equivalent.
- B. For injection or salt water disposal wells, there is a rebuttable presumption that a well is not capable of beneficial use if, in a consecutive 12 month period, the well has not injected at least 90 days and at least 100 barrels of fluid.
- C. The rebuttable presumptions in this Section do not apply to wells that have been drilled but not completed for less than 18 months and wells that have been completed but have not produced for less than 18 months.
- wells are not being used for beneficial purposes, a well operator may submit an application for administrative review of such determination through the division's electronic permitting portal. The division shall issue a final determination based on the application, and information available in division records, and any information requested by the division. The final determination may be appealed pursuant to 19.15.4 NMAC. Applications shall to demonstrate beneficial use of a well or wells and the operator shall provide any information requested by the division. Such documentation may shall include:
- (1) Documentation demonstrating that the well is reasonably projected to produce in paying quantities; and
- (2) Documentation demonstrating that the operator maintains adequate capitalization or reasonably projected revenue sufficient to meet all reasonably anticipated plugging and environmental liabilities of the well or wells and associated production facilities, not inclusive of any financial assurance associated with the well or wells; and
- (3) Other relevant information requested by the division including a A plugging and abandonment plan as described in 19.15.9.9.B NMAC<sub>-</sub>; and
  - (4) Other relevant information requested by the division.

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# 19.15.25.<del>12</del>13 APPROVED TEMPORARY ABANDONMENT:

The division may place a well in approved temporary abandonment for a period of up to five years upon a demonstration from the operator that the well will be used for beneficial use within the approved period of temporary abandonment. The operator's demonstration shall include an explanation why the well should be placed in temporary abandonment, how the well will be put to beneficial use in the future including supporting technical and economic data, a plan that describes the ultimate disposition of the well, the time frame for that disposition, and any other information the division determines appropriate, including a current and complete well bore diagram; geological evidence; geophysical data; well casing information; waste removal and disposition; production engineering; geophysical logs, e.g., cement bond logs, caliper logs, and casing inspection logs; and health, safety, and environmental information. If the division denies a request, the operator shall return the well to beneficial use under a plan the division approves or permanently plug and abandon the well and restore and remediate the location.

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#### OCD INACTIVE WELL SEARCH LIST (15+ Months inactive) 3-Jul-25

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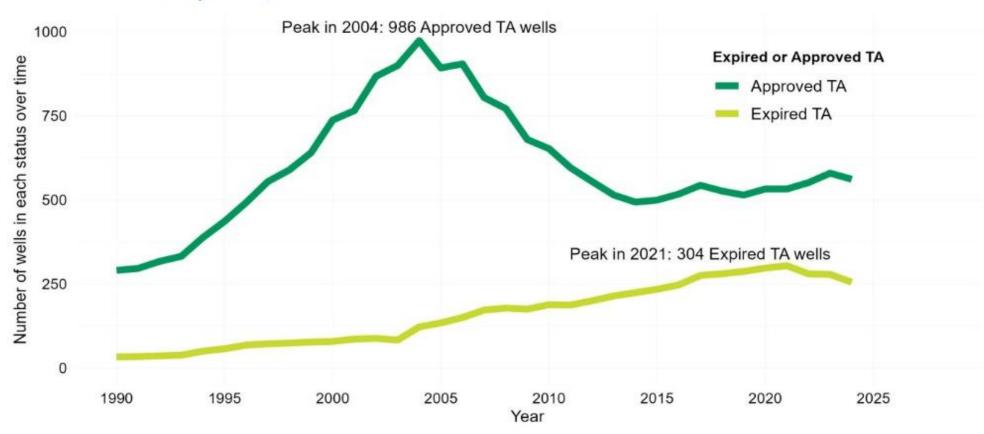
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#### Wells in Approved or Expired TA status

OCD Well History dataset, 1990 - 2024



Wells reported in Approved or Expired TA status by OCD Well History dataset, current as of 7/11/25.

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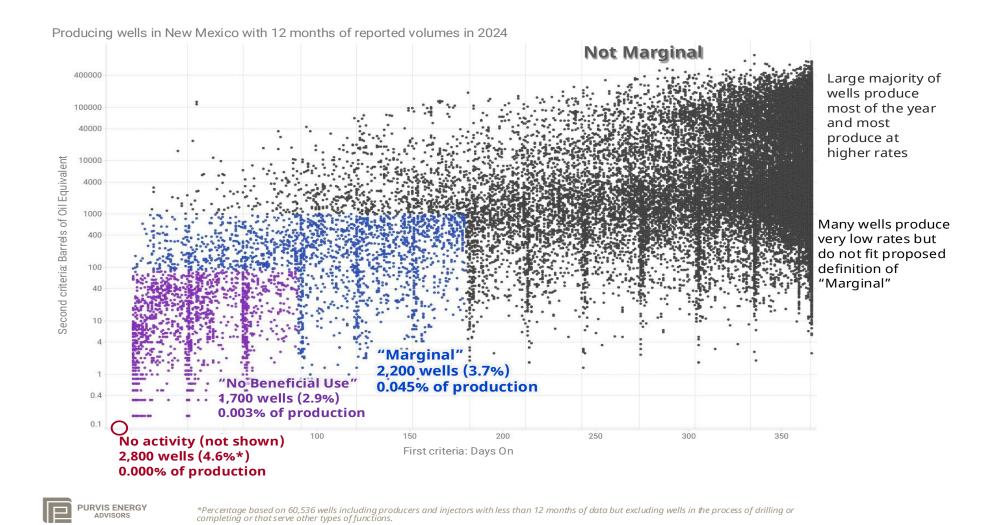
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Applicants' Exhibit 40: Production vs days of activity of wells in New Mexico during 2024.



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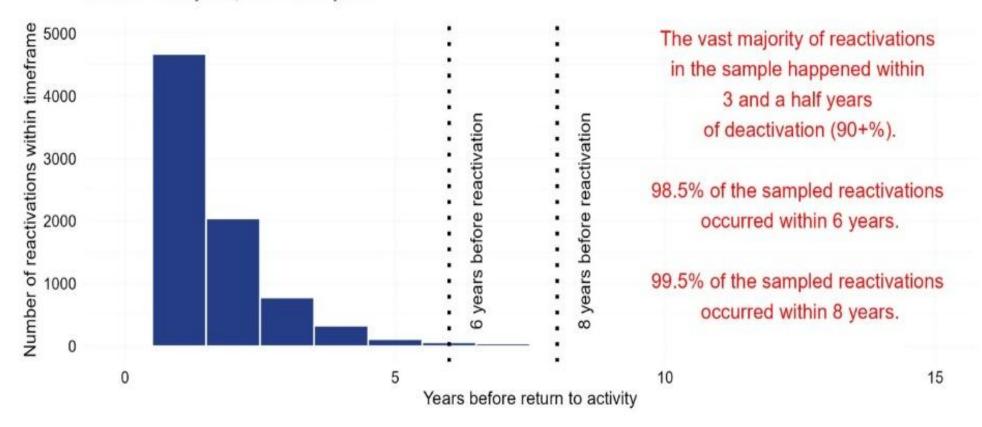
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# Length of time before deactivated wells return to activity

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Histogram of length of time inactive prior to return to activity, across sample of wells that reactivated following 12+ months of no production.

Based on analysis of production data from 2010-2024, for wells spudded prior to 2017.

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# Applicants' Witness Peter Morgan: Direct Testimony

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#### **19.15.5.9 COMPLIANCE:**

A. An operator is in compliance with Subsection A of 19.15.5.9 NMAC if the operator:

- (1) currently meets the financial assurance requirements of 19.15.8 NMAC;
- (2) is not subject to a division or commission order, issued after notice and hearing, finding the operator to be in violation of an order requiring corrective action;
- (3) does not have a penalty assessment that is unpaid more than 30 days after issuance of the order assessing the penalty; and
- (4) <u>currently meets the requirements of 19.15.25.8 NMAC; and has no more than the</u> following number of wells out of compliance with 19.15.25.8 NMAC that are not subject to an agreed compliance or final order setting a schedule for bringing the wells into compliance with 19.15.25.8 NMAC and imposing sanctions if the schedule is not met:
- (a) two wells or fifty percent of the wells the operator operates, whichever is less, if the operator operates 100 wells or less;
  - (b) five wells if the operator operates between 101 and 500 wells;
  - (c) seven wells if the operator operates between 501 and 1000 wells; and
  - (d) 10 wells if the operator operates more than 1000 wells.
  - (5) currently meets the requirements of 19.15.27.8.A NMAC.

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# 19.15.8.9 CATEGORIES AND AMOUNTS OF FINANCIAL ASSURANCE FOR WELL PLUGGING:

A. Applicability. An operator who has drilled or acquired, is drilling or proposes to drill or acquire an oil, gas or injection or other service well within this state shall furnish a financial assurance acceptable to the division in accordance with 19.15.8.9 NMAC and in the form of an irrevocable letter of credit, plugging insurance policy or cash or surety bond running to the state of New Mexico conditioned that the well be plugged and abandoned and the location restored and remediated in compliance with commission rules, unless the well is covered by federally required financial assurance. The division shall not approve and the operator shall not proceed with any proposed drilling or acquisition until the operator has furnished the required financial assurance.

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#### 70-2-14. Requirement for financial assurance.

A. Each person, firm, corporation or association who operates any oil, gas or service well within the state shall, as a condition precedent to drilling or producing the well, furnish financial assurance in the form of an irrevocable letter of credit or a cash or surety bond or a well-specific plugging insurance policy pursuant to the provisions of this section to the oil conservation division of the energy, minerals and natural resources department running to the benefit of the state and conditioned that the well be plugged and abandoned in compliance with the rules of the oil conservation division. The oil conservation division shall establish categories of financial assurance after notice and hearing. Such categories shall include a blanket plugging financial assurance, which shall be set by rule in an amount not to exceed two hundred fifty thousand dollars (\$250,000), a blanket plugging financial assurance for temporarily abandoned status wells, which shall be set by rule at amounts greater than fifty thousand dollars (\$50,000), and one-well plugging financial assurance in amounts determined sufficient to reasonably pay the cost of plugging the wells covered by the financial assurance. In establishing categories of financial assurance, the oil conservation division shall consider the depth of the well involved, the length of time since the well was produced, the cost of plugging similar wells and such other factors as the oil conservation division deems relevant. The oil conservation division shall require a one-well financial assurance on any well that has been held in a temporarily abandoned status for more than two years or, at the election of the operator, may allow an operator to increase its blanket plugging financial assurance to cover wells held in temporarily abandoned status. All financial assurance shall remain in force until released by the oil conservation division. The oil conservation division shall release financial assurance when it is satisfied the conditions of the financial assurance have been fully performed.



(2) "Marginal well" means an oil or gas well that produced less than 180 days and less than 1,000 barrels of oil equivalent within a consecutive 12 month period.

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D. Marginal wells and inactive wells. Notwithstanding the provisions in Subsection C(2) in this Section:

- (1) As of the [effective date of amendments] a transferee operator shall provide a one well plugging financial assurance of \$150,000 for each marginal well prior to transfer.
- assurance for each marginal well. Each operator with a marginal well or wells shall annually review the number of marginal wells registered to the operator and shall update the one well plugging financial assurance by May 1 of each year.
- (3) An operator with 15 percent or more of their wells in marginal or inactive well status, or a combination thereof, shall provide a one well plugging financial assurance in the amount of \$150,000 for each well registered to the operator until the percentage of the operator's marginal and inactive wells is decreased below 15 percent.
- (4) An operator may furnish all necessary one well plugging financial assurance in the form of a single instrument.

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E.D. Inactive wells and wells in approved and expired temporarily abandoned status. An operator shall provide financial assurance for wells that are inactive and wells in approved and expired temporarily abandoned status, covered by Subsection A of 19.15.8.9 NMAC that have been in temporarily abandoned status for more than two years or for which the operator is seeking approved temporary abandonment pursuant to 19.15.25.13 NMAC in one of the following categories:

- (1) a one well <u>plugging</u> financial assurance in the amount of \$150,000 per well; \$25,000 plus \$2 per foot of the projected depth of a proposed well or the depth of an existing well; the depth of a well is the true vertical depth for vertical and horizontal wells and the measured depth for deviated and directional wells; or
- (2) a blanket plugging financial assurance equal to an average of \$150,000 per well covering all wells of the operator subject to Subsection ED of 19.15.8.9 NMAC.:
  - (e) \$150,000 for one to five wells;
  - (f) \$300,000 for six to 10 wells;
  - (g) \$500,000 for 11 to 25 wells; and
  - (h) \$1,000,000 for more than 25 wells.

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The number of idle wells in a state or province is a concern because of the potential for the wells to deteriorate over time or become orphans. An even more critical factor is the number of idle wells held by an individual operator, especially as a percentage of the operator's total wells that have been drilled but not plugged. A high percentage of idle wells may indicate an increased vulnerability of the state or province to the operator becoming insolvent and leaving orphan wells. States and provinces use various approaches to ensure operators actively manage their idle well inventories and plug wells with no future beneficial use.

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E.D. Inactive wells and wells in approved and expired temporarily abandoned status. An operator shall provide financial assurance for wells that are inactive and wells in approved and expired temporarily abandoned status, covered by Subsection A of 19.15.8.9 NMAC that have been in temporarily abandoned status for more than two years or for which the operator is seeking approved temporary abandonment pursuant to 19.15.25.13 NMAC in one of the following categories:

- (1) a one well <u>plugging</u> financial assurance in the amount of \$150,000 per well; \$25,000 plus \$2 per foot of the projected depth of a proposed well or the depth of an existing well; the depth of a well is the true vertical depth for vertical and horizontal wells and the measured depth for deviated and directional wells; or
- (2) a blanket plugging financial assurance equal to an average of \$150,000 per well covering all wells of the operator subject to Subsection ED of 19.15.8.9 NMAC.:
  - (e) \$150,000 for one to five wells;
  - (f) \$300,000 for six to 10 wells;
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Despite affecting small firms, the bond requirement yielded large environmental improvements because small producers caused a disproportionate share of environmental problems. The bond requirement reduced the number of orphan wells per lease among the smallest 80 percent of firms by 76 percent, decreasing the industry-wide orphan well rate by 65 percent.

Notably, the state's total output of oil and gas was essentially unaffected by the policy. This is because the firms affected by the policy accounted for a small fraction of production, and because most of the valuable production associated with exiting firms was reallocated to other producers instead of shutting down.

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Plugging and restoration costs rise over time due to inflation and in some cases due to improved and more stringent regulatory requirements for materials and methods. States and provinces typically review and revise their financial assurance requirements periodically to account for these increases.



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Altogether, the state's current and near-future liability for well plugging and site remediation is estimated at \$700 million to \$1.6 billion.



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It is common for operators to transfer wells and associated facilities and pipelines to other companies. State and provincial regulators have a special concern with transfers of wells with declining production because of the increased risk that such wells may become orphans. Many states and provinces have implemented measures to reduce this risk by setting additional requirements for financial assurance and by evaluating corporate solvency and compliance history and the status and condition of the wells and associated facilities and pipelines before approving a transfer.

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- B. Prior to commencing operations, an operator shall provide to the division a certification by an authorized official officer, director, or partner that the new operator is not subject to any forfeiture demands from any state or federal agency, has not forfeited financial assurance to any state or federal agency, and does not have unresolved adjudicated orders or unresolved settlement agreements for any state or federal violations in compliance with federal and state oil and gas laws and regulations in any domestic jurisdiction each state in which the new operator does business; a disclosure of any officer, director, partner in the new operator or person with an interest in the new operator exceeding 25 percent, who is or was within the past five years an officer, director, partner, or person with an interest exceeding 25 percent in another entity that is not currently in compliance with Subsection A of 19.15.5.9 NMAC; and a disclosure whether the new operator is or was within the past five years an officer, director, partner, or person with an interest exceeding 25 percent in another entity that is not currently in compliance with Subsection A of 19.15.5.9 NMAC.
  - **B.C.** The division may deny registration as an operator if:
    - (1) the applicant is not in compliance with Subsection A of 19.15.5.9 NMAC;
- (2) the applicant has forfeiture demands from any state or federal agency, has forfeited financial assurance to any state or federal agency, or has unresolved adjudicated orders or unresolved settlement agreements for any state or federal violation is out of compliance with federal and state oil and gas laws and regulations in any domestic jurisdiction each state in which the applicant does business;

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B. The operator of record with the division and the new operator shall apply for a change of operator by jointly filing a form C-145 using the division's web-based online application. If the operator of record with the division is unavailable, the new operator shall apply to the division for approval of change of operator without a joint application. The <u>new</u> operator shall make such application in writing and provide documentary evidence of the applicant's right to assume operations; a certification by an authorized official officer, director, or partner of the new operator that the new operator is not subject to any forfeiture demands from any state or federal agency, has not forfeited financial assurance to any state or federal agency, and does not have unresolved adjudicated orders or unresolved settlement agreements for any state or federal violations in compliance with federal and state oil and gas laws and regulations in any domestic jurisdiction each state in which the new operator does business; a plugging and abandonment plan; a disclosure of any officer, director, partner in the new operator or person with an interest in the new operator exceeding 25 percent, who is or was within the past five years an officer, director, partner, or person with an interest exceeding 25 percent in another entity that is not currently in compliance with Subsection A of 19.15.5.9 NMAC; and a disclosure whether the new operator is or was within the past five years an officer, director, partner, or person with an interest exceeding 25 percent in another entity that is not currently in compliance with Subsection A of 19.15.5.9 NMAC. The new operator shall not commence operations until the division approves the application for change of operator. The plugging and abandonment plan shall be certified by an authorized representative officer, director, or partner of the new operator and shall demonstrate that the new operator has and will have the financial ability to meet the plugging and abandonment requirements of 19.15.25 NMAC for the well or wells to be transferred in light of all the operator's assets and liabilities. The division may request the operator to provide additional information including corporate credit rating, corporate financial statements, long-term liabilities, reserves and economics report, records of the operator's historical costs for decommissioning activities, estimate of the operator's 15 decommissioning obligations, and history of inactive wells and returning wells to production.

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E. No well, facility or site that is out of compliance with Subsection A of 19.15.5.9 NMAC, 19.15.29 NMAC, or 19.15.30 NMAC shall be transferred unless, prior to transfer, the current operator brings the associated well, facility or site into compliance or the new operator submits a schedule of compliance approved by the division.

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# Applicants' Witness Peter Morgan: Rebuttal Testimony

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Notably, the state's total output of oil and gas was essentially unaffected by the policy. This is because the firms affected by the policy accounted for a small fraction of production, and because most of the valuable production associated with exiting firms was reallocated to other producers instead of shutting down.

Drilling Like There's No Tomorrow: Bankruptcy, Insurance, and Environmental Risk<sup>†</sup>

By Judson Boomhower\*

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#### 70-2-14. Requirement for financial assurance.

A. Each person, firm, corporation or association who operates any oil, gas or service well within the state shall, as a condition precedent to drilling or producing the well, furnish financial assurance in the form of an irrevocable letter of credit or a cash or surety bond or a well-specific plugging insurance policy pursuant to the provisions of this section to the oil conservation division of the energy, minerals and natural resources department running to the benefit of the state and conditioned that the well be plugged and abandoned in compliance with the rules of the oil conservation division. The oil conservation division shall establish categories of financial assurance after notice and hearing. Such categories shall include a blanket plugging financial assurance, which shall be set by rule in an amount not to exceed two hundred fifty thousand dollars (\$250,000), a blanket plugging financial assurance for temporarily abandoned status wells, which shall be set by rule at amounts greater than fifty thousand dollars (\$50,000), and one-well plugging financial assurance in amounts determined sufficient to reasonably pay the cost of plugging the wells covered by the financial assurance. In establishing categories of financial assurance, the oil conservation division shall consider the depth of the well involved, the length of time since the well was produced, the cost of plugging similar wells and such other factors as the oil conservation division deems relevant. The oil conservation division shall require a one-well financial assurance on any well that has been held in a temporarily abandoned status for more than two years or, at the election of the operator, may allow an operator to increase its blanket plugging financial assurance to cover wells held in temporarily abandoned status. All financial assurance shall remain in force until released by the oil conservation division. The oil conservation division shall release financial assurance when it is satisfied the conditions of the financial assurance have been fully performed.

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#### 70-2-14. Requirement for financial assurance.

A. Each person, firm, corporation or association who operates any oil, gas or service well within the state shall, as a condition precedent to drilling or producing the well, furnish financial assurance in the form of an irrevocable letter of credit or a cash or surety bond or a well-specific plugging insurance policy pursuant to the provisions of this section to the oil conservation division of the energy, minerals and natural resources department running to the benefit of the state and conditioned that the well be plugged and abandoned in compliance with the rules of the oil conservation division. The oil conservation division shall establish categories of financial assurance after notice and hearing. Such categories shall include a blanket plugging financial assurance, which shall be set by rule in an amount not to exceed two hundred fifty thousand dollars (\$250,000), a blanket plugging financial assurance for temporarily abandoned status wells, which shall be set by rule at amounts greater than fifty thousand dollars (\$50,000), and one-well plugging financial assurance in amounts determined sufficient to reasonably pay the cost of plugging the wells covered by the financial assurance. In establishing categories of financial assurance, the oil conservation division shall consider the depth of the well involved, the length of time since the well was produced, the cost of plugging similar wells and such other factors as the oil conservation division deems relevant. The oil conservation division shall require a one-well financial assurance on any well that has been held in a temporarily abandoned status for more than two years or, at the election of the operator, may allow an operator to increase its blanket plugging financial assurance to cover wells held in temporarily abandoned status. All financial assurance shall remain in force until released by the oil conservation division. The oil conservation division shall release financial assurance when it is satisfied the conditions of the financial assurance have been fully performed.

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## 19.15.8.9 CATEGORIES AND AMOUNTS OF FINANCIAL ASSURANCE FOR WELL PLUGGING:

A. Applicability. An operator who has drilled or acquired, is drilling or proposes to drill or acquire an oil, gas or injection or other service well within this state shall furnish a financial assurance acceptable to the division in accordance with 19.15.8.9 NMAC and in the form of an irrevocable letter of credit, plugging insurance policy or cash or surety bond running to the state of New Mexico conditioned that the well be plugged and abandoned and the location restored and remediated in compliance with commission rules, unless the well is covered by federally required financial assurance. The division shall not approve and the operator shall not proceed with any proposed drilling or acquisition until the operator has furnished the required financial assurance.

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G. On January 1, 2028 and on January 1 of each successive year, the division may adjust the financial assurance amounts provided by Subsections C(1), D, E and F of this Section by multiplying the financial assurance as of January 1, 2027 by a fraction, the numerator of which is the consumer price index ending in September of the previous year and the denominator of which is the consumer price index ending September 2026; provided that any financial assurance shall not be adjusted below the minimum amounts required in Subsections C(1), D, E and F of this Section as a result of a decrease in the consumer price index. By November 1, 2027 and by November 1 of each successive year, the division shall post on its website the financial assurance requirements in Subsection A through E of this Section for the next year. As used in this subsection, "consumer price index" means the consumer price index, not seasonally adjusted, for all urban consumers, United States city average for all items, or its successor index, as published by the United States department of labor for a 12 month period ending September 30.

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B. Prior to commencing operations, an operator shall provide to the division a certification by an authorized official officer, director, or partner that the new operator is not subject to any forfeiture demands from any state or federal agency, has not forfeited financial assurance to any state or federal agency, and does not have unresolved adjudicated orders or unresolved settlement agreements for any state or federal violations in compliance with federal and state oil and gas laws and regulations in any domestic jurisdiction each state in which the new operator does business; a disclosure of any officer, director, partner in the new operator or person with an interest in the new operator exceeding 25 percent, who is or was within the past five years an officer, director, partner, or person with an interest exceeding 25 percent in another entity that is not currently in compliance with Subsection A of 19.15.5.9 NMAC; and a disclosure whether the new operator is or was within the past five years an officer, director, partner, or person with an interest exceeding 25 percent in another entity that is not currently in compliance with Subsection A of 19.15.5.9 NMAC.

- **B.C.** The division may deny registration as an operator if:
  - the applicant is not in compliance with Subsection A of 19.15.5.9 NMAC;
- (2) the applicant has forfeiture demands from any state or federal agency, has forfeited financial assurance to any state or federal agency, or has unresolved adjudicated orders or unresolved settlement agreements for any state or federal violation is out of compliance with federal and state oil and gas laws and regulations in any domestic jurisdiction each state in which the applicant does business;
  - B. The operator of record with the division and the new operator shall apply for a change of operator by jointly filing a form C-145 using the division's web-based online application. If the operator of record with the division is unavailable, the new operator shall apply to the division for approval of change of operator without a joint application. The new operator shall make such application in writing and provide documentary evidence of the applicant's right to assume operations; a certification by an authorized official officer, director, or partner of the new operator that the new operator is not subject to any forfeiture demands from any state or federal agency, has not forfeited financial assurance to any state or federal agency, and does not have unresolved adjudicated orders or unresolved settlement agreements for any state or federal violations in compliance with federal and state oil and gas laws and regulations in any domestic jurisdiction each state in which the new operator does business; a plugging and abandonment plan; a disclosure of any officer, director, partner in the new operator or person with an interest in the new operator exceeding 25 percent, who is or was within the past five years an officer, director, partner, or person with an interest exceeding 25 percent in another entity that is not currently in compliance with Subsection A of 19.15.5.9 NMAC; and a disclosure whether the new operator is or was within the past five years an officer, director, partner, or person with an interest exceeding 25 percent in another entity that is not currently in compliance with Subsection A of 19.15.5.9 NMAC. The new operator shall not commence operations until the division approves the application for change of operator. The plugging and abandonment plan shall be certified by an authorized representative officer, director, or partner of the new operator and shall demonstrate that the new operator has and will have the financial ability to meet the plugging and abandonment requirements of 19.15.25 NMAC for the well or wells to be transferred in light of all the operator's assets and liabilities. The division may request the operator to provide additional information including corporate credit rating, corporate financial statements, long-term liabilities, reserves and economics report, records of the operator's historical costs for decommissioning activities, estimate of the operator's decommissioning obligations, and history of inactive wells and returning wells to production.

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- **C.** The director of the director's designee may deny a change of operator if:
  - (1) the new operator is not in compliance with Subsection A of 19.15.5.9 NMAC; or
- (2) the new operator is acquiring wells, facilities or sites subject to a compliance order requiring remediation or abatement of contamination, or compliance with 19.15.25.8 NMAC, and the new operator has not entered into an agreed compliance order setting a schedule for compliance with the existing order.
  - (2) the new operator is out of compliance with federal and state oil and gas laws and regulations in each state in which the new operator does business;
- (3) any officer, director, partner in the new operator or person with an interest in the new operator exceeding 25 percent, who is or was within the past five years an officer, director, partner, or person with an interest exceeding 25 percent in another entity that is not currently in compliance with Subsection A of 19.15.5.9 NMAC;
- (4) the new operator is or was within the past five years an officer, director, partner, or person with an interest exceeding 25 percent in another entity that is not currently in compliance with Subsection A of 19.15.5.9 NMAC;
- (5) the applicant is a corporation, limited liability company, or limited partnership and is not registered or is not in good standing with the New Mexico secretary of state to do business in New Mexico; or
- (6) the certification or disclosure requirements set forth in Subsection B of this Section disclose a substantial risk that the new operator would be unable to satisfy the plugging and abandonment requirements of 19.15.25 NMAC for the well or wells the new operator intends to take over.

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# Applicants' Witness Peter Morgan: Surrebuttal Testimony

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Since Lexon issued the surety bonds at the center of this litigation, W&T has reported significant deterioration of its financial health. That development, coupled with numerous other industry-wide issues, including relevant court rulings, losses sustained across the industry, and reinsurance considerations, led Lexon to send a collateral demand notice to W&T on July 9, 2024. W&T's other sureties, who each have their own indemnity agreements with W&T, apparently observed the same financial trends and independently decided to demand collateral payment from W&T.

LEXON'S PARTIAL MOTION TO DISMISS W&T'S
FIRST AMENDED COMPLAINT PURSUANT TO FED. R. CIV. P. 12(b)(6)

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# **EDF New Mexico Testimony Presentation**

Adam Peltz



ed by OCD: 10/15/2025

# **Direct Testimony**





## LFC — Comprehensive Overview of Orphan Wells in New Mexico

- Goal: assess the current scope of the problem
  - Focus on:
    - Environmental, health & safety impacts of orphan wells
    - Evaluate the adequacy of the state's regulatory framework to address current orphaned wells and prevent future orphaning
  - Create an estimation of the state's future liability from orphan wells

#### Important considerations:

- Currently, orphan wells will cost the state more than \$200 million
- Future liability costs range from:
  - "Low" Evaluation = \$700 million
  - "High" Evaluation = \$1.6 billion
- This is an unsustainable number for NM and its ~\$10B annual budget

## LFC Received by OCD: 10/15/2025 Commendations — Comprehensive Overview of **Orphan Wells in New Mexico**

- LFC made several recommendations as part of this report, for the Legislature and the Energy, Minerals, and Natural Resources Department (EMNRD)
  - LFC regulatory recommendations accord with EDF's proposals -
    - 1. Importance of defining a category of low-producing wells for heightened scrutiny
    - 2. Operators of such wells secure individual well assurance rather than blanket bonds
    - 3. Regulatory oversight is needed for all well transfers
    - Additional recommendations relative to EMNRD and the legislature are included but are outside the scope of this rulemaking

LFC clearly recognizes the scope of the orphan well problem in NM this rulemaking is critical to protect New Mexico's people, climate, and environment from orphan wells

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## **History of Well Orphaning – New Mexico**

- 2021: Money included in the IIJA (roughly \$4.7B) to plug wells, bringing national attention to the orphan well problem
- \$400+ million received by NM for well plugging, remediation & restoration
  - A total of \$3.8 billion is expected
- The Tribal Orphaned Wells Program sets money aside specifically for Tribes to plug, remediate & and restore wells and well sites on Tribal lands
- NM has been using federal money to plug wells over the past few years, but the problem continues to grow
  - ~1,700: State & private orphan wells eligible for plugging in 2022
  - ~1,400 inactive wells to plug + an estimated 3,000 producing such a small quantity of oil and gas that they are at risk of being orphaned

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## History of U.S. Oil & Gas Development

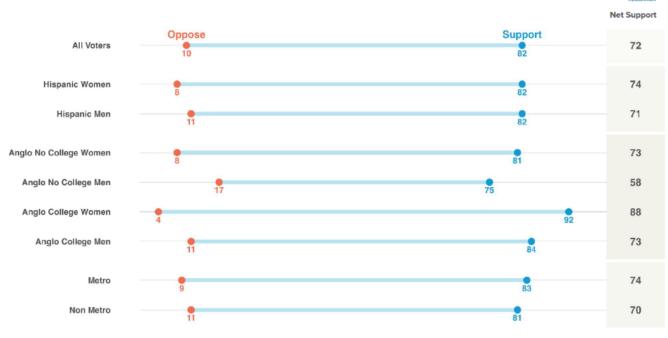
- **1850's**: O&G production begins in Pennsylvania
  - In New Mexico by the early 1920's
- 1919: The first plugging requirement is adopted by Texas by the RRC
  - New Mexico adopted its 1<sup>st</sup> plugging requirements in the 1930's
- Over 4 Million: Wells drilled in the U.S.
  - 1.5 million of these have been plugged by industry & states
  - ~ 1 million are active or idle
  - ~ 1.5 million improperly abandoned –falling to the public to manage
    - Documented count of 141k, state UOW estimate up to 800k

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## **New Mexico Landscape Polling – Exhibit 58**

**Energy/Environment** Do you support or oppose a requirement for oil and gas companies to seal and plug wells they have drilled once those wells are no longer producing energy?



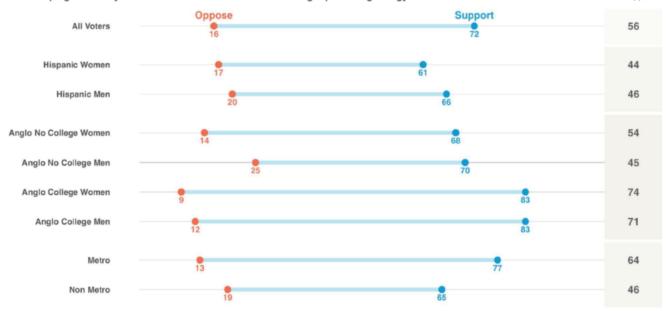


## **New Mexico Landscape Polling -- Exhibit 58**

Energy/Environment Supporters argue that this measure would prevent taxpayers from bearing the cost of cleaning up inactive wells, which could amount to billions of dollars. Opponents contend that this requirement could force small mom and pop operators out of business. Now that you have read more, do you support or oppose a requirement for oil and gas companies to seal and plug wells they have drilled once those wells are no longer producing energy?







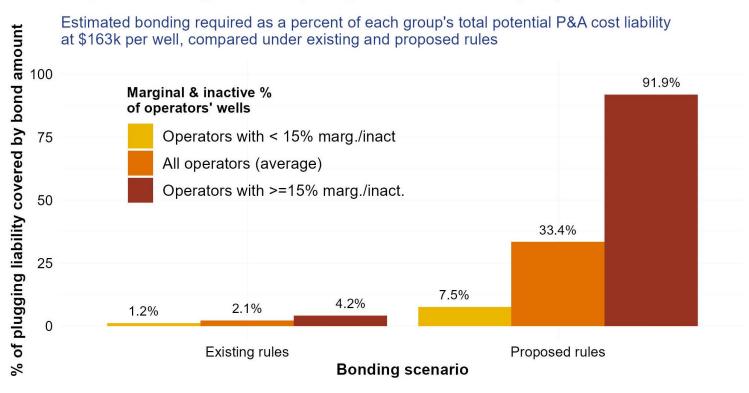
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## **Orphan Well Policy Reform – Across the States**

- Arkansas: In 2018, the first state to adopt close-to full cost financial assurance for marginal wells on transfer
- North Dakota & Wyoming: Limit the number of idle wells on blanket bonds
- Utah: Rulemaking underway since 2021
- Colorado: Omnibus rulemaking in 2022
- Louisiana: Idle well rulemaking in 2023
- California: Legislative reforms in 2023
- Texas & Oklahoma: Legislative reforms in 2025

### Exhibit 63

#### Projected bonding amount, by marginal/inactive well % groups

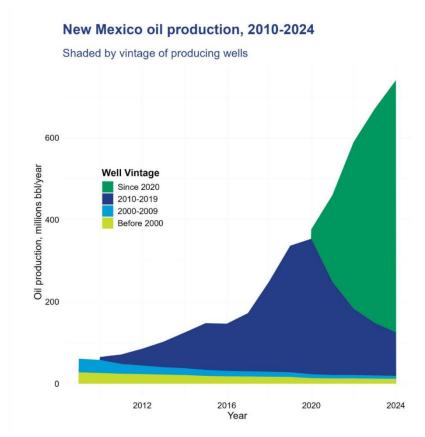


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#### Exhibit 59

Production as reported from GO-TECH annual County Production Volume downloads (repackaging of OCD production data), 2010-2024, all counties

Vintages derived from SpudDates reported in OCD Well History dataset, current as of 7/11/25



#### Exhibit 33

Production
dominated by
Permian
horizontal and
directional wells



#### Exhibit 32

## Subdivisions of unplugged wells in New Mexico

#### Unplugged wells by activity

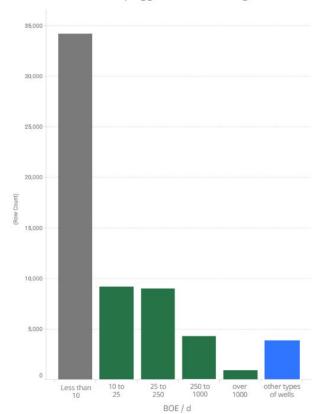
	Types			% of	
BOE/d	Total Producers		Other	Total	
less than 10	34,238	34,238	-	55%	
10 to 25	9,187	9,187	-	15%	
25 to 250	9,008	9,008		14%	
250 to 1000	4,270	4,270	250	6.8%	
over 1000	921	921		1.5%	
Other	5,096	1,303	3,793	8%	
Total	62,720				

#### Wells in not-active categories per OCD\*

Temp Abandon

Aging**	Approved	Expired Inactive		Orphan	
0 to 1 yr	184	68	773	0 55	
1 to 2 yrs	118	41	113		
2 to 5 yrs	171	54	868	191	
5 to 8 yrs	35	26	613	194	
8 to 10 yrs	8	15	203	66	
> 10 yrs	1	33	771	440	
no data	40	0		2	
Statewide	557	237	3 228	9/18	

Production rate of unplugged wells, excluding DUCs



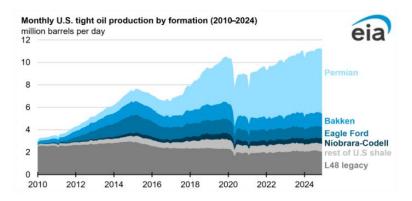
PURVIS ENERGY ADVISORS

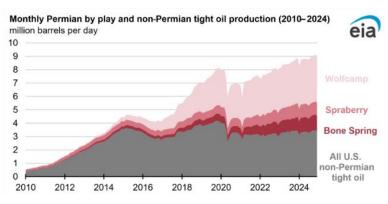
<sup>\*</sup>Some wells in more than one category indicating no activity

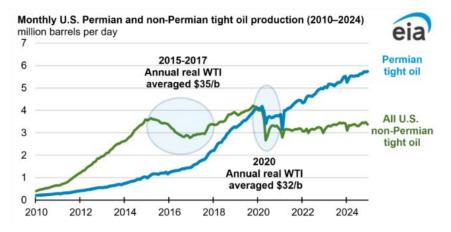
<sup>\*\*</sup>Aging since last production for Orphan and Inactive, For TA, aging since approved or expired respectively.

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## **EIA Figures**







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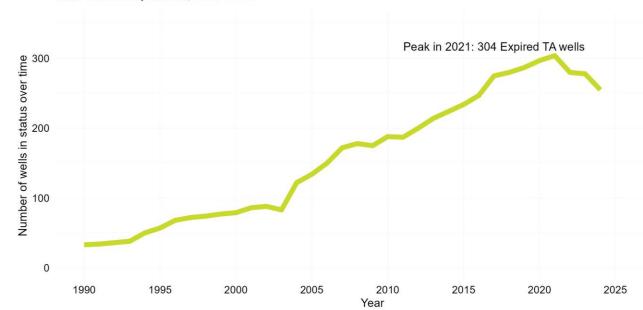
#### **Exhibit 61**

Wells in Expired TA status over time

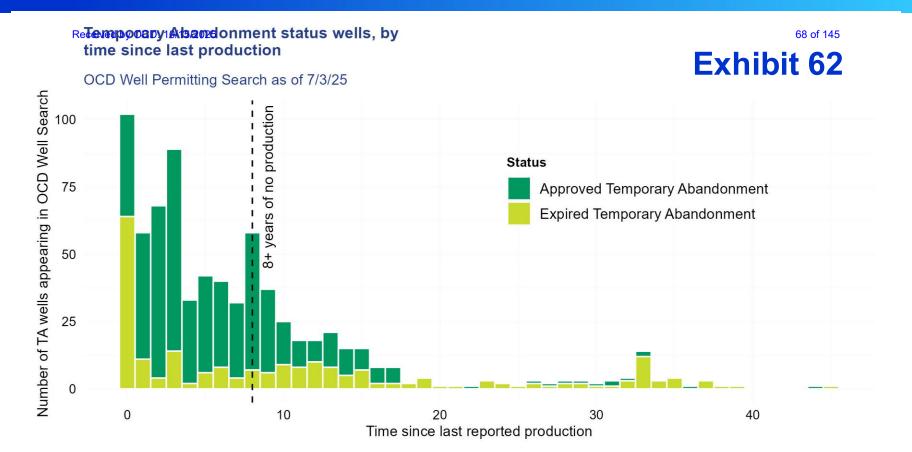
OCD Well History dataset, 1990 – 2024.

#### Wells in Expired TA status over time





Wells reported in Expired TA status by OCD Well History dataset, current as of 7/11/25.

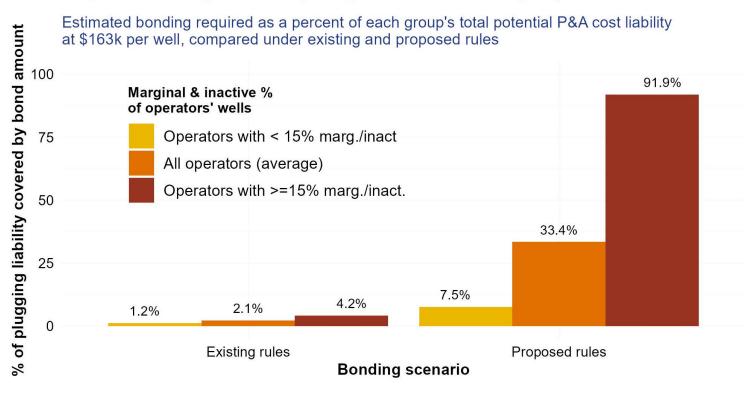


Data reflects wells included in 7/3/25 OCD Permitting Well Search results for wells in Approved or Expired TA status.

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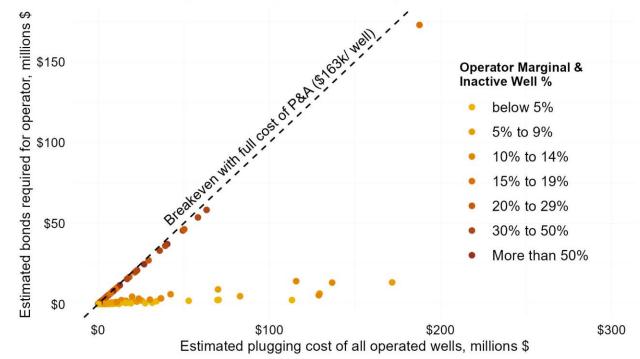
### Exhibit 63

#### Projected bonding amount, by marginal/inactive well % groups



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Estimated bonding amounts required for state and private wells



Plot of firm-level bond amounts (Y axis) versus projected plugging liabilities at \$163k (X axis). A line is plotted at y=x; operators below the line are underbonded relative to potential P&A liability. Operator marginal & inactive well % based on all federal, state, and private lease-type wells; bonding costs and liabilities based on operator's state and private wells only.

#### **Exhibit 64**

Proposed bonding amounts vs. potential plugging liability, by operator

#### Exhibit 65

Table reflects reported oil and gas production volumes from all wells included in 2024 County Production volumes from UNM's GO-TECH data platform (oil in bbl and gas in mcf).

Gas volumes were converted to BOE using a conversion of 6 mcf/BOE.

Wells with incomplete 2024 data due to known Spud Date after January 1, 2024, or plugging date prior to January 1, 2025, were excluded from the search.

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#### List of wells individually producing more than all marginal wells in 2024

API10	BOE (2024)	Lease Type	Well Type	Spud Date	County Name	Property or Formation  Description	
3002552076	1035928.5	F	0	10/31/2023	Lea		
3002332076	1035926.5	Г	0	10/31/2023	Lea		
3001550185	955547.7	F	G	1/15/2023	Eddy		
3001548907	866426.7	F	0	4/4/2023	Eddy		
3001549343	849200	F	0	4/14/2023	Eddy		
3002551956	845298	F	0	10/7/2023	Lea		
3001549344	792154.7	F	G	4/15/2023	Eddy		
3001553715	788311.8	F	G	4/21/2023	NA	PURPLE SAGE; WOLFCAMP	
3001550040	782295	F	G	3/9/2023	Eddy	PURPLE SAGE WOLFCAMP	
3001550039	781872.2	F	G	12/12/2022	Eddy		

#### Additional wells producing more than 700,000 BOE in 2024

199	743302.8	F	G	1/15/2023	Eddy	
8645	734187.2	F	0	NA	Eddy	
2244	733837.7	F	0	1/19/2024	Lea	
256	723975.2	F	0	1/20/2024	Lea	
349	723123.8	F	0	4/19/2023	Eddy	
8646	721704.2	F	0	5/6/2023	Eddy	R- 22701/COMPL. POOLING ENSP
1048	720804.5	F	0	8/11/2023	Eddy	BONE SPRING 2
042	702638.8	F	G	3/9/2023	Eddy	
265	701827.5	F	0	7/12/2023	Lea	
8644	700877.7	F	0	NA	Eddy	
	3645 2244 2256 3349 3646 4048 0042 1265 3644	3645 734187.2 2244 733837.7 2256 723975.2 9349 723123.8 3646 721704.2 4048 720804.5 7042 702638.8 1265 701827.5	734187.2 F 2244 733837.7 F 2256 723975.2 F 2349 723123.8 F 23646 721704.2 F 24048 720804.5 F 2042 702638.8 F 2042 701827.5 F	3645 734187.2 F O 2244 733837.7 F O 2256 723975.2 F O 3349 723123.8 F O 3646 721704.2 F O 4048 720804.5 F O 0042 702638.8 F G 1265 701827.5 F O	3645 734187.2 F O NA 2244 733837.7 F O 1/19/2024 2256 723975.2 F O 1/20/2024 2349 723123.8 F O 4/19/2023 2646 721704.2 F O 5/6/2023 24048 720804.5 F O 8/11/2023 26042 702638.8 F G 3/9/2023 2656 701827.5 F O 7/12/2023	3645 734187.2 F O NA Eddy 2244 733837.7 F O 1/19/2024 Lea 2256 723975.2 F O 1/20/2024 Lea 2349 723123.8 F O 4/19/2023 Eddy 3646 721704.2 F O 5/6/2023 Eddy 3048 720804.5 F O 8/11/2023 Eddy 3042 702638.8 F G 3/9/2023 Eddy 31265 701827.5 F O 7/12/2023 Lea

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## **Exhibit 66**

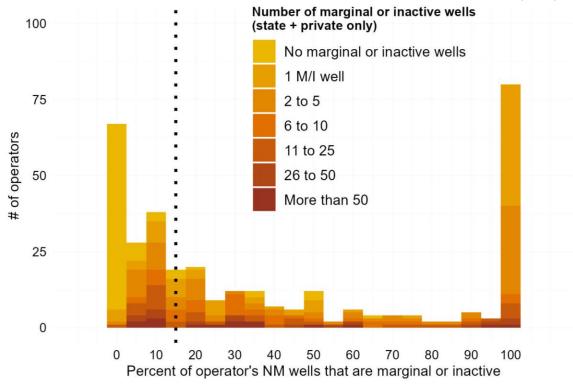
#### Comparisons of operators by marginal and inactive well % group

Based on activity categorization from GO-TECH production data; filtered to federal, state, and private lease type wells active for the entirety of 2024, except where noted otherwise.

Marginal & Inactive Well % group	All operators	< 15% marginal or inactive	>= 15% marginal or inactive
Number of operators with state, private, and federal wells	420	160	260
% of total operators	100%	38%	62%
Number of operators with state and private wells	342	144	198
% of state and private well operators	100%	42%	58%
Total Wells (rounded to 10)	51270	36020	15250
Average wells / operator **	110	180	60
Total M/I wells **	7170	2200	4980
Average M/I wells / operator	15	11	18
Total revenues (2024), millions \$	\$21,040	\$17,277	\$3,763
Average revenues / operator, millions \$	\$44	\$84	\$14
Total revenues from marginal wells, thousands \$	\$22,825	\$9,315	\$13,511
Average revenues from marginal wells, thousands \$	\$49	\$46	\$51

### **Exhibit 67**

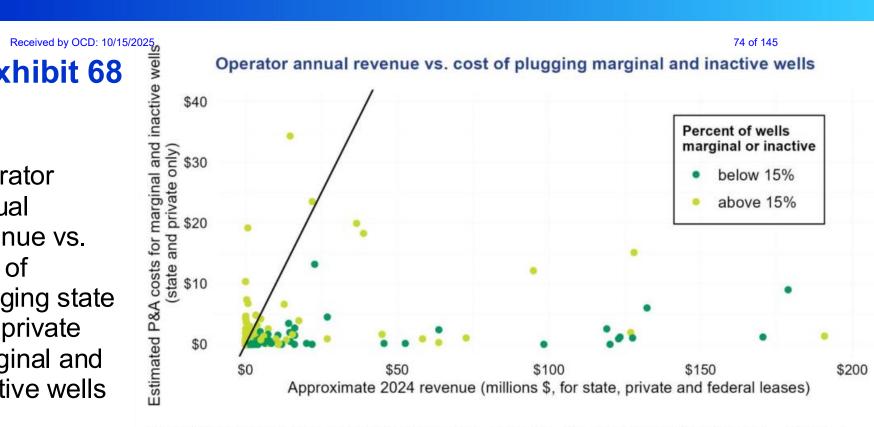
Operators by percentage and absolute count of marginal or inactive wells



Histogram of operators included in bonding amount projections (Apps' Ex. 63), by percentage of federal, state, and private wells marginal or inactive. Data excludes Active status wells with no production data available via UNM's GO-TECH County Production volumes.

### Exhibit 68

Operator annual revenue vs. cost of plugging state and private marginal and inactive wells



Plot of firm-level plugging liability for operator's marginal and inactive wells (Y axis) versus estimated 2024 revenue, under existing rules (X axis).

A line is plotted at y=x; operators below the line generated more 2024 revenue than the expected cost of plugging and abandonment of their state and private marginal and inactive wells. Companies with revenues above \$250 million excluded for legibility of remaining data.

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# **Exhibit 7**

#### OCD INACTIVE WELL LIST (15+ months inactive) Listed wells and apparent compliance status 7/3/25

<u>Well</u> Subset	No. of wells	% of total inactive wells	No. of associated operators	%		
Total well count (from Inactive Well search output – appears to represent wells other than Plugged & Released, Cancelled, and Never Drilled statuses)	74,582	n/a	n/a	n/a		
Total inactive wells (15+ months)	3,765	100%	350	100%		
Total approved TA wells* on Inactive Well Search list	419	11%	89	25%		
Total expired TA wells* on Inactive Well Search list	155	4%	67	19%		
Total wells under ACOI** on Inactive Well Search list	99	3%	3	1%		
Wells on Inactive Well Search list with unusual status (Drilled, New, or Plugged) - excluded from total below	13	< 0.5%	11	3%		
Total inactive wells apparently out of compliance (without ACOI or non-expired TA status)***	3,234	86%	346	99%		

<sup>\*</sup>The approved and expired TA status wells listed on OCD Inactive Well Search is only a subset of all wells labeled by OCD as having TA status, per OCD's Well History datafiles, and per a July 3rd search of OCD's Well Permitting Search for all TA wells.

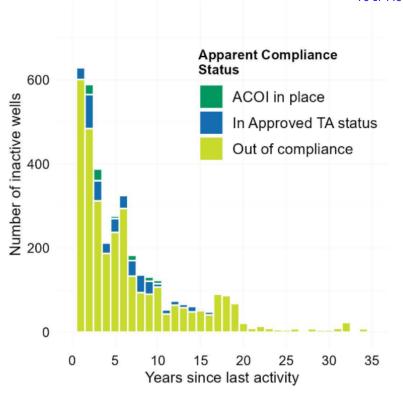
<sup>\*\*</sup> ACOI (Inactive Well Agreed Compliance Order) coverage was determined by the difference between wells included on 2 back-toback queries of OCD's Inactive Well Search for wells 15+ months inactive— one set to include ACOI wells and one set to exclude them. Wells absent from the "Exclude ACOI" version of the list are presumed to have a compliance order in place.

<sup>\*\*\*</sup> Some wells with an ACOI are also listed in expired TA status, so this total is slightly less than the sum of the preceding rows.

#### Exhibit 10

Inactive wells by length of time inactive

7/3/25 OCD Inactive Well List

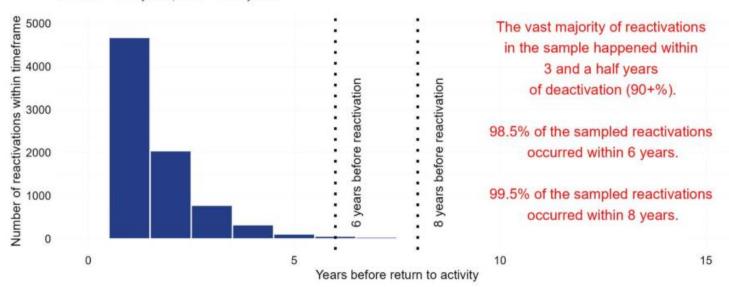


See full exhibit version for details of data development.



# Length of time before deactivated wells return to activity

Median = 1.42 years; 90% = 3.42 years.



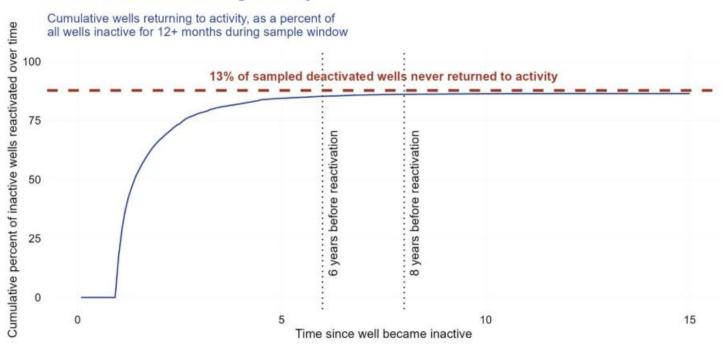
Histogram of length of time inactive prior to return to activity, across sample of wells that reactivated following 12+ months of no production.

Based on analysis of production data from 2010-2024, for wells spudded prior to 2017.

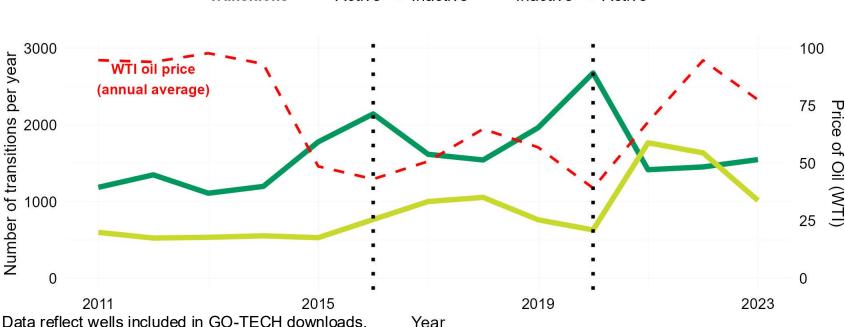
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# Exhibit 13

#### Percent of wells ever returning to activity



Based on analysis of production data from 2010-2024, for sample of wells spudded prior to 2017, beginning with first period of activity after 2010.



**Transitions** — Active --> Inactive — Inactive --> Active

Deactivation was defined as a period of 12+ months of no reported production after known activity, while reactivation was a return to activity following a period of deactivation.

Black lines drawn at 2016 (Shale bust) and 2020 (COVID-19). Increased numbers of deactivations are seen in the year of each event, with a smaller increase in reactivations lagging after (correlated to rising prices.)

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#### Exhibit 70

Table reflects wells returned by OCD Well Permitting Search for wells in approved or expired TA status as of July 3, 2025.

OCD WELL PERMITTING STATUS SEARCH All Temporary Abandonment status wells, by time in approved or expired status 7/3/25				
No. of Wells %				
All Wells in any TA status, (7/3/25)	805	100%		
5+ years in TA status	28%			
8+ years in TA status	111	14%		
10+ years in TA status 65 8%				
15+ years in TA status 29 4%				

#### Exhibit 71

Table reflects wells returned by OCD Well Permitting Search for wells in approved or expired TA status as of July 3, 2025.

# OCD WELL PERMITTING STATUS SEARCH All Temporary Abandonment status wells, by time since last production 7/3/25

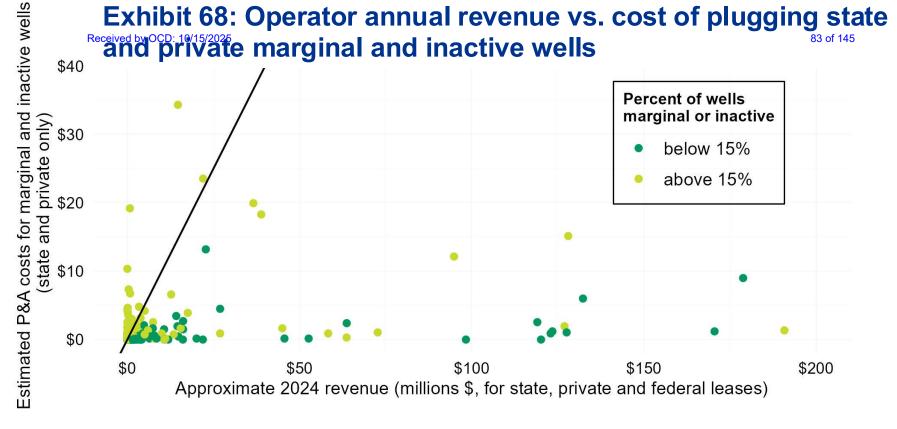
	No. of Wells	%
All Wells in any TA status, (7/3/25)	805	100%
2+ years since last prod.	569	71%
5+ years since last prod.	388	48%
8+ years since last prod.	267	33%
15+ years since last prod.	86	11%

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# **Rebuttal Testimony**







Plot of firm-level plugging liability for operator's marginal and inactive wells (Y axis) versus estimated 2024 revenue, under existing rules (X axis).

A line is plotted at y=x; operators below the line generated more 2024 revenue than the expected cost of plugging and abandonment of their state and private marginal and inactive wells. Companies with revenues above \$250 million excluded for legibility of remaining data.

#### $Comparisons \ of \ Operator \ Revenues \ and \ Bonding \ Amounts, \ by \ Marginal \ and \ Inactive \ \% \ and \ Well \ Count \ Group \ \ 45$

# **Exhibit 84**

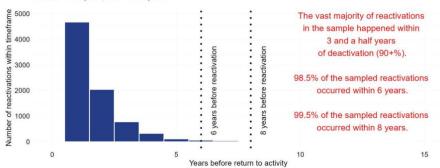
Marginal and inacti ve wells as a fraction of total	Operator well count (inclusiv e of federal, state, and private wells)	Total operators in group	Total marginal and inactive state and private wells in group	Percentage of federal, state, and private wells identified as marginal or inactive	Total estimated 2024 revenue (inclusive of federal, state, and private wells) (millions USD)	Total estimated bonding liability for state and private wells (millions USD)	1% of total bonding liability, as a percentage of total 2024 revenue
	1 to 50	160	641	55%	\$235	\$171	0.729%
above 15	51 to 100	14	247	46%	\$147	\$85	0.577%
%	101 to 500	21	1087	38%	\$956	\$420	0.440%
	Over 500	3	473	24%	\$662	\$272	0.411%
	1 to 50	83	35	6%	\$519	\$18	0.034%
below 15	51 to 100	17	48	7%	\$1,679	\$10	0.006%
%	101 to 500	26	233	7%	\$12,532	\$39	0.003%
	Over 500	18	709	6%	\$35,637	\$109	0.003%
-11	1 to 50	243	676	37%	\$754	\$189	0.25%
all operators	51 to 100	31	295	24%	\$1,826	\$95	0.05%
(above + below 15%)	101 to 500	47	1320	22%	\$13,488	\$459	0.03%
13%)	Over 500	21	1182	8%	\$36,298	\$381	0.01%

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#### Exhibit 13

#### Length of time before deactivated wells return to activity

Median = 1.42 years; 90% = 3.42 years.

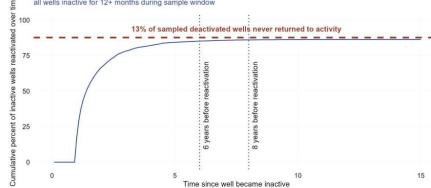


Histogram of length of time inactive prior to return to activity, across sample of wells that reactivated following 12+ months of no production.

Based on analysis of production data from 2010-2024, for wells spudded prior to 2017.

#### Percent of wells ever returning to activity

Cumulative wells returning to activity, as a percent of all wells inactive for 12+ months during sample window



Based on analysis of production data from 2010-2024, for sample of wells spudded prior to 2017, beginning with first period of activity after 2010.

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# Thank you!



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# Testimony of Dwayne Purvis, P.E.



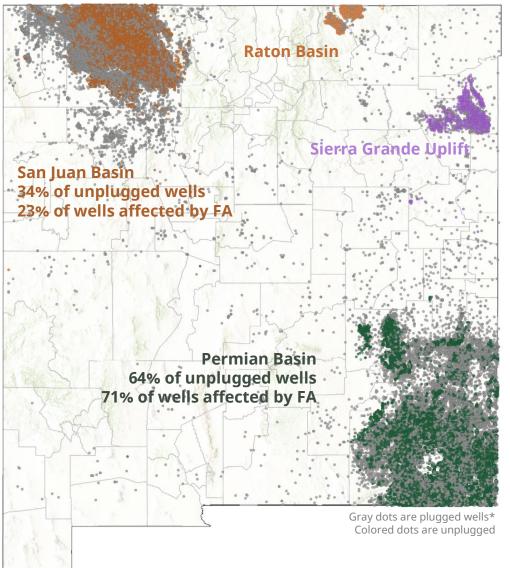
New Mexico Oil Conservation Commission Rulemaking Hearing October 20, 2025 Applicants' Exhibit 30: Scope of decommissioning activities necessary for upstream oil and gas operations.

All jurisdictions  Downhole	Surface		Some jurisdictions  Surface
Plugging	Removal	Remediation	Restoration
Salvage	Wells sites	& Shared facilities	
	Salvage		
Contingency	Contingency	/ Remediation	Contingency
Legacy	Legacy		Legacy

...plus midstream pipelines & plants

after Purvis, 2022a

Applicants' Exhibit 31: Plugged and unplugged wells in New Mexico as of June 2025. (with excerpt from Ap Ex 32)

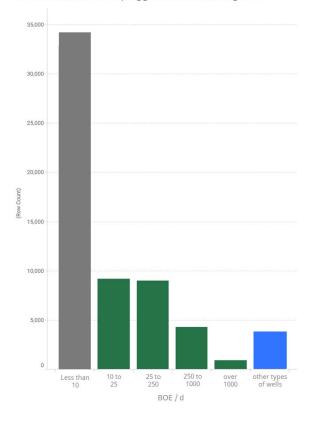


		Unplugged		
Basin	Plugged*	Total	active	not active
Permian	35,661	39,929	36,850	3,079
San Juan	12,941	21,219	20,370	849
Raton	116	861	837	24
Sierra Grande	643	711	698	13
Other	312	-	-	-

Production rate of unplugged wells, excluding DUCs

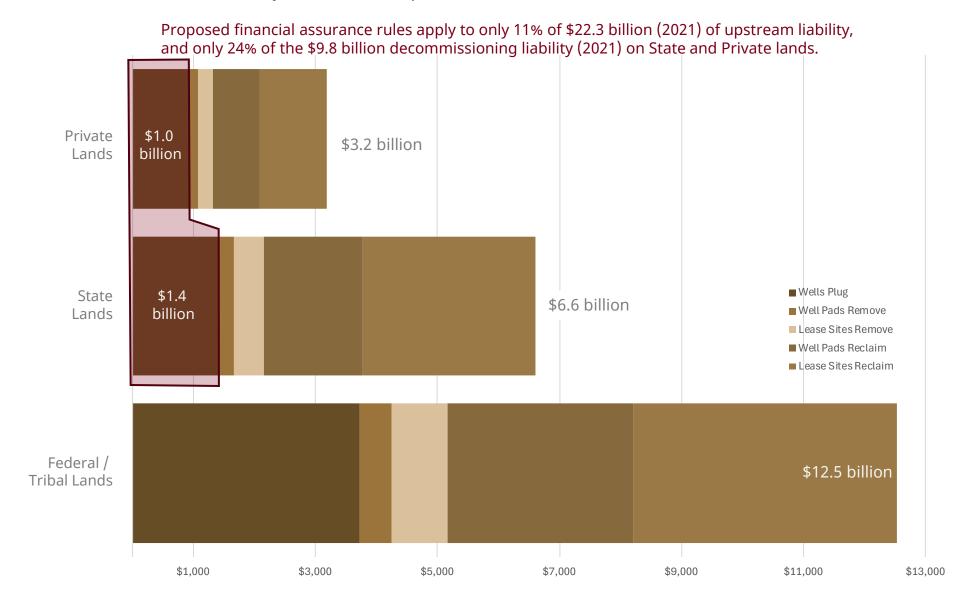
62,720 wells to be plugged

49,673

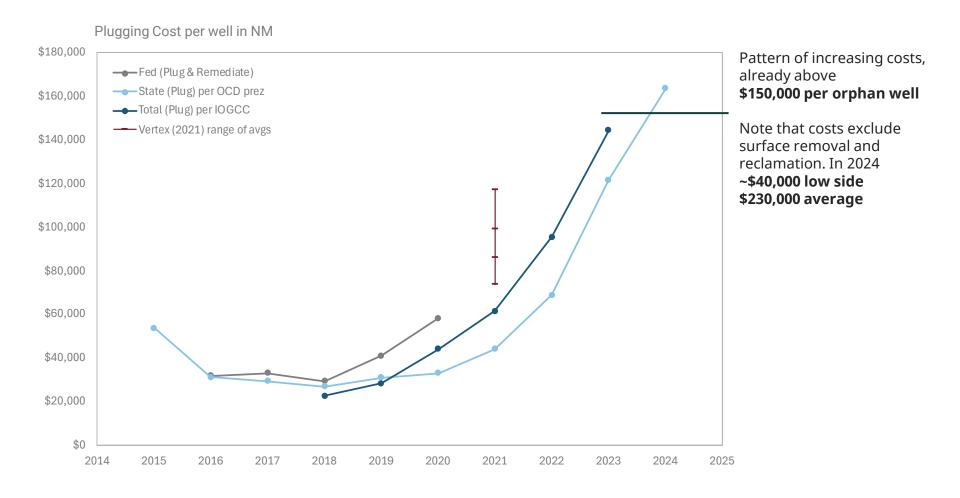




Applicants' Exhibit 34: Total decommissioning and reclamation cost of upstream oil and gas operations in New Mexico after Vertex 2021/2001 adjusted for subsequent inflation.



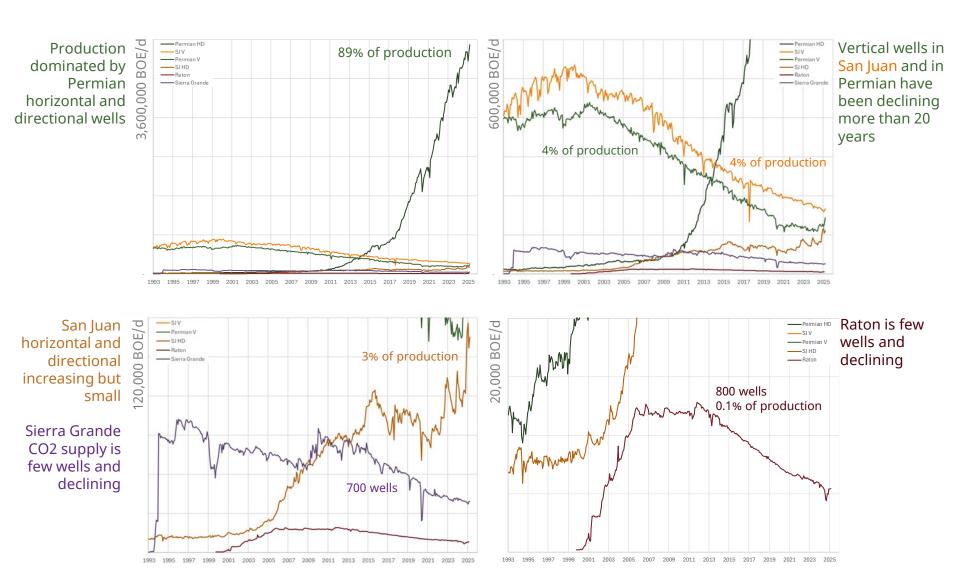






Applicants' Exhibit 33: History of daily production in New Mexico in six categories for major divisions among basins and types of wells shown on four vertical scales.

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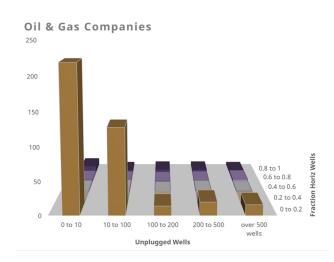


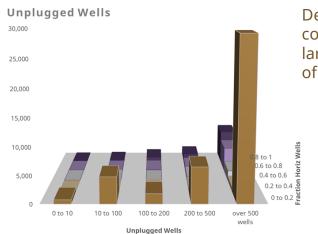


Applicants' Exhibit 35: Four measures of the size and impact of oil and gas companies grouped by size (based on wellcount) and relative proportion of vertical and horizontal wells.

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Among companies, 52% have fewer than 10 wells 83% have fewer than 100

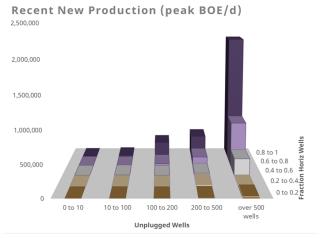


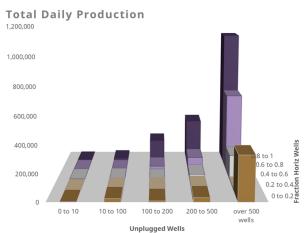


Decommissioning concentrated in large companies of vertical wells

Large shale companies create most new production

99.8% of new production was horizontal Small companies contributed 0.05% of new production.



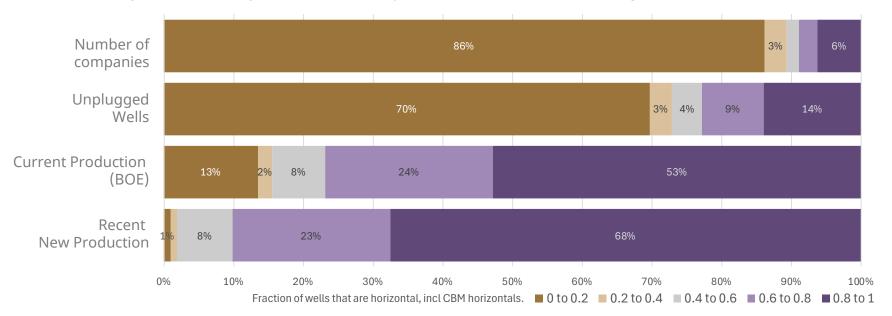


Most current production comes from large shale companies



Applicants' Exhibit 36: Relative measures of oil and gas companies grouped by the nature of their portfolios.

**89% of companies** focus on vertical wells, and they bear P&A responsibility for 73% of wells. But they contribute only 16% of statewide production and **1.9% of recent production additions**.

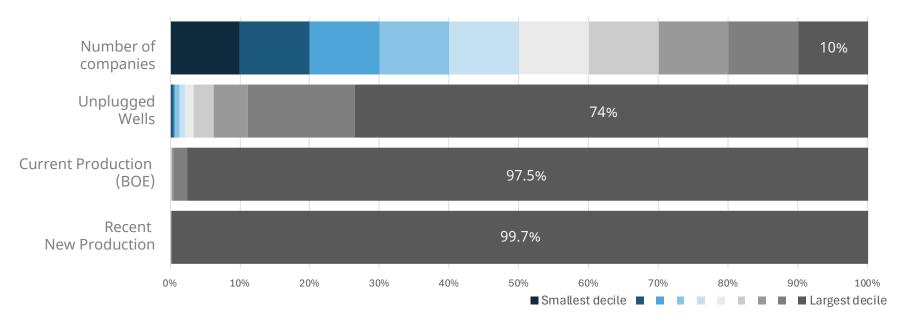


**9% of companies** focus on horizontal wells, and they operate 23% of wells. But they contribute 77% of production and **90% of new production**.



# The bottom 90% of companies are responsible for 26.5% of wells, but they contribute only 2.5% of current production and 0.3% of new production.

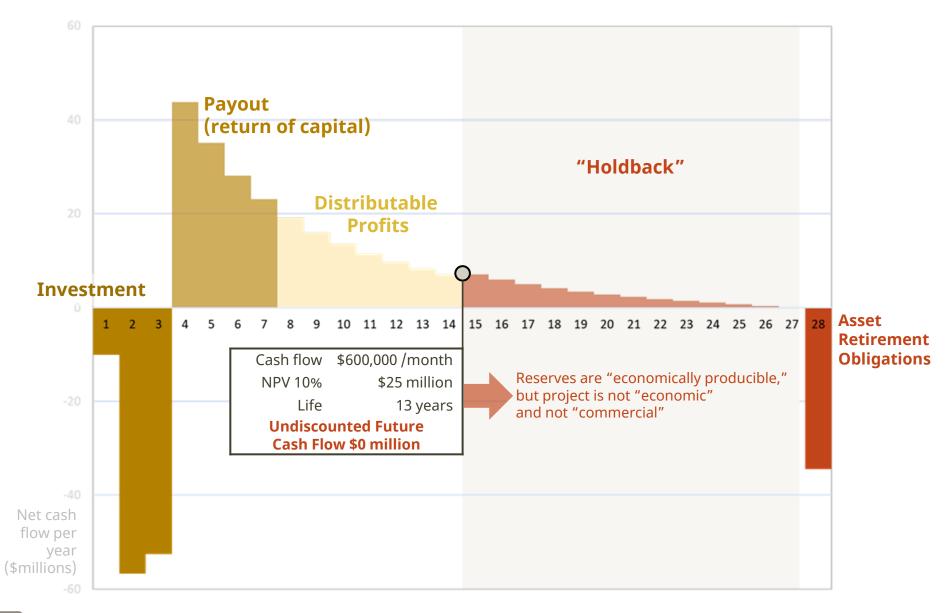
- •27 companies (6%) report zero production
- •183 companies (40%) report less than 10 BOE/d, total 0.02% of statewide volumes
- •Smallest 85% of companies (391) produce 1.0% of statewide volumes



The top 10% of companies account for 97.5% of production and 99.7% of new production.

Applicants' Exhibit 38: Schematic of cash flow for a hypothetical oil and gas project to demonstrate the economic concepts of payout and drowdback.

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Proposed system of illiancial assurance and safegua	I US
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Current Wells	

Current wetts					
Active		two-tier blanket bonds plus single-well bonds in defined cases	\$150,000 for single well \$250,000 for two or more wells		
rells	"Marginal"	extra by-well bond under newly defined conditions	< 180 days AND < 1000 BOE within consecutive 12-months determined once per year		
Individual wells	"No Beneficial Use"	action required under newly defined conditions can be appealed	< 90 days AND < 90 BOE within consecutive 12-months		
	Inactive incl Temporarily Aband'd	extra by-well bond under already-defined conditions	determined as status changes		
Portfolio concentration		by-well bond for all wells under newly defined condition	>15% Marginal and Inactive		
Inflation adjustment		OCD discretion to increase by-well bond using formula	OCD discretion to increase once per year, based on CPI		

<u>Transfers</u>		
Track record	disclosure of compliance record of company and major owners	(not addressed)
Plugging plan	disclosure of current and on-going ability to pay for decommissioning	range of information corporate level present and future
Discretionary denial	option of OCD to deny transfer based on track record and plan	



# Current Wells Active

"Marginal"
"No Beneficial Use"
Inactive incl TA
Portfolio
Inflation adjustment

#### **Transfers**

Track record
Plugging plan
Discretionary denial

- **19.15.8.9.C.** Active wells. An operator shall provide financial assurance for wells that are covered by Subsection A of 19.15.8.9 NMAC and are not subject to Subsections D and E of 19.15.8.9 NMAC in one of the following categories:
- (1) a one well <u>plugging</u> financial assurance in the amount of \$150,000 per well. ;25,000 plus \$2 per foot of the projected depth of a proposed well or the depth of an existing well; the depth of a well is the true vertical depth for vertical and horizontal wells and the measured depth for deviated and directional wells; or
- (2) a blanket plugging financial assurance in the amount of \$250,000 following amounts covering all the wells of the operator subject to Subsection C of 19.15.8.9 NMAC.:
  - (a) \$50,000 for one to 10 wells;
  - (b) \$75,000 for 11 to 50 wells;
  - (c) \$125,000 for 51 to 100 wells; and
  - (d) \$250,000 for more than 100 wells.



#### **Current Wells**

Active
| "Marginal"
| "No Beneficial Use"
| Inactive and exp'd TA
| Portfolio
| Inflation adjustment

#### **Transfers**

Track record Plugging plan Discretionary denial

- **19.15.2.7.M(2)** "Marginal well" means an oil or gas well that produced less than 180 days and less than 1,000 barrels of oil equivalent within a consecutive 12 month period.
- 19.15.8.9.D. Marginal wells and inactive wells. Notwithstanding the provisions in Subsection C(2) in this Section:
- (1) As of the [effective date of amendments] a transferee operator shall provide a one well plugging financial assurance of \$150,000 for each marginal well prior to transfer.
- (2) Beginning January 1, 2028, an operator shall provide a one well plugging financial assurance for each marginal well. Each operator with a marginal well or wells shall annually review the number of marginal wells registered to the operator and shall update the one well plugging financial assurance by May 1 of each year.
- (3) An operator with 15 percent or more of their wells in marginal or inactive well status, or a combination thereof, shall provide a one well plugging financial assurance in the amount of \$150,000 for each well registered to the operator until the percentage of the operator's marginal and inactive wells is decreased below 15 percent.
- (4) An operator may furnish all necessary one well plugging financial assurance in the form of a single instrument.



#### **Current Wells**

Active
| "Marginal"
| "No Beneficial Use"
| Inactive and exp'd TA
| Portfolio
| Inflation adjustment

#### **Transfers**

Track record
Plugging plan
Discretionary denial

19.15.2.7.B(7) "Beneficial purposes" or "beneficial use" means an oil or gas well that is being used in a productive or beneficial manner such as production, injection or monitoring, and does not include use of a well for speculative purposes.

#### 19.15.25.9 PRESUMPTIONS OF NO BENEFICIAL USE:

- A. For oil and gas production wells, there is a rebuttable presumption that a well is not capable of beneficial use if, in a consecutive 12 month period, the well has not produced for at least 90 days and has not produced at least 90 barrels of oil equivalent.
- **B.** For injection or salt water disposal wells, there is a rebuttable presumption that a well is not capable of beneficial use if, in a consecutive 12 month period, the well has not injected at least 90 days and at least 100 barrels of fluid.
- C. The rebuttable presumptions in this Section do not apply to wells that have been drilled but not completed for less than 18 months and wells that have been completed but have not produced for less than 18 months.

. . .



#### **Current Wells**

Active
| "Marginal"
| "No Beneficial Use"
| Inactive and exp'd Portfolio
Inflation adjustment

#### **Transfers**

Track record
Plugging plan
Discretionary denial

• • •

- D. Within 30 calendar days after notice of a preliminary determination from the division that a well or wells are not being used for beneficial purposes, a well operator may submit an application for administrative review of such determination through the division's electronic permitting portal. The division shall issue a final determination based on the application, and information available in division records, and any information requested by the division. The final determination may be appealed pursuant to 19.15.4 NMAC. Applications shall to demonstrate beneficial use of a well or wells and the operator shall provide any information requested by the division. Such documentation may shall include:
- (1) Documentation demonstrating that the well is reasonably projected to produce in paying quantities; and
- (2) Documentation demonstrating that the operator maintains adequate capitalization or reasonably projected revenue sufficient to meet all reasonably anticipated plugging and environmental liabilities of the well or wells and associated production facilities, not inclusive of any financial assurance associated with the well or wells; and
- (3) Other relevant information requested by the division including a A plugging and abandonment plan as described in 19.15.9.9.B NMAC:; and
  - (4) Other relevant information requested by the division.



#### **Current Wells**

Active
| "Marginal"
| "No Beneficial Use"
| Inactive and exp'd TA
| Portfolio
| Inflation adjustment

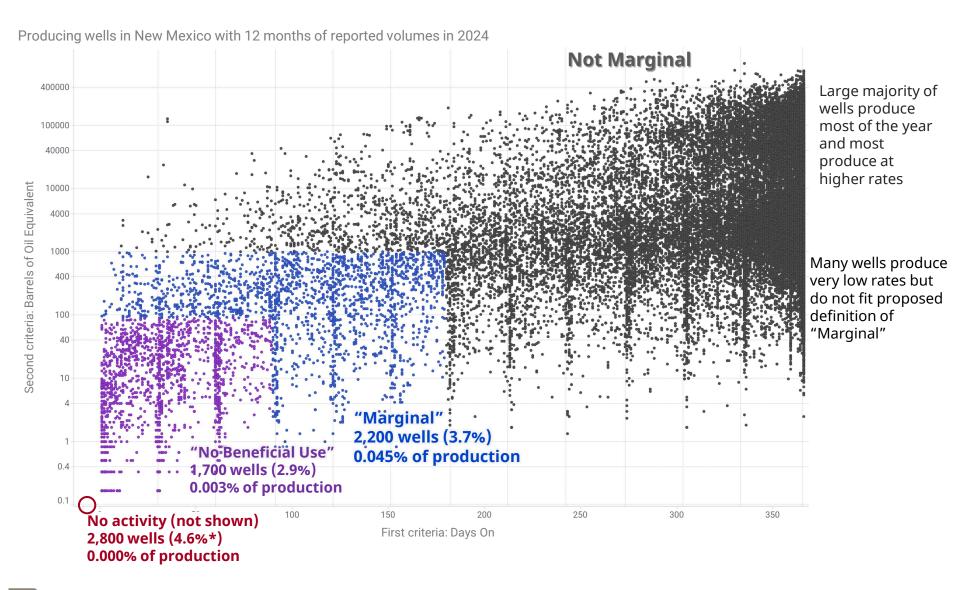
#### **Transfers**

Track record
Plugging plan
Discretionary denial

19.15.8.9.E.D. Inactive wells and wells in approved and expired temporarily abandoned status. An operator shall provide financial assurance for wells that are inactive and wells in approved and expired temporarily abandoned status, covered by Subsection A of 19.15.8.9 NMAC that have been in temporarily abandoned status for more than two years, or for which the operator is seeking approved temporary abandonment pursuant to 19.15.25.13 NMAC, in one of the following categories:

- (1) a one well <u>plugging</u> financial assurance in the amount of \$150,000 per well; \$25,000 plus \$2 per foot of the projected depth of a proposed well or the depth of an existing well; the depth of a well is the true vertical depth for vertical and horizontal wells and the measured depth for deviated and directional wells; or
- (2) a blanket plugging financial assurance equal to an average of \$150,000 per well covering all wells of the operator subject to Subsection ED of 19.15.8.9 NMAC.:
  - (a) \$150,000 for one to five wells;
  - (b) \$300,000 for six to 10 wells;
  - (c) \$500,000 for 11 to 25 wells; and
  - (d) \$1,000,000 for more than 25 wells.

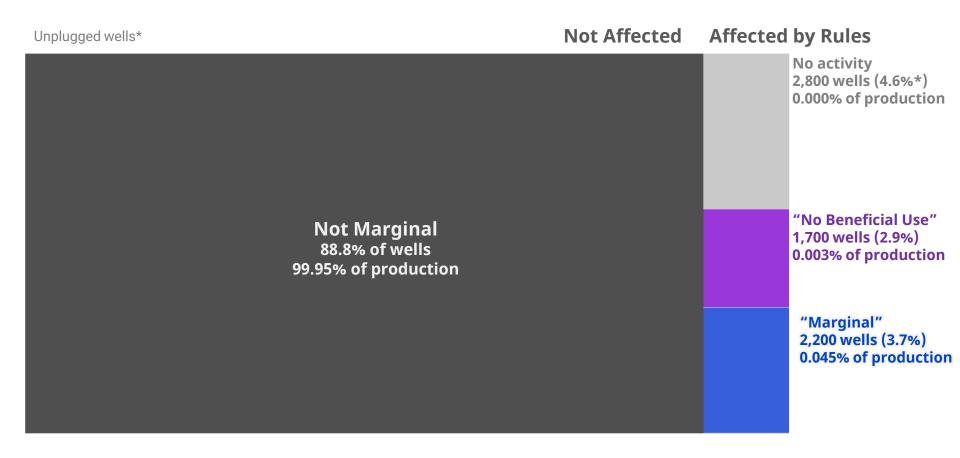






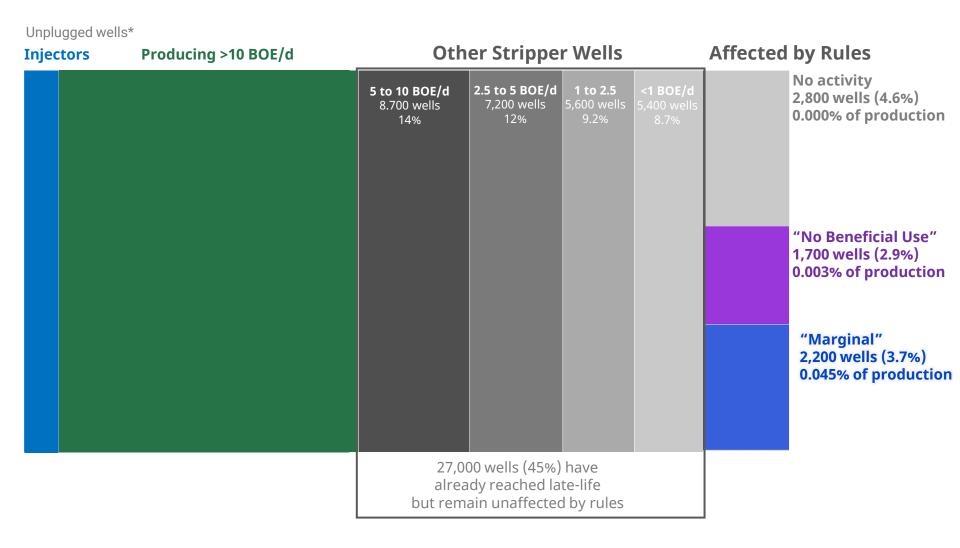
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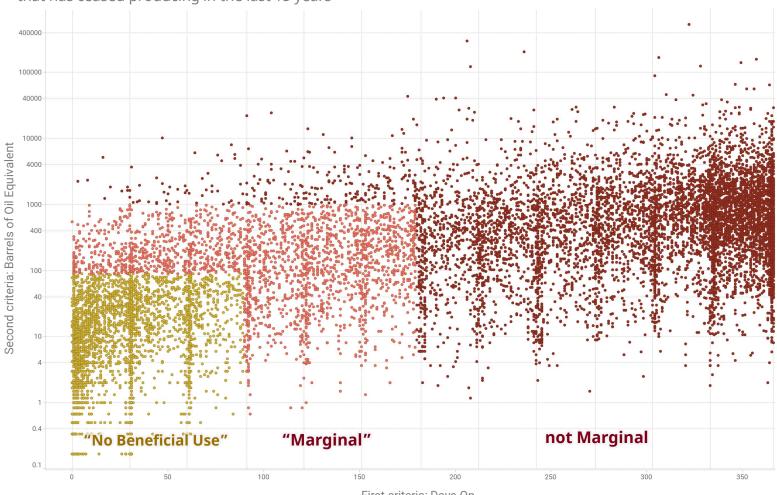


Applicants' Exhibit 42: Treemap of area representing numbers of wells in each category, with further detail on wells that representing numbers of wells in each category, with further detail on wells that representing numbers of wells in each category, with further detail on wells that representing numbers of wells in each category, with further detail on wells that representing numbers of wells in each category, with further detail on wells that representing numbers of wells in each category, with further detail on wells that representing numbers of wells in each category, with further detail on the representing numbers of wells in each category, with further detail on wells that representing numbers of wells in each category, with further detail on the representing numbers of wells in each category.





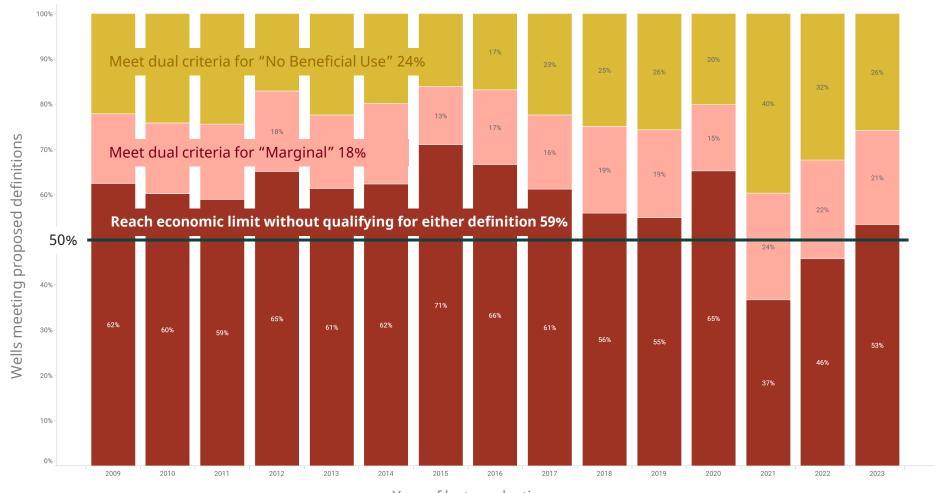
Each dot represents the volume produced and days on for a single well that has ceased producing in the last 15 years



Majority of wells end production without qualifying as "Marginal" or "No Beneficial Use"

First criteria: Days On





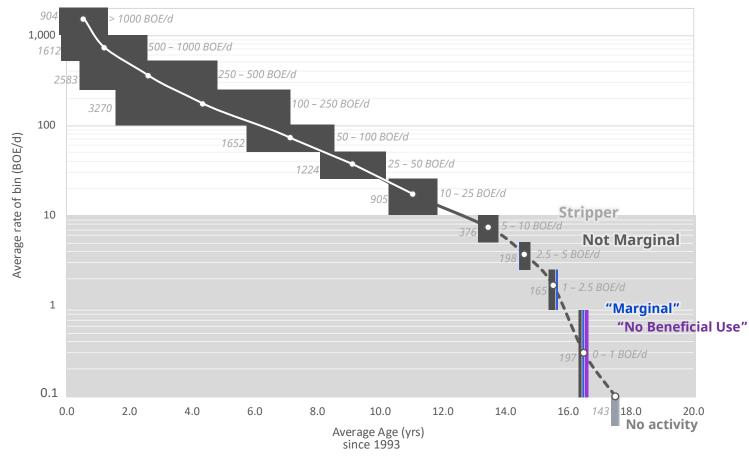
Year of last production



Applicants' Exhibit 45: Permian Basin horizontal and directional wells binned by daily production rate and positioned over a positioned ov

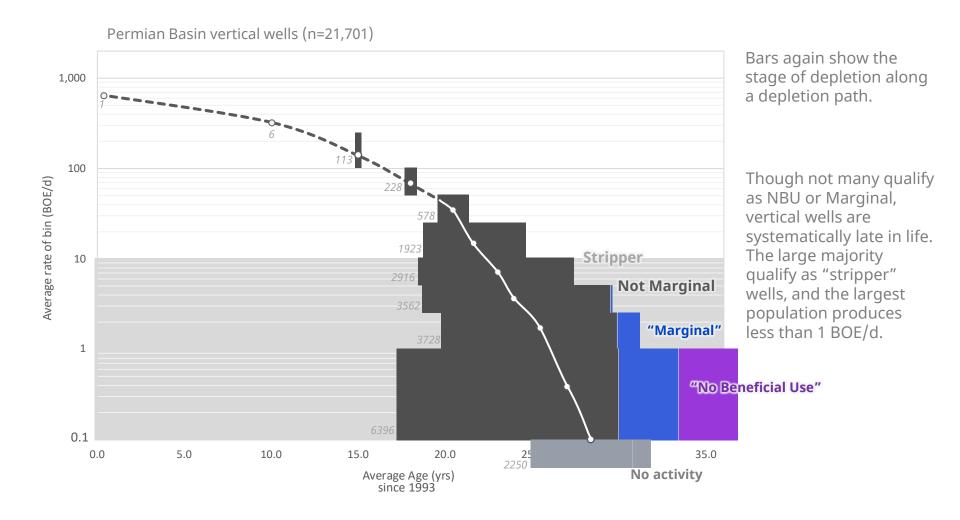
The path shows the sequence of binned well productivity vs average age in each bin, and the bars show the number of wells in each bin.

Most wells are less than 11 years old. The largest cohort is producing between 100 and 250 BOE/d Permian Basin horizontal and directional wells (n=11,229) binned by recent production and arranged in sequence

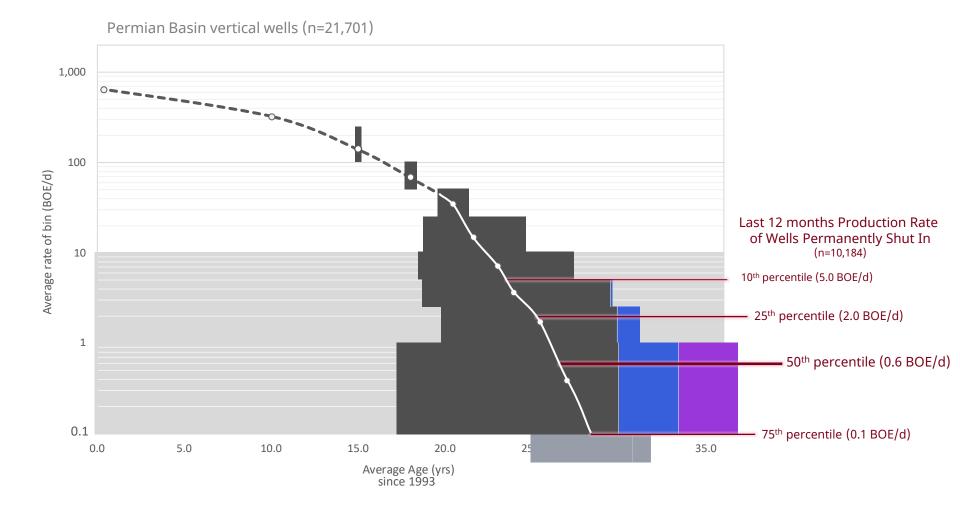




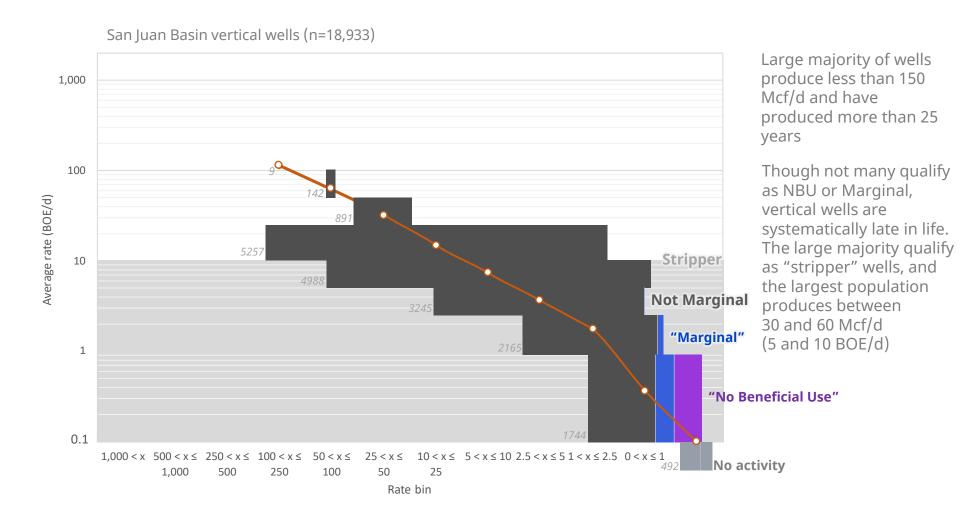
Applicants' Exhibit 46: Permian Basin vertical wells binned by daily production rate and positioned over average rate and average age for 200 of 145



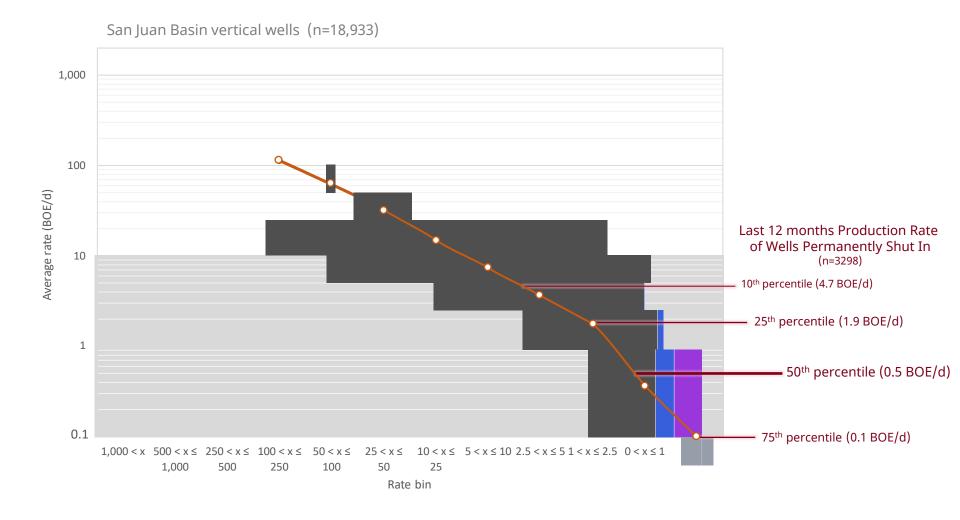














### Proposed system of financial assurance and safeguards

#### **Current Wells**

Active
| "Marginal"
| "No Beneficial Use"
| Inactive incl TA
| Portfolio
| Inflation adjustment

#### **Transfers**

Track record
Plugging plan
Discretionary denial

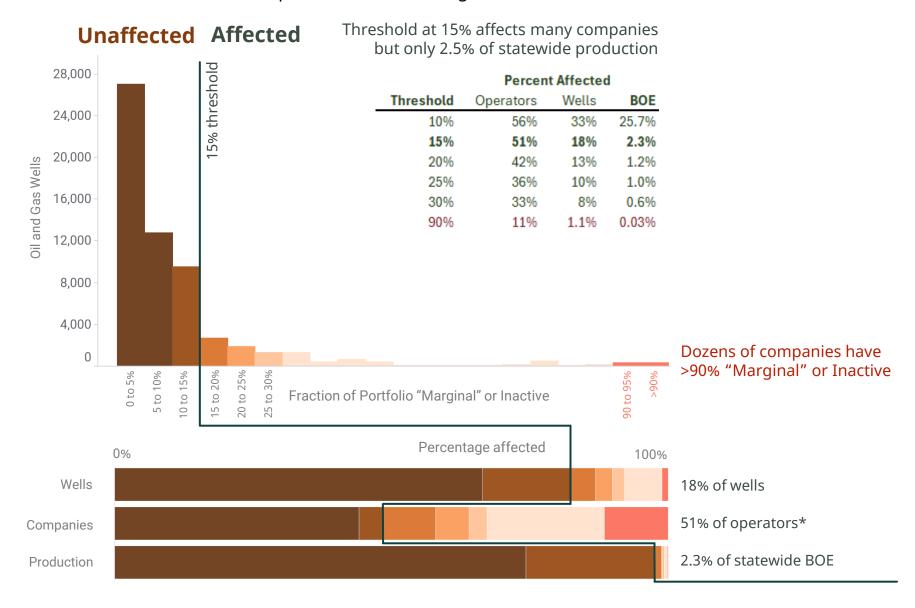
#### 19.15.8.9.D. Marginal wells and inactive wells.

Notwithstanding the provisions in Subsection C(2) in this Section:

- (1) As of the [effective date of amendments] a transferee operator shall provide a one well plugging financial assurance of \$150,000 for each marginal well prior to transfer.
- (2) Beginning January 1, 2028, an operator shall provide a one well plugging financial assurance for each marginal well. Each operator with a marginal well or wells shall annually review the number of marginal wells registered to the operator and shall update the one well plugging financial assurance by May 1 of each year.
- (3) An operator with over 15 percent or more of their wells in marginal or inactive well status, or a combination thereof, shall provide a one well plugging financial assurance in the amount of \$150,000 for each well registered to the operator until the percentage of the operator's marginal and inactive wells is decreased below 15 percent.
- (4) An operator may furnish all necessary one well plugging financial assurance in the form of a single instrument.



Applicants' Exhibit 52: Distribution of the concentration of marginal and inactive wells in oil and gas company portfolios and the combined size of portfolios above a range of thresholds.





### Proposed system of financial assurance and safeguards

#### **Current Wells**

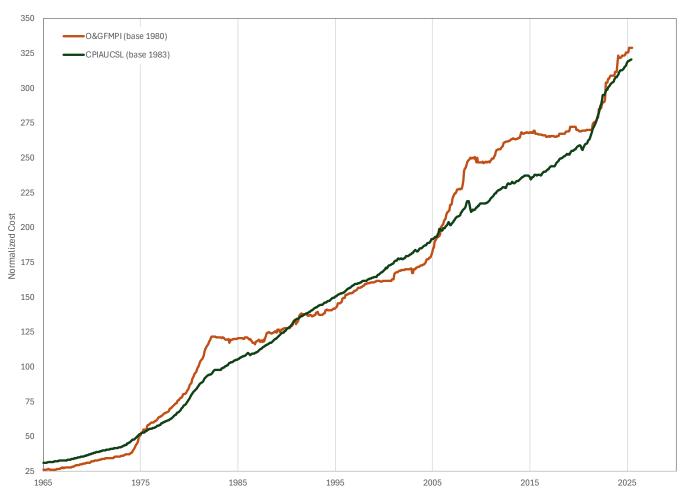
Active
| "Marginal"
| "No Beneficial Use"
| Inactive and TA
| Portfolio
| Inflation adjustment

#### **Transfers**

Track record Plugging plan Discretionary denial **19.15.8.9.G**. On January 1, 2028 and on January 1 of each successive year, the division may adjust the financial assurance amounts provided by Subsections C(1), D, E, and F of this Section by multiplying the financial assurance as of January 1, 2027 by a fraction, the numerator of which is the consumer price index ending in September of the previous year and the denominator of which is the consumer price index ending September 2026; provided that any financial assurances shall not be adjusted below the minimum amounts required in Subsections C(1), D, E and F of this Section as a result of a decrease in the consumer price index. By November 1, 2027 and by November 1 of each successive year, the division shall post on its website the financial assurance requirements in Subsections A through E of this Section for the next year. As used in this section, "consumer price index" means the consumer price index, not seasonally adjusted, for all urban consumers, United States city average for all items, or its successor index, as published by the United States department of labor for a 12 month period ending September 30.



#### Comparison of Consumer Price Index and Oilfield Equipment Price Index





### Proposed system of financial assurance and safeguards

#### **Current Wells**

Active
| "Marginal"
| "No Beneficial Use"
| Inactive and TA
| Portfolio
| Inflation adjustment

#### **Transfers**

Track record

Plugging plan

Discretionary denial

19.15.9.9.B. . . . . The new operator shall not commence operations until the division approves the application for change of operator. The plugging and abandonment plan shall be certified by an authorized representative officer, director, or partner of the new operator and shall demonstrate that the new operator has and will have the financial ability to meet the plugging and abandonment requirements of 19.15.25 NMAC for the well or wells to be transferred in light of all the operator's assets and liabilities. The division may request the operator to provide additional information including corporate credit rating, corporate financial statements, long-term liabilities, reserves and economics report, records of the operator's historical costs for decommissioning activities, estimate of the operator's decommissioning obligations, and history of inactive wells and returning wells to production.



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# REBUTTAL TESTIMONY



#### Themes of Direct Testimony in Opposition to Rules, 119 of 145

# Change from prior practice and other states

e.g. Arthur at 31 and 49, McGowen at 92 and 109-111, Mitchell at 4

## How changes are implemented

e.g. Arthur at 4, Felix at 2, Arscott at 23, McGowen at 132, Emmerick at 7

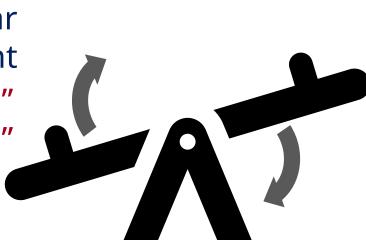
# Cost to industry (and indirectly to the public)

e.g. Gilstrap 3, Sharpe at 7, Harvard at 9, Arthur at 38, Arscott at 13

But not the benefit to the state



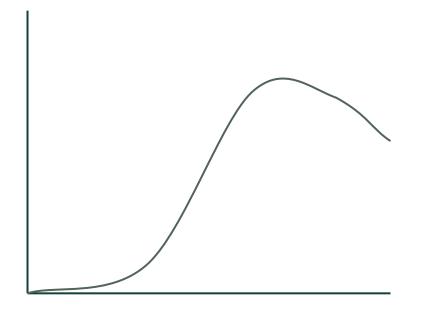
Simple Clear Efficient "Rigid" "One-size-fits-all"



Flexible
Adaptive
"Vague"
"Burdensome"
Vulnerable to abuse

for intended purpose now and future

**Net Benefit** for greatest public good



to public direct and indirect

Benefits to public direct and indirect

## First source of understanding optimization is analog experience

Researcher	Jurisdiction	Findings
Dachis, 2017 (cited by Arscott at 2)	Alberta	[O]nce a well enters the inactive phase, the province should require companies to hold insurance to cover the cost of cleaning up the well.
Boomhower, 2019 (cited by Arscott at 2)	Texas	About 5 percent of firms, especially small firms and firms with poor environmental records, left the industry. Production was reallocated from small to large producers. Very low-producing projects, which were most likely to have been socially inefficient after considering environmental costs, were shut down. However, the overall rate of oil and gas production in the industry was unaffected.
		A back-of-the-envelope comparison of the value of avoided environmental damages and compliance costs suggests that the policy yielded substantial welfare gains.
		[I]t seems likely that somewhat higher bond requirements could yield further benefits given that Texas' requirements are still below potential damages.
Harleman, 2018	Pennsylvania	Increasing bonds to match the best estimates of reclamation costs is likely to create a socially desirable outcome In the majority of plausible scenarios, these benefits outweigh the wages and royalties paid to state residents that would be forgone if operators respond to increased bonds by drilling fewer wells.



## First source of understanding optimization is analog experience

Researcher	Jurisdiction	Findings
Muehlenbachs, 2015 and 2017	Alberta	This article demonstrates that in designing policies to decommission oil and gas wells, unnecessary weight has been placed on not jeopardizing production.
		The paper summarized here demonstrates that policies for plugging and abandoning oil and gas wells in Alberta are biased towards inexpensive potential restart rather than environmental protection or remediation.
Davis, 2015	U.S.	[I]n theory, negotiating bond amounts on a well-by-well basis could lead to more efficient bond amounts, in practice it adds to the overall economic cost of bonding requirements because it causes the diversion of resources to non-productive uses, such as negotiating with regulators over bond amounts.



## First source of understanding optimization is analog experience

Researcher	Jurisdiction	Findings
Lange & Redlinger, 2018	North Dakota	In discussing the rule changes, the president of the North Dakota Petroleum Council stated "They are the most onerous regulatory changes we've ever seen," and considered North Dakota's regulations "now overly burdensome and among the most stringent and costly in the nation."
		Results find no statistical change in the pace of drilling wells after the ND regulations came into effect. This result is consistent across multiple specifications, including different bandwidths and functional forms of the data. Production of oil did not on average decline with the imposition of the ND regulations, however the distribution of production amongst firms did change.
		The reduction in production for small operators in ND after the regulation went in effect, relative to production in MT, is about 0.5%. The reduction in production from small operators seems to be coming from operator exit.
		Taken together, these results imply that the regulation had little, if any, impact on drilling and production



#### Specific Objections to Financial Assurance Proposals of 145

#### **Alternative Models**

e.g. Bradley at 5, Gilstrap at 7, McGowen at 14

# "Risk-based" variations and available data

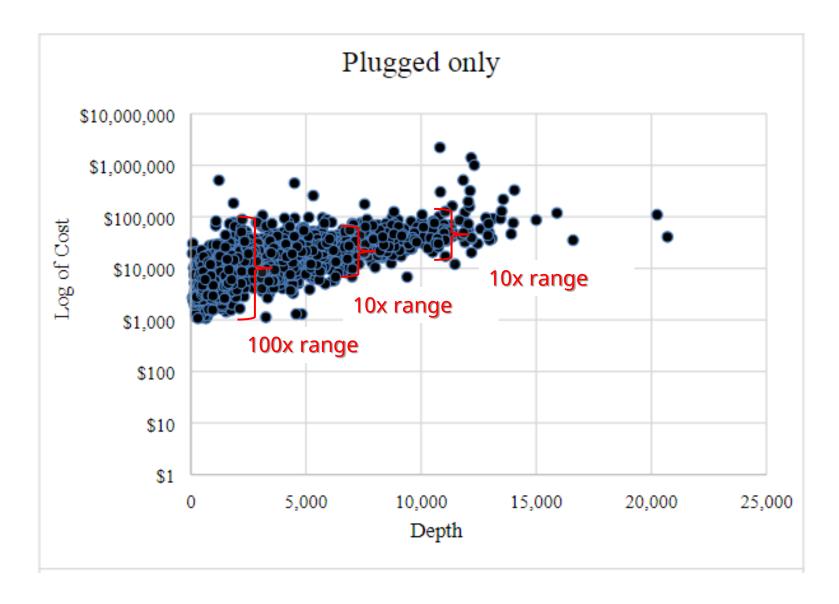
e.g. Felix at 15, Arthur at 4, McGowen at 9, Arscott at 4, Andrews at 2, Sharpe at 5

# "Typical" or "median" costs

e.g. Felix at 22, Arthur at 29, McGowen 78 and 80, Arscott at 4



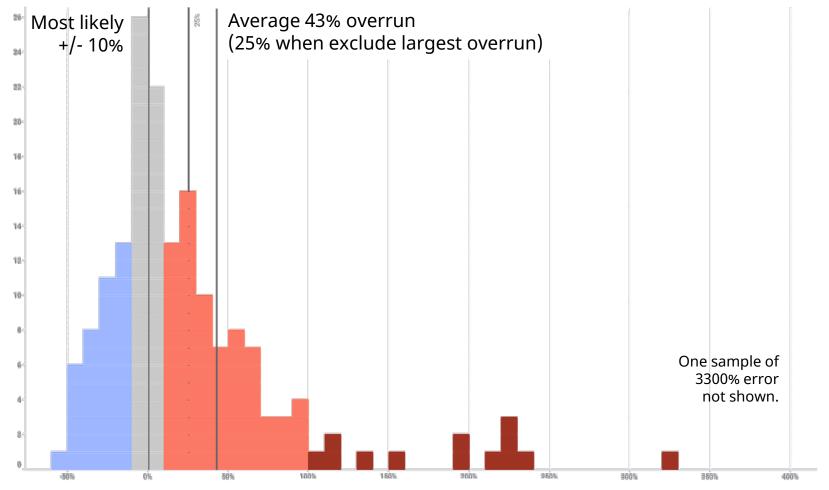
Applicants' Exhibit 78: Figure S2 of Raimi 2021 showing the relationship of the logarithmic of plugging-only cost against the depth of the wells in a sample across five states with brackets to show ranges of 10x and 100x.





Applicants' Exhibit 77: Variance of actual downhole plugging costs to estimates shows long high-side tail.

Percent difference of actual plugging costs compared to estimate





e.g. Felix at 22, Arthur at 29, McGowen 78 and 80, Arscott at 4

# Reduction of working capital and reduced reinvestment

e.g. Gilstrap at 6 to 7

#### Fewer transfers

e.g. McGowen at 95 to 99

#### Less innovation

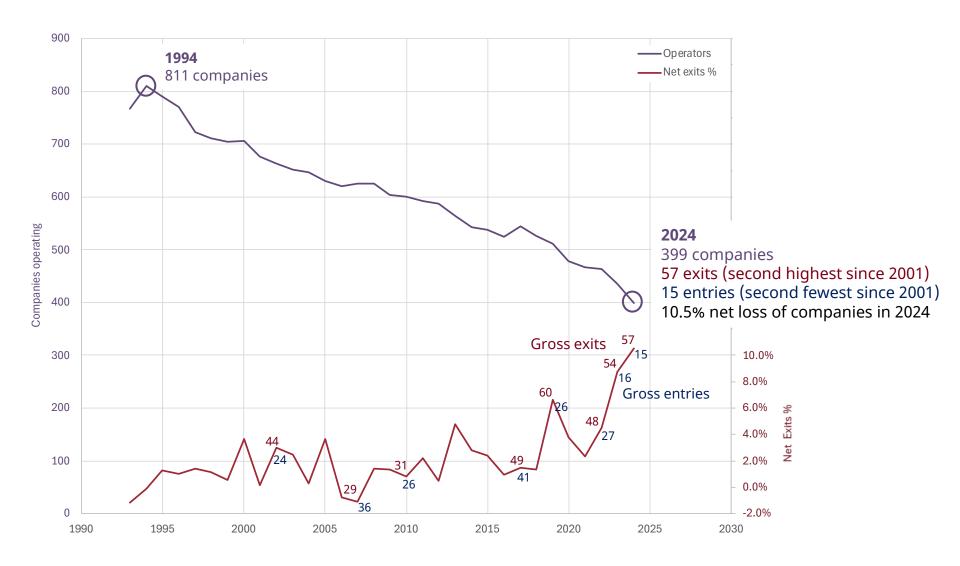
e.g. McGowen at 99 to 108

# Fewer companies in the state

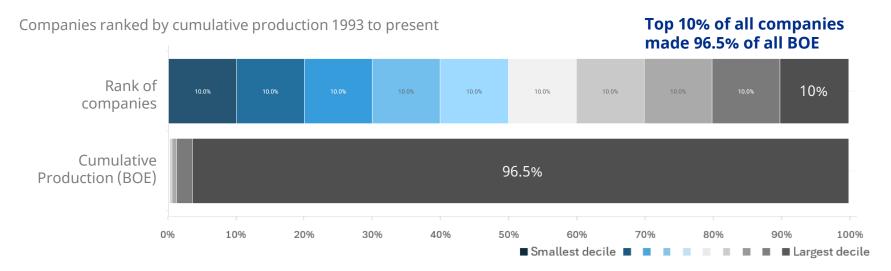
e.g. Arthur at 27 to 28



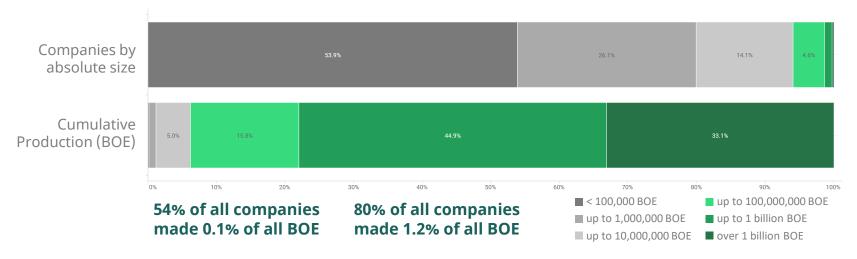
Applicants whibit & who be and accelerating in recent years.



Applicants' Exhibit 79: Proportion of cumulative oil and gas production 1993 to present contributed by companies of warious sizes.



Companies grouped by volume of cumulative production 1993 to present





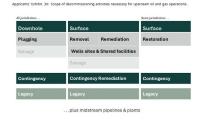
—Range of project maturity evaluated with best (P50) estimate—

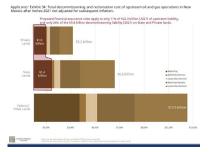
	Reserves	On Production		
<b>)</b>		Approved		_
		Justified	"commercially viable" with "no known contingencies" "firm intention to proceed with development within a reasonable time-frame"	
		Pending	"project activities are ongoing to [justification]in the foreseeable future"	_ Range of thresholds _ for delay
	Contingent Resources	On Hold	"project activities are <b>on hold</b> and/or where justificationmay be subject to <b>significant delay</b> "	
		Unclarified	"project activities are <b>under evaluation</b> and where justificationis unknown based on available information." "requires appraisal or study and should not be maintained without a plan for future evaluation"	
		Not Viable	"no current plans to develop or to acquire additional data"	
	Prospective	Prospect	"sufficiently well defined to represent a viable [testing] target"	
	Resources	Lead	"poorly defined and requires more data acquisition and/or evaluation to be classified as a Prospect"	
		Play	"trend of <b>potential prospects</b> , but which requires more data acquisition and/or evaluation to define specific Leads or Prospects"	

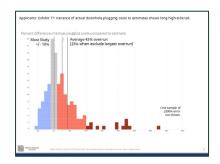
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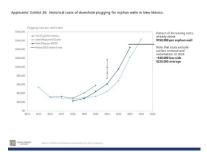
# SURREBUTTAL TESTIMONY

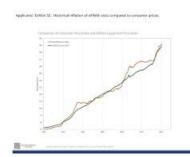


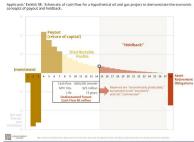




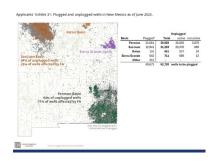


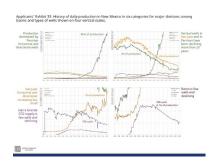


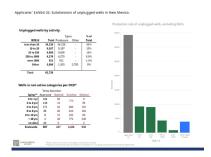




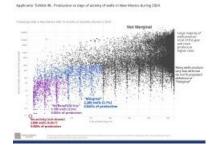


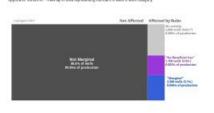


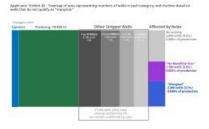




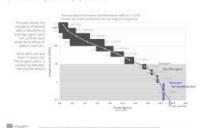




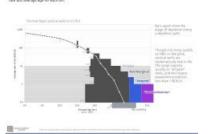




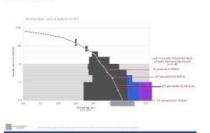




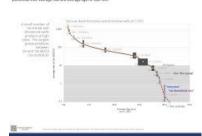


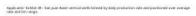


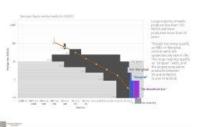
Applicants' Exhibit 81: Companion of binned Perman Bath vertical webs to final rates of production



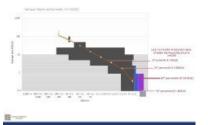
Applicance Exhibit III. San juan Basin hardonisti and directional swifts briefed by daily production rate and positioned over average rate and average age for each bin.



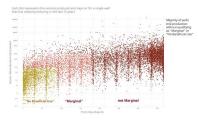




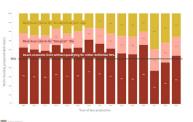
Applicants' Exhibit 50: Companion of boxed tain push these we told wells to final rates of production demonstrated in the bosos.



pplicants' Exhibit 43: Actual economic limit of production demonstrated by wells which ceased production demonstrated by well demonstrated by the ceased production demonstrated

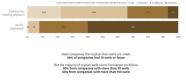


#### Applicants' Exhibit 44: Proportions of wells which qualified as "no beneficial use" and "marginal" at the point that production is known to have ceased.

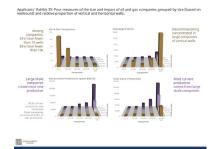


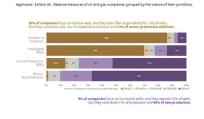


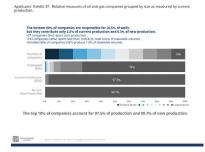
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Applicants' Enhibit 79: Proportion of cumulative oil and gas production 1993 to pre-cer contributed by chaptered of various sizes.

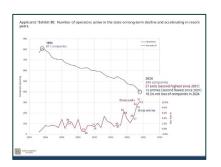
Companies resided by cumulative production 1991 to pre-set

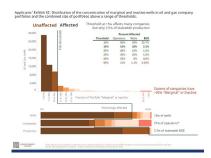
Tap this of all Companies

Resided and an analysis of the companies and the 1905 of all Colleges of the Companies

Companies The Companies of cumulative production 1991 to pre-set

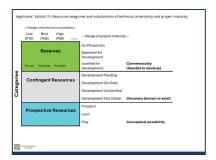
Companies The Companies of the Companies

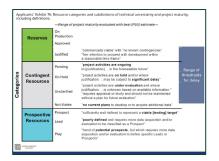


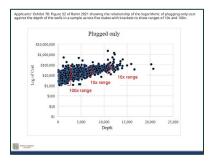




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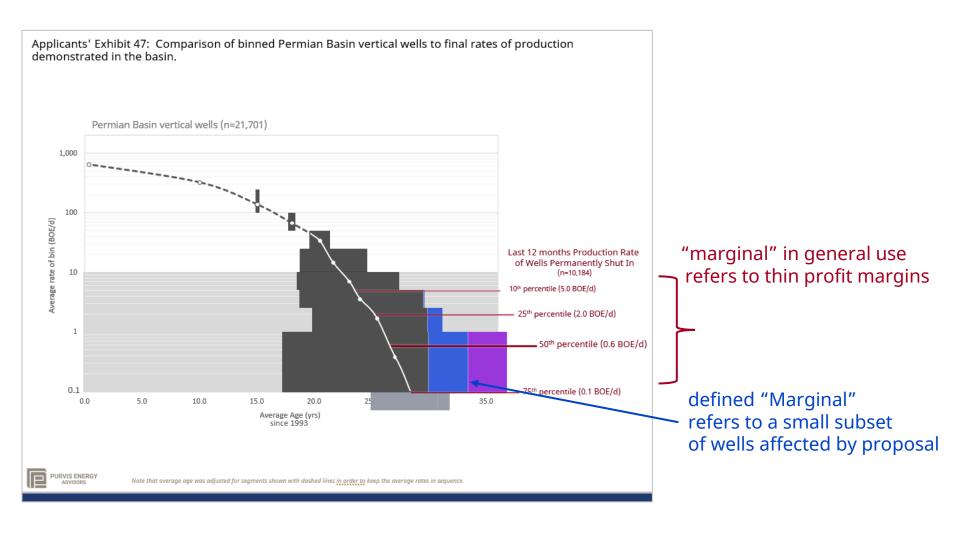




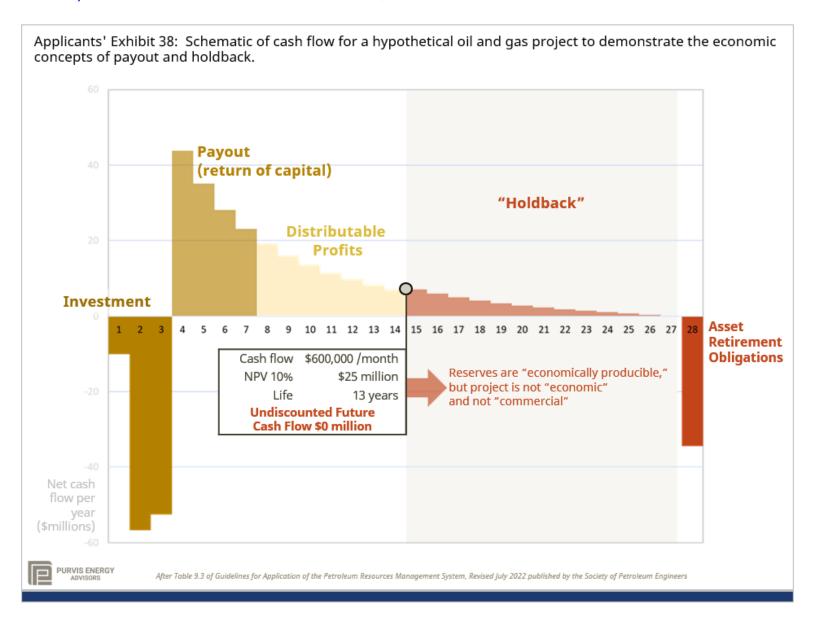




### Conflation of defined terms with general meaning 137 of 145









## **IS NOT**

Fair market value

Prescribed strategy

**IS NOT** 

Used in the proposed rules



## IS NOT IS

Fair market value Yardstick to characterize the cash flow

Prescribed strategy Planning tool

## IS NOT IS

proposed rules

Used in the Consistent with PRMS

Presented through Society of Petroleum Engineers

- Distinguished Lecture tour
- Journal of Petroleum Technology
- SPE LIVE webinar

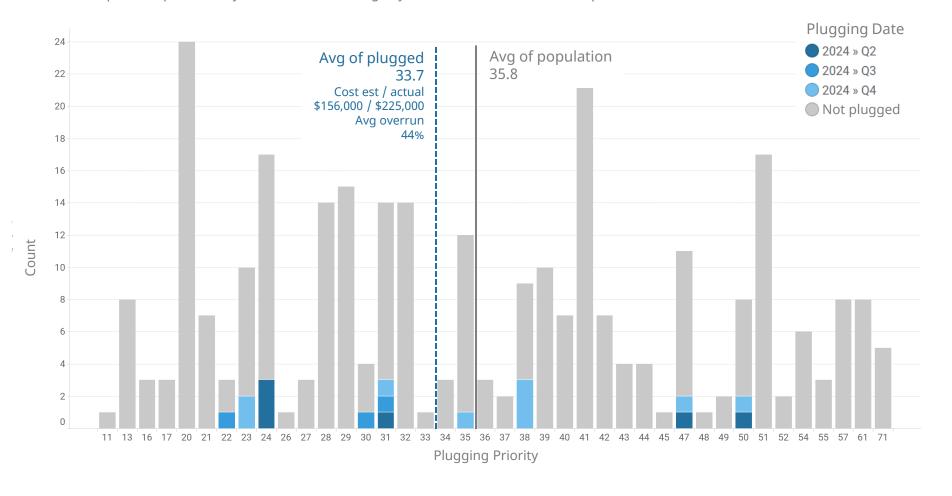
Other professional societies and conferences



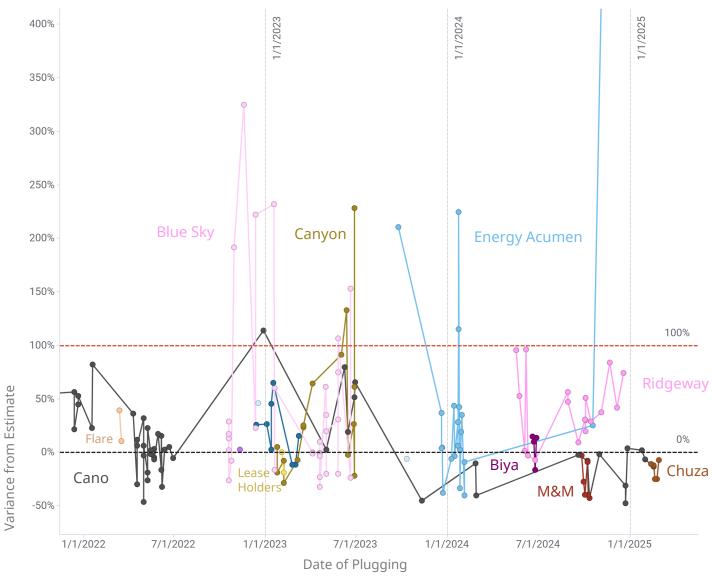
#### Applicants' Exhibit 86; Prioritization scheme and application to wells orphaned by Ridgeway Arizona Oil, Received by OCD: 10/15/2025

In sum, OCD prioritizes plugging and remediation activities first by first ranking wells that pose a possible risk of harm to public health and the environment, and secondly according to plugging schedules that maximize administrative efficiency and provide for plugging of all eligible wells in given area.

- active or historic leaks, known or suspected well integrity issues, lack of well control at the surface,
- proximity to occupied structures, agricultural areas, water supply wells, threatened or endangered species
- possible presence of H2S or NORM, the age of the well, elevated downhole pressures,

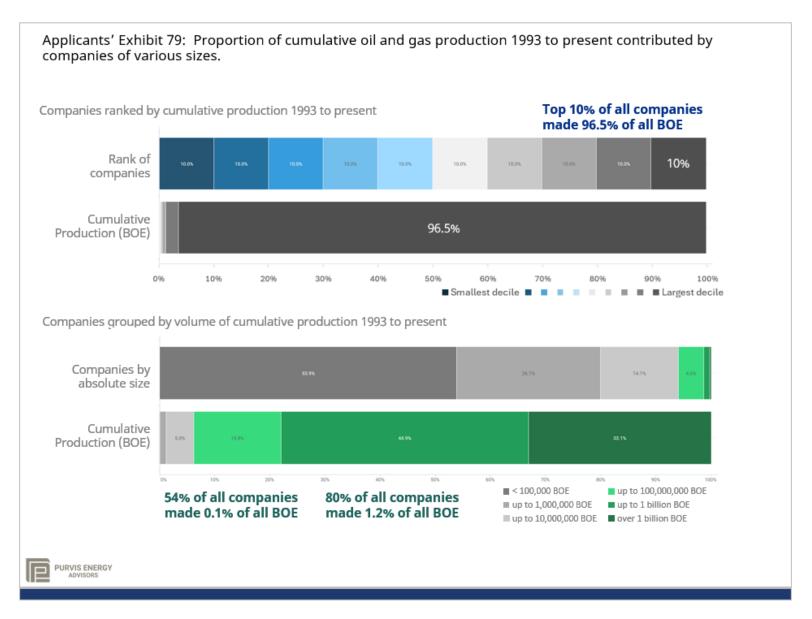






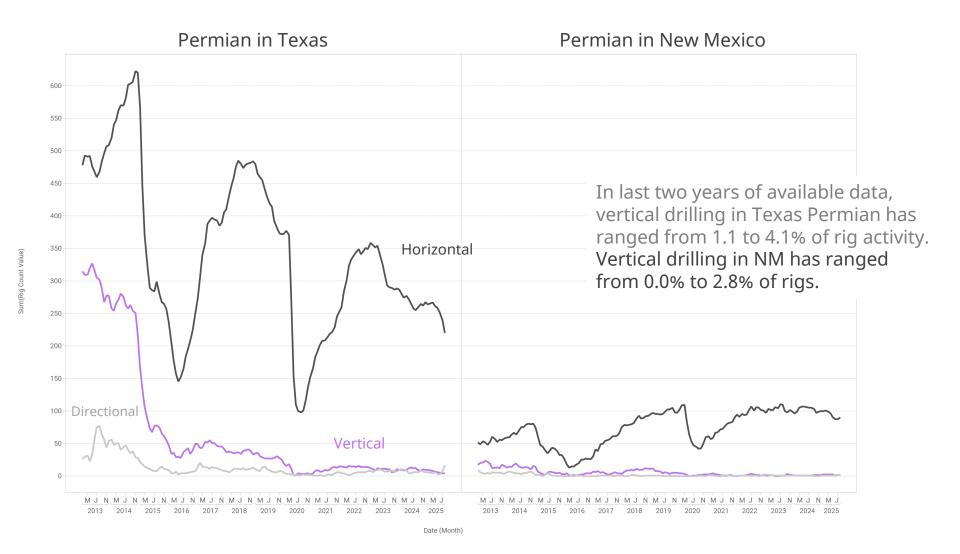


### Historical and Indirect Significance of Small Operators





#### Significance of vertical wells in the Permian Basin





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# **END OF SLIDES**

